# COMMONWEALTH OF MASSACHUSETTS Board of Registration in Pharmacy

# NOTICE OF THE REGULARLY SCHEDULED MEETING OF THE BOARD OF REGISTRATION IN PHARMACY

# **November 1, 2018**

239 Causeway Street ~ Room 417 A&B Boston, Massachusetts 02114

If you need reasonable accommodations in order to participate in the meeting, contact the DPH ADA Coordinator Beth Rabasco, Phone: 617-624-5291 in advance of the meeting. While the Board will do its best to accommodate you, certain accommodations may require distinctive requests or the hiring of outside contractors and may not be available if requested immediately before the meeting.

# Agenda

Time	#	Item	Page	Contact
8:30	I	CALL TO ORDER		M. Godek
	II	APPROVAL OF AGENDA  • Introduction of new interns:  o Elizabeth Yimam - Northeastern.  o January Arkle –Western New England	1	
	Ш	<ul> <li>APPROVAL OF BOARD MINUTES</li> <li>Draft of October 4, 2018 Regular Session Minutes</li> <li>Draft of October 18, 2018 Regular Session Minutes</li> </ul>	4 24	
8:40	IV	<ul> <li>REPORTS</li> <li>Applications approved pursuant to Licensure Policy 13-01</li> <li>Monthly report from probation</li> <li>Board Delegated Review pursuant to Licensure Policy 14-02</li> <li>Above Action Levels approved by Staff Action 16-04</li> </ul>	116 117 118	

		POLICIES and ADVISORIES	119	
8:45	V	Updating of pharmacy policies		
		<ul> <li>APPLICATIONS</li> <li>Benzer Pharmacy/Southwick Pharmacy (DS90050) –Transfer of</li> </ul>	121	
9:15	VI	<ul> <li>Ownership</li> <li>Eastern Pharmacy – New Community Pharmacy</li> <li>Maplewood Wellness Pharmacy – New Community Pharmacy</li> <li>Whole Health Pharmacy (DS89933) – Renovation/Expansion</li> <li>Goldenseal Apothecary – New Community Pharmacy</li> <li>Milford Central Pharmacy – New Community Pharmacy</li> <li>CVS 209 (DS3597) – Change of Manager</li> <li>Allied Pharmacy, Inc. (DS90102) – Relocation</li> <li>RMG Pharmacy – New Community Pharmacy</li> </ul>	132 151 172 178 194 206 233 249	
10:00	VII	<ul> <li>FLEX</li> <li>Public Comment to Revised USP &lt;797&gt; &amp; USP &lt;825&gt;</li> <li>Board Officer Nominations</li> <li>Board Meeting Calendar 2019</li> <li>Referring 247 CMR 17.00 to the Advisory Committee</li> </ul>	261 262	
10:30	VIII	<ul> <li>Determination of Termination of Probation</li> <li>CVS #299, DS3596, PHA-2016-0237</li> </ul>	263	
10:45	IX	Request for Reinstatement  • Mark Rubin PHA-2012-0005 PH233459		
11:00	X	<ul><li>REGULATIONS</li><li>247 CMR 17.00 – Sterile Compounding</li></ul>		

		FIL	E REVIEW		
			FILE		
		1	SA-INV-12558- Johnson Compounding and Wellness- DS90089	276	
		2	SA-INV-13461- Cambridge Health Alliance- DS3051	291	
		3	PHA-2018-0042- Walgreens #9233- DS3407	293	
12:00	XI	4	PHA-2018-0045- Walgreens #3300- DS3412	296	
		5	SA-INV-13572- CVS #1009- DS1592	298	
		6	PHA-2018-0055- Winchester Pharmacy- DS89848	300	
		7	SA-INV-13377- Greater Lawrence Family Health Center- DS90041	304	
			12:30		
		EX	LUNCH BREAK ECUTIVE SESSION		
				312	
			Board will meet in Executive Session as authorized pursuant to		
			G.L. c. 30A, § 21(a)(1) for the purpose of discussing the reputation,		
			racter, physical condition or mental health, rather than professional appetence, of an individual, or to discuss the discipline or dismissal of,		CI OGED
1:30	XII		omplaints or charges brought against, a public officer, employee, staff		CLOSED SESSION
			nber or individual. Specifically, to evaluate the Good Moral Character		BEBBIOI
		as re	equired for registration for pending applicants.		
3:00	XIII	M.(	G.L. c. 112, § 65C SESSION	339	CLOSED SESSION
5:00	XIV	AD.	JOURNMENT		CLOSED SESSION

# COMMONWEALTH OF MASSACHUSETTS BOARD OF REGISTRATION IN PHARMACY

# MINUTES OF THE GENERAL SESSION 239 Causeway Street, Fourth Floor ~ Room 417A Boston, Massachusetts, 02114 November 1, 2018

# **Board Members Present**

Michael Godek, RPh. President
Andrew Stein, Pharm D, RPh. President Elect
Kim Tanzer, PharmD, RPh. Secretary
Susan Cornacchio, JD, RN
Julie Lanza, CPhT
Timothy Fensky, RPh (arrive 8:52 AM)
Carly Jean-Francois, RN, NP
Sebastian Hamilton, Pharm D, RPh
Leah Giambarresi, Pharm D, RPh
Dawn Perry, JD (arrive 9:22 AM)

# **Board Members Not Present**

Stephanie Hernandez, Pharm D, BCGP, RPh Patrick Gannon, RPh

# **Board Staff Present**

David Sencabaugh, RPh, Executive Director
Monica Botto, CPhT, Associate Executive Director
Heather Engman, JD Board Counsel
William Frisch, RPh Director of Pharmacy Compliance
Michelle Chan, RPh Quality Assurance Pharmacist
Joanne Trifone, RPh., Director of Pharmacy Investigations
Kimberly Morton, CPhT, Compliance Officer
Greg Melton, JD, PharmD, BCPS, RPh, Investigator
Julienne Tran, Pharm D, RPh Investigator/Quality Assurance Pharmacist
Joseph Santoro, RPh Investigator
Nathaniel Van Allen, Pharm D, RPh, Investigator
Ed Taglieri, MSM, NHA, RPh, PSUD Supervisor
Richard Harris, Program Analyst

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# **TOPIC I**. Attendance by roll call:

### **CALL TO ORDER 8:35 AM**

A quorum of the Board was present, established by roll call. President M. Godek chaired the meeting and asked if anyone was recording hearing, no one responded. He explained that the Board of Pharmacy was recording the meeting.

Roll call attendance: A. Stein, yes; K. Tanzer, yes; J. Lanza, yes; S. Hamilton, yes; L. Giambarresi, yes; M. Godek, yes; C. Jean-Francois, yes; S. Cornacchio, yes

- T. Fensky joins meeting 8:52 AM
- D. Perry joins meeting 9:22 AM

Topic II. Approval of Agenda TIME 8:36 AM

Agenda November 1, 2018

### **DISCUSSION:**

Change to Agenda:

- 1. Defer Benzer Pharmacy/Southwick Pharmacy transfer of ownership
- 2. Defer open session CVS #1009 SA-INV-13572

### **ACTION:**

Motion by S. Hamilton, seconded by L. Giambarresi, and voted unanimously to approve the agenda with noted changes.

Dave introduced the 2 interns: Elizabeth Yiman, Northeastern University and January Arkle, Western New England. Mike asked all students in the audience to stand and introduce themselves.

Topic III Approval of Board Minutes TIME: 8:36 AM

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# **Minutes**

# 1. Draft, October 4, 2018 Regular Session Minutes

Changes:

1. no change

# Action:

Motion by L. Giambarresi, seconded S. Hamilton, and voted unanimously to approve the regular session minutes of October 4, 2018 with noted changes.

# 2. Draft, October 18, 2018 Regular Session Minutes

Changes:

1. no change

# **Action:**

Motion by L. Giambarresi, seconded S. Hamilton, and voted unanimously to approve the regular session minutes of October 4, 2018 with noted changes.

# TOPIC IV REPORTS Applications approved pursuant to Licensure Policy 13-01

<u>Discussion</u>: M. BOTTO noted that during the past month there have been twelve (12) changes of manager on record (MOR) and two (2) renovation/ expansions.

So noted

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Time: 8:38 AM

TOPIC IV REPORTS

**Monthly Report from Probation** 

Time: 8:38 AM

Time: 8:38 AM

Time: 8:38 AM

<u>Discussion</u>: M. BOTTO provided the September 25, 2018 – October 24, 2018, Board of Pharmacy Statistics Report for the Probation monitor, which noted that two (2) licensees were given the opportunity to cure, one (1) successful completed their probation, and that there are currently fifty-two (52) licensees on probation.

So noted

TOPIC IV REPORTS
Monthly Report from BDCR pursuant to Policy 14-02

<u>Discussion:</u> M.BOTTO noted that during the past month there have been three (3) staff actions for board delegated reviews. All three were CE deficiencies (SA-INV-13916, SA-INV-13896, and SA-INV-13967). All staff assignments were closed with discipline not warranted and remediation complete.

So noted

TOPIC IV REPORTS
Above Action Levels Approved by Staff Action 16-04

<u>Discussion:</u> K.MORTON noted that during the past month there were four (4) above action level results, which were successfully remediated and closed pursuant to licensure Policy 16-04.

So noted

TOPIC V POLICIES and ADVISORIES

1. Joint Policy 2018-01: Permitted Prescription Changes and Additions Time: Time: 8:39AM

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# **Discussion:**

M. CHAN presented edits to the policy to allow the pharmacist to change the days' supply dispensed (e.g. 30-day supply with 11 refills vs. 90-day supply with 3 refills) WITHOUT having to contact the prescriber. This would only be permitted for drugs that are NOT reported to the PMP and would be subject to the pharmacist's professional judgement.

M. GODEK asked if there are requirements to document changes on the prescription in case of insurance audits. M. CHAN stated the joint policy addresses requirements for documentation and it is enforceable. M. GODEK asked if the insurance companies would be notified of changes. M. CHAN stated it falls under the pharmacist's professional judgement for appropriateness and whether the patient's insurance allows a month or three-month supply.

**Action**: Motion by A. STEIN, seconded by L. GIAMBARRESI, and voted unanimously by those present, to approve the changes to the joint policy.

# 2. Partial Fill of Schedule II Prescriptions

#### Discussion:

M. CHAN presented revisions to the partial filling of schedule II prescriptions document that was originally approved at the October 4 Board meeting. In addition to formatting changes, a clarification was made regarding the 5-day requirement. The 5-day requirement for partial fill only applies to only out-of-state CII prescriptions. In order to partially fill those out-of-state scripts, they must be presented within 5 days of issuance. In-state CII prescriptions may be partially filled at any time within 30 days of issuance.

**Action**: Motioned by S. HAMILTON, seconded by A. STEIN, and voted unanimously by those present, to approve the updates to partial filling of schedule II medications circular letter.

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### TOPIC VI APPLICATIONS

1. Benzer Pharmacy/Southwick Pharmacy, DS90050 Transfer of Ownership DEFERRED

2. Eastern Pharmacy New Community Pharmacy

**RECUSAL: NONE** 

TIME: 8:44 AM

Time: 8:43AM

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<u>DISCUSSION</u>: Eastern Pharmacy was represented by Owner and proposed Manager of Record, Evan Dostert.

- Eastern Pharmacy came before the Board of Pharmacy with an application to open a New Community Pharmacy;
- Location will be at 161 Eastern Ave, Lynn, MA next to 3 elderly housing complexes;
- The proposed MOR has had experience as a Manager of Record in the state of Nevada;
- The Pharmacy will be closed on Sundays with a phone service available forwarding to MOR's cellphone;
- The owner will be looking to hire a Pharmacist and Technician (certified and registered);
- The store will have a retail store front;
- The Pharmacy will be compounding non-sterile simple and moderate compounds and will amend their application with an updated non-sterile compounding attestation to accurately reflect that;
- The Pharmacy will be providing compliance packaging;
- Board members reminded the Owner/MOR of the repackaging regulations and the Advisory on Staff Ratios.

<u>ACTION</u>: Motion by S. HAMILTON, seconded by K. TANZER, and voted unanimously by those present, to APPROVE the amended application for a New Community Pharmacy secondary to a successful inspection.

**TIME: 8:50 AM** 

# 3. Maplewood Wellness Pharmacy

**New Community Pharmacy** 

RECUSAL: NONE

<u>DISCUSSION</u>: Maplewood Wellness Pharmacy was represented by Attorney Joseph Morrissey, Owner Thao Huynh, and George [last name not provided], an advisor to the owner.

- Maplewood Wellness Pharmacy came before the Board of Pharmacy with an application to open a New Community Pharmacy;
- Location will be at 904 Salem St, Malden, MA;
- Additional services the Pharmacy intends to provide will be immunizations and delivery. A delivery driver will be hired and trained appropriately e.g. HIPPA. Not planning on delivering controlled substances. Board members reminded applicant that if a decision is made in the future to deliver CS to be aware of potential security issues;
- The pharmacy is not a stand-alone business. There will be other businesses around it;
- The proposed MOR has no previous experience as an MOR. She has been a staff pharmacist for 10 years in a chain setting environment where she has worked by herself;
- The pharmacy will be hire additional employees as the business grows. Board members reminded the proposed MOR that all technicians are required to be licensed now;
- Simple and moderate non-sterile compounding will be performed. An amended application with an updated non-sterile compounding attestation will be provided;
- The pharmacy does meet the current square footage requirements;

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<u>ACTION</u>: Motion by A. STEIN, seconded by K. TANZER, and voted unanimously by those present, to APPROVE the amended application for a New Community Pharmacy secondary to a successful inspection.

# 4. Whole Health Pharmacy, DS89933 Renovation/Expansion

RECUSAL: NONE DISCUSSION:

- Whole Health Pharmacy is located at 596 Main St, Hyannis, MA
- The pharmacy plans to move the counter out to increase the square footage of the Rx processing area by 128 sq. ft. through expansion into the existing OTC storefront;
- It was reported that the pharmacy had a recent successful inspection.

<u>ACTION</u>: Motion by L. GIAMBARRESI, seconded by C. JEAN-FRANCOIS, and voted unanimously by those present, to APPROVE the application for a renovation.

# 5. Goldenseal Apothecary

**New Community Pharmacy** 

TIME: 8:58 AM

**TIME: 9:03 AM** 

TIME: 8:51 AM

**RECUSAL: NONE** 

<u>DISCUSSION</u>: Goldenseal Apothecary was represented by Primary Owner and proposed Manager of Record, Hashim Azam.

- Goldenseal Apothecary came before the Board of Pharmacy with an application to open a New Community Pharmacy;
- Location will be at 70 Main St, North Andover, MA, between a dentist's office and a salon;
- The proposed MOR has had approximately one year of experience as a MOR. He also holds a license in NH in good standing;
- The Pharmacy will represent an "old school" pharmacy to include a soda fountain and café;
- The Pharmacy will be compounding simple and moderate non-sterile compounds;
- Board member inquired about the security of a rear door depicted in the blue prints. The applicant responded that the rear door is not accessible to customers and was added as a requirement of the town;
- The discussion lead to the dispensing of controlled substance and the licensee responded that all doors to the pharmacy are locking, and there will always be a pharmacist on duty. Additionally, there will be a standard security system with cameras for outside;
- The Owner/Proposed MOR will hire additional staff as the business grows.

<u>ACTION</u>: Motion by S. HAMILTON, seconded by T. FENSKY, and voted unanimously by those present, to APPROVE the application for a New Community Pharmacy secondary to a successful inspection.

# 6. Milford Central Pharmacy New Community Pharmacy

**RECUSAL: NONE** 

DISCUSSION: Milford Central Pharmacy was represented by Ali Ardakani, Owner/Proposed MOR and Pharmacist Hengameh Ansari, his spouse.

- Milford Central Pharmacy came before the Board of Pharmacy with an application to open a New Community Pharmacy;
- Location will be in a stand-alone building at the former site of Milford Family Pharmacy, at 105 East Main St, Milford, MA;

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- Pharmacist Hengameh Ansari, spouse of the owner, is a clinical hospital pharmacist who will help with compounding at Milford Central Pharmacy during the evenings. Board reminded her of the proposed regulations that would limit the maximum hours worked in a day to 12 followed by an 8-hour rest period;
- Board members asked what the plan was if a prescription needed to be compounded in the morning. The licensee responded that staff
  pharmacist would have MFR and the owner has previous simple compounding experience. Recommended that applicant review the
  Board Advisory on the levels of compounding, including HD drugs;
- The Pharmacy will be located next to a physician's office;
- Additional services the Pharmacy intends to provide will be immunizations (flu initially) and free delivery;
- Simple and moderate non-sterile compounding will be performed;
- The pharmacy intends to provide services "that chain pharmacies do not have time to do", e.g. compliance programs for the elderly on chronic medications;
- The proposed MOR used to manage the pharmacy that was previously located at this site;
- The proposed MOR has performed additional "Pharmacy Regulatory Specialist" coursework;
- Hours of operation will mimic that of the MD's office located nearby. Closed on Sundays;
- Additional staff will be hired as the business grows;
- The proposed MOR has had a total of 4 years of experience as MOR at Milford Family Pharmacy and Leonard Morse Hospital Outpatient Pharmacy in Natick;
- Reviewed plans/blueprints. Board members recommended to move the refrigerator from the "office" space to the Rx processing area;
- Board member recommended to construct a barrier between the compounding area/counter and the sink;
- Application reflected licensee holds a Drug Distributor CVI license and a DEA exporter license which licensee indicated were another business of his in another location (Natick).

<u>ACTION</u>: Motion by T. FENSKY, seconded by K. TANZER, and voted unanimously by those present, to APPROVE the application for a New Community Pharmacy secondary to a successful inspection.

# 7. CVS 209 DS3597

# **Change of Manager of Record**

**TIME: 9:44 AM** 

Presented by: Melanie Walker, RPh Manager of Record was interviewed via phone.

Recusal: none

# <u>Discussion</u>:

- M. Walker stated she had been a MOR previously for 2 years
- M. Walker stated she had done the CVS self-inspection and would look at the Board one and complete that as well.
- M. Walker stated there had been no concerns on the last inspection of the Pharmacy by the Board.

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M. Walker stated for staffing she has 2 full time pharmacists, 1-part time pharmacist, 2 CPhT, no PI, 3 PT and 3 PTT.

Action: Motion by L. Giambarresi, seconded T. Fensky, and voted unanimously to approve the change of manager for CVS 209 DS3597.

# 8. Allied Pharmacy INC DS90102

Relocation

TIME: 9:19 AM

**TIME: 9:33 AM** 

Presented by: Juana Tejada, MOR/President; Jason Hashem, VP

Recusal: None

#### Discussion:

Pharmacy moving from point A to point B

- Moving to be in a medical building to increase volume, business decision
- Will be closed Saturdays and Sundays because medical offices closed
- Will provide attestation for Compounding simple and moderate
- Street entrance to building is not marked with signage. Allied will work on this and show inspectors at final inspection to ensure regulation is met
- Much discussion on layout of pharmacy with multiple rooms. Concern is the pharmacist may not be able to see what is going on in all areas of pharmacy while on duty. Allied will work on lay out to ensure easy view as well as security system and cameras to assist.
- Allied will expand hours if necessary, building is open 7 days weekly.

<u>Action</u>: Motion by T. Fensky, seconded L. Giambarresi, and voted unanimously to approve the relocation of Allied Pharmacy INC DS90102 pending successful inspection and application of waiver of signage is necessary.

## 9. RMG Pharmacy

**New Community Pharmacy** 

Presented by: Paul Garbarini, Esq; Kelby Campoverde, RPH, David Trinks, Consultant

Recusals: None

#### Discussion:

- K. Campoverde is the MOR and has 8 months previous experience as a MOR in MA.
- Owner is a Pharmacist from New York and is only the investor, not working at this pharmacy.
- Continuity of Care of weekends will be to transfer prescriptions to other pharmacies if they cannot wait till they are open again.
- Will be compounding simple and moderate, attestation completed and submitted today
- The pharmacy is in a larger building and only occupies one part of it.
- Consultant is retained and will be indefinitely retained at this point to assist with operations

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Security is covered by alarm and cameras as well as bullet proof glass

<u>Action</u>: Motion by L. Giambarresi, seconded T. Fensky, and voted unanimously to approve the application for New Community Pharmacy for RMB Pharmacy pending successful inspection.

TOPIC VII FLEX

1. Public Comment to Revised USP <797> & USP <825>

### Discussion:

W. FRISCH presented that the Board staff would like to submit public comments for USP <797> and <825> on behalf of the Board. The public comment period closes on November and comments are in the process of being drafted. Board staff would provide a copy of the comments at the December Board meeting. Sections regarding the frequency of environmental monitoring and sterility testing thresholds would be some of the main topics addressed. A. STEIN asked if Board members' input on the comments was requested. W. FRISCH stated that any additional input was welcome.

Time: 10:02AM

Time: 10:05AM

Action: Motion by T. FENSKY, seconded by S. HAMILTON, and voted unanimously by those present, to approve the submissions.

#### 2. Board Officer Nominations

D. SENCABAUGH noted that anyone can be nominated and a second motion is required. P. GANNON participated by phone. Roll call voting will be held at the December meeting. Campaigning is not permitted.

#### **President Elect:**

Nominee 1: K. TANZER

Nominated by: A. STEIN, seconded by J. LANZA

# Secretary:

Nominee 1: J. LANZA

Nominated by: T. FENSKY, seconded by A. STEIN

# **Secretary:**

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Nominee 2: S. HAMILTON

Nominated by: K. TANZER, seconded by M. GODEK

Secretary:

Nominee 3: S. HERNANDEZ

Nominated by: P. GANNON, seconded by K. TANZER

# 3. Board Meeting Calendar

# Discussion:

R. HARRIS noted some proposed changes to the 2019 Board meeting schedule. Two meetings would be held in June instead of one during the week of July. Change to the January meeting date was made to accommodate the holiday.

Time: 10:10AM

Time: 10:11AM

**Action:** Motioned by T. FENSKY, seconded by K. TANZER, and voted unanimously by those present, to approve the 2019 Board meeting calendar with the noted changes.

# 4. Advisory Committee Recommendation Document 18-02

#### Discussion:

E. TAGLIERI asked the Board's permission to send the updated version of 247 CMR 17.00 to the Advisory Committee for discussion and recommendations. Their comments would be heard by the Board at the December Board meeting. The Board members were invited to send a representative to the Advisory Committee meeting on November , 2018. D. SENCABAUGH suggested J. LANZA to be the Board's representative and she agreed.

**Action**: Motion by T. FENSKY, seconded by L. GIAMBARRESI, and voted unanimously by those present, to submit the updated draft of 247 CMR 17.00 to the Advisory Committee for review and comments. J. LANZA to represent the Board at the Nov. meeting.

TOPIC VIII: DETERMINATION of TERMINATION of PROBATION

CVS#299 DS3596 PHA-2016-0237 Time: 10:46am

Presented by: K. FISHMAN presented and summarized the information.

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RECUSAL: S. CORNACCHIO was recused and not present for the discussion or vote on this matter.

DISCUSSION: See memo (attachment A) from K. FISHMAN, Probation Monitor Coordinator.

ACTION: Motion by A. STEIN, seconded by S. HAMILTON, and voted unanimously by those present, to extend probation for 3 months.

TOPIC IX REQUEST for REINSTATEMENT

Mark Rubin: PHA-2012-0005; PH233459 Time: 10:15am

Presented by: L. FERGUSON and M. RUBIN

RECUSAL: None.

<u>DISCUSSION</u>: Mark Rubin a pharmacist for Royal Palm pharmacy, while located a thousand miles away from the pharmacy, attempted to provide compounding assistance and instruction remotely to Ms. Blakely, a pharmacist who lacked adequate training and experience in non-sterile compounding, to compound and dispense liothyronine. Unfortunately, a serious compounding error occurred that resulted in patient injury. The pharmacy dispensed a prescription for liothyronine that was 1,000 times too potent on or about July 28 – 29, 2011. The medication was ingested by the patient and caused serious injury.

<u>ACTION:</u> Motion by T. FENSKY, seconded by K. Tanzer to reinstate license pending he pass the MPJE within 6 months of reinstatement, and that any application for MOR be flagged for 6 months. D. PERRY is opposed. S. HAMILTON and M. GODEK abstain. Vote PASSES.

TOPIC X: REGULATIONS

1. 247 CMR 17.00 Sterile Compounding

Time: 11:00 AM

Presented by: W. FRISCH, M. CHAN and H. ENGMAN

**DISCUSSION**:

W. Frisch reviewed the process up to this point and discussed the goal of finalizing review and update from public comment at today's meeting. Next step is for the Board to consider forwarding a request to the Pharmacy Advisory Committee for expert review and input.

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The Board continued to discussed and deliberated public comment to 247 CMR 17.00 Sterile Compounding. Please find Attachment A attached with draft regulations 247 CMR 17.00 and todays comments for final input. This is the results of Board Deliberation and input up to today.

After final review of draft 247 CMR 17.00 today, W. Frisch asked the Board if they had any further comments or input they'd like to re-visit. The Board responded they did not. Board and Board Staff agreed we have a good balance in draft 247 CMR 17.00 of statutory regulatory requirements, input from stakeholders and public comments that reflects the needs of all involved with this process.

# Action:

Motion by A. Stein, seconded T. Fensky, and voted unanimously to approve draft 247 CMR 17.00 Sterile compounding to be forward for expert review and input from the Pharmacy Advisory Committee. Results to be reviewed by the Board of Pharmacy at its December 2018 meeting.

TOPIC XI FILE REVIEW

1. SA-INV-12558 Johnson Compounding and Wellness, DS90089 Time:11:28

Presented by: N. VAN ALLEN

RECUSAL: A. STEIN recused and was not present for the discussion or vote on this matter.

# **DISCUSSION**:

- A <797> Sterile Compounding Inspection conducted on December 14, 2017 at Johnson Compounding and Wellness identified deficiencies associated with inappropriate BUDs applied to labels of specific CSPs
- The Pharmacy Conducts high risk level compounding of multiple preparations that undergo end product testing/analysis for sterility and endotoxin testing. If the preparations pass the testing specifications (ie. No growth or endotoxin identified) the pharmacy, then applies a medium risk BUD to the final preparation. This process is in violation of USP Standards and 247 CMR 9.01(3) as risk level cannot be changed through testing/analysis.
- A request for document submission was made and upon review, additional deficiencies were identified with regards to CSP not meeting
  compendial standards outlined in USP, validation of procedures including antimicrobial effectiveness and container closure integrity,
  compounding of essentially copies of commercially available products.
- The pharmacy has committed to conducting the necessary testing to ensure compendial standards are met including potency testing of all CSPs utilized as intermediary solutions. Antimicrobial effectiveness testing and container closure integrity testing will be conducted on all intermediary solutions utilized as multiple dose containers. Additionally, the pharmacy has stopped compounding prescriptions that could be fulfilled utilizing the commercially available products

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• The pharmacy understands new regulations and standards are on the horizon but feel that their current approach will keep them in compliance and meet the needs of their patients with minimal disruptions in availability. The pharmacy will adjust as necessary when the time comes.

<u>ACTION:</u> A motion by T. FENSKY, seconded by L. GIAMBARRESI, and voted unanimously by those present to CLOSE the staff assignment, no discipline warranted, remediation complete.

2. SA-INV-13461 Cambridge Health Alliance, DS3051 Time: 11:30am

Presented by: J. TRAN

**RECUSAL: NONE** 

## DISCUSSION:

- On May 23, 2018, OPP received an anonymous complaint that the pharmacy is left unattended by the pharmacist for up to 45 minutes at a time.
- The retail outpatient pharmacy [Noted as "Pharmacy A"] is located on the second floor, operates 7 days a week. On the weekend, when Pharmacy B is closed, Pharmacy A fills and dispenses medications in addition to medication changes or new medications added to patient's therapy requested by their provider, so that they may be discharged from an acute setting for their Elder Service Plan (ESP) participants at this location
- On the weekend, the staff enters the room located across the hall from [Pharmacy A] where the compliance packaging solution is stored for the ESP patients. A pharmacy staff leaves pharmacy A for longer than 5 minutes to validate information in the compliance packaging solution. All orders are processed and filled in the outpatient pharmacy A and a courier is dispatched to pick up the order from the outpatient pharmacy A and deliver the medication to the patient's home.
- As of August 20, 2018, the compliance packaging room has been moved to the pharmacy.

<u>ACTION:</u> A motion by S. HAMILTON, seconded by K. TANZER, voted unanimously by members present to CLOSE the staff assignment, no discipline warranted, remediation complete.

3. PHA-2018-0042 Walgreens #9233, DS3407 Time: 11:33

Presented by: J. TRAN

RECUSAL: M. GODEK was recused and was not present for discussion or vote on this matter

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#### DISCUSSION:

- RLCS- Unknown loss of #224 Suboxone 8mg-2mg SL films and loss of #100 methylphenidate 10 mg tablets. However, the loss for methylphenidate was retracted as it was found behind a methadone 10mg bottle in the safe.
- The loss of #224 buprenorphine/naloxone 8mg-2mg films was identified as a result of a corporate audit.
- Loss prevention ran a report going back to the last biennial inventory dating June 9,2017 and it was determined that there was a significant loss that could not be determined
- Video footage was not available for the drug location, or the area where the drug is counted and packaged
- Corrective actions taken in the pharmacy include moving the pharmacy cameras to include a larger area of filling and to view the C2 safe and the suboxone shelf location, which is opposite of the safe. Also, the pharmacist will verify the counts of suboxone against the inventory records weekly during the C2 inventory reconciliation.
- The store has two prior losses and last retail compliance inspection (ISP-9599) on 3/30/18/ deemed satisfactory.

ACTION: A motion by L. GIAMBARRESI, seconded by S. HAMILTON, and voted unanimously by all members present to REFER TO OFFICE OF PROSECUTION for the issuance of an order to show cause, and STAYED PROBATION of 1 year, must provide an exact CIII-V inventory within 30 days, and conduct monthly exact counts on all buprenorphine products.

4. PHA-2018-0045

Walgreens #3300, DS3412

Time: 11:35

Presented by: J. TRAN

RECUSAL: M. GODEK was recused and was not present for discussion or vote on this matter

# **DISCUSSION:**

- RLCS- an unknown loss of #29 generic Adderall 5 mg tablets. The unexplained loss was believed due to a dispensing error and was discovered during the weekly perpetual inventory count on 3/24/18.
- MOR indicated that one prescription was filled on 3/21/18 for generic Adderall 5 mg tablets which was supposed to contain a quantity of 60 tablets, but is believed to have been filled for a quantity of 90 tablets.
- The patient was contacted, but she refused to double count the number of tablets remaining in her bottle.
- As a result of this incident, the pharmacists will count out C2 medications to prevent miscounts. At the end of each day, the pharmacist will reconcile the quantity of D-amphetamines dispensed with the prescriptions filled. MOR Kocanda completed an additional 2 CE credits on Medication Safety and attested to reading 247 CMR 15, Continous Quality Improvement, in its entirety.

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<u>ACTION:</u> A motion by K. TANZER, seconded by L. GIABARRESI, voted unanimously by all members present to REFER TO OFFICE OF PROSECTION, for an issuance of an order to show cause and issue a REPRIMAND

5. SA-INV-13572 CVS#1009, DS1592 - DEFERRED

6. PHA- 2018-0055 Winchester Pharmacy, DS 89848

Presented by: J. TRIFONE

**RECUSAL: NONE** 

# DISCUSSION:

- Repeat inspectional deficiencies on 1/5/17 (ISP-6574), 9/7/17 (ISP-6775) and 6/15/18 (ISP-9931) for failure to reconcile perpetual inventory and for overfills observed in stock bottles
- MOR O'Connor provided the POCs for the inspections attesting to ensure the perpetual inventory was reconciled at least every 10 days and that expired/damaged medications were segregated in a quarantine area but did not specifically address the issue of overfills

Time: 11:39am

- In response to the complaint, MOR O'Connor stated that the pharmacy staff had occasionally missed the 10-day window for the reconciliation due to less staff and a shorter workday on the weekends with other responsibilities taking precedence.
- Copies of the perpetual inventory provided with the response showed that for 5 of 5 drugs, the perpetual inventory was not reconciled every 10 days after inspection on 6/15/18 with gaps averaging 15 days.
- CA: Perpetual inventory will be reconciled every weekend and MOR O'Connor will complete it on Mondays, if needed; the RTS policy signed by all staff was provided that states no drugs are to be returned to stock bottles.

<u>ACTION:</u> A motion by A. STEIN, seconded by T. FENSKY, voted unanimously by all members present to DISMISS the complaint, no Discipline warranted, remediation complete.

7. SA-INV-13377 Greater Lawrence Family Health Center, DS 90041 Time: 11:50am

Presented by: J. TRIFONE

**RECUSAL: NONE** 

DISCUSSION:

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- Allegation by a former employee that the GLGHC Methuen Pharmacy was acting as a "central fill" pharmacy for other GLFHC locations
  due to an insurance contract denial and they are "rolling prescriptions". Additionally, during ISP-9768 on 5/14/18, the co-mingling of
  duties, staff, drug ordering and inventory between the clinic and pharmacy was observed.
- The Complainant claimed prescriptions were received at the Lawrence South Pharmacy where they were data entered on the Methuen Pharmacy's server, it was adjudicated on the Methuen Pharmacy's server, the label would print at the Methuen Pharmacy where it would be filled and verified, then the prescription would be delivered to the Lawrence South Pharmacy for pickup. This practice could be for any prescription.
- MOR Baccari responded that the Methuen Pharmacy has a Parata Pass unit for specialty packaging and the Methuen Pharmacy does provide that service to GLFHC patients. He contended the prescriptions for specialty packaging are sent to the Methuen Pharmacy, are processed and filled there, then they are either delivered to the patient's home or to another GLFHC Pharmacy location for pickup.
- The Complainant provided numerous emails from 3/11/10 to 5/14/18 supporting the allegations indicating that if a patient did not have a refill on a maintenance medication, the pharmacist was authorized to dispense a 30-day supply. This practice occurred off and on during this period.
- Emails from the VP of HR Borgesi and VP Martin were provided that acknowledge Cigna and Humana contracts were denied at the Lawrence Pharmacy and those prescriptions were filled at The Methuen Pharmacy and delivered to the Lawrence South Pharmacy for pickup. They also confirmed allowing a 30-day supply of maintenance medications to be dispensed if there were no refills left and based that procedure on a North Carolina Board of Pharmacy regulation.
- CA: According to MOR Baccari, VP Martin was not aware of insurance contract issue until April 2018. The practice of filling prescriptions
  for GLFHC pharmacies without an insurance contract and delivering them to other GLFHC Pharmacy locations has been discontinued.
  Patients are offered home delivery.
- ISP-9768: Noted the Methuen Pharmacy filled, billed and delivered medications to four other GLFHC sites. Additionally, GLFHC central purchasing agent ordered the medications for all the GLFHC clinics and had them dropped shipped to the Methuen Pharmacy to be stored and distributed.
- MOR Baccari provided invoices from 1/1/18 to 5/31/18 for medications ordered for the clinics which were ordered under the clinic accounts.
- CA: All clinic orders are shipped to the clinic where they will be received by clinic staff. The GLFHC policy was updated to reflect this change in protocol for clinic orders.

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<u>ACTION:</u> A motion by S. HAMILTON, seconded by T. FENSKY, voted unanimously by all members present to request additional information addressing concerns about the transfer policy, the 30-day rollover refill policy, and the denial of the insurance contracts.

Topic XII EXECUTIVE SESSION Time: 12:13 PM

Read by M. Godek

**DISCUSSION**:

ACTION: At 12:13 PM President M. GODEK read the statement on reasons for Executive Session.

# 12:15 PM to 1:30 PM Lunch Break

**Topic XI: Executive Session Call to Order:** 

Time: 1:40 PM

By: M. Godek

<u>ACTION</u>: Motion by T. Fensky, seconded by K. Tanzer, and voted unanimously by roll call to call the November 1, 2018 meeting of the Executive Session to order.

Roll call attendance: M. Godek, yes; A. Stein, yes; K. Tanzer, yes; S. Cornacchio, yes; J. Lanza, yes; T. Fensky, yes; C. Jean-Francois, yes; S. Hamilton, yes; L. Giambarresi, yes, D. Perry, yes

Topic XIII: M.G.L. 65 C Time: 1:53 PM

**DISCUSSION: None** 

ACTION: President M. Godek request a motion to enter M.G.L 65 c Session.

At 1:53 PM, Motion by T. Fensky, seconded by L. Giambarresi and voted unanimously to enter M.G.L. chapter 65 c Session:

Topic XIV: ADJOURMENT OF MEETING TIME: 3:15 PM

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ACTION: Motion by T. Fensky seconded by S. Hamilton, and voted unanimously by those present, to adjourn from General Session.

# EXHIBITS USED DURING THE OPEN SESSION OF THE MEETING

- 1. Draft Agenda of the 11/1/18 General Session
- 2. Draft Minutes of the 10/4/18 and 10/18/18 Meeting
- 3. Report on Applications approved pursuant to Licensure Policy 13-01
- 4. Report on probation
- 5. Report on Board Delegated Complaint Review to licensure policy 14-02
- 6. Report on Above Action Levels approved by Staff Action 16-04
- 7. Joint Policy 2018-01: Permitted Prescription Changes and Additions
- 8. Partial Fill of Schedule II Prescription
- 9. Eastern Pharmacy New Community Pharmacy
- 10. Maplewood Wellness Pharmacy New Community Pharmacy
- 11. Whole Health Pharmacy DS89933 Renovation/Expansion
- 12. Goldenseal Apothecary New Community Pharmacy
- 13. Milford Central Pharmacy New Community Pharmacy
- 14. CVS 209 (DS3597) Change of Manager
- 15. Allied Pharmacy, INC DS90102 Relocation
- 16. RMG Pharmacy New Community Pharmacy
- 17. Board Meeting Calendar 2019
- 18. Recommendation Document 18-92 Advisory Committee Recommendation Document
- 19. Determination of Termination of Probation CVS #299 DS3596 PHA-2016-0237
- 20. Request for Reinstatement Mark Rubin PHA-2012-0005 PH233459
- 21. 247 CMR 17.00 Sterile Compounding Grid Public Comments and Draft Regulation

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- 22. SA-INV-12558 Johnson Compounding and Wellness DS90089
- 23. SA-INV-13461 Cambridge Health Alliance DS3051
- 24. PHA-2018-0042 Walgreens #9233 DS3407
- 25. PHA-2018-0045 Walgreens #3300 DS3412
- 26. PHA-2017-0055 Winchester Pharmacy DS89848
- 27. SA-INV-13377 Greater Lawrence Family Health Center DS90041

Respectfully Submitted, Kim Tanzer, PharmD, RPh Secretary

# Attachment A:

# **Summary of Public Comment regarding Proposed New Regulation 247 CMR 17.00**

# \*\*Suggested Board Actions are non-binding and subject to change

Cite	Regulation	Party	Comment	Suggested Board Action
				Discuss the DCR concept vs. SCA
				If allow SCA, need to develop some additional requirements.
				8/2/18 Board: Strike DCR and add SCA.
		Allegra DePietro	The regulation does not clarify how it applies to nuclear pharmacies, although it mentions radiopharmaceuticals. The Board should be aware of FDA guidance re radiopharmaceuticals. The Board should also be aware that USP is developing a separate chapter applicable to radiopharmaceuticals that will be published in December 2018.  The cost and complications of this regulation may force hospitals to eliminate services and/or outsource procedures that may be better off being kept in-house. Provides specific example in written comment.	All nuclear pharmacy issues, including licensing, will primarily be addressed in 247 CMR 13.00 with linkages to other sections as required.
		Atrius Health	USP 797 and 800 are currently under revision; strongly urge the Board to wait until revisions to USP 797 and 800 are finalized before implementing proposed sterile compounding regulation in order to ensure consistency.	USP <800> is complete with a 12/1/19 implementation date and the draft of <797> released at the end of July. Board staff is reviewing draft <797> for potential impact.
		MHA/MSHP	The proposed regulation is not aligned with evidence based practices and nationally recognized industry standards for sterile compounding. The regulation exceeds the standards in USP 797 without evidence to show improvements to patient care. Many of the proposed changes will result in increased costs and operational disruption.  Need a definitions section.	Definitions to be updated upon promulgation in 247 CMR 2.00.
		Johnson Compounding / Walczyk /	As written, this regulation will be an unachievable standard that will ultimate result in lack of patient access to sterile compounded medications. The regulations pose significant logistical, operational,	

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Fallon /	and financial burdens that will force most, if not all pharmacies to	
Allibhani /	discontinue sterile compounding. Board should align regulation with	
Petrosillo	USP 797.	
MIPA		
Beth Israel	With USP 800 deferred until 12-1-19 and USP 797 under revision it	USP <800> is complete with a
Deaconess	would be prudent for the Board to wait until the federal regulations	12/1/19 implementation date and
Medical	have come out before completing its regulations. Federal and state	the draft of <797> released at the
Center	regs should complement each other.	end of July. Board staff is
		reviewing draft <797> for potential
		impact.
BMC /	Many sections of the draft regulations deviate significantly from	•
Horbowicz	current and proposed USP 797 standards. If enacted as written,	
2222	Massachusetts hospitals could need to undertake massive and costly	
	renovation projects and employ additional personnel. In a time of	
	severe cuts to hospital reimbursement, these types of renovations and	
	additional human resources are not only cost prohibitive, but there is	
	no basis in evidence that requirements exceeding USP 797 will bring	
	improvement to patients.	
	Of notable concern, some sections specifically prohibit industry	
	standard cleanroom designs which are commonly employed in	
	hospitals.	
	W7	
	Where renovation is not possible, hospital pharmacies will find them	
	shelves prohibited from compounding medications in a sterile hood	
	for patients, and may revert back to having medications prepared at	
	the bedside by nursing staff or physician, taking a major step	
	backwards in medication safety practice.	
Partners	Clarify whether and how 247 CMR 17.00 applies to nuclear	All nuclear pharmacy issues,
(Nuclear	pharmacies.	including licensing, will primarily
Medicine)		be addressed in 247 CMR 13.00
	How will nuclear medicine departments and nuclear medicine	with linkages to other sections as
	technologists - under physician oversight – be regulated by the Board?	required.
	How will USP 825 be used in the Board's regulatory scheme?	
	Based on the unique nature of radiopharmaceuticals, we recommend	
	that the regulation of sterile radiopharmaceutical preparation remain	
	within the existing 247 CMR 13.00	
Bruce Hill	Veterinarian who is concerned about impact of 247 CMR 17.00 on	
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	veterinarian's ability to obtain necessary compounded medications.	
Dana Farber	Dana Farber is deeply concerned the proposed regulations exceed	
	established standards of practice and are not evidence based.	
	Additionally, the regulations will increase costs at Dana Farber by	
	approximately \$550,000.	
Elizabeth	Veterinarians concerned that regulation will have a profound negative	
Golovchenko;	impact on her ability to care for patients. Because needs of veterinary	
Kathleen	patients can vary for any number of reasons, access to compounded	
Hoffman;	sterile preparations if vital to effective patient care.	
Marie		
Chartier;		
Ray Cahill;		
Therese		
Durette		
Heiber's	We live in a time where compounding pharmacy is at risk for being	
Pharmacy	regulated out of business. I have been doing sterile compounding for	
	over 17 years and there have been some regulations which	
	increased patient safety e.g. USP 71, USP 797. There are some people	
	who, based on theoretical rather than on a scientific basis want to	
	enact more regulations beyond USP 71 and USP 797. In some ways,	
	the FDA and Big Pharma would like to put "square wheels" on	
	compounding pharmacies Apparently passing sterility test and	
	all the certifications necessary to make preparations in an ISO 5	
	environment does not satisfy some people.	
Jason Brenner	Supports IACP's comments.	
Michael Blaire	Compounding pharmacist who specializes in veterinary medications.	Current statute does not permit
	Pharmacies must be able to compound non-patient specific	dispensing medications for office
	medications in the event of shortages. 503Bs cannot produce drugs as	use.
	quickly in the event of a shortage because of cGMP. The lack of	
	availability of drugs compounded at a pharmacy has led to increased	
	compounding by physician's offices, dental offices, and veterinary	
	clinics. Many animals require compounded oil-based or suspension	
	based eye drops that cannot be terminally sterilized. Reptiles require	
	emulsions; Rabbits, birds and zoo animals frequently require	
	antibiotic impregnated beads or pellets. It should be the prescriber's	
	experience and the pharmacist's judgment that determines what types	
	of dosage forms are compounded, not regulations.	
National	Closer alignment of proposed new regulation 247 CMR 17.00 with	
Community	current USP guidelines, especially USP 797, will provide that balance	
Community	Tearrent our guidennes, especially our 171, will provide that balance	

Pharmacists Association ("NCPA")	of providing adequate regulation to ensure safety and quality while avoiding the creation of undue burden on compounding pharmacists and medication access issues for patients.  A number of sections in the proposed regulation will have a costly impact on the operation and construction of small compounding pharmacy businesses. Some of the requirements will require small compounding pharmacies to hire additional employees beyond third party vendors and could deter the formation of compounding facilities in this state. The regulation would require pharmacies to make significant capital investments in facilities in order to comply.  NCPA believes the fiscal effect of proposed new regulation outweighs its benefit in its current form.	
Petnet  Rye Beach	Nuclear pharmacy has numerous factors that distinguish it from other sterile process pharmacy settings. USP 797 and 800 to not encompass constraints involved with radioactive materials. Radiopharmaceuticals have a short half-life and that limited the BUD for the majority of products to low risk with BUD of 12 hours or less. Nuclear pharmacies are constrained by controlled distribution systems – meds are not dispensed directly to patient.	All nuclear pharmacy issues, including licensing, will primarily be addressed in 247 CMR 13.00 with linkages to other sections as required.
Pharmacy	I have read most of IACP's comments. I am baffled about where some of the requirements are coming from. USP <797> has been written and thus successfully guided a nation of pharmacists to compound safely. When the existing rules are followed, pharmacists have been able to provide safe and effective sterile prescription medications. Not all but many of your draft propositions change or add requirements to USP <797>. If you are trying to prevent another NECC tragedy, inspecting that location and properly enforcing USP <797> would have done it. If you are trying to prevent pharmacists from continuing be able to provide sterile medications at an affordable price, thus limiting patient access, the draft accomplishes this. All these "extra" requirements do not accomplish anything without proper inspections. I am in favor of having more inspections but follow the guide that has successfully worked for years. Do not write another guide which only confuses the process, adds unnecessary costs and hurts patients' access.	

		Samir Melki Seth	I hope you take the suggestions from IACP as guidance from other pharmacists across the nation that have studied, researched and performed USP <797> guidelines for years. Their level of expertise and experience is far reaching so please lean on that as you decide how to shape your draft proposition.  Supports IACP's comments.  Echos many of the concerns presented by IACP.					
		DePasquale	The regulation should allow for more flexibility or changes in practice. Basically, arguing for performance standards rather than design standards. Opposed to use of CETA's application guides. Regulation is an overreach; drive by fear and without rational thought and scientifically backed evidence.					
		Southcoast Health	Southcoast largely signs on to MHA's comments, while adding some of its own comments as well.					
		Valerie Sullivan	247 CMR 17.00 will severely limit, if not completely eliminate, access to sterile compounded medications to those patients who benefit. To me, the benefits of compounded medications for patients must be preserved by the Commonwealth. Specifically, the sections regarding environmental monitoring, personnel monitoring, analytical testing, and facility construction are so burdensome and such a far departure from the nationally accepted standards found in USP <797> that pharmacies will not have the resources necessary to meet these unprecedented regulations. That is bad for patients.					
			There have been suggestions by knowledgeable experts in compounding that the Board of Pharmacy seek to align state regulations regarding sterile compounding with standards found in USP <797>. Aligning with USP <797> will provide adequate regulation with respect to safety and quality measures associated with sterile compounding while still permitting patient access to sterile compounded medications.					
			Please do not implement regulations that are so restrictive that patients will be denied access to important sources of medication therapy.					
17.01	Authority and Purpose	Berkshire	Clarify who this regulation applies to.	"247	CMR	17.00	applies	to

Health Systems				<del>,</del>	
17.02(1)   A pharmacy licensed by the Board shall comply with 21 U.S.C. § 353a, M.G.L. c. 94C, § 8 17 & 22, and M.G.L. c. 112, § 39F. A pharmacy may not dispense a compounded sterile preparation (VSPP) prior to recipit of a patient-specific prescription.   BMC / Horbowicz   Baire metalled   Health   Baire   BMC / Horbowicz   Baire					*
17.02(1)  A pharmacy licensed by the Board shall comply with 21 U.S.C. § 353a, M.G.L. c. 34C, § 817 & 22, and M.G.L. c. 112, § 39F. A pharmacy may not dispense a compounded preparation with 21 price of a patient-specific prescription.  Blaire M.G.L. c. 112, § 39F. A pharmacy may not dispense a compounded preparation by a pharmacy license of a patient-specific prescription.  Cardinal Health  Cardinal Health  GE Healthcare  GE Healthcare  GE Healthcare  GE Healthcare  A pharmacy shall rain its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that its concepts and an accordance with M.G.L. c. 112, § 39F. A possible state of the patient of the patient prescription of the special properties of the patient prescription of the patient prescription provided the paramacy obtains the prescription provided the pharmacy obtains the prescription provided the pharmac			Systems		
17.02(1)   A pharmacy licensed by the Board shall comply with 21 U.S.C. § 353a, M.G.L. c. 112, § 397. A pharmacy license on a prescription.   Blaire may not dispense a compounded sterile preparation ("CSP") prior to receipt of a patient-specific prescription.   Blaire compounded preparations to ADMs and clinic areas for use.   Blaire compounded preparations to ADMs and clinic areas for use.   Blaire compounded preparations to ADMs and clinic areas for use.   Blaire compounded preparations to ADMs and clinic areas for use.   BMC / Horbowicz   Blaire compounded preparations to ADMs and clinic areas for use.   BMC / Horbowicz   Blaire compounded preparations to ADMs and clinic areas for use.   BMC / Horbowicz   Blaire compounded preparations to a patient-specific prescription or order. Need to discuss "clinic use".   BMC / Horbowicz   BMC / Horbowicz   Cardinal Health   Beath   Beat					
17.02(1)  A pharmacy licensed by the Board shall comply with 21 U.S.C. § 353.8 M.G.L. c. 94C. § 817 & 22, and M.G.L. c. 112, § 39F. A pharmacy may not dispense a compounded celeptroparation (*CSP') prior to receipt of a patient-specific prescription.  Blaire Pharmacy may not dispense a compounded preparations for veterinary office stock, and for dispense and dispense and the sterile preparation (*CSP') prior to receipt of a patient-specific prescription.  Cardinal Health  Cardinal Health  GE Healthcare  GE Healthcare  GE Healthcare  GE Sitrike this requirement, as it is too broad and is difficult to understand both the expectations for compliance and overall benefit to public second sentence.  A pharmacy shall train its employees annually in lean concepts. in a 390.6. Lean concepts are tools that  MHA/MSHP  Regulation does not specify requirements for medication orders seen in the institutional environments vs commercial areas that are based on a prescription. Most hospital systems rely on the ability of dispense and clinic areas for use.  Clarify to: "patient-specific prescription or order."  ADM's should not "release" a drug without an order. Need to discuss "clinic uses".  ADM's should not "release" a drug without an aptient name available such as in the case when the such as in the case when the such as the compounded preparations for a patient. Add language: unless said CSP is distributed in compliance with McLa. c. 112, especially a patient name available such as in the case when the such as the case when the such asu					pharmacy license, or institutional
A pharmacy licensed by the Board shall comply with 21 U.S.C. § 353.  M.G.L. c. 94C. § 8 17 & 22. and M.G.L. c. 112, § 39F. A pharmacy may not dispense a compounded sterile preparation ("CSP") prior to receipt of a patient-specific prescription.  Blaire: M.G.L. c. 112 Sec. 58A1/2 allows a pharmacy to distribute compounded preparations to a patient specific prescription.  Blaire: M.G.L. c. 112 Sec. 58A1/2 allows a pharmacy to distribute compounded preparations to a patient specific prescription.  Blaire: M.G.L. c. 112 Sec. 58A1/2 allows a pharmacy to distribute compounded preparations to a patient specific prescription or order. Need to discuss distributed in compliance with M.G.L.c.112 Sec. 58A 1/2.  Cardinal Health  Cardinal: Diagnostic radiopharmaceuticals are often dispensed without a patient name variable such as in the case when radiopharmaceuticals are provided to a nuclear medicine department for use overnight in the event of a patient presenting to the hospital's ED.  GE: Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacy obtains the prescription information within 72 hours after dispensing.  Resmick: Prohibition on office use medication will adversely affect veterinary patients.  GE: Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals. Pour to the special nature of radiopharmaceuticals are often dispensed without a patient name already exists.  Current statute does not permit dispensed and the prescription or order."  17.02(4)  A pharmacy shall train its employees a namually in lean concepts, in a cordance with M.G.L. c. 112, 8 BioScrip  18. Health  A pharmacy shall train its employees a namually in lean concepts, in a cordance with M.G.L. c. 112,					sterile compounding pharmacy
shall comply with 21 U.S.C. § 353a, M.G.L. c. 94C, § 817 & 22, and M.G.L. c. 112, § 39F. A pharmacy may not dispense a compounded sterile preparation ("CSF") prior to receipt of a patient-specific prescription.  Blaire: M.G.L. c. 112 Sec. 58A1/2 allows a pharmacy to distribute compounded preparations to ADMs and clinic areas for usc. Blaire: M.G.L. c. 112 Sec. 58A1/2 allows a pharmacy to distribute compounded preparations to a patient are based on a prescription. BMC/ Horbowicz  Blaire: M.G.L. c. 112 Sec. 58A1/2 allows a pharmacy to distribute compounded preparations for veterinary office stock, and for veterinary of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L. c. 112 Sec. 58A 1/2.  Cardinal Health  GE Healthcare  GE Healthcare  GE Healthcare  GE Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear medicine department for use overnight in the event of a patient presenting to the hospital's ED.  GE Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  17.02(4)  A pharmacy shall train its employees amoulty in lean concepts, in a concepts, in a concepts are tools that					
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MG.L. c. 112, § 39F. A pharmacy may not dispense a compounded sterile preparation ("CSP") prior to receipt of a patient-specific prescription.  BMC / Horbowicz  Cardinal Health  Cardinal: Diagnostic radiopharmaceuticals are provided to a nuclear medicine department for use overnight in the event of a patient prescription information within 72 hours after dispensing.  GE Healthcare  GE Healthcare  GE Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription information within 72 hours after dispensing.  GE Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription information within 72 hours after dispensing.  GE Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription information within 72 hours after dispensing.  GE Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription provided the pharmacy obtains the prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  17.02(4)  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that its can concepts are tools that the expectations for compliance and overall benefit to public health.		shall comply with 21 U.S.C. § 353a,		in the institutional environments vs commercial areas that are based	prescription or order."
may not dispense a compounded sterile preparation ("CSP") prior to receipt of a patient-specific prescription.  Blaire: M.G.L. c.112 Sec. 58A1/2 allows a pharmacy to distribute compounded preparations for veterinary office stock, and for veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c.112 Sec.58A 1/2.  Cardinal Health  GE Healthcare  GE Healthcare  GE Make an exception for radiopharmaceuticals are often dispensed without a patient name available such as in the case when radiopharmaceuticals provided to a nuclear medicine department for use overnight in the event of a patient presenting to the hospital's ED.  GE: Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription provided the pharmacy obtains the prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  Jamie Resnick  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that		M.G.L. c. 94C, §§ 17 & 22, and	Blaire	on a prescription. Most hospital systems rely on the ability to	
sterile preparation ("CSP") prior to receipt of a patient-specific prescription.  BMC/ Horbowicz  Cardinal Health  Cardinal: Health  GE Healthcare  GE Healthcare  Jamie Resnick  Jamie Resnick  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that  Blaire: M.G.L. c.112 Sec. 58A1/2 allows a pharmacy to distribute of compounded preparations for veterinary office stock, and for veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c.112 Sec. 58A1/2.  Cardinal: Diagnostic radiopharmaceuticals are often dispensed without a patient name available such as in the case when radiopharmaceuticals are provided to a nuclear medicine department for use overnight in the event of a patient presenting to the hospital's ED.  GE: Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription provided the pharmacy obtains the prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  17.02(4)  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that		M.G.L. c. 112, § 39F. A pharmacy	Pharmacy	dispense compounded preparations to ADMs and clinic areas for use.	ADM's should not "release" a drug
sterile preparation ("CSP") prior to receipt of a patient-specific prescription.  BMC/ Horbowicz  Cardinal Health  Cardinal: Health  GE Healthcare  GE Healthcare  Jamie Resnick  Jamie Resnick  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that  Blaire: M.G.L. c.112 Sec. 58A1/2 allows a pharmacy to distribute of compounded preparations for veterinary office stock, and for veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c.112 Sec. 58A1/2.  Cardinal: Diagnostic radiopharmaceuticals are often dispensed without a patient name available such as in the case when radiopharmaceuticals are provided to a nuclear medicine department for use overnight in the event of a patient presenting to the hospital's ED.  GE: Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription provided the pharmacy obtains the prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  17.02(4)  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, § 39G. Lean concepts are tools that		may not dispense a compounded	Consulting		without an order. Need to discuss
prescription.  Horbowicz  veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c.112 Sec.588 1/2.  Cardinal Health  Cardinal Health  GE Healthcare  GE Healthcare  GE Healthcare  Jamie Resnick  Jamie Resnick  A pharmacy shall train its employees annually in lean concepts, in acordance with M.G.L. c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to Apatient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to Apatient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that		sterile preparation ("CSP") prior to		Blaire: M.G.L. c.112 Sec. 58A1/2 allows a pharmacy to distribute	"clinic use".
prescription.  Horbowicz  veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c.112 Sec.588 1/2.  Cardinal Health  Cardinal Health  GE Healthcare  GE Healthcare  GE Healthcare  Jamie Resnick  Jamie Resnick  A pharmacy shall train its employees annually in lean concepts, in acordance with M.G.L. c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to a patient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to a 5 day supply of compounded office stock medications to Apatient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that  Veterinarians to dispense up to Apatient. Add language: unless said CSP is distributed in compliance with M.G.L.c. 112, 8 39G. Lean concepts are tools that		receipt of a patient-specific	BMC /	compounded preparations for veterinary office stock, and for	
distributed in compliance with M.G.L.c.112 Sec.58A 1/2.  Cardinal Health  Cardinal Health  Cardinal: Diagnostic radiopharmaceuticals are often dispensed without a patient name available such as in the case when radiopharmaceuticals are provided to a nuclear medicine department for use overnight in the event of a patient presenting to the hospital's ED.  GE Healthcare  GE: Make an exception for radiopharmaceuticals. Due to the special nature of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription provided the pharmacy obtains the prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  Jamie Resnick Prohibition on office use medication will adversely affect veterinary patients.  A provision for emergent radiopharmaceuticals without a patient name already exists.  Current statute does not permit dispensing medications for office use.  Suggested language:  "A pharmacy shall only dispense a compounded sterile preparation ("CSP") pursuant to a patient-veterinary patients.  17.02(4)  A pharmacy shall train its employees annually in lean concepts, in accordance with M.G.L. c. 112, \$ BioScrip  BioScrip  Jamie Resnick Strike this requirement, as it is too broad and is difficult to understand both the expectations for compliance and overall benefit to public health.  No change; this is a statutory requirement.			Horbowicz	veterinarians to dispense up to a 5 day supply of compounded office	8/2/18 Board: There are emergency
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Cardinal Health				distributed in compliance with M.G.L.c.112 Sec.58A 1/2.	
Health without a patient name available such as in the case when radiopharmaceuticals are provided to a nuclear medicine department for use overnight in the event of a patient presenting to the hospital's ED.  GE Healthcare GE Healthcare attree of radiopharmaceuticals, nuclear pharmacies should be able to dispense without prescription provided the pharmacy obtains the prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  The provided the pharmacy obtains the prescription provided the pharmacy obtains the prescription information within 72 hours after dispensing.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  Resnick: Prohibition on office use medication will adversely affect veterinary patients.  10/18/18 Board: use language above  11/1/18 Board staff note: strike second sentence  No change; this is a statutory requirement.  No change; this is a statutory requirement.				-	
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accordance with M.G.L. c. 112, § BioScrip health.  39G. Lean concepts are tools that	17.02(4)		IACP		
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Dog 26 of 100		39G. Lean concepts are tools that			

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## SinoScrip    SinoScrip			Γ		T
before such a requirement is imposed.  17.03(2) A pharmacy may not pool or prepare stock solutions utilizing single dose vials to extend a beyond use date (BUD) beyond 6 hours after puncture within ISO Class 5  MHA/MSHP BMC / Horbowicz Dana Farber Mount Auburn Southcoast BioScrip  BioScrip  MHA/MI, Auburn: Clarification requested: (1) As drafted this statement appears to imply that there is a specific practice of pooling SDV with the intent to extend a BUD. It is reasonable and well within a will be entired or puncture. The remainder must be discarded. Pypare to draw up two 1G SDVs of yance into one syringe (fig. 1) and in the intent of the prequirement to eliminate this type of compounding? (2) Is the intent to make it crystal clear that pooling SDVs does not alter the 6 hour BUD requirement assigned to puncture SDV in an ISOS space? In other words, pooling of SDV to make a single dose or multiple doses is a necessity of practice however, that pooled solution only has a 6 hour BUD?  If left as written, pharmacies will have increased waste and FTE requirements to sustain operations for short dated pooling solutions. Patients will be subjected to multiple stops and changes in 1V infusions, increasing the risk ovail, such as 1VIG, Lask drips, terbulatine infusions, glucagon infusions, etc. This section will introduce impractical and less safe barriers to delivering such life-saving medications to patients.  Dana Farber: Consider allowing vial to be 12 hours BUD, if mixed in ISO 5 within and ISO 7 buffer room. These conditions listed are equal to the risk level similar to 17.05 (DCR).					
and efficiency.  A pharmacy may not pool or prepare stock solutions utilizing single dose vials to extend a beyond use date (BUD) beyond 6 hours after puncture within ISO Class 5  BMC / Dana Farber  Mount Auburn Southcoast BioScrip  MHA: Use current USP <797> Standards for a Medium Risk Product in the absence of sterility testing: BUD = 30 hours RT or 9 days Refrigerated OR use draft version of the 2015 USP <797> for a Category 2 product in the absence of sterility testing, no preservative added, prepared from sterile starting components BUD = 6 days RT or 9 days refrigerated OR use draft version of the 2015 USP <797> for a Category 2 product in the absence of sterility testing, no preservative added, prepared from sterile starting components BUD = 6 days RT or 9 days refrigerated OR value to the statement appears to imply that there is a specific practice of pooling SDV with the intent to vote and BUD. It is reasonable and well within <797> to fave up two 16 SDVs of vanco into one syringe (i.e. pooled) and inject into a bag. Is the intent to make it crystal clear that pooling SDVs does not alter the 6 hour BUD requirement assigned to puncture SDV in an ISO5 space? In other words, pooling of SDV to make a single dose or multiple doses is a necessity of practice however, that pooled solution only has a 6 hour BUD?  If left as written, pharmacies will have increased waste and FTE requirements to sustain operations for short dated pooling solutions. Patients will be subjected to multiple stops and changes in IV infusions, increasing the risk for central line blood stream infections. Some critical medications can only be prepared by pooling solutions of single dose vial, such as IVIG, Lasix drips, terbutaline infusions, glucagon infusions, etc. This section will introduce impractical and less safe barriers to delivering such life-saving medications to patients.  Dana Farber: Consider allowing vial to be 12 hours BUD, if mixed in ISO 5 within and ISO 7 buffer room. These conditions listed are equal to the risk level					
A pharmacy may not pool or prepare stock solutions utilizing single dose vials to extend a beyond use date (BUD) beyond 6 hours after puncture within ISO Class 5  BMC / Horbowicz within ISO Class 5  BMC / Horbowicz Dana Farber  Mount Auburn Southcoast  BioScrip  BioScrip  MHA/MSHP  MHA: Use current USP <797> Standards for a Medium Risk Product in the absence of sterility testing, no preservative added, prepared from sterile starting components BUD = 6 days RT or 9 days refrigerated OR use draft version of the 2015 USP <797> or a stock solution. The compounded stock solution must only be entered or punctured MHA / Mt. Auburn: Clarification requested: (1) As drafted this statement appears to imply that there is a specific practice of pooling SDV with the intent to extend BUD. It is reasonable and well within (				before such a requirement is imposed.	
stock solutions utilizing single dose vials to extend a beyond use date (BUD) beyond 6 hours after puncture within ISO Class 5  BMC/ Horbowicz within ISO Class 5  BMC/ Horbowicz  Dana Farber  Mount Auburn  Southcoast  Southcoast  BioScrip  MHA / Mt. Auburn: Clarification requested: (1) As drafted this statement appears to imply that there is a specific practice of pooling SDV with the intent to extend a BUD. It is reasonable and well within cyps to draw up two 1G SDVs of vanco into one syringe (i.e. pooled) and inject into a bag. Is the intent of this requirement to eliminate this type of compounding? (2) Is the intent to make it crystal clear that pooling SDVs does not alter the 6 hour BUD requirement exseigned to make a single dose or multiple doses is a necessity of practice however, that pooled solution only has a 6 hour BUD?  If left as written, pharmacies will have increased waste and FTE requirements to sustain operations for short dated pooling solutions. Patients will be subjected to multiple stops and changes in IV infusions, increasing the risk for central line blood stream infections. Some critical medications can only be prepared by pooling solutions, glucagon infusions, etc. This section will introduce impractical and less safe barriers to delivering such life-saving medications to patients.  Dana Farber: Consider allowing vial to be 12 hours BUD, if mixed in ISO 5 within and ISO 7 buffer room. These conditions listed are equal to the risk level similar to 17.05 (DCR).	17.02(2)		) (III ) A (GIID	MILE II STORY OF THE STORY OF T	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
vials to extend a beyond use date (BUD) beyond 6 hours after puncture within ISO Class 5  More action of the 2015 USP ~797> for a Category 2 product in the absence of sterility testing, no preservative added, prepared from sterile starting components BUD = 6 days RT or 9 days refrigerated  Mount Auburn  Mount Auburn  Southcoast  Southcoast  BioScrip  BioScrip  BioScrip  Refrigerated OR use draft version of the 2015 USP ~797> for a Category 2 product in the absence of sterility testing, no preservative added, prepared from sterile starting components BUD = 6 days RT or 9 days refrigerated  Mount Auburn  MHA / Mt. Auburn: Clarification requested: (1) As drafted this statement appears to imply that there is a specific practice of pooling SDV with the intent to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within intent of this requirement to extend a BUD. It is reasonable and well within	17.03(2)		MHA/MSHP		
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RioScrip: The prohibition on pharmacies not pooling utilizing single				equal to the risk level similar to 17.05 (DCR).	
RioScrin: The prohibition on pharmacies not pooling utilizing single					
				BioScrip: The prohibition on pharmacies not pooling utilizing single	
dose containers in CSPs with a BUD beyond 6 hours is impractical for					
patients and providers compounding TPN. This narrow BUD window					
will make the provision of care currently provided nationwide without				will make the provision of care currently provided nationwide without	

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			incident impossible.	
17.05	A licensee shall prepare a non-	Allegra	This provision is not consistent with USP 797 because it does not	All nuclear pharmacy issues,
	hazardous, non-radiopharmaceutical,	DePietro	allow low risk, 12 hour BUD radiopharmaceuticals to be compounded	including licensing, will primarily
	low risk level CSP with a 12 hour		in segregated compound area. Most radiopharmaceuticals have 12	be addressed in 247 CMR 13.00
	BUD at room temperature or 24 hour		hour BUD due to short half -lives of radioactive drugs. The proposed	with linkages to other sections as
	BUD refrigerated in an ISO Class 7		regulation runs contrary to current practice with radiopharmaceuticals.	required.
	buffer room or an ISO Class 8			_
	dedicated compounding room		Partners: How does this provision apply to nuclear pharmacies?	
	("DCR") equipped with a			Board has voted to eliminate DCR
	commercially manufactured Primary			and allow SCA. All DCR sections
	Engineering Control ("PEC") such as		MHA: Recommend make this provision consistent with current USP	will be edited.
	a laminar air flow workbench	MHA/MSHP	797 standard, proposed new USP 797 standard, or retain the 12 hour	Will So Galled.
	("LAFW") or biological safety	1,1111111111111111111111111111111111111	BUD restriction but remove "in an ISO Class 7 buffer room or an ISO	
	cabinet ("BSC") and shall comply	Boston	Class 8 dedicated compounding room" and replace with "in a	Suggested language:
	with all other provisions of 247 CMR	Medical	segregated compounding area, per USP 797 standards."	"A licensee <b>may</b> prepare a non-
	17.00, unless otherwise provided.	Center /	segregated compounding area, per our 1917 standards.	hazardous, non-
	17.00, unless otherwise provided.	Horbowicz /	MHA: The existing rule is suitable for satellite pharmacy areas that	radiopharmaceutical, low risk level
		Vreeland	employ a hood for just in time compounding, such as emergency	CSP with a 12 hour maximum
		Viccialid	departments and operating rooms and allergy ambulatory clinics. The	BUD at room temperature or 24
		Partners	new proposed regulation would cause massive costly renovations	hour maximum BUD refrigerated
		(Nuclear		_
		`	and/or would force nurses and doctors to compound at bedside instead	in a unclassified segregated
		Medicine)	of in a hood.	compounding area (SCA)
		D E 1	MILA (1) WI 11 DEG1 (1' 100 G1 71 CC	equipped with a commercially
		Dana Farber	MHA: (1) Why would a PEC located in an ISO Class 7 buffer room	manufactured <b>positive pressure</b>
		ъ.	be required to meet the Low Risk Level 12-hour Room Temperature	Primary Engineering Control
		Partners	or 24-hour Refrigerated BUD? (2) A PEC is defined as a device or	("PEC") such as a laminar air flow
		Healthcare	zone that provides an ISO Class 5 environment for sterile	workbench ("LAFW")
			compounding. Therefore, a CAI or CACI would fit the definition of a	or <del>biological safety cabinet</del>
			PEC. It is our interpretation that the 12-hour room temperature/24-	("BSC") compounding aseptic
			hour refrigerated BUD language in 17.05 could also apply to a CAI or	isolator (CAI) and shall comply
			CACI located in a DCR. Is this correct or would a CAI/CACI located	with all other provisions of 247
			in a DCR have the BUD listed in 17.16, namely, 36 hours room	CMR 17.00, unless otherwise
			temperature or 9 days refrigerated? (3) Massachusetts pharmacies are	provided"
			preparing to meet requirements for both the draft 247 CMR 17.00	
			regulations and the draft revised USP Chapter <797>. In the draft	Note: BUD aligns with Category 1
			revised <797>, the term RABS (Restricted Access Barrier System)	in newly revised draft <797>
			refers to CAIs and CACIs. Under Section 4.2 (Facility Design and	
			Environmental Controls) subtitle RABS of the draft revised <797> it	
			states: "If used to prepare Category 2 CSPs, the area surrounding the	
			RABS must meet ISO Class 7 or better air quality." It is our	
	<u> </u>	•	D 40 C100	

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17.06(1)	A pharmacy may not engage in high risk level sterile compounding until and unless the pharmacy:  (a) submits an attestation of intent to engage in high risk level sterile compounding signed by the manager of record, pharmacist in charge of sterile compounding, and licensee, as applicable; and  (b) receives notification from the Board stating the pharmacy achieved a satisfactory Board inspection specifically pertaining to high risk level sterile compounding. All costs associated with inspections of non-resident sterile compounding pharmacies shall be paid by the non-resident pharmacy or applicant.  A pharmacy may not prepare high		interpretation that a CAI/CACI could be placed in a DCR meeting an ISO Class 7 air quality. Our position is further based on 247 CMR 17.00 Section 17.15 (3) (Dedicated Compounding Room ("DCR")) which states that "A DCR shall: Be ISO Class 8 or better." Therefore, a CAI/CACI placed in an ISO Class 7 DCR would allow the pharmacy to meet the criteria for compounding Category 2 CSPs per the draft revised USP <797>. Why would this interpretation not be correct?  Partners: There are hospitals in the Partners network that currently have segregated compounding areas within the pharmacy that are not ISO classified. These facilities are in the smaller community hospitals in which they compound all medications for their inpatient census. Many of the Partners hospital currently service operating room, emergency departments, and ambulatory infusion clinics that have primary engineering controls in an area that is not ISO classified. The regulation will not allow community pharmacies to provide patient specific compounded medications.  Need to add an effective date. Need clarification on who will be conducting non-resident pharmacy inspections.	Recommend to strike as requirements will be outlined in licensing regulation.
17.06(2)	A pharmacy may not prepare high risk level CSPs in suspension,	IACP	The proposed regulation does not take into consideration drug shortages and lack of patient access. Recommend update language to	Suggested language:
	emulsion, pellet, metered dose	Johnson	reflect these dosage forms may not be dispensed without successful	"A pharmacy may not prepare

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		/ Walczyk / Fallon / Allibhani / Petrosillo  MIPA Blaire Pharmacy Consulting  Kelly Barnes	stability throughout the duration of BUD.  Blaire: Numerous sterile suspensions, emulsions, pellets and depot formulations have been compounded for veterinary patients for over 2 decades. This rule anticipates these dosage forms being found "Too Difficult to Compound" by PCAC. Since PCAC's recommendations will not be finalized for some years, language should read: A pharmacy may not prepare high-risk level CSPs that have been deemed "too difficult to compound" by FDA.  Barnes: Change to "A pharmacy may not prepare high risk level CSPs identified as demonstrably difficult to compound by the FDA or the Board."	demonstrably difficult to compound by the FDA or the Board."
17.06(3)	A pharmacy may prepare high risk level CSPs with components the pharmacy sterilized by different sterilization methods so long as the final patient CSP is sterilized prior to dispensing.	Blaire Pharmacy Consulting	Many CSP require the combination of pre-sterilized ingredients (e.g.: PZI Insulin, Cyclosporine Ophthalmic Drops) because it is impossible to sterilize the final product. Section should be struck or language should be changed to:so long as sterility of the final patient CSP is confirmed.	Recommend to strike. See 17.06(7) edits.
17.06(4)	A pharmacy may not utilize lyophilization equipment to prepare lyophilized drug substances or ingredients used in CSPs.	Anazao Health	Recommend strike this provision or modify to allow lyophilization in a sterile environment in a buffer room. DMSA (dimercaptosuccinic acid) is only available from a compounding pharmacy. It is a nuclear medicine where technetium 99m is mixed in a lyophilized kit at the hospital. It is the only diagnostic agent for detecting polycystic kidney disease in children. The prohibition on lyophilization would adversely impact patient care.	No change recommended.
17.06(5)	A pharmacy may not compound a component of a CSP from API when a version of that component is commercially available.	MHA/MSHP IACP	It is necessary to compound components of CSP in the case of a drug shortage. Recommend add "unless products are on the national drug shortage list."	The proposed regulation already accounts for commercial availability.
		Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Strike this requirement. Regulation does not account for drug shortages, that final concentrations of compounded preparations may not be achievable using only commercially available products, or that commercially available products may have excipients an other ingredients that are intolerable to the patient.  NCPA: Remove requirement. Commercially available products may contain excipients that are intolerable to a patient and compounding	8/2/18 Board: Review FDA bulk compound guidance. May not be available but not on the FDA drug shortage list.  Board staff update: Guidance on bulk drug substances does not include any reference to drug
		NCPA	from APIs may be necessary.  Page 30 of 108	shortages.

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	1	1		
			Carpenter: Language is unclear. If the meaning is that commercially	10/18/18 Board: edit definition of
		Patrick	available drugs should be used as ingredients in a compound rather	commercially available; ie. not
		Carpenter	than API being used as ingredients in a compound, this will add considerably to the cost of compounds and I believe restrict patient	available through usual channels
		BioScrip	access. Commercially available phentolamine from Bedford labs	FDA Guidance:
			costs \$200 for 10 mg. Phentolamine APA costs 1 cent for 10 mg.	Commercially Available Drug
			σουσο φ <b>2</b> 00 του το μης. Εποικουμπικό τ <u>α</u> το σουσ το σουσο το μης.	Product
			BioScrip: This could possibly expose patients to unneeded or	For purposes of this guidance, a
			dangerous exceptions or other additives, when a safer more patient appropriate source of the drug is available.	drug product is commercially available if it is a marketed drug product. We do not consider a drug product to be commercially available if
				<ul> <li>the drug product has been discontinued and is no longer marketed or</li> <li>the drug product appears on the FDA drug shortage list in effect under section 506E of the FD&amp;C Act. A drug "appears on the drug shortage list in effect under section 506E" if the drug is in "currently in shortage" status (and not in "resolved" status) in FDA's drug shortage database</li> </ul>
				Compounding definition: MGL 112 section 39d: "a price difference
				shall not be a significant difference to justify compounding"
				Board staff note: no change.
17.06(7)	A pharmacy shall sterilize the final	IACP	This requirement is not practical. Change to: "A pharmacy shall	Suggested language:
	preparation of a high risk level CSP.		sterilize the final preparation of a high risk level CSP. A pharmacy	5 6 6
	A pharmacy shall ensure the sterility	Johnson	shall perform sterility testing on high risk level CSPs in accordance	Prior to dispensing, a pharmacy
<u> </u>	1	1	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

	of the final preparation of a high risk	Compounding	with USP 797. Sterility testing shall be performed in accordance with	shall sterilize the
	level CSP in accordance with USP	/ Walczyk /	USP 71."	final <b>dispensed</b> preparation of a
	71.	Fallon /		high risk level CSP. A pharmacy
		Allibhani /	Blaire: See comment to 17.06(3).	shall ensure the sterility of the final
		Petrosillo		<del>preparation of a high risk level</del>
			Pentec: For 503A pharmacies making one dose for one patient	CSP in accordance with USP 71.
		MIPA	pursuant to a prescription, it is impossible to quarantine a high risk	
			compound with a 3 day BUD until results of USP <71> have been	Consider combining with 17.39(3)
		Blaire	received. In addition, in order for a pharmacy to dispense one syringe,	(see below) to have one standard.
		Pharmacy	they will need to compound 5 so a minimum of 4 (10% or 4,	
		Consulting	whichever is greater)* can be tested to be compliant with USP 71.	Requirements for sterility testing
		_		are covered elsewhere.
		Pentec		10/10/10
				10/18/18 Board: accept
				suggestions; adjust language
				D 1 - 4 - 66 4 - 4 - 1 1 - 1
				Board staff note: to be combined
17.06(0)	A1	IACP	C(-1) - (1)	with 17.39(3).
17.06(8)	A pharmacy may not dispense a high risk level CSP without preservatives	IACP	Strike this requirement or modify to permit multiple doses of preservative free CSP so long as the container is verified to prevent	Preservative-free multiple use containers are not specifically
	unless the CSP is dispensed in a	Johnson	contamination. This provision does not allow for advancement in	addressed in the most recent <797>
	single use container and labeled as	Compounding	device technology.	chapter.
	"single use only."	/ Walczyk /	device technology.	Chapter.
	single use only.	Fallon /	There are medications that are in very short supply and/or very	Most recent USP 797: "A
		Allibhani /	expensive. They can be repurposed in sterile SD vials for 9 day BUD	compounded single-dose container
		Petrosillo	to save drug for later use in patients.	is intended for one-time
		1 cu osmo	to save drug for later use in patients.	administration (e.g., injection,
		MIPA	NCPA: Remove requirement. Technologically advanced multiple use	infusion, case) for a single patient."
		14111 71	containers are currently available that prevent contamination of	infusion, ease) for a single patient.
		Beth Israel	preservative free formulations of high risk level CSPs.	Consider adapting language to
		Deaconess	preservative free formatations of high risk level est si	include containers that have been
		Medical		validated to prevent microbial
		Center		growth.
				6 · · · · · · · · · · · · · · · · · ·
		NCPA		8/2/18 Board: Reword to include
				technology.
				Suggested language:
				A pharmacy may not dispense a
				high risk level CSP without
	1	I .	Page 32 of 108	

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				preservatives unless the CSP is dispensed in a single use container and labeled as "single use only", unless said container has been validated to prevent contamination of the CSP.  10/10/18 Board: accept language
				above
17.07(1	A BUD must be calculated from the time of compounding and shall include the time a drug will reside inside an implantable infusion pump reservoir.	Anazao Health  MHA/MSHP  Beth Israel Deaconess	Anazao: Modify language to comply with current USP 797 standards and also meeting CETA application guide which is referenced in USP 797.  MHA: It is not industry standard to include the time the drug is inside the reservoir in the calculation of a BUD. This regulation creates unnecessary extra steps, time, and effort that could impact patient care for products that do not need to be treated any differently than any other CSP.	Most recent USP <797>:"The BUD is determined from the date/time that preparation of the CSP is initiated. The BUD is not intended to limit the time during which the CSP is administered (e.g., infused)."
		Medical Center  Boston Medical Center / Horbowicz / Vreeland  Mt. Auburn Hospital	MHA: According to 17.41, the max BUD is 14 days (refrigerated) or 48 hours (room temp). Including the dwell time in this BUD would be nonsensical and result in patient needing to change pump more frequently, increasing risk of infection, etc. The BUD should include the infusion time but not the dwell time.  Drug delivery would not be possible if BUD included pump infusion time.  MAH: Adjust so that BUD may not extend beyond infusion time.	January 2014 General Session Board Minutes:"[Pharmacy name] will not compound unapproved CSPs or unapproved combinations of CSPs unless and until it obtains scientific evidence demonstrating that the CSPs maintain their stability and sterility for the entire time they are present in the infusion pump." Unanimous
		Pentec BioScrip	Pentec: Adhere to the USP <797> definition of beyond use dating surrounding low, medium and high risk compounds. Amending the BUD definition as proposed in this regulation for implantable pumps will decrease the life of the pump septum and increase the patient's potential for infection with each additional access.	vote.  8/2/18 Board: Demonstrate stability and sterility from a relevant and reliable source. Reword the language.
			Medtronic pump puncture life is 500 punctures (Medtronic Synchromed II Programmable Pumps, page 8 Table 2). With the average fill rate of every 57 days (based on our patient population) the septum puncture life is well within the life of the pump. Changing the Page 33 of 108	Suggested language:  "A pharmacy shall obtain documentation from reliable and

			BUD for high risk to include dwell time would mean a fill every 3 days, drastically reducing the life of the pump. Patients and insurance companies would bear the undue financial burden of medication being unnecessarily dispensed and refilled every 3 days.  BioScrip: This requirement is onerous and impractical. The manufacturer of the device should provide guidance for this matter. Further, what is the direction from the Board if the patient's supply should run beyond the calculated BUD provided by the pharmacy?	relevant sources demonstrating that CSPs intended for implantable infusion pumps maintain their stability and sterility for the entire time they are present in the infusion pump."  10/18/18 Board: Discuss with Advisory Committee
17.07(2)	In addition to standard prescription labeling requirements, a pharmacy shall include the date of compounding on the label for CSPs prepared for administration by an implantable pump.	Dana Farber Pentec	DF: Recommend aligning with USP 797 for BUD definition stating the date after which compounded prescription shall not be used. Consistency with BUD dating definition will cause less confusion and more consistent practice.  Pentec: Remove this provision. Including a second date on the label will cause confusion. Additionally, software may not allow the formatting change.	Recommend to strike.
17.08	CSPs as Stock Solutions	NCPA	Align this section with USP 797.	Revised <797> 14.2 Use of Compounded Stock Solutions A compounded stock solution is a sterile mixture of components that is used to prepare CSP(s). The compounded stock solution must be stored according to storage conditions for the BUD assigned. The compounded stock solution must only be entered or punctured in an ISO Class 5 or cleaner air. It may be used for up to 6 hours after initial entry or puncture. The remainder must be discarded.
17.08(1)	A pharmacy that prepares intermediate or stock solutions from commercially available sterile components, excluding the pooling of	IACP Johnson Compounding	Strike this requirement. If preparing a low risk-level intermediate solution, low risk dating should be applicable and acceptable.  USP <797> allows for extended dating for all risk levels, so long as	Recommend to strike.
	commercially available single dose	/ Walczyk /	a sterility and stability program has been established for that	

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	pilate man not english a DIID di el	Faller /		
	vials, may not assign a BUD that is		specific preparation.	
	longer than a medium risk BUD in	Allibhani /	76 - 11	
	accordance with 247 CMR 17.41, to	Petrosillo	If sterility testing in accordance with USP <71> has occurred and there	
	each intermediate or stock solution.	3.675.4	is evidence to support stability beyond USP <797>, what is the	
		MIPA	justification to limiting dating to medium risk?	
17.09	CSPs made with a patient's blood-	MHA/MSHP	<b>Recommendation:</b> remove this section entirely or change this entire	Suggested language:
	derived or biological material		section to be specific to biohazard material only. This should not	
		Cardinal	apply to sterile albumin and/or Intravenous Immune Globulin. The	"CSPs made with a patient's own
		Health	policies and procedures should be no different from any other CSP	blood-derived or other biological
			Clarification requested: 17.09 as written is specific to using blood	material"
		Dana Farber	derived or biologic material from a single patient ("a	
			patient's"). Statements in this section, if read alone may be confusing	Change throughout the section.
			as they do not reiterate the single patient piece. IVIG is a marketed	
			FDA approved product and the active ingredient is derived from	
			human plasma (blood). This requirement should not apply in the case	
			of IVIG and under the heading of 17.09 it would not. Recommend	
			clarifying sub-points in this section to make it clear.	
			Cardinal: A patient dose of radiolabeled autologous leukocytes is not	
			a CSP. Patient's blood derived or biological material is assumed to	
			contain pathogens. The end product is not sterilized but is returned to	
			the patient from whom it was obtained. A radiopharmaceutical made	
			with a patient's blood derived or biological material is handled	
			aseptically in and ISO class 5 BSC, but the resultant end product is not	
			sterile and not a CSP.	
			sterile and not a CSI.	
			Dana Farber needs further clarification: After step (a), do staff doff	
			garb as described in 17.30 (13) a-c? Step d would be eliminated if the	
			pharmacist will return to the buffer room. Is the intention to allow re-	
			use of the garbing, as in 17:30(12), or to doff and dispose? Does the	
			"hand hygiene" referred to in (b) refer to the hand hygiene described	
			in 17.30 6(a)? Also recommend giving examples of Blood-derived or	
			Biological material as guidance as to which products should be	
			classified under this category. Is this meant to include all medications	
			such at vaccines, Immune globulins, Insulin, growth factors same as	
1= 00/0			blood factors?	
17.09(2)	The procedures for compounding		Need definition for "blood derived" and "other biological material" so	See above.
	CSPs using blood-derived or other	Boston	that substances such as insulin are not misinterpreted as being a	
	biological material shall require	Medical	biological material.	
	compounding to be separate from	Center /		
			Page 35 of 108	

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	routine material-handling procedures	Horbowicz /		
	and must describe cleaning of PEC	Vreeland		
	and other equipment used in CSP			
	preparation in order to avoid cross-	Mount Auburn		
	contamination.	Hospital		
17.10	Allergen Extracts as CSPs	BioScrip	This section restricts compounders from their usual and customary practices. Consultation of the conditions and processes required for the compounding of these extracts should come from the manufacturers of these extracts. The House sub-committee has questioned the USP's meddling in this very issue, and has cautioned that USP 797 was beyond its mandate as well as the intent of Congress as outlined with the DQSA.	8/2/18Board: Review the most recently revised <797> for allergenic extracts.  Recommend striking 17.10 (2) and (3) and retaining (1): A pharmacy shall prepare allergen extracts in accordance with 247 CMR 17.00.  10/18/18 Board: as above; agree with 247 CMR 17
17.12	Sterile Compounding Facility; General	Beth Israel Deaconess Medical Center	BI: Many clinics that do not have cleanrooms but treat patients with sterile product, this poses treatment concerns for patients.	Pertains to the SCA as below.
17.12	Sterile Compounding Facility; General	Kelly Barnes	Recommend adding requirement that sterile compounding pharmacy be maintained under clean and sanitary conditions.	Agree with comment.
			December dedding a social and the table and a social and the table	8/2/18 Board: No addition.
			Recommend adding requirement that pharmacy shall maintain on the	
			pharmacy premises a current copy or electronic version of references/resources to sterile compounding appropriate to the practice stetting approved by the manager of record.	
17.12(1)	A licensee may not conduct sterile	MHA/MSHP	Recommend following the standard proposed in new USP 797:	Suggested language:
	compounding in a segregated		Category 1 CSPs may be compounded in a PEC located in a	
	compounding area that is not ISO classified.	Boston Medical Center /	segregated compounding area. Segregated compounding areas are necessary for ambulatory clinics and procedural areas. The alternative is immediate use compounding on the countertop, which is clearly	"A pharmacy may utilize a segregated compounding area (SCA) if it holds an institutional
		Horbowicz / Vreeland	inferior to compounding inside a PEC.	sterile compounding pharmacy license, issued under M.G.L. c.
			It is critical to maintain the designation of segregated compounding	112, § 39I and the CSPs are
		Dana Farber	areas for institutional pharmacies in order to maintain safe medication practices, such as those currently provided by the ED and OR	administered on site."
			satellites in our facility. The alternative could be to continue to	10/18/18 Board: accept as above

			perform compounding under immediate-use standards, but on a wiped down countertop, rather than inside of a hood. Clearly this is inferior to compounding the product inside a PEC. If left as written, hospitals are prohibited from using PECs anywhere outside of an ISO 8 or better room, even where we may desire to use a PEC in the setting of immediate use compounding. In many satellite operations outside of an Emergency room, a 1hr BUD is impractical and the 12 hour BUD permissible by USP 797 allows more than sufficient time for administration. This is safe and effective without the need for costly renovations to achieve an ISO 8 environment.  If left as written, hospital pharmacies will not be able to continue providing service to many ambulatory infusion clinics and procedural areas such as ORs and Emergency Departments. Compounding outside of a PEC will still take place, but will be a set-back in medications safety practices for Massachusetts. Also see impact comments for 17.05  Possible conflict with 17.15(1)(e).	
17.12(2)	Each ISO classified area built after January 1, 2017, shall allow for visual observation of the classified space from outside the classified space through windows or technology.	Kelly Barnes NCPA	Adjust date.  NCPA: Extend deadlines to 18 months post-promulgation.	Newly constructed ISO classified areas shall allow for visual observation of the classified space from outside the classified space through windows or technology.
17.13(2)	An ISO Class 8 room shall maintain a minimum of 20 air changes per hour.	IACP	Strike this requirement. The origin of 20 air changes per hour is unclear. USP 797 does not have an air change requirement for ISO 8 environment.	No change recommended.  Required by newly revised USP 797.
17.13(3)	The air changes shall come from the HEPA filtered air. HEPA filtered air shall be introduced at the ceiling. Any air exchanges supplied to buffer room from the PEC must be in addition to the 30 air changes per hour ("ACPH").	MHA/MSHP  IACP  Boston Medical Center / Horbowicz / Vreeland	Adjust language to allow for the addition of PEC air in the calculation in order to be consistent with USP 797 and CETA guidelines.	For Board discussion.  If minimum ACPH depends on PEC and PEC fails, the ISO7 room would be non-compliant with the standard.  8/2/18 Board: Review CETA guidelines.
		Mount Auburn	Dags 27 of 100	CETA allows 15ACPH from PEC.

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		Hospital		Recommend a grandfathering
				provision related to renovations or
		Patrick		new builds.
		Carpenter		
		•		Suggested language:
				The air changes shall come from
				the HEPA filtered air. HEPA
				filtered air shall be introduced at
				the ceiling. For newly constructed
				buffer rooms any air exchanges
				supplied to buffer room from the
				PEC must be in addition to the 30
				air changes per hour ("ACPH").
				10/10/10 D 1
17.12(1)	A 1 100	A MILL A COLUD		10/18/18 Board: accept as above
17.13(4)	A pharmacy may not utilize any ISO	MHA/MSHP	This should be a best practice rather than a requirement. This	For Board discussion.
	classified area for both sterile and	_	provision would prohibit satellite pharmacies – especially pediatric	
	non-sterile compounding.	Boston	satellites - from compounding non-sterile medications routinely	Preliminary review of revised draft
		Medical	needed for patients because they also compound CSPs in the same	<797> - does not appear to be
		Center /	room.	addressed.
		Horbowicz /		
		Vreeland	BMC: Recommendation: "A pharmacy should not routinely utilize	8/2/18 Board: Get some more
			ISO Class 5 areas for both sterile and non-sterile compounding	information from stakeholders.
		Brigham and	without thoroughly cleaning between compounding sessions."	
		Women's		Recommend to edit to specify non-
		Faulkner	Wording should reflect USP 800: "For occasional nonsterile HD	HD environments and recommend
		Hospital	compounding, a C-PEC used for sterile compounding may be used but	addressing HD issues in 247 CMR
		•	must be decontaminated, cleaned, and disinfected before resuming	19.00.
		Dana Farber	sterile compounding." Hospitals with minimal non-sterile HD	
			compounding needs need to be able to use sterile compounding PEC	Suggested language:
		Southcoast	or they will be forced to install costly, underutilized non-sterile hood.	
			,	A pharmacy may not utilize any
		BioScrip	Southcoast: Agree with the recommendation made by MSHP/MHA	non-hazardous ISO classified area
		====P	regarding the use of a shared use of the negative pressure BSC for	for both sterile and non-sterile
			hazardous non-sterile compounding in addition to hazardous sterile	compounding.
			compounding. As long as there is a thorough disinfection (cleaning	Compounding.
			procedure) in between compounding sessions (sterile and non-sterile),	10/18/18 Board: accept as above
			pharmacy personnel will be able to safely compound hazardous non-	10/10/10 Board. accept as above
			sterile compounds, especially in those pharmacy locations where	
			Page 38 of 108	

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17.13(7)	Beginning January 1, 2018, the doors to ante rooms and buffer rooms shall be constructed with an interlocking design to prevent the ante room door and buffer room door from opening at the same time.	Atrius Health MHA/MSHP IACP Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA Beth Israel Deaconess Medical Center Cardinal Health GE Healthcare Jeffrey Lynch Kelly Barnes	there is limited space and an additional BSC for hazardous non- sterile compounding is not feasible.  BioScrip; This is inconsistent with current USP guidance. The use of sterile areas for some limited non-sterile compounding may occasionally be in the best interest of patients. Pharmacies are capable of thoroughly cleaning and disinfecting these areas.  The implementation date is not realistic.  Interlocking doors are extremely costly. Consider alternative such as alarm system so that only one door can be open at a time.  Consider pass through designed as an ISO class 5 HEPA filtered device with 1 minute air purge between ISO class 7 buffer room and unclassified space. This could decrease the amount of traffic/activity between ante and buffer rooms.  Costly; timeline not practical.  GE: Compliance with the rule as written poses a substantial safety risk to workers. Recommend adding " or an audible and/or visual alarm to deter personnel from opening doors at the same time."  Lynch: Clarify whether this is new construction only? Does this apply to all existing rooms (including non-modular)?  Barnes: Adjust date. Add "If prohibited by fire code, a pharmacy shall implement a passive interlock system to prevent both doors from being opened at the same time.  NCPA: An interlocking design is very costly and may not be possible to implement in all sterile compounding labs without extensive reconstruction.	Adjust implementation date.  Clarify to: "constructed with an active or passive interlocking design" Suggested language:  Beginning <date>, the doors to ante rooms and buffer rooms shall be constructed with an active or passive interlocking design to prevent or minimize the ante room door and buffer room door from opening at the same time.  10/18/18 Board: accept as above</date>
17.13(9)(c)	A pass through shall not have an	NCPA GE Healthcare	Delete this provision. Nuclear pharmacy operations require use of	
	opening larger than 4 square feet.		lead lined containers to ensure safety; the movement of heavy	including licensing, will primarily

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	T			1 1 1 1 2 2 5 6 5 1 2 2 2
			containers warrants need for larger pass throughs.	be addressed in 247 CMR 13.00 with linkages to other sections as required.
				Also, this may be waived or possibly consider carve out for Nuclear Pharmacies.
17.13(9)(d)	Beginning January 1, 2018, a pass through shall:	Atrius Health	Atrius agrees with MHA/MSHSP comment. Additionally, the implementation date is not realistic.	Adjust implementation date.
	(b) have a double interlocking door			
	design;	MHA/MSHP	MHA: Change "a pass through shall be located" to "a pass through may be located." Otherwise the regulation reads that pass throughs	Board discussion: Consider striking section (d); or
	(d) be located between: (1) ISO Class 7 buffer room and ISO Class 8	IACP	are required between all classified spaces, whether they are needed or not. Alternatively, consider removing requiring at 17.13(9)(d)(1).	Require HEPA filtered units if located between ISO 7 and
	area or better; (2) ISO Class 8 area to unclassified space or better; or (3) ISO Class 7 ante room to unclassified	Boston Medical	IACP needs clarification as stated in 17.13(7).	unclassified space 10/4/18 Board: strike (d)
	space or better.	Center / Horbowicz / Vreeland	Cardinal: Certain pass throughs are used for one way egress from buffer room to unclassified space due to short half-lives and possibility of high radiation exposure rates. Pass throughs should be addressed in USP 825.	Patrick/Andy all
		Cardinal Health Mount Auburn Hospital	MAH: How does a double interlocking door compare to the interlocking design required in point 7 in this section? The goal is the same in that only one door should open, recommend removing "double" or clarifying how these are different.	
		NCPA	NCPA: Consider allowing more cost effective options that serve the same purpose as interlocking design.	
17.13(12)	A pharmacy shall determine the recovery time of each primary and	MHA/MSHP	Remove from regulation and make a best practice. Semi-annual recertification of the PEC is used to determine the maintenance of	Strike and add to Best Practices.
	secondary engineering controls for	IACP	functionality of the PEC. The functional recovery time of a PEC is	10/18/18 Board: add overarching
	particle count, temperature, and humidity, following activities	Johnson	almost immediate, typically less than 1 minute. Recovery time of a SEC, can be noted within the room recertification under dynamic	statement regarding HVAC failure
	including personnel entering and	Compounding	operating conditions. A standard 30 minutes as stated in these	Board staff suggested language:
	exiting, gowning, staging, material	/ Walczyk /	regulations along with a 1 hour standard for SEC coupled with	A pharmacy shall respond to any
	transfer, compounding, labeling, cleaning, and testing.	Fallon / Allibhani /	cleaning and disinfection procedures handled on a local policy level provides substantial safety for continuation of compounding. The	planned and unplanned interruptions of HVAC
	<u> </u>	,	Page 40 of 108	

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		Petrosillo	addition of a continuity of care plan as stated in these regulations	operations in accordance with
			provides an outline for managing situations directly related to planned	Board policy.
		MIPA	or unplanned interruptions of airflow. Also, would need to clarify the	
			standard for the evaluation of recovery time.	
		Beth Israel		
		Deaconess	Need clarification on how this requirement could be operationalized.	
		Medical		
		Center	Barnes: Change to "following activities including personnel	
			entering and exiting, gowning, staging, material transfer,	
		Boston	compounding, labeling, cleaning, testing, and HVAC interruption."	
		Medical		
		Center /	Pentec: Remove requirement. This standard is not set forth in USP	
		Horbowicz /	797 or cGMP. If routine environmental monitoring are performed and	
		Vreeland	the results are monitoring and trended, another annual analysis would	
			not be necessary and places undue financial burden on pharmacy.	
		Kelly Barnes	notes notes and places and a maneral surger on planning,	
		Tiony Burnes		
		Mount Auburn		
		Hospital		
		Hospital		
		Pentec		
17.13(14)	A pharmacy may not locate a	MHA/MSHP	Change to "any appliances that use running water (i.e., dishwasher) or	Staff to reword with verbiage to
17.13(11)	refrigerator, dishwasher, incubator,	1,1111111111111111111111111111111111111	used to promote microbial growth (i.e., incubator). It is necessary to	clarify appliances that may
	or other appliance in an ISO	IACP	allow for pass throughs that are carousels (refrigerated and non-	contribute to elevated particulate
	classified area.	II ICI	refrigerated) as well as robotics with cooling systems. Also need to	levels and microbial growth.
	classified area.	Johnson	account for autoclaves and depyrogenation ovens, which could be	levels and interoblar growth.
		Compounding	considered "appliances."	Suggested language:
		/ Walczyk /	considered apphiances.	Suggested language.
		Fallon /	Refrigerators in ISO classified ante area has not caused problem in	A pharmacy may not locate a
		Allibhani /	past. This provision would create cost and storage problem.	refrigerator, dishwasher, incubator,
		Petrosillo	past. This provision would create cost and storage problem.	or other appliance that has
		Petrosino	There are multiple appliances required for properties and dispersing	
		MIDA	There are multiple appliances required for preparation and dispensing	potential to promote microbial
		MIPA	of radiopharmaceuticals, including computers, printers, dose	<b>growth</b> in an ISO classified area.
		Dut I. 1	calibrators, multi-channel analyzers, radio chromatogram scanners,	10/10/10 December 1
		Beth Israel	and heating devices.	10/18/18 Board: accept as above
		Deaconess		D 1 ( 00 )
		Medical	Appliance is too broad of a word. Recommend revising to allow	Board staff note: see language in
		Center	technology or devices to be used if low particulate and no moisture	draft.
		Boston	component. This would help pharmacies struggling to meeting space constraints.	

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		Medical Center / Horbowicz / Vreeland Cardinal Health Dana Farber Mount Auburn Hospital NCPA Partners Healthcare Pentec BioScrip	MAH: The USP 800 draft allows the storage of hazardous agents within a classified space. Clarification will be necessary in this statement regarding differentiation between non-hazardous and hazardous requirements.  NCPA: Consider specifying types of appliances not allowed, such as "appliances connected to a water source instead of prohibiting all appliances in general.  Pentec: Make exception for microwaves.  BioScrip: The prohibition on the placement of refrigerators in an ISO classified area is inconsistent with current USP guidance and would force compounding operations to create additional areas for the storage of refrigerated HD drugs. The inclusion of these devices within ISO classified spaces will require additional cleaning by compounders and will be monitored by the increased environmental testing required by USP 797.	
17.13(16)	All counter tops, work surfaces, and racks shall be constructed of stainless steel or other non-porous material.	Kelly Barnes	Add "non-shedding" to qualifications of material.	Agree to change.  Suggested language: All counter tops, work surfaces, and racks shall be constructed of stainless steel or other non-porous, non-shedding material.  10/18/18 Board: accept as above
17.13(17)	A pharmacy may only utilize stainless steel or non-porous molded plastic carts that are cleanable and resistant to degradation by cleaning agents in ISO classified areas.	Kelly Barnes	Change to: "A pharmacy may only utilize carts in ISO classified areas that are constructed of stainless steel, molded plastic, or other non-shedding, non-porous materials that are cleanable and resistant to degradation by cleaning agents."	Agree to change.  Suggested language:  A pharmacy may only utilize carts in ISO classified areas that are constructed of stainless steel, molded plastic, or other non-shedding, non-porous materials that are cleanable and resistant to
	•		Daga 42 of 100	

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				degradation by cleaning agents."
17.13(18)	An ISO classified area constructed or	MHA/MSHP	Remove requirement. One hood provides more dust collecting area	Adjust implementation date.
	renovated after January 1, 2017 may	IACP	than a ¼ inch ledge around a window or door. Regular cleaning is	
	not contain dust collecting overhangs	Johnson	sufficient.	Suggested language:
	or ledges.	Compounding		
		/ Walczyk /	Adjust date.	Newly constructed or renovated
		Fallon / Allibhani /	TACD	ISO classified areas may not
		Petrosillo	IACP suggests, "An ISO classified area constructed or renovated after DATE shall be constructed to minimize dust collecting unnecessary	contain dust collecting overhangs such a utility pipes or ledges such
		Petrosino	overhangs or ledges."	as windowsills.
		MIPA	overliangs of leages.	as windowsins.
		Mount Auburn	Pentec: Modify to allow for ledges ½ inch, as there will always be a	USP <797> most recent draft:
		Hospital	slight ledge on frame work of doors.	"Classified areas should minimize
		Pentec		dust-collecting overhangs such as
				utility pipes and ledges such as
				windowsills. If overhangs or ledges
				are present, they must be easily
				cleanable."
				10/18/18 Board: accept as above
17.13(19)	A pharmacy shall utilize cleanroom	MHA/MSHP	Need further explanation on cleanroom grade lighting.	Consider combining (19) and (20).
17.13(17)	grade lights in all classified areas.	WITH WISH	rece further explanation on eleanroom grade lighting.	Consider combining (19) and (20).
	grade fights in all classified areas.	Boston		Suggested language:
		Medical		Suggested imiguage:
		Center /		"A pharmacy shall utilize lighting
		Horbowicz /		fixtures designed for clean rooms
		Vreeland		in all ISO classified areas and the
		Mount Auburn		exterior surface of ceiling lighting
		Hospital		fixtures shall be smooth, mounted
				flush with the ceiling surface, and
15 10(00)		-		sealed."
17.13(22)	Ceiling panels, fixtures, and other	Pentec	Pentec: Modify language to "mounted as flush as possible"	Clarify
	penetrations through the ceiling (e.g., sprinkler heads) shall be smooth,		Cleanroom grade sprinkler heads should be acceptable as not all sprinkler heads are fully flush with the ceiling depending on the	Suggested language:
	mounted flush with ceiling tiles, and		model.	Suggested language:
	sealed around the perimeter.		model.	"Ceiling panels, fixtures, and other
	scared around the perimeter.			penetrations through the ceiling or
				walls shall be smooth and sealed
				around the perimeter."

be specification rooms and to withstart the ceiling.  17.13(25)  Floors sign composed heat sealers smooth so coved at sealed.  17.14(1)  A pharma Class 5 Pic compound pressure IS ISO Class.  17.14(2)  A pharma compound	/ Walc Fallon Allibha Petrosi MIPA	ounding zyk / Clarify whether this applies to new construction only? Does this apply to all existing rooms? in all ISO classified areas shall be recessed and covered, and must be easily cleanable specifically designed for clean rooms. and
composed heat sealed smooth so coved at sealed.  17.14(1) A pharma Class 5 Ph compound pressure IS ISO Class  17.14(2) A pharma compound		
composed heat sealed smooth so coved at sealed.  17.14(1) A pharma Class 5 Ph compound pressure IS ISO Class  17.14(2) A pharma compound pressure IS ISO Class		Lynch/ Pentec Pentec
Class 5 PI compound pressure IS ISO Class  17.14(2) A pharm compound	shall be cleanable and ed of wide sheet vinyl that is alled at seams or other solid, surface. Floors shall be at the wall or appropriately	
compound	macy shall locate an ISO MHA/ PEC for non-hazardous drug Bostor nding within a positive Horbo ISO Class 7 buffer room or vreela ss 8 DCR.	a MC / compounding area. See comments above at 17.05 and 17.12(1).  and allow SCA. All DCR section will be edited.
	armacy may only use minimar airflow.  Beth Deacon Medical Center  Bostor Medical Center	Israel less equipment in place can be used to show airflow dynamics and minimize turbulent airflow. Cleaning is effective in managing equipment.  Practically speaking, this is virtually impossible. Cost implications if PECs need to be replaced. Staff will not be able to operate in a vertical hood.

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17.14(4) Unless the pharmacy is utilizing a	Hospital		
DCR with a CAI, BSC, or LAFW in accordance with 247 CMR 17.00, a pharmacy shall prepare CSPs in an ISO Class 5 environment within an ISO Class 7 buffer room that is adjacent to an ISO Class 7 or 8 ante room.		USP 797 allows radiopharmaceuticals to be compounded using appropriately shielded vials and syringes in a properly functioning PEC located in ISO Class 8 or cleaner environment.	All nuclear pharmacy issues, including licensing, will primarily be addressed in 247 CMR 13.00 with linkages to other sections as required.  Board has voted to eliminate DCR and allow SCA. All DCR sections will be edited.
A pharmacy shall prepare CSPs in a commercially manufactured ISO Class 5 PEC. A pharmacy may not prepare CSPs in a vertically integrated ISO Class 5 workbench or ISO Class 5 open buffer room design.	MHA/MSHP  Boston Medical Center / Horbowicz / Vreeland  GE Healthcare Pentec BioScrip	Hospitals that currently have this design will be forced to undergo significant and costly renovations, causing major interruptions to patient care. Recommendation: remove section entirely, or adjust to include USP <797> 2015 definition of a LAFS (Laminar airflow system).  BMC: If left as written, institutions with this design will be prohibited from operating, forcing them to undergo significant and costly renovations, which will cause major interruptions in patient care. Our brand new pharmacy clean room employs a LAFS open buffer room design and would be prohibited under this restriction. Our room was designed as a state of the art LAFS design because these rooms are easier to clean and maintain than traditional hoods. LAFS are often used in FDA approved facilities. With proper environmental monitoring, controls, and cleaning procedures, these designs are equally safe and effective as conventional commercially manufactured PECs.  GE: Change to "A pharmacy shall prepare CSPs in a commercially manufactured or Board approved ISO Class 5 PEC." Due to the need for lead shielding, it is often necessary for nuclear pharmacy operations to construct specialized PECs that are commercially available.  Pentec: Several device manufacturers make vertical flow ISO class 5 devices specifically for USP <797>. If properly designed and validated with smoke studies, a VLF should be a viable PEC if users are properly trained on positioning the CSP puncture locations within the "First Air".	Board discussion: This may be waived or could edit to: "A pharmacy may only prepare CSPs in a non-commercially manufactured ISO Class 5 workbench or ISO Class 5 open buffer room design as long as unidirectional airflow is proven and maintained."  Changes may impact other sections of the regulation.  Revised draft USP <797> [NOTE—Smoke studies have shown that it is difficult to achieve this type of design and also achieve and maintain unidirectional airflow under dynamic operating conditions.]  10/4/18 Board: no change; may apply for waiver

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			BioScrip: Inconsistent with current practice. The creation of integrated laminar flow workbenches within ISO 7 classed spaces is an accepted configuration for the creation of ISO 5 laminar flow work zones with ISO classed 7 secondary engineering areas. Would the Board consider the contractor, builder, or provider of the components	
			of this type of construction to provide "commercially manufactured?" Once installed and tested according to accepted standard guidance for	
			cleanrooms, would that not prove that these workbenches provide an	
			equivalent environment for compounding? Was it considered that in many instances this type of construction is exactly the construction	
			employed by commercial drug manufacturers to provide ISO 5 air for their fill lines?	
17.14(6)	A pharmacy may not locate computer	MHA/MSHP	Reword this section to better address the intent as Workflow	Suggested language:
	screens, keyboards, computer mouse,	G 1' 1	Management systems that utilize computerized mechanisms (camera)	"A 1
	or printer within an ISO Class 5 area	Cardinal	for visual aid and gravimetric readings are critical to reducing errors.	"A pharmacy may not locate any
	unless it is essential to compounding.	Health	Is the goal here to prevent items that can generate particulates or possible be impossible to clean (key board)? There are screens that	equipment or supplies within an ISO Class 5 area unless it is
		Mount Auburn	are cleanable and do not create dust.	essential to the compounding
		Hospital	are creamable and do not create dust.	process."
		F	The practice of radiopharmacy requires the placement of computer	Feedon
			screen, keyboard, computer mouse, and printer within the ISO Class 5	
			area.	
17.15(1)(a)	A buffer room shall be at least 144	Atrius Health	Square footage is not a requirement of USP 797 or 800. The room	Consider reducing size to 100
	square feet.		should be built to the size needed to perform the necessary operations.	square feet and including
		MHA/MSHP	Compliance would pose significant financial burden and would create	grandfathering provision related to
		IACP	large space to clean and test. Recommend existing pharmacies be grandfathered or this requirement eliminated.	renovations or new builds.
		IACI	grandramered of this requirement eminimated.	Waiver process available.
		Johnson	If requirement not eliminated consider formula for minimum square	warver process available.
		Compounding	footage such as 64 square feet plus 8 square feet for every linear foot	10/4/18 Board: accept
		/ Walczyk /	of hood, etc.	recommendation as above (100 sq
		Fallon /		feet and grandfathering)
		Allibhani /	The minimum square footage may not be possible at some institutions.	Tim/Julie all
		Petrosillo		
		MIDA	Boulevard: Our recently renovated cleanroom facility would not be	Suggested language:
		MIPA	compliant with the suggested minimum size. Due to layout of building, there is no room to expand.	Newly constructed buffer rooms shall be at least 100 square feet.
		Beth Israel	bunding, there is no room to expand.	shan be at least 100 square feet.
		Deaconess	Remove requirement.	10/18/18 Board: accept as above
		Medical	Tomo to requirement.	10, 10, 10 Dourd. decept as above
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		Center  Boston Medical		
		Center / Horbowicz / Vreeland		
		Boulevard Pharmacy		
		Mount Auburn Hospital		
		NCPA Partners		
		Healthcare		
		Southcoast		
17.15(1)(c)	Buffer room doors shall be hands free.	Cardinal Health	This requirement is unnecessary and not consistent with USP 797.	No change recommended.
		Dana Farber	Doors should not be motion activated.	
		Pentec	Pentec: We request that the Board provide further clarification if a touch plate can be utilized to open the door as long as personnel are not using their hands but instead another part of their body to open the	
			door (i.e. elbow). The use of a sensor only door (fully hands free) will restrict the ability to move within the buffer room and anteroom	
			without continual interruptions from the door self-opening and unnecessarily increase the risk of contamination within the ISO 5 and ISO 7 areas.	
17.15(1)(e)	A buffer room shall be ISO class 7 unless the pharmacy is utilizing a DCR in accordance with 247 CMR 17.15(3).	Cardinal Health	USP 797 allows radiopharmaceuticals to be compounded using appropriately shielded vials and syringes in a properly functioning PEC located in ISO Class 8 or cleaner environment.	All nuclear pharmacy issues, including licensing, will primarily be addressed in 247 CMR 13.00 with linkages to other sections as required.
17.15(1)(g)	Unless prohibited by local building or fire code, a buffer room may not	Dana Farber	Dana Farber: A second door that leads to a second ISO7 anteroom should be allowed as an "EXIT-ONLY" option for large buffer rooms.	No change recommended. May be waived.
	have more than one door.	GE Healthcare	This design allows waste removal activities to be restricted to the exit-	

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or fire	ss prohibited by local building the code, an ante room may not more than one door between the room and an unclassified space.	BioScrip  Pentec  BioScrip	only anteroom, and reduces the risk of cross-contamination in the anteroom which is used solely personnel entry, exit and PPE storage.  GE: Need to account for emergency egress doors.  BioScrip: This will limit innovation and could be burdensome to providers. Why is this necessary?  Remove requirement or grandfather in existing pharmacies. We feel that depending on the volume and/or size of supplies going in and out of an anteroom, simply utilizing a pass-through may not be sufficient. If there is only one entrance all supplies according to this proposed regulation would have to pass through all of the zones/demarcations lines that personnel do who are un-gowned with exposed skin. This will most certainly lead to an increased risk of potential buffer room contamination and action level excursions on a regular basis. We believe as long as there are policies and procedures in place to control the risk of contamination of the cleanroom, the use of multiple doors should be permitted.	No change recommended. May be waived.
17.15(2)(d) An an square	e feet.	Atrius Health  IACP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo  MIPA	USP <797> does not restrict the access to an anteroom to one door only. This may not be feasible depending on the type of sterile compounding the facility does and/or the volume/size of supplies and equipment needed to enter the cleanroom space. Best practices in pharmaceutical manufacturing suggest unidirectional flow such that personnel entry is separate from material entry and raw materials are separate from finished products. Requiring no more than one door would conflict with best practices.  Square footage is not required by USP 797 or 800. Recommend existing pharmacies be grandfathered or this requirement eliminated. The size of the room should be dependent on the work occurring within and the available space to implement a buffer room or cleanroom suite operation of a given size.  Remove requirement.	Consider reducing size to 72 square feet and including grandfathering provision related to renovations or new builds.  Waiver process available.  10/4/18 Board: Tim/Julie: accept as above  Suggested language:

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		Beth Israel		Newly constructed ante rooms
		Deaconess		shall be at least 72 square feet.
		Medical		
		Center		
				10/18/18 Board: accept as above
		Boston		_
		Medical		
		Center /		
		Horbowicz /		
		Vreeland		
		Mount Auburn		
		Hospital		
		NCPA		
		Partners		
		Healthcare		
17.15(0)(0)	A	Southcoast		X 1
17.15(2)(f)	An ante room shall have a stainless	Allegra	DePietro: Microbiology consultants recommend not placing sinks in	No change recommended.
	steel sink	DePietro	ante rooms and using hand sanitizers instead; this is the standard in the	
		~~	biotech industry locally.	All nuclear pharmacy issues,
		GE Healthcare		including licensing, will primarily
			GE: Sinks inside the ante room pose unacceptable risk to cleanroom	be addressed in 247 CMR 13.00
			environment.	with linkages to other sections as
				required.
17.15(2)(h)	An ante room shall have lint free,	Beth Israel	BI: Water should not be in anterooms where mold and fungi can	Facility specific issues will be
	disposable towels located in	Deaconess	potentially grow. If the scrub area is adjacent to anteroom but	reviewed on a case by case basis.
	proximity to sink to minimize water	Medical	segregated by a door, does this standard apply?	
	dripping and splashing.	Center		Suggested language:
			MAH: Request change "lint free" to "low lint," as the "lint free"	
		Mount Auburn	products in the market actually still develop some lint.	"An ante room shall have <b>low lint</b> ,
		Hospital		disposable towels located in
				proximity to sink to minimize
				water dripping and splashing."
17.15(2)(i)	An ante room may not contain	Beth Israel	Clarify if the scrub area is adjacent to the anteroom but segregated by	Facility specific issues will be
	automatic hand dryers.	Deaconess	a door, will this standard apply.	reviewed on a case by case basis.
		Medical		
		Center		
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		I		
17.15(2)(1)	A pharmacy may not place a "tacky"	Beth Israel	Clarify whether this applies to ante to buffer or scrub to ante.	This pertains to the placement of
	mat inside an ISO classified area. If	Deaconess		the tacky mat in unclassified space
	using a tacky mat outside of the ante	Medical	Cardinal: It is sufficient to replace tacky mat when it is visibly soiled.	immediately preceding the
	room door, the pharmacy shall	Center		classified space.
	replace the tacky mat at least once		Pentec: Recommend – "A pharmacy may not place a contamination	
	per day and when visibly soiled.	Cardinal	control mat inside an ISO classified area. If using a mat outside the	Generally agree with Pentec's
		Health	ante room door, the pharmacy shall replace or clean the mat at least	comment. Board staff will suggest
			once daily and when visibly soiled." This regulation does not allow	language for rewording.
		Pentec	for other alternatives to a tacky mat to be utilized (i.e. Dycem® mat),	
			and restricts pharmacies as additional new technologies are developed	Suggested language:
			to replace the tacky mat with a superior product. We feel the wording	
			should be modified to allow for other alternative devices used for this	A pharmacy may not place a
			purpose.	contamination control mat, such
				as a "tacky" mat, inside an ISO
				classified area. If using a tacky
				contamination control mat
				outside of the ante room door, the
				pharmacy shall replace the tacky
				mat at least once per day and when
				visibly soiled.
				visiory soried.
				10/18/18 Board: accept as above
				10/10/10 Board. decept as above
17.15(2)	Ante Room	Kelly Barnes	Add a new provision prohibiting floor drains in ante rooms.	Agree to add.
		, ,	T T T T T T T T T T T T T T T T T T T	8
				Suggested language:
				An ante room may not contain a
				floor drain.
17.15(3)	Dedicated Compounding Room	Partners	How does this apply to nuclear pharmacy?	All nuclear pharmacy issues,
	I was g	(Nuclear	Tr y	including licensing, will primarily
		Medicine)		be addressed in 247 CMR 13.00
		"Tedieme)		with linkages to other sections as
				required.
				1
				Board has voted to eliminate DCR
				and allow SCA. All DCR sections
				will be edited.
				Suggested Language:
	L	l .	l	

		Segregated Compounding Area Requirements:
		An unclassified Segregated Compounding Area (SCA) shall:
		Be a dedicated closed room restricted to sterile compounding activities.
		Be located away from unsealed windows, doors that connect to the outdoors, traffic flow, and any environmental control challenges such as restrooms, warehouses, or food preparation areas.
		Be constructed with nonporous, smooth, non-shedding, impermeable material that is free from cracks and crevices, is cleanable, and resistant to degradation by cleaning agents.
		Limit furniture, equipment, and supplies to those essential for sterile compounding and be low-shedding, easily cleaned, and disinfected.
		Have a stainless-steel sink that:  a. is equipped with hands- free controls for water and soap dispensing; b. has proper depth and
	Page <b>51</b> of <b>108</b>	capacity for hand washing up to the elbows; c. minimizes splashing and dripping of water on

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		7		
				adjacent walls and floor; d. does not have an aerator mechanism on the nozzle; and e. is located at least one meter away from the PEC
				Have lint-free, disposable towels located in proximity to sink.
				Not contain automatic hand dryers.
				Not contain a floor drain.
				Adhere to all sections of 247 CMR 17.00, unless otherwise specified.
				10/18/18 Board: edit sink location
				Board staff note: see language in draft.
17.15(3)(a)	Dedicated Compounding Room: (a) A pharmacy may only prepare CSPs in a DCR if it holds an institutional sterile compounding pharmacy license and the CSPs are administered on-site.	MHA/MSHP  Cardinal Health	Need clarification on intent and process.  Cardinal: We do not understand the prohibition against preparing radiopharmaceuticals in a DCR.	Board has voted to eliminate DCR and allow SCA. All DCR sections will be edited.
17.15(3)(b)(2)	A pharmacy may not prepare the following types of CSPs in a DCR: 1. high risk level CSPs 2. hazardous CSPs; or 3. radiopharmaceuticals.	BioScrip	The prohibition on compounding HD drugs in DCR conflicts with USP 800 and will burden compounders. Pharmacies and doctor's offices will be unable to provide services to the public they are currently providing without incident.	Board has voted to eliminate DCR and allow SCA. All DCR sections will be edited.
17.15(3)(d)	A DCR shall contain a positive pressure PEC which may only be a CAI, BSC, or LAFW;	Dana Farber BioScrip	Recommend replacing DCR with SCA; see comment above.  Also, BSCs are not positive pressure.	Board has voted to eliminate DCR and allow SCA. All DCR sections will be edited.
			BioScrip: Same comment as above.	
17.15(3)(f)	A buffer space in a DCR shall include 40% of the square footage in	MHA/MSHP Boston MC /	There is currently no standard size of a buffer or ante room. The size should be dependent on the work. Recommend: remove square	Board has voted to eliminate DCR and allow SCA. All DCR sections

	the DCR.	Horbowicz /	footage requirement or make substantial adjustments to a more	will be edited.
		Vreeland	practical minimum square foot like linear feet of hood space plus	
		Southcoast	amount of reasonable space that a human body needs to work, etc.	
		BioScrip	BioScrip: The percentage requirements on the configuration of compounding areas are burdensome and unnecessary.	
17.15(3)(g)	An ante space in a DCR shallinclude at least 60% of the	MHA/MSHP	There is currently no standard size of a buffer or ante room. The size should be dependent on the work. Recommend: remove square	Board has voted to eliminate DCR and allow SCA. All DCR sections
	square footage in the DCR.	Boston	footage requirement or make substantial adjustments to a more	will be edited.
	square rootage in the Bert.	Medical	practical minimum square foot like linear feet of hood space plus	will be edited.
		Center /	amount of reasonable space that a human body needs to work, etc.	
		Horbowicz /	,	
		Vreeland	BioScrip: The percentage requirements on the configuration of compounding areas are burdensome and unnecessary.	
		BioScrip	compounding areas are ourdensome and unnecessary.	
17.15(3)	Dedicated Compounding Rooms	Kelly Barnes	Add a new provision prohibiting floor drains in DCRs.	Board has voted to eliminate DCR
17.13(3)	Beareated compounding Rooms	neny Burnes	rida a new provision promoting from atams in Borto.	and allow SCA. All DCR sections
				will be edited.
17.16(3)	A pharmacy may not assign a BUD	MHA/MSHP	MHA: Need clarification as to how this fits with 17.41. BUDs for	Board has voted to eliminate DCR
	to any CSP prepared in a CAI located		medium risk are 30 hours or 9 days. Where did 36 hours come from?	and allow SCA. All DCR sections
	outside of an ISO Class 7 buffer	Kelly Barnes	·	will be edited.
	room that exceeds 36 hours at room		Barnes: Change to "A pharmacy may not assign a BUD that exceeds	
	temperature or 9 days refrigerated. A		36 hours at room temperature or nine days refrigerated to any CSP	
	pharmacy may not freeze a CSP		prepared in a CAI located in a dedicated compounding room. A	
	prepared in a CAI dedicated		pharmacy may not freeze a CSP prepared in a CAI located in a	
45.45(4)	compounding room.	3.677.1.0.50000	dedicated compounding room."	
17.17(1)	A pharmacy may not locate a LAFW	MHA/MSHP	This section is redundant with section 17.14.	Board has voted to eliminate DCR
	outside of an ISO Class 7 buffer	Dantan	I ATW should be assessed from the desired from the desire	and allow SCA. All DCR sections
	room, unless:	Boston	LAFW should be permitted for use in a segregated compounding area.	will be edited.
	(a) the LAFW is located in a DCR;	Medical Center /	See comments above.	
	(b) the pharmacy holds an	Horbowicz /		
	institutional sterile compounding	Vreeland		
	pharmacy license issued under	v i ceianu		
	M.G.L. c 112, § 39I; and			
	(c) the CSPs are prepared for			
	on-site administration.			
17.18	Sterile Compounding Facility;	Cardinal	Cardinal: We do not understand the prescriptive nature of this section.	See below.

•			<b>,</b>	
	HVAC Systems	Health	This differs from the current USP 797 chapter as well as proposed revisions to 797.	
		Dana Farber		
			DF: Change the wording in the section to reflect fact that hospital	
		Mount Auburn	pharmacies must work with building facilities to monitor and maintain	
		Hospital	all HVAC systems.	
			MAH: This entire section should be a "best practice."	
17.18(1)	A pharmacy that does not have a	Beth Israel	BI: Is this practical and/or possible in some institutions? Can we get	Strike and add to Best Practices
	dedicated air handling unit for ISO	Deaconess	a waiver it if is not possible?	
	classified areas shall ensure the	Medical		10/18/18 Board: accept as above
	HVAC systems supplying HEPA- filtered air to ISO classified areas are	Center	Barnes: Delete "of recirculated air" in order to account for negative	
	designed to minimize contamination	Kelly Barnes	pressure environments where air is not recirculated.	
	of recirculated air and maintain	Keny Dames	MAH: A dedicated AHU for existing intuitions is virtually impossible	
	proper temperature and humidity.	Mount Auburn	to install.	
		Hospital		
17.18(2)	A pharmacy shall maintain a detailed	MHA/MSHP	Need to address facility management in hospital settings.	Clarify.
	HVAC design plan that includes air			
	flow diagrams.	Mount Auburn		Suggested language:
		Hospital		"A pharmacy shall <b>readily retrievable</b> a detailed HVAC
				design plan that includes air flow
				diagrams"
				10/10/10 Decade add
17.18(3)	A pharmacy shall utilize a closed	MHA/MSHP	Clarify role of Executive Director. As the major importance for both	10/18/18 Board: edit wording Strike: "approved by the Executive
17.16(3)	loop ducted system, a sealed plenum	WITA/WISHF	air supply and air conditioning is the supply entering at the ceiling, a	Director or his or her designee"
	system, or other similar	Boston	properly developed maintenance and preventative action plan is as	Briestor of mis of her designee
	contamination control system	Medical	effective. The implementation of policies and procedures managed at	Consider a grandfathering
	approved by the Executive Director	Center /	the local level is most appropriate and extremely important.	provision related to renovations or
	or his or her designee for HVAC	Horbowicz /		new builds.
	systems supplying HEPA-filtered air	Vreeland		0 11
	to ISO-classified spaces.	Manuel Andrews		Suggested language:
		Mount Auburn Hospital		Newly constructed clean rooms
		Hospital		(or similar language) shall utilize
				a closed loop ducted system, a
				sealed plenum system, or other
				similar contamination control
<u> </u>			Page <b>54</b> of <b>108</b>	

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				system approved by the Executive Director or his or her designee for HVAC systems supplying HEPA-filtered air to ISO-classified spaces
17.18(6)	A pharmacy shall conduct engineering control performance verification in accordance with USP 797 in the event of a planned or unplanned interruption of HVAC operations.	MHA/MSHP GE Healthcare Jeffry Lynch Kelly Barnes Mount Auburn Hospital Pentec	MHA: Include consideration for downtime procedures to be implemented in place of a performance verification plan. Room recovery is a mathematical calculation that can be determined in place of a validation test. Development of polices and procedure regarding planned and/or unplanned interruptions in HVAC operations can provide the same benefit and safety as performance verification. A continuity of care plan as stated in these draft regulation can be utilized to manage these situations.  GE Healthcare: Add " where the system fails to resume normal operating pressure differentials and temperatures." Normal HVAC system service may result in planned short term interruption without any negative effective on the environment and should not be require performance verification if parameters return to normal.  Lynch: Does this mean re-cert? Or HVAC vendor assessment? What is BOP definition of "interruption"?  Barnes: Change to "A pharmacy shall verify engineering control performance in accordance with the pharmacy's validated recovery time in the event of a planned or unplanned interruption of HVAC operations." This would draw distinction between having to perform full certification versus verifying the performance of PEC and SEC based on pharmacy's validated recovery time.  Pentec: This is confusing. How does Board define "performance verification"?	Strike and add to Best Practices.
17.18(7)	A pharmacy shall operate and monitor the HVAC systems that supply conditioned air to the non-	Atrius Health MHA/MSHP	This requirement should be performed by the engineering or facilities department rather than the pharmacy department.	Agree to strike.
	classified areas of the pharmacy 24 hours per day, seven days per week.	IACP	The hospital engineering departments control the HVAC, not the pharmacies.	
		Johnson Compounding	Audible alarms provide the same benefit.  Page 55 of 108	

		/ Walczyk / Fallon / Allibhani / Petrosillo  MIPA  Beth Israel  Boston  Medical Center / Horbowicz / Vreeland  Mount Auburn Hospital / NCPA / Pentec	IACP suggests removing requirement or adding "where prescription medications are handled and stored."  NCPA: Remove requirement. Requiring this level of monitoring to all non-classified areas of a pharmacy would place a costly, undue burden upon the pharmacy.  Pentec: We are unsure of the rationale behind this as retail pharmacies do not have continuous monitoring of their drug storage or non-drug storage spaces. Once daily monitoring should be sufficient for non-classified spaces. USP <797> does not speak to non-classified spaces and implementing continuous monitoring of HVAC systems in all pharmacies regardless of their practice type is unnecessary and is not supported by any current regulation, guideline, or governing body.	
17.18(8)	A pharmacy shall operate and monitor the HVAC systems that supply HEPA filtered air to ISO classified areas 24 hours per day, seven days per week.	MHA/MSHP  Boston Medical Center / Horbowicz / Vreeland  Pentec	Include exemption for hospital pharmacies. See comment above.  Recommend: "The HVAC systems that supply HEPA filtered air to ISO classified areas shall be operated at full capacity 24 hours per day, seven days per week." Pharmacy departments do not operate HVAC systems in a hospital setting.  Pentec: Need clarification, since other items in the proposed regulation already dictate that temperature, humidity, and pressures need continuous monitoring. Redundant to 17.20(3) and 17.21(4).	Clarify to: "A pharmacy shall <b>ensure that</b> the HVAC systems that supply HEPA filtered air to ISO classified areas <b>are operated and monitored</b> 24 hours"
17.18(9)	A pharmacy shall immediately assess the impact on the classified environment for any HVAC failure and implement a CAPA.	MHA/MSHP  Mount Auburn Hospital  Pentec	The development of a CAPA program is vitally important to the overall quality management program. As stated above regarding the dedicated AHU and HVAC systems for Pharmacies, the implementation of an appropriate CAPA and risk management program coupled with a solid remediation plan is as effective as the addition of a dedicated air handling unit.  Pentec: Further clarification required regarding that constitutes an HVAC "failure."	Strike and add to Best Practices document.

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17.18(10)	Each secondary engineering control	Anazao Health	Modify language to comply with current USP 797 standard and CETA	No change recommended.
	shall have ducted air returns mounted		application guide. While low wall air returns are preferred and should	
	low on the wall in order to create a		be installed with any new renovation or new build, the CETA	May apply for waiver
	general top down dilution of room air		guidelines should be sufficient for existing facilities.	
	with HEPA filtered make up air.			
			MHA: The overall ISO classification is determinate on particulate	
		A TILL A TOTAL	count regardless of return locations. Remove this provision from	
		MHA/MSHP	regulation; this should be a best practice	
		Boston		
		Medical		
		Center /		
		Horbowicz /		
		Vreeland		
		Mount Auburn		
		Hospital		
17.18(11)	Relief air vents shall be mounted low	MHA/MSHP	The overall ISO classification is determinate on particulate count	Suggested language:
	on the wall and designed to prevent		regardless of return locations. Remove this provision from regulation;	
	the ingress of less clean air or	Boston	this should be a best practice.	If utilized, relief air vents shall be
	contaminants from adjacent ISO	Medical		mounted low on the wall and
	classified space or ambient air.	Center /		designed to prevent the ingress of
		Horbowicz /		less clean air or contaminants from
		Vreeland		adjacent ISO classified space or ambient air
		Mount Auburn		ambient air
		Hospital		
17.19(1)	A pharmacy shall utilize an Institute	Pentec	We feel this proposed regulation is confusing. A type C HEPA filter	Suggest adding "to achieve at least
17.15(1)	of Environmental Sciences and	1 chice	is 99.99% efficient at 0.3 µm using a thermally generated challenge	a minimum" and word more
	Technology ("IEST") rated type C or		and then scan tested to 0.010% for individual leaks. A type K HEPA	generally.
	K HEPA filters tested to achieve a		filter is 99.995% efficient determined as the lower efficiency when	generally
	minimum of 99.97% efficiency rating		tested for particle size ranges of 0.1-0.2 and 0.2-0.3 um. The	Suggested language:
	using 0.3µm micron particle size.		designated leak for the filter is 0.008%.	
				A pharmacy shall utilize an
				Institute of Environmental Sciences
				and Technology ("IEST") rated
				type C or K HEPA filters tested to
				achieve a minimum efficiency
				rating as defined in the most
				current chapter of USP <797>.
			Daga <b>57</b> of <b>10Q</b>	

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17.19(2)	Each HEPA filter shall be leak tested using the most penetrating particle size according to the most current Controlled Environment Testing Association ("CETA") guidelines at the factory, then leak tested again in situ after installation as part of initial certification and recertification (every 6 months) and any time a HEPA filter is repaired or replaced.	MHA/MSHP	This appears to say that the room would need to be recertified after a HEPA filter is replaced even if the room passed certification with the defective filter. Is this the intention? What is the intent for the visual inspection? The HEPA filters in our PECs are protected behind metal filter guards and, therefore, cannot be visibly inspected without removing this guard which would significantly disrupt the environment and the daily workflow.	This standard applies to filter integrity tests, not certification.  Suggested language: HEPA filters must be leak tested at the factory and then leak tested again—after installation and as part of recertification and any time a HEPA filter is repaired.
17.19(3)	A pharmacy shall immediately remediate a failed HEPA filter by properly repairing or replacing the HEPA filter, recertifying the affected ISO classified area, and performing environmental monitoring in all classified areas according to the full environmental monitoring sampling map.	Dana Farber GE Healthcare	Dana Farber: If the filter in a PEC that is a BSC fails, the environmental monitoring should be limited to the PEC. If a facility ceiling filter fails, the environmental monitoring should be limited to the area likely to be affected by a single failed filter. An appropriate sampling plan for various scenarios should be developed in advance of a filter failure event – this should be based on a risk assessment developed after consultation with design engineer, certifier, microbiologist or industry hygienist. The Failed Filter Plan should be a section of the Business Continuity Plan.  GE: The requirement for environmental monitoring following a failed HEPA filter should be limited to the classified area with the failed HEPA filter.	Change to: "environmental monitoring in affected classified areas" (in accordance with the Board Advisory regarding Failed HEPA filters).  Suggested language:  A pharmacy shall immediately remediate a failed HEPA filter by properly repairing or replacing the HEPA filter, recertifying the affected ISO classified area, and performing environmental monitoring in all—the affected classified—according to the full environmental monitoring sampling map.
17.19(5)	A licensee shall visually inspect the external portion of PEC filters at least daily.	MHA/MSHP IACP	Need clarification on the extent of visual inspection. Clarify what the inspection entails.	Suggested language:  "A <b>pharmacy</b> shall have a
		Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo	Pharmacy staff is not easily able to inspect PEC filters. HEPA filters are checked routinely during recertification. If you have proper alarms set on your PEC, it will alert you if not working properly.	procedure requiring routine visual inspection of the external portion of PEC filters for signs of gross contamination and proper remediation."
		MIPA		

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Pharmacy Consulting  Dana Farber  Mount Auburn Hospital	I		1		
Consulting   Dana Farber   Mount Auburn   Hospital     17.20(2)   ISO Class 5 PEC shall include a pressure differential gauge and/or a low flow device displaying the positive pressure differential between the upstream and downstream air flow in accordance with manufacturer specifications. The pressure shall be logged daily prior to compounding. Should the PEC display a loss of pressure exceeding 10% of the last reading, compounding in the PEC shall be suspended until remediated.     17.20(3)   A pharmacy shall measure the differential pressure between each ISO-classified area with a gauge and shall document the differential pressure between each ISO-classified area with a gauge and shall document the differential medical.     17.20(3)   A pharmacy shall measure the differential pressure between each ISO-classified area with a gauge and shall document the differential medical     17.20(3)   A pharmacy shall measure the differential pressure between each ISO-classified area with a gauge and shall document the differential medical     17.20(3)   A pharmacy shall measure the differential pressure between each ISO-classified area with a gauge and shall document the differential medical     17.20(3)   A pharmacy shall measure the differential pressure between each ISO-classified area with a gauge and shall document the differential medical     17.20(3)   A pharmacy shall measure the differential pressure between each ISO-classified area with a gauge and shall document the differential medical     17.20(3)   A pharmacy shall measure the differential pressure between each ISO-classified area with a gauge and shall document the differential between the pressure between each ISO-classified area with a gauge and shall document the differential pressure between each ISO-classified area with a gauge and shall document the differential pressure between each ISO-classified area with a gauge and shall document the differential between the manufacturer, compounding in the PEC shall be suspended until remediated.     17.20(3)	1		Blaire		
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shall document the differential Medical Additional burden without proven gain. differential pressure between ear			Roston	dairy. Remove this requirement from regulation.	A pharmacy shall measure the
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				Change to "at least once doily or by a continuous recording device" in	and shall document the differential
					pressure at each location 24 hours
		continuous recording device.	Viceialiu	order to be consistent with USF 797.	L .
			Cordine!	Pantage Wa haliaya gantinyaya manitaring should be defined as sither	per day, seven days per week, at least once daily or by a continuous
Health a continuous recording system or a system that will make it clear if the recording device.			пеан		recording device.
proper pressures are not maintained over a given time period.			CE II ld	proper pressures are not maintained over a given time period.	
GE Healthcare			GE Healthcare		
			3.6		
Mount Auburn			Mount Auburn		
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			Hospital		
			-		
	15.00(1)		Pentec		
pharmacy shall mount all pressure to have a state-of-the-art facility, interior monitors can be recorded by document.	17.20(4)	Beginning January 1, 2017, a	Pentec	MHA: Adjust this to be a "Best Practice". Although it would be nice	Strike and add to Best Practices

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differential gauges for secondary engineering controls in the non-classified area adjacent to the classified areas.  Kelly Barnes properly garbed compounding staff members and prevent negative effects on the environment. Properly alarmed devices will provide awareness to staff on issue with pressurization to stem investigation.  Barnes/NCPA: Adjust date.	
classified area adjacent to the classified areas.  Mount Auburn Hospital  Barnes/NCPA: Adjust date.	
classified areas.  Hospital  Barnes/NCPA: Adjust date.	
Barnes/NCPA: Adjust date.	
NODA	
NCPA	
17.20(5) A pharmacy shall review differential MHA/MSHP Remove "pharmacy." Consideration should be made for new Clarify to:	
pressure logs and continuous IACP technology and continuous monitoring devices and alerting for out of	
monitoring device reports daily and specification results. Technology eliminates the need to have Suggested language:	
shall document the review and Johnson someone manually document reviews daily.	
response to any out of range pressure. Compounding "A pharmacy shall res	ond to any
/ Walczyk / Unexpected or egregious out of range results should be documented unexpected or prolor	
Fallon / and responded to, there are instances in which differential pressures range differential pr	
Allibhani / may be out of range that do not require response. Every time a door document the response.	
Petrosillo opens between labs, pressure differentials drop. The way this	
requirement is currently written, pharmacies would be required to keep	
MIPA a log of every time the pressure drops due to a door opening. Strike this	
requirement or modify language to require that the pharmacy respond	
Boston and document any UNEXPECTED out of range result	
Medical Medical	
Center /	
Horbowicz /	
Vreeland	
17.21(1)&(2) All ISO Classified areas shall Allegra DePietro: A maximum temperature is very restrictive and will be too Most recent <797> ve	rsion: "The
	ained at a
MHA/MSHP within the ambient drug storage temperature guidelines. temperature of 20° or	
All ISO Classified areas shall relative humidity belo	
maintain a relative humidity of 65% IACP MHA: Need to account for seasonable fluctuations in temperature and minimize the risk fo	
or less. humidity. Current facility unable to maintain low humidity without proliferation and	provide
Johnson increase temperature above 68 during the summer; may require new comfortable condit	
Compounding HVAC in order to comply. compounding personned	el attired in
/ Walczyk / the required garb."	
Fallon / This requirement should be made consistent with USP 797.	
Allibhani / 10/4/18 Board: have	
Petrosillo Cleaning often causes the humidity to rise above 65%. Committee provide gu	idance
	A 1 1
MIPA Very costly if not impossible to maintain. In this part of the country, Suggested language (for the country) Suggeste	or Advisory
it is difficult to maintain humidity under 65%, especially in an old Committee):	
Beth Israel facility.	

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		Deaconess		All ISO Classified areas shall <b>be</b>
		Medical	Dana Farber: Minimum humidity is not defined.	continuously maintained at a
		Center		temperature of 20 degrees Celsius
			Barnes: Adjust language to read "constant temperature" and	(68 degrees <b>Fahrenheit</b> ) or less.
		Boston	"constant relative humidity."	
		Medical	NO. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	All ISO Classified areas shall be
		Center /	Pentec: Remove requirement. USP 797 indicates the temperature of	continuously maintained at a
		Horbowicz /	68 is for the overall comfort of personnel performing the	relative humidity of 65% or less.
		Vreeland Cardinal	compounding, and not due to a potential negative impact on products. Requirement is unnecessary.	
		Health	Requirement is unnecessary.	
		Dana Farber /		
		Kelly Barnes /		
		Pentec		
17.21(3)	Each secondary engineering control	Cardinal	Not required by USP 797. Additional burden without proven gain.	Recommend to strike.
	shall have a probe or sensor to	Health		
	measure temperature and humidity.		Dana Farber / GE: (3) and (4) should be combined.	Spirit of proposed standard was no
		Dana Farber		portable monitoring equipment in
			Pentec: Change to – "Secondary engineering controls shall be	classified areas.
		GE Healthcare	monitored for temperature and humidity through a sensor or probe."	
		D.	The proposed regulation mandates each SEC have a separate device	
		Pentec	for monitoring. For ISO 7 and 8 rooms that share the same HVAC	
17.21(4)	A license shall document the	Cardinal	system, one monitoring device should be sufficient.  Not required by USP 797. Additional burden without proven gain.	Suggested language:
17.21(4)	temperature and humidity of each	Health	Not required by OSI 191. Additional burden without proven gain.	Suggested language.
	secondary engineering control 24	Ticarin	The requirement to monitor temperature and humidity should be	A license shall document the
	hours per day, seven days per week,	GE Healthcare	limited to areas where CSPs are prepared and "at least once daily or	temperature and humidity of each
	by a continuous record device.		by a continuous recording device."	secondary engineering control 24
		Pentec	·	hours per day, seven days per
			Pentec: Change to – "A licensee shall document the temperature and	week, at least daily or by a
			humidity of SECs at least once per work shift." Monitoring of	continuous recording device.
			temperature and humidity during hours of operation should be	
15.00(1)		T. CD	sufficient to protect integrity of SEC.	
17.22(1)	Primary and secondary engineering	IACP	Remove requirement at (c) for "altered"; this language is too vague.	Consider aligning language with
	controls shall be certified at least: (a) once every 6 months;	Johnson	Parmaci Changa to:	revised USP <797> Draft (e.g.
	(a) once every 6 months; (b) whenever a PEC is	Compounding	Barnes: Change to:	remodeling or change in
	relocated, added, or removed;	/ Walczyk /	Primary and secondary engineering controls shall be certified at least:	configuration or square footage) and add provision for
	(c) whenever the room is	Fallon /	(a) once every 6 months;	HEPA filters.
	altered; and	Allibhani /	(b) whenever a PEC is relocated <b>or altered</b> , added, or removed;	TILI A HIMIS.
L	·	,	Page <b>61</b> of <b>108</b>	

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co	immediately following any najor repair or major servicing of the empounding facility or engineering ontrols.	Petrosillo MIPA Barnes	<ul> <li>(c) whenever the room is relocated or altered; and</li> <li>(d) immediately following any major repair or major servicing of the compounding facility or engineering controls.</li> <li>(e) whenever a HEPA filter(s) is/are repaired or replaced.</li> </ul>	Revised USP <797> Draft: Classified areas must additionally be recertified if there are changes to the area such as redesign, construction, or replacement or relocation of any PEC, or alteration in the configuration of the room that could affect airflow or air
				quality.  Suggested language:  Primary and secondary engineering
				controls shall be certified at least:  (a) once every 6 months;  (b) whenever a PEC is relocated, added, <b>replaced</b> , or removed;  (c) whenever the room
				is altered remodeled or upon a change in configuration or square footage; and (d) immediately following any construction or major repair or major servicing of the compounding facility or
				engineering controls.  10/18/18 Board: accept as above
co	ompleted in its entirety within a 72 pur time period. Certification	MHA/MSHP IACP NCPA	Remove the temperature and humidity test, as it is not necessary and is only optional under CETA guidelines.	Suggested language:
tes (a) (b) (c) (d)	esting includes:  a) airflow and velocity test; b) airflow smoke pattern test; c) room pressurization test;	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo	Remove the "airflow smoke pattern test." There is no evidence showing this requirement is necessary and it is an optional test under CETA guidelines.  Beth Israel: Is requirement at (e) to conduct a leak test overkill? If using magnhelixes, do you really need the smoke test?	"Certification testing shall be conducted in accordance with the most recent version of USP <797>. The certification testing shall be completed in its entirety within a 72 hour time period."
(e)	e) HEPA filter leak test;		Page 62 of 108	

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	(f) industing last and hast	MIDA	Dana Fasham (b) tamanantana and hamidita ahamid ha ahamid daila	Consider an arrival to the second
	(f) induction leak and back	MIPA	Dana Farber: (h) temperature and humidity should be checked daily	Specific required tests can be
	streaming test;	D - 41	to ensure it is comfortable for staff wearing PPE.	included as part of variable
	(g) airborne non-viable particle	Beth Israel	Wally Damage adjust (a) to mad "maam massaymization toot including	alternating inspection criteria.
	counting, conducted under dynamic	Deaconess	Kelly Barnes: adjust (c) to read "room pressurization test, including	10/10/10 D 1
	operating conditions; and	Medical	recalibration of all gauges;"	10/18/18 Board: accept as above
	(h) temperature and humidity	Center	NODA D	
	test.	<b>D D</b> 1	NCPA: Remove requirement. There is currently no evidence that	
		Dana Farber	smoke studies improve quality, and this is an optional test within	
			CETA requirements. This could place a costly, undue burden upon	
		Kelly Barnes	the pharmacy.	
		Mount Auburn		
		Hospital		
17.22(3)	In the event a primary or secondary	MHA/MSHP	<b>Recommendation:</b> Instead of stopping compounding completely, put	This section refers to activities
	engineering control requires major		a 12 hour time frame (commonly used in practice today), to prevent	around major repair/service and
	repair or major servicing, a pharmacy	IACP	pharmacies from having to shut down any action level. It has been	requires a Renovation/Expansion
	shall stop compounding and may not		proven that you are bound to and should get positive results by having	application in accordance with
	resume compounding until:	Johnson	ISO 7 negative pressure adjacent anteroom and a sink.	Board advisory.
	(a) the repair or service is	Compounding		
	complete;	/ Walczyk /	Clarification requested:	For Board discussion: (c)
	(b) the affected engineering	Fallon /		
	control has been certified; and	Allibhani /	1. It can take up to 7 days before the viable results of the	From Major Repair Advisory:
	(c) environmental monitoring	Petrosillo	environmental monitoring are available. Many hospitals	Major Repair / Major Service is
	results in the affected engineering		would not be able to function for a full week without	defined as significant
	control within USP <797> action	MIPA	operating clean rooms.	modifications, repairs, or service to
	levels are obtained.		2. If a facility followed the repair with an intensive cleaning and	the compounding pharmacy that
		Boston	disinfecting of the area and an environmental testing, is it	may not affect the floor plan but
		Medical	necessary to wait the 7 days before compounding can	may result in changes to airflow
		Center /	resume? The re-test could immediately confirm that the	dynamics and / or the generation of
		Horbowicz /	HEPA filters and PECs are working properly and the particle	environmental contaminants.
		Vreeland	counts are within range for the room ISO classification(s).	
			3. In the event of an unscheduled down time, it could take many	10/4/18 Board: strike all of
		Dana Farber	days before it is possible to arrange for a testing company to	17.22(3)
			arrive on site. This delay could push out the ability to use the	` '
		GE Healthcare	clean room to up to 2 weeks. In the event that one of the ISO	
			5 SEC needed to be repaired, would the entire room need to	
		Jeffery Lynch	be shut down or can compounding continue in other ISO 5	
			SECs?	
		NCPA		
			BMC: Pharmacies should have a plan for unplanned PEC and SEC	
			Page <b>63</b> of <b>108</b>	

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		Pentec	malfunction, which may or may not require a complete stop in compounding. We agree that if a PEC fails, compounding in that PEC should cease until repairs are made and recertification is complete. However, compounding in other PECs in the same room can continue with implementation of a 12 hour BUD (commonly used in practice today), to prevent institutional pharmacies from having to shut down. While retail businesses may be able to completely cease operations, hospitals must have flexibility to continue to provide medications for acutely ill patients.  Dana Farber: Need further clarification. For example, advice that parallels 17.28.  GE / Lynch: Need to clearly define major repair and major service.  NCPA: Remove requirement. Environmental monitoring results could take up to 7 days to be obtained and halting all sterile compounding for this length of time could place an undue burden upon patients and the pharmacy.  Pentec: The way the proposed regulation currently reads, all compounding would have to cease if one of multiple PECs needs repair. We are unsure if this was the intent of the Board or if the regulation needs further clarification for pharmacies. We believe the PEC that requires repair should be removed from production for servicing while all other PECs and secondary engineering controls are	
17.22(6)		A	still freely utilized for compounding.	
17.22(6)	A pharmacy shall verify the maximum number of compounding personnel simultaneously capable of working in a buffer room or buffer	Atrius Heath MHA/MSHP	Atrius: It is unclear how pharmacies are to determine the maximum number of compounding personnel simultaneously capable of working in a buffer room. Need clarification.	Strike and add to Best Practices.
	space without disrupting ISO classification at least once per year. The verification procedures shall	IACP Johnson	MHA: Remove this section. Regular certification process already delineated in 17.00.	
	include non-viable air, viable air, and	Compounding	CETA does not provide guidelines for this. Certification occurs based	
	surface sampling.	/ Walczyk /	on the people, activities and conditions of the room at the time of	
		Fallon / Allibhani /	certification. In the past, when asked, CNBT certifiers have stated they cannot provide a maximum number of people to us because it depends	
		Petrosillo	on the materials and activities going on in the room. It will be very	
		2000000	difficult for pharmacies to comply with this regulation, which required	
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		MIPA	cooperation of the CNBT certifiers.	
		WIII A	cooperation of the CND1 certifiers.	
		Mount Auburn	Pentec: Yearly validation without a change to the square footage of the	
		Hospital /	area is not necessary and places an additional financial burden on the	
		Pentec	pharmacy.	
17.23	Sterile Compounding Facility;	IACP	Remove this section entirely. There is no evidence that this improves	See below
	Smoke Studies		quality and secondary engineering control smoke tests are not required	
		Johnson	by FDA or CETA. No mention of SEC smoke tests in USP 797.	
		Compounding		
		/ Walczyk /	There is no definition for a "failed smoke study," which could result	
		Fallon /	in subjective interpretation.	
		Allibhani /	If this section is not removed, at least strike (7), "a pharmacy shall	
		Petrosillo	initiate an investigation and develop and implement a CAPA in	
			response to a failed smoke study."	
		MIPA		
		D E 1	Dana Farber: Smoke studies are unquestionable demonstrations of	
		Dana Farber	appropriate ventilation controls.	
		NCPA	NCPA: Remove requirement. There is currently no evidence that	
		NCFA	smoke studies improve quality, and this is an optional test within	
			CETA requirements. This could place a costly, undue burden upon	
			the pharmacy.	
17.23(1)	A pharmacy shall conduct a smoke	MHA/MSHP	Remove section entirely. No evidence smoke study improves quality.	Consider edits:
, ,	study of primary and secondary		SEC smoke tests are not required by current USP 797 or proposed	(1) A pharmacy shall conduct a
	engineering controls:	Boston	new USP 797.	smoke study of primary and
	(a) upon initial certification;	Medical		secondary engineering controls:
	(b) annually at recertification	Center /	Dana Farber: Smoke studies have an impact on compounding	(a) of all primary and secondary
	for secondary engineering controls;	Horbowicz /	operations, so the repetition of the test should be limited to instances	engineering controls upon initial
	(c) at least each certification for	Vreeland	when smoke study data will add value to the state of control. For	certification;
	PECs; and		example, when new procedures are conducted or new equipment is	(b) annually at recertification for
	(d) immediately following any	Dana Farber	added. Repeat tests should be scheduled for cause.	secondary engineering controls;
	major repair or service, movement of			(c) at least with each PEC
	engineering control, or addition or	Kelly Barnes	Barnes: Adjust (c) and (d) as follows –	certification or recertification for
	permanent removal of equipment	3.6	(c) at least <b>at</b> each certification for PECs; and	PECs; and
	located within the PEC.	Mount Auburn	(d) immediately following any major repair or service,	(d) immediately following any
		Hospital	<b>relocation</b> of engineering control, or addition or permanent removal	major repair or service, movement
			of equipment located within the PEC;  (a) Any other repair or service that may impost sinflay dynamics	of engineering control, or addition
			(e) Any other repair or service that may impact airflow dynamics.	or permanent removal of equipment located within the
				primary engineering control.
			Page <b>65</b> of <b>108</b>	primary engineering control.

17.23(2)	A pharmacy shall conduct a smoke study:  (a) to verify unidirectional airflow, sweeping action over and away from the critical compounding area, and interface with compounding personnel for each PEC;  (b) to verify a general top-down dilution of room air with HEPA-filtered make-up air and sweeping action to the low wall mounted returns for each secondary engineering control;  (c) around all openings, doorways, and pass-throughs to confirm positive pressure or negative pressure; and  (d) around compounding equipment to confirm air flow.	MHA/MSHP  Boston Medical Center / Horbowicz / Vreeland  Dana Farber  Mount Auburn Hospital	Remove section entirely. No evidence smoke study improves quality. SEC smoke tests are not required by current USP 797 or proposed new USP 797.  Need clarification on (b) – it would have to be done in sections at larger facilities. Also, (2)(b) should not be required to be repeated annually; it should be required when troubleshooting failed certification or loss of state of control.  Limit requirement to primary engineering controls.	immediately following the remodeling or change in configuration or square footage of any secondary engineering control; and  (e) upon the addition, permanent relocation, or permanent removal of any equipment located within the primary or secondary engineering control.  Note: (e) would include a PEC as equipment.  10/4/18 Board: accept above recommendations Tim/Patrick all  Strike and include information in a guidance document on smoke studies.
17.23(5)	A pharmacy shall video record a smoke study of each primary and secondary engineering control at least once per year.	Pentec	Limit requirement to primary engineering controls.	Include as best practice.

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17.23(6)	A pharmacy shall document the results of each smoke study.	Pentec	Need clarification about the type of documentation Board will require.	Suggested language: "A pharmacy shall ensure that a description and result of each smoke study conducted are documented in the certification report."
17.23(7)	A pharmacy shall initiate an investigation and develop and implement a CAPA plan in response to a failed smoke study.	Edward Fallon	There is no definition for a "failed smoke study". This will cause great confusion and determination will be left in the hands of the inspectors and/ or the certifiers.	Strike and add to guidance document.
17.24	Environmental Monitoring	Beth Israel Deaconess Medical Center Dana Farber Kelly Barnes NCPA Partners Healthcare	Requirements regarding environmental monitoring are unnecessary, costly, and not realistic.  Dana Farber: Insert the word "ensure" in some sections, since third party certified vendors may do the viable monitoring.  Barnes: Relocate provisions (13) – (16) to a different section, as they do not pertaining to environmental monitoring.  NCPA: Align this section with USP 797.  Partners: Adding daily environmental testing in addition to the product testing for these preparations will require more time, resources, and space that does not exist in the hospital setting. Increased environmental monitoring can result in increased contamination or false positive results. Many hospitals use an outside vendor to perform the environmental monitoring. In the current market, the supply of vendors would not meet the demand of hospitals and the new requirement of daily monitoring. In addition, there is no evidence-based literature that shows a correlation between daily environmental monitoring and infection rates.	Agree to make these edits.  Agree to relocate sections.
17.24(1)	A pharmacy shall develop an environmental monitoring sampling plan in conjunction with a qualified professional such as a microbiologist, industrial hygienist, or infection control professional.	Cardinal Health BioScrip	Cardinal: A pharmacist should be considered a qualified professional.  BioScrip: Burdensome and unnecessary if the compounder follows authoritative scientific and regulatory guidance.	No change recommend.  Language does not limit "qualified professionals".
17.24(2)	A pharmacy shall conduct viable air and surface sampling for bacterial and fungal organisms.	Cardinal Health	Radiopharmaceuticals are expressly called out in USP 797 as being low risk CSPs. The use of fungal specific media such as MEA is only required when performing high risk level compounding.	Comment is not applicable to this section.

				All nuclear pharmacy issues, including licensing, will primarily be addressed in 247 CMR 13.00 with linkages to other sections as required.
17.24(7)	A pharmacy shall conduct environmental monitoring of each	MHA/MSHP	Please define "significant change in staffing or workload."	Agree to strike: (j)
	primary and secondary engineering control:  (a) as part of a routine environmental monitoring program and in accordance with 247 CMR 17.24(8);  (b) as part of the commissioning	Johnson Compounding / Walczyk / Fallon / Allibhani /	IACP: The language at (g), (h), and (j) is extremely vague and subjective. Remove requirements and replace with "as required to determine the root cause of a contaminated CSP."  In (h), remove "defect or". Defect is not defined; could be potency, container defect, incorrect ingredient, etc.	Consider these edits: (d) immediately following any planned or unplanned interruptions of HVAC operations lasting longer than 4 hours;
	and certification of new facilities and equipment; (c) immediately following any repairs or servicing of facilities and equipment; (d) immediately following any planned or unplanned interruptions of HVAC operations lasting longer than 4 hours; (e) immediately following addition, removal, or relocation of a PEC;	Petrosillo MIPA Cardinal Health Pentec BioScrip	Requirement at (j) is subjective and broad. Why would change in staffing or workload trigger environmental monitoring?  Pentec: Section (d) should apply to primary engineering controls and the buffer area only. We do not feel it is needed to extend this testing to the anteroom. In addition, we would like to understand the source of the 4 hour limit. USP and cGMP mention nothing related to this time limit, we would like to request the evidence to support this cutoff. For planned or unplanned interruptions lasting less than 4 hours the proposed regulation, as is, is suggesting no EM needs to be performed.	(g) in response to identified problems with staff technique trends such as repeated failed gloved fingertip tests or media fills;  (h) in response to an actual or suspected defect or contaminant of-a contaminated CSP or potential patient infection;  10/4/18 Board:
	(f) as part of the re-certification of facilities and equipment; (g) in response to identified problems with staff technique;		Pentec: Section (g) – we do not believe secondary engineering controls need testing if a staff is identified as having concerns with aseptic technique.	-Strike (d) -Strike (j) -Accept above changes to (h) -Strike (g)
	(h) in response to an actual or suspected defect or contaminant of a CSP or potential patient infection;		BioScrip: Section (j) – Since the regulation requires that the compounder defines "dynamic operating conditions" in party by noting the number of compounding operators present at the time of	Suggested language:
	(i) in response to an above action level environmental monitoring result or adverse environmental monitoring trend; and		testing, this has already been established. Any changes to staffing levels or compounding load should be at the discretion of MOR.	A pharmacy shall conduct environmental monitoring of each primary and secondary engineering control:
	(j) in response to a sudden or significant change in staffing or workload.		Page <b>68</b> of <b>108</b>	(a) as part of a routine environmental monitoring program and in accordance with 247 CMR

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	17.24(8);
	(b) as part of the
	commissioning and certification of
	new facilities and equipment;
	(c) immediately following
	any <b>construction</b> , repairs or
	servicing of facilities and
	equipment;
	(d) immediately following
	any planned or unplanned
	interruptions of HVAC operations
	lasting longer than 4 hours;
	(include in Best Practice / Board
	Advisory)
	10/18/18 Board: refer to policy for
	interruptions greater than 4 hours;
	overarching requirement in another
	section; 17.13(12)
	(e) immediately following
	the addition, removal,
	replacement, or relocation of a
	PEC;
	(f) as part of the re-
	certification of facilities and
	equipment;
	(g) in response to identified
	problems with staff technique;
	(h) in response to an actual or
	suspected defect or contaminant
	of-a contaminated CSP or potential
	patient infection;
	(i) in response to an above
	action level environmental
	monitoring result or adverse
	environmental monitoring trend;
	and (Note: requirement for EM
	to be covered in Board Policy)
	(j) in response to a sudden or
<u> </u>	(j) in response to a studen or

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				significant change in staffing or
				workload
17.24(8)	At minimum, a pharmacy shall	MHA/MSHP	MHA: Remove this requirement. This requirement does not appear to	EM may be performed by any
	conduct routine environmental		be evidence-based and is not required by 797. Non-viable and viable	qualified personnel.
	monitoring of each primary and	IACP	air sampling monthly poses as a significant financial burden	
	secondary engineering control at the		especially for smaller operations.	Consider removal of "day of"
	following intervals:	Johnson		testing and other changes below:
		Compounding	MHA: Due to 3-4 high risk compounded ophthalmic preparations	1) Viable and Non-Viable
	(a) low and medium risk level CSPs	/ Walczyk /	that serve a critical patient need, the institution will be required to	Air:
	that are assignment standard room or	Fallon /	conduct extensive environmental monitoring. An additional FTE will	- <b>Quarterly</b> for
	refrigerated temperature BUDs	Allibhani /	be required to satisfy these conditions. Additionally, technicians with	low/medium risk
	(a) high sigh lessel CCDs	Petrosillo	the skillset to conduct this level of monitoring are very difficult to	- <b>Monthly</b> for high risk
	(c) high risk level CSPs	MIPA	find in the greater Boston area. The institution will be forced to invest in additional monitoring equipment and will incur significant	2) Viable Surface: monthly
	(d) high risk level CSPs with	MIFA	monitoring costs. Costs to the patient will be increased to account for	9/6/18 Board: vote to approve 1 and
	extended BUDs, and high risk level	Blaire	the increased overhead.	2 above: Tim/Patrick (all)
	intermediate or stock solutions:	Pharmacy	the increased overhead.	2 above. Tim/Taurek (air)
	intermediate of stock solutions.	Consulting	IACP: The frequency of environmental monitoring under this	Suggested language:
		6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	regulation will be too much and will greatly interfere with hospital	2 188 11 2 11 11 11 11 11 11 11
		Boston	and pharmacy operations. The requirement is not evidenced based	A pharmacy engaged in
		Medical	and is not required by USP 797. The frequency proposed would	compounding low or medium risk
		Center /	require some pharmacies to perform environmental monitoring on a	level CSPs shall conduct routine
		Horbowicz /	daily basis.	viable and non-viable air
		Vreeland		environmental monitoring of each
			This provision will greatly interfere with pharmacy operations and	primary and secondary engineering
		Boulevard	result in operating costs that far exceed what any company could	control at least quarterly.
			afford, potentially eliminating an organization's ability to perform	
		Cardinal	sterile compounding.	A pharmacy engaged in
		Health		compounding high risk level CSPs
		D Fl	Recommendation: frequency of environmental monitoring should be	shall conduct routine viable and
		Dana Farber	in compliance with USP 797.	non-viable air environmental monitoring of each primary and
		GE Healthcare	Blaire: Proposed Environmental monitoring requirements far exceed	secondary engineering control at
		OL Healthcare	USP requirements and pose economic and workflow constraints for	least monthly.
		Kelly Barnes	sterile compounding facilities. These requirements are more aligned	least monthly.
		Tiony Dames	with cGMP regulations. Cost of equipment and testing media may	A pharmacy engaged in
		NCPA	become overly burdensome, so much so as to force sterile	compounding low, medium, or high
			compounding pharmacies to close their doors.	risk level CSPs shall conduct
		Pentec		routine viable surface (sampling)
			Boulevard: Daily environment testing seems very excessive. We	environmental monitoring of each
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	would like to know what the scientific rationale behind these proposed requirements is. Currently our facility spends \$15,000-\$20,000 per year on environmental testing and certification of cleanrooms. If these regulations pass the way they are, it would cost the pharmacy between \$85,000 and \$100,000 for the same services. Being one of the two pharmacies that provides high-risk sterile prescriptions, we would be forced to discontinue our sterile operation.  Cardinal: This frequency of environmental monitoring differs from USP 797 and is unnecessary for preparation of FDA approved, low risk level CSP radiopharmaceuticals with BUD less than 24 hours.  Dana Farber: On (a), would recommend quarterly sampling for low and medium risk level CSPs that are assignment standard room or refrigerated temperature BUDs.  GE: Environmental monitoring requirement for low and medium risk level CSPs that are assignment standard room or refrigerated temperature BUDs should be once per quarter.  Barnes: On the table for (8)(a), change "PEC used for compounding" to "all PECs."  NCPA: The frequency proposed could require sterile compounding pharmacies to perform daily environmental monitoring. This level of monitoring would result in greatly increased operating costs. There is no evidence of benefit for this testing frequency.  Pentec: Performing non-viable air sampling prior to compounding would not be considered dynamic sampling, it would be static sampling. We believe dynamic sampling should be performed to assess the particulates personnel are producing during actual production.  Pentec: We believe the requirement to perform environmental surface monitoring each day high risk compounds are performed is excessive, and we believe once monthly is appropriate for these compounding circumstances. USP does not separate how often sampling should be performed based on the risk level, although we do agree with the Board that increased sampling should occur for facilities performing high risk compounding. We feel monthly	primary and secondary engineering control at least monthly.
<u> </u>	Page <b>71</b> of <b>108</b>	•

17.24(9)	Environmental monitoring samples shall be collected in the following order: ISO Class 5, then ISO Class 7, and then ISO Class 8.	Blaire Pharmacy Consulting	environmental monitoring is appropriate for pharmacies performing high risk compounding. For pharmacies only performing low and/or medium risk compounding we feel they should be required to adhere to USP <797> sampling standards of every 6 months or possibly increase the frequency to every 3 months if the Board so desires.  Need definition of "extended BUDs."  Southcoast: This regulation does not specify whether the monthly environmental testing is required to be performed by a third party vendor or as in house testing. If required to contract with a third party, hospital pharmacies will incur high costs. Also, we must consider that certification companies will not be able to meet the increased demand for testing services in the state if every hospital pharmacy requires a monthly environmental monitoring performed by third party.  BioScrip: The frequency of testing should be aligned with USP 797. These additional intervals are burdensome.  How does the Board intend to inspect for and enforce this regulation?	Recommend to strike.  Process to be included in EM sampling plan (method of
17.24(10)	Personnel that perform environmental monitoring shall be qualified and shall demonstrate competency and proficiency in all sampling techniques including media selection, media preparation, sample collection, incubation protocols, identification of positive results, proper handling of samples for contracted lab distribution, and proper disposal of sampling plates.	MHA/MSHP BioScrip	MHA: Include considerations for hospitals that routinely use microbiologists to incubate, identify positive results, and dispose of plates. The regulations need to reflect and take into consideration if facilities are already employing staff that provides these services so that we are not adding to the overall costs to operate pharmacy.  BioScrip: The Board has not provided sufficient detail for the personnel that perform environmental monitoring; a thorough assessment of these requirements cannot be accessed. However, since this testing is a simple gross collection of samples, competent pharmacy personnel can be trained to function this way. Requiring a third party or some other specialized provider here would add cost and not value to this process.	collection).  Consider edit: Suggested language:  Personnel that perform environmental monitoring shall be qualified properly trained and shall demonstrate competency and proficiency in all sampling techniques. including media selection, media preparation, sample collection, incubation protocols, identification of positive results, proper handling of samples for contracted lab distribution, and proper disposal of sampling plates

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				This does not restrict to third party testers.
17.24(11)	Qualified personnel that perform environmental monitoring shall utilize proper equipment and shall	BioScrip	The equipment used for these collections is well within the competency of pharmacy personnel, especially if advised by the provider or manufacturer of this basic equipment.	Consider: Suggested language:
	demonstrate competency in the use of that equipment.			"Personnel that perform environmental monitoring shall utilize proper properly maintained and calibrated equipment and be trained and demonstrate competency in the use of that equipment."
17.24(13)	If a pharmacy has a water purification system, the pharmacy shall also test source water and water	IACP Pentec	Clarify language. The regulation does not indicate an acceptable test method nor acceptable microbial limits for tested water.	Barnes suggests moving (13) – (16) to section 17.13
	at point of use for microorganisms quarterly or in accordance with manufacturer specifications.	rentec	Pentec: We feel the need to test the source water and the point of use water is unnecessary as the only water that actually may add additional microorganisms into an anteroom is the source water. We believe an initial semiannual test of the point of use water followed by an annual test would be sufficient and well above the standard as the need for a water filtration system is not required in a 503A pharmacy by USP <797>.	Strike (13) – (16) and add to best practice document.
17.24(16)	A pharmacy engaged in high risk level compounding shall have a water purification system for water supplied to the sink used for handwashing.	IACP Pentec	Strike provision. It is not clear what evidence was used to determine that the proposed requirements of (16) are adding any value to prevent microbial contamination, or why the requirements of (16) should only be applicable to the handwashing water used by personnel conducting high risk level sterile compounding versus other sterile compounding risk levels.	Strike (13) – (16) and add to best practice document.
			Pentec: Pentec was unable to identify a water purification system currently on the market that that can be used with hot water, only systems that work with cold water or systems that filter and store the water which upon use is therefore room temperature. USP <797> states you need to wash your hands with warm running water and MA regulations require hot and cold running water in pharmacies for handwashing. We respectfully request the Board provide guidance on a system that will meet all the necessary requirements.	
17.24(17)	A pharmacy shall incubate environmental monitoring samples at	MHA/MSHP	Pharmacies should incubate EM samples based on manufacturer instructions for sampling kits.	Consider clarifying to: "in accordance with USP and

	the following temperatures:	Boston		manufacturer guidelines."
	are ronowing temperatures.	Medical	Environmental monitoring of samples should be based on the	manaracturer guidennes.
		Center /	instructions supplied by the manufacturing instructions and should	Suggested language:
		Horbowicz /	align with current evidence based standards found in the current or	A pharmacy shall incubate
		Vreeland	proposed USP 797. It is unnecessary to provide this level of	environmental monitoring samples
		Vicciana	procedural detail in a statutory regulation.	in accordance with USP and
		Mount Auburn	procedural detail in a statutory regulation.	manufacturer guidelines.
		Hospital		manufacturer guidennes.
17.24(19)	A pharmacy is responsible for	Beth Israel	BI: This provision is too costly. Recommend sending out samples	Strike and include in policy.
17.2.(17)	ensuring that all Staphylococcus	Deaconess	for identification if the trends are in the upward direction, maximum	same and merade in pendy.
	organisms are identified as coagulase	Medical	every 4 months.	
	positive or negative.	Center	every i monais.	
	positive of negative.	contor	Pentec: Requirement should be limited to organisms recovered from	
		Pentec	an ISO 5 PEC or ISO 7 buffer room and should not include anterooms	
			unless sampling exceeds action limits. The intent of an anteroom is to	
			sequentially apply sterile layers to prevent any organism from	
			entering the ISO 7 area and in turn the ISO 5, therefore you will find	
			more growth and from a variety of sources within the anteroom.	
			Unless the action limits per USP <797> are exceeded we do not feel	
			growth occurring within an anteroom should be seen as an immediate	
			threat to the health of a patient.	
17.24(20)	A pharmacy shall utilize a two plate	MHA/MSHP	Allow for the incubation of one media at two temperatures or the	Recommend for high risk only;
, ,	method for collection of viable air		utilization of two types of media. For example, an FDA approved kit	Otherwise, best practice.
	and surface samples. One plate shall	IACP	to conduct surface sampling would not be allowed under this	•
	be a general growth medium and the		regulation.	Suggested language:
	other plate shall be a medium that	Johnson		
	specifically supports growth of	Compounding	This level of detail is too specific for a regulation.	A pharmacy engaged in high risk
	fungus.	/ Walczyk /		compounding shall utilize a two
		Fallon /		plate method for collection of
		Allibhani /		viable air and surface samples. One
		Petrosillo		plate shall be a general growth
				medium and the other plate shall be
		MIPA		a medium that specifically supports
				growth of fungus.
		Boston		_
		Medical		
		Center /		
		Horbowicz /		
		Vreeland		
		Mount Auburn		

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		Hospital Pentec		
17.24(21)	A pharmacy that has qualified internal personnel collect environmental monitoring samples shall validate sampling procedures at least once every six months through a qualified third-party vendor.	IACP  Beth Israel Deaconess Medical Center  Ge Healthcare Pentec	Extremely subjective regarding what is sufficient evidence that a pharmacy has qualified a third-party vendor. It's also extremely unclear what is needed by that vendor to validate the pharmacy's sampling procedure. Clarify what is meant by "validate sampling procedures" and what a "qualified third-party vendor" is.  This is too costly.  GE: Delete this requirement. It is unclear how a third part vendor would "validate" sampling procedures. If an outside party sampling is the goal of the rule, it should be stated this way and an annual frequency should be sufficient to ensure qualified internal personnel are sampling properly.  Pentec: We believe this should only be required if pharmacy personnel have not been qualified or trained in sampling procedures and are performing the pharmacy's environmental monitoring. We feel if there is a qualified microbiologist/EM department on staff that either performs the sampling or trains pharmacy personnel to appropriately perform the sampling this should not be required.	Strike and add to best practices.
17.24(22)	A pharmacy shall obtain a "Growth Promotion Certificate" for environmental monitoring plates to validate that the media is able to support microbial growth.	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Change to "growth promotion certificate or similar" documentation.  Different manufacturers use different terms.	Agree to change.  Suggested language:  A pharmacy shall have documentation such as a "Growth Promotion Certificate" or similar documentation for environmental monitoring plates to validate that the media is able to support microbial growth.
17.24(23)	A pharmacy shall utilize plates intended for environmental monitoring and may not utilize plates intended for research-only	IACP	As written this proposed regulation would require pharmacies to somehow obtain plates labeled "For environmental monitoring". If there is a concern about specific differences in environmental monitoring plates versus research plates, those specifications should be described. Remove requirement.	Strike and add to best practices.
17.25(1)	A pharmacy shall collect air samples	IACP	Clarify when this requirement is applicable, as it conflicts with non-	No change.

	under dynamic conditions.		viable air sampling requirements in 17.24(8) which specify "prior to	Changes are recommended for
			compounding", which indicate static conditions.	17.24(8) (EM frequency)
17.25(5)	The minimum volume of a viable air sample at each sampling location is 1000 liters.	Dana Farber	USP 797 allows 400 to 1000 samples for ISO 7 and ISO 8.	No change recommended. New draft of 797 requires 1000ml
17.27	Environmental Monitoring; Action Levels	NCPA Partners Healthcare	Align this section with USP 797.  Partners: Any time an abnormal result occurs, the best practice is to have a plan in place and to document all specifics of the event including the microbiology report and remediation plan. Clinical microbiology and environmental microbiology differ in that one identifies the treatment of an infection while the other is to remediate a quantifiable value. Many hospitals must use an outside microbiology lab because the clinical labs are not equipped to measure or report the results of environmental microbiology testing. The turn-around time for results from an outside vendor is typically much longer than performing testing on-site. A root-cause analysis is a lengthy process that involves exploring all avenues to determine the reason for the excursion. Often times in the hospital setting, there is a high level of bio-burden alongside many variables that might be a contributing factor to abnormal results. The depth of reporting and short turnaround time for submission to the Board is not easily attainable by a hospital. It is also not clear as to the turnaround time for communication from the Board back to the hospital pharmacy. If the Board will have comments, questions or directives regarding the abnormal results, the pharmacy would need a timely response to ensure no interruption to direct patient care.	Suggested language:  "A pharmacy shall take immediate remedial actions in the event upon notification of environmental monitoring results exceeding action levels."
17.27(3)	Non-Viable Air Sample Action Levels	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Change requirements to match USP 797 standards. Use "greater than" rather than "greater than or equal to."	9/6/18 Board: Defer to USP levels. Create policy to address remediation (delete 17.28, but keep reporting requirements) and highly pathogenic organisms.  Suggested language change throughout per USP <797> revised: "nonviable airborne particle"
17.27(4)	Viable Air Sample Action Levels	MHA/MSHP	Remove the "greater than or equal to" sign and replace with "greater	Suggested language:
1 / / ///1	i vianie Air Samnie Action Levels	I WIHA/WINHP	Remove the prester than or edital to ston and replace with "orester	Niiggesied langilage.

		•	<del>-</del>	
			than" sign. Placing the action level at 1 CFU is inconsistent with USP	
		IACP	797. Additionally, expectation of 0 CFU is not realistically	(3) Except for highly
			attainable. This will result in unnecessary and burdensome reporting	pathogenic microorganisms,
		Johnson	for and unnecessary additional work for the Board.	environmental monitoring action
		Compounding		levels for Non-Viable Air, Viable
		/ Walczyk /	Pentec: We believe this proposed regulation is not realistic for	Air, and Viable Surface samples
		Fallon /	anterooms and that action levels related to highly pathogenic	shall be in accordance with the
		Allibhani /	organisms should be limited to ISO Class 5 and ISO Class 7 buffer	most current chapter of USP
		Petrosillo	rooms as growth within an anteroom is expected as it's the intent of	<797>.
			the room. Though there is variability in USP for action levels of air	
		MIPA	viable and surface sampling, consistency amongst action limits will	(4) Add highly pathogenic
			reduce the risk of confusion and a potentially missed above action	organisms to policy. Keep general
		Boston	level sampling.	OOC language in reg.
		Medical	10.	
		Center /		Define in section 2 as well as
		Horbowicz /		policy: "highly pathogenic
		Vreeland		microorganisms, including gram-
		Vicciana		negative rods, coagulase positive
		Partners		staphylococcus, molds, and yeasts,
		Healthcare		regardless of CFU count"
		Ticarricare		regardless of CFO count
		Pentec		9/6./8 Board: Patrick/Kim
		Tentee		7/0./6 Board. Tauren/Kim
				11/1/18 Board: Added charts
				with numbers listed in revised
				USP.
17.27(5)	Surface Sample Action Levels	MHA/MSHP	Same comment as above, 17.27(4).	See above.
17.27(3)	Surface Sample 7 etion Levels	IACP /	Same comment as above, 17.27(4).	See above.
		Johnson		11/1/18 Board: Added charts
		Compounding		with numbers listed in revised
		/ Walczyk /		USP.
		Fallon /		CDI.
		Allibhani /		
		Petrosillo /		
		MIPA /		
		Boston		
		Medical		
		Center /		
		Horbowicz /		
		Vreeland /		
		vicciallu /	Daga 77 of 100	

		Partners Healthcare /		
17.28	Environmental Monitoring; Remediation of Above Action Level Environmental Monitoring Results	Pentec IACP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo  MIPA  NCPA	While outlining expected pharmacy activities in response to environmental results that have exceeded action levels, this proposed regulation is extremely unclear as to purpose, role, and benefit of the Board's involvement. The reporting requirements of 17.28(2) and (3) would seem to impose additional liability risk to the Board unless acted upon within a specified time frame.  Indicate whether or not some or all of this section applies to non-viable and viable environmental sampling results.  Indicate whether or not Board approval of a remediation plan is required prior to a pharmacy implementing such plan. If Board approval is required, indicate the time frame within which the Board must respond to pharmacy with their approval/denial.	Reporting requirement is already in place is a requirement in existing and proposed reporting regulations.  24 hour requirement will provide Board with initial notification rather than waiting until the day after a pharmacy receives environmental monitoring report.  Board approval of remediation plan not required. Include statement in Board policy along with documentation requirement.
			NCPA: Align this section with USP 797.	USP <797> does not provide specific guidance for remediation.  9/6/18 Board: Delete and defer action to Board policy. Tim/Sebastian  "A pharmacy shall respond to and remediate AAL in accordance with Board policy."
17.28(4)	A Pharmacy shall immediately assess above action level environmental monitoring results and may not prepare any CSPs until a remediation plan is developed and implemented in accordance with "Board Policy 2015-xx: Response to Above Action Level Environmental Monitoring Results."	Dana Farber	Recommend specifying "remediation plan for the affected area" based on a risk assessment. Depending on the location of the above action level environmental sample, other areas of the facility may be able to function appropriately, which would avoid unnecessary delay in providing compounded products.	Agree with recommendation:  Suggested language:  A Pharmacy shall immediately assess above action level environmental monitoring results and may not prepare any CSPs until a remediation plan for the affected area is developed and-implemented, in accordance with "Board Policy.—

				xx: Response to Above Action Level Environmental Monitoring Results.
17.28(6)	A pharmacy shall engage the assistance of qualified personnel, such as a microbiologist, infection control professional, or an industrial hygienist to develop a remediation plan.	BioScrip	This requirement discounts the MOR's experience and could be a burden that the pharmacy undertakes unnecessarily, especially if the contamination is a skin or soil based common contaminant, usually not known for being unusually pathogenic. These types of remediation will become common place as the frequency of testing ramps up, as outline in the proposed USP 797.  The issue of redundancy in the design and operation of cleanroom meantime, only sites that have excess capacity, to be able to shut down operations under these types of demands. The shutdown, remediation, and retesting requirements will necessitate that the compounding establishment will need to suspend activity for 15-17 days while waiting for the proper microbiology under these rules. In the portions of the compounding spaces, while maintaining some operations until full operations can be restored. This type of situation will demand larger investment in monetary resources, space, and will force some providers from the market, limiting access by patients and prescribers.	Include in policy.  Recommend to strike and keep in policy.
17.28(9)	A pharmacy shall demonstrate successful remediation by performing repeat environmental monitoring of non-viable air and viable air and surface (bacterial and fungal) as part of remediation to above action level environmental monitoring results. The pharmacy may limit the repeat environmental monitoring to the affected ISO classified space based on the pharmacy's environmental monitoring sampling plan unless otherwise directed by the Board.	Pentec	We feel since this proposed regulation is so specific in nature it should not leave open the option for the Board to make alternative changes or recommendations. We believe providing a pharmacy with clear guidelines to manage above action limit results allows them to proceed with a plan of correction immediately providing autonomy over their daily operations.	Strike. Will add substantive requirement that response and remediation will be in accordance with Board policy.
17.28(10)	Conditions for Resuming Sterile Compounding following an above action level environmental monitoring result:	MHA/MSHP	Exclude prescriptions affecting patient care. There should be consideration for the impact of ceasing high risk compounding of certain drugs (like ophthalmic preparations), which will have a detrimental effect on patient care. The board should make	Rework this whole section. Conditions to resume compounding in accordance with policy.

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			41.CC	
			differentiation between drugs such as ophthalmic topical preparations	
17.20(10)( )		A	and other sterile dosage forms.	10
17.28(10)(a)	A pharmacy may not resume	Atrius Health	Atrius: Agree with comments provided by MHA/MSHSP. Atrius	Move to policy.
	compounding in an ISO Class 5 PEC		Health does not have a compounding partner that would be able to	
	following an above action level	MHA/MSHP	meet the needs of patients in the event the PEC was closed, which	10/5/15 Advisory Committee
	environmental monitoring result until		would result in undue hardship for patients. It would be preferable to	minutes:
	remediation is completed and proven	Mount Auburn	allow sterile compounding pharmacies to reduce BUD on the CSP	"A pharmacy may not resume
	by microbiology reports of repeat	Hospital	rather than to stop compounding altogether.	compounding in an ISO-5 Primary
	environmental monitoring			Engineering Control (PEC)
	demonstrating results within	Southcoast	MHA: This requirement would increase harm to patients in	following an abnormal EM result
	acceptable levels.		institutions with only one hood at the time these regs go into effect.	until remediation is completed and
			The regulations should take into consideration options to add	proven by microbiology reports of
			redundancy but those take time. Patient care must be maintained in	repeat EM results within acceptable
			any bridge scenario and if the hood cannot be used the compounding	levels."
			would be pushed to the point of care outside of the pharmacy	
			operation as immediate use compounding.	
			operation as minimum as compounding.	
			MAH: Recommend altering to allow use when no alternative is	
			immediately available. This requirement would overall increase	
			public risk and harm to patients in institutions with only one hood.	
			Patient care must be maintained in any bridge scenario and if the hood	
			cannot be used the compounding would be pushed to the point of care	
			outside of the pharmacy operation as immediate use compounding.	
			Compounding in a hood that had grown 3 CFUs on its surface and	
			subsequently cleaned is obviously and immensely more sanitary than	
			any bedside compounding area if forced to choose by these	
			regulations. Any prudent pharmacist would protect the patient v their	
			license, these regs should not place a pharmacist in that position.	
			Southcoast: Will the BOP be able to address specific situations when	
			a buffer area/pharmacy only accounts with a single Laminar Flow	
			Hood /ISO 5 PEC for compounding? If a positive environmental test	
			demonstrates growth in an ISO 5 location, pharmacy will be required	
			to stop compounding activities altogether (and may not resume	
			compounding) until remediation is completed. Some remediation	
			procedures may include: performing thorough cleaning/disinfection of	
			affected PEC's, review cleaning and garbing procedures with	
			personnel, and resampling affected areas by a qualified certifier.	
			Usually, certification companies may take from 1 to 2 weeks to	
	I.		committy, continuous companies may take nom 1 to 2 works to	

17.28(10)(b)	Upon receipt of an above action level environmental monitoring result in ISO 7 buffer room, a pharmacy may resume compounding for low and medium risk level CSPs if:  A. The environmental monitoring data does not indicate 3 or more consecutive sampling reports with above action level results within the last 6 months; and  B. The pharmacy has immediately assessed the above action level environmental monitoring results, developed and implemented a remediation plan, and scheduled repeat monitoring.	MHA/MSHP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo  MIPA  Boston Medical Center / Horbowicz / Vreeland  Kelly Barnes  Mount Auburn Hospital	schedule a visit to pharmacies for environmental testing and microbiology results may become available after 2 -3 weeks (including preliminary testing and final culture identification). In the meantime, the pharmacy may not resume compounding activities. In this instance, we are compromising patients care by not being able to compound CSP's and other options such as outsourcing products may take some considerable time to reach pharmacies. Another option is to compound CSP's following the immediate use clause by USP 797, which limits compounding to low risk level and under emergent situations, compromising patient's safety and quality of care. A recommendation for this clause would be to perform deep cleaning procedures (3-step cleaning) for each shift for the affected PEC's and during the retesting /remediation period, allow compounding of CSP's as long as the BUD assigned is 24 hrs room temperature or 3 days refrigerated (similar to BUD's for high-risk level compounding). Following this approach, will allow pharmacies that are in the remediation period serve patients by not disrupting their compounding operations.  Recommendation for part (A): Remove 6 month criteria. If testing is done monthly then any 3 consecutive action level findings will be within the last 6 months. Recommend considering that 3 consecutive action levels at different sites with different organisms is not the same as three consecutive fungal hits in the same air location sample  Recommendation for Part (B): Instead of stopping compounding completely, put a 12 hour time frame (commonly used in practice today), to prevent pharmacies from having to shut down any action level. It has been proven that you are bound to and should get positive results by having ISO 7 negative pressure adjacent anteroom and a sink.  Remove 6 month in section A. A pharmacy must consider the nature of the action levels, what type of same, what they have done for previous mitigation, and then must act accordingly. Hospitals must continue to service patients in the sa	Rework this whole section. Move to a policy.  The regulation doesn't require shutting down; just pausing to evaluate and remediate.
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Pentec BioScrip	pharmacy with a 24/7 operation and critically ill patients cannot wait even 24 hours for a response. If the Board cannot provide a level of immediate response, then rules need to be made such that pharmacy can exercise decision making appropriate to the action level in line with USP 797 recommendations.  In addition, these sections should be re-evaluated for clarity. Subsections A and B in both (b) and (c) are repeated with conflicting information in sections (b) 4. and (c) 4. Section 4 conflicts with the high risk recommendations in both 10.(b)2 A, and 10 (c)2A. should be removed in both sections.  Barnes: Add new provision – "A pharmacy may not engage in high risk level compounding upon receipt of an above action level environmental monitoring result in ISO 7 buffer room if the environmental monitoring data indicates 2 or more consecutive sampling reports with above action level results." This would correct technical omission. Also recommend the Board consider relying on more factors than consecutive results as basis for deterring when compounding should cease. Consider, "if the environmental monitoring data indicates 2 or more sampling reports with above action level results.  MAH: Recommend removing 6 month criteria. If testing is done monthly then any 3 consecutive action level findings will be within the last 6 months. Recommend considering that 3 consecutive action levels at different sites with different organisms is not the same as 3 consecutive fungal hits in the same air location sample.	
	Pentec: Eliminate requirement. We do not believe there should be variability in the timeframe a pharmacy can resume compounding it should be consistent no matter the risk level they compound. An exceeded action limit inherently places patients at risk and therefore all pharmacies should follow the same guidelines to ensure patient	
	safety. In addition, selecting an arbitrary number such as 3 consecutive sampling reports in 6 months cannot be applied unless there is scientific evidence to show there is a direct correlation between the number of consecutive above action limit sampling reports and patient safety.	
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			BioSrip: The requirement that environmental monitoring data of 3 or more consecutive sampling reports with above action level (with in last 6 months) does not speak to the possibility that unrelated microbes or unrelated areas could be involved, making the fact that simply having "microbial hits" within the compounding space can be explained and since they're unrelated may not indicate a widespread problem.	
17.28(b)(2)(A)	The environmental monitoring data does not indicate 2 or more consecutive sampling reports with above action level results.	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Add "within the last 6 months."	Rework this whole section.  Move to a policy.
17.28(10)(b)(3)	A pharmacy resuming compounding of CSPs during remediation of ISO 7 buffer room above action level results shall limit the BUDs for CSPs to 24 hours room temperature, 3 days refrigerated or a timeframe agreed upon by the Executive Director or his or her designee until the repeat environmental monitoring reports demonstrate results within acceptable levels.	IACP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo  MIPA  Pentec	Change to: A pharmacy resuming compounding of CSPs during remediation of ISO 7 buffer room above action level results shall limit the BUDs for CSPs prepared in that buffer room to shorter than or equal to USP 797 BUDs.  Pentec: Eliminate requirement. Current USP <797> guidelines for BUDs of high risk compounds is 24 hours room temp and 3 days refrigerated. We believe modifying the BUD for a low or medium risk compound, which by their definition are less likely to cause patient harm; to the standard BUD of a high risk compound with no change in BUD dating of high risk compounds does not correlate with a reduction in the potential for patient harm. Additionally, per the proposed regulation 17.28(4) a pharmacy may not resume compounding until remediation has occurred and therefore we believe modifying BUDs of low and medium risk compounds is unnecessary.	Rework this whole section.  Move to a policy.
17.28(10)(b)(5)	A pharmacy may not freeze any CSP upon receipt of an above action level environmental monitoring result in ISO 7 buffer room until repeat monitoring reports demonstrate results within acceptable levels	IACP  Johnson Compounding / Walczyk / Fallon /	Strike this provision. USP 797 allows for the preparation of CSPs that are stored in frozen storage conditions. There are compounded medications that require frozen storage for stability assurance. This requirement will limit patient access to these medications and will result in a gap in patient therapy.	Rework this whole section.  Move to a policy.

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	unless otherwise approved by the	Allibhani /		
	Executive Director or his or her	Petrosillo		
	designee			
		MIPA		
17.28(10)(c)	Upon receipt of an above action level	MHA/MSHP	<b>Recommendation for Part (A)</b> : removing 6 month criteria. If testing	Rework this whole section.
	environmental monitoring result in	*	is done monthly then any 3 consecutive action level findings will be	Move to a policy.
	ISO 7 ante room or ISO 8 classified	IACP	within the last 6 months.	
	area(s), a pharmacy may resume	T - 1	Decree determined to the Decree (D) and the decree of	
	compounding of low and medium risk level CSPs if:	Johnson Compounding	<b>Recommendation for Part (B)::</b> considering that 3 consecutive action levels at different sites with different organisms is not the same	
	A. The environmental	/ Walczyk /	as three consecutive fungal hits in the same air location sample.	
	monitoring data does not indicate 3	Fallon /	as three consecutive rungar firts in the same an location sample.	
	or more consecutive sampling reports	Allibhani /	IACP: See comments for 17.28(10)(b).	
	with above action level results within	Petrosillo	17.20(10)(b).	
	the last 6 months; and	1 011 051110	Pentec: See comment above.	
	B. The pharmacy has	MIPA		
	immediately assessed above action			
	level environmental monitoring	Mount Auburn		
	results, developed and implemented a	Hospital		
	remediation plan, and scheduled			
	repeat monitoring.	Pentec		
17.28(11)(a)	A pharmacy's response to above	MHA/MSHP	Remove (a). Utilizing a microbiologist, industrial hygienist or	Rework this whole section.
	action level environmental		infection control professional on staff in most institutions will be	Move to a policy.
	monitoring results shall include the	Mount Auburn	more than adequate. Regulations should reflect that other staff that an	
	following:	Hospital	institutional facility may have (as compared to a commercial	
	(a) examination by an	Donator	pharmacy).	
	accredited laboratory;	Pentec	Donton, Noods alouification if this provision is referring to the anti-	
		BioSrip	Pentec: Needs clarification if this provision is referring to the entire excursion process or simply that an accredited lab will need to	
		Бюзпр	review/identify organisms. Also, need clarification on "accredited	
			laboratory."	
			mooratory.	
			BioScrip: Examination by an "accredited laboratory" is not well	
			defined and the Board is not a qualified agency to properly make this	
			determination. Some later determination by the Board could limit the	
			available providers and therefore limit access by patients.	
17.28(11)(d)	A pharmacy's response to above	BioScrip	"comprehensive root cause analysis" is not well defined, and is	Rework this whole section.
	action level environmental		ultimately a cGMP term, if used in the cGMP context, the	Move to a policy.
	monitoring results shall include the		requirement for a definitive cause maybe an impossible end result for	
	following:		the average pharmacy. Ultimately, drilling down to determine a Page <b>84</b> of <b>108</b>	

15.00(5)	(d) comprehensive root cause analysis;	VA CID	definitive root cause may be unnecessary since responding to the two or three possible causes can be addressed simultaneously. Not requiring a protracted suspension of operations waiting for an excessive amount of testing. Remediation of the two or three possible causes, will allow for proper resolution of the issue, while bringing compounding establishment back on line in the most expedient way possible.				
17.29(7)	A licensee shall allow sterile 70% isopropyl alcohol to remain in contact with surfaces to be disinfected for 30 seconds before compounding activates are started.	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Clarify that sterile IPA is to be used inside the ISO Class 5 PEC and/or immediately prior to transferring materials into the ISO 5 PEC. Non-Sterile IPA is permitted on surface outside of the ISO 5 PEC in the ISO 7 buffer room (such as stainless steel tables were staging occurs).  This regulation is confusing and gives the impression that only sterile 70% IPA is permitted for used in sterile compounding (including outside of the ISO 5 PEC). Non-sterile IPA is traditionally acceptable when disinfecting items outside of the PEC (surfaces, staging materials, etc.)	From new 797 revision:  "The manufacturer's directions or published data for the minimum contact time must be followed for the cleaning, disinfecting, and sporicidal agents used."  Suggested language:  A licensee shall follow manufacturer's directions or published data for the minimum			
17.29(11)	A pharmacy shall sanitize a sink drain with a disinfectant at least once per week.	Boston Medical Center / Horbowicz / Vreeland	Remove this section. There is no precedent in USP 797 or elsewhere for attempting to sanitize a sink drain. It is a dangerous practice to pour disinfectant chemicals into a sink in the volume that would be sufficient to sanitize a drain. Splashing can occur that has potential to harm compounding personnel, from both topical contact and inhalation of volatized disinfectant. Surface cleaning of the sink with disinfectant should be a part of the daily surface cleaning SOP.	contact time for cleaning, disinfecting, and sporicidal agents used in classified environments.  Strike and defer to microbiologist recommendation per facility.			
17.29(13)	A pharmacy may not engage in compounding during daily or monthly cleaning activities.	MHA/MSHP  IACP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo	Clarify "in the specific area being cleaned." For example, cleaning in one buffer room and compounding in a separate buffer room or separate area of the pharmacy.  Consideration should be given to STAT patient medication orders.	Strike and include in guidance document.			
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17.29(14)	A pharmacy shall verify its cleaning agents are appropriate. A pharmacy	MIPA Boston Medical Center / Horbowicz / Vreeland  Mount Auburn Hospital GE Healthcare BioScrip	Current language is unclear. Suggest: "A pharmacy shall use cleaning agents as deemed appropriate by the facility's quality	Strike and add to a guidance document.
	shall maintain a certificate of analysis for each cleaning product, if available.	Бювенр	program."	
17.30	Sterile Compounding Process; Hand Hygiene and Garbing	GE Healthcare	Add: "Personnel shall perform hand hygiene and don personal protective equipment in an order that proceeds from those activities considered the dirtiest to those considered the cleanest. The following is to be followed unless the pharmacy documents a method equivalent to or superior to the method described here:"  Suggest adding this language to allow for methods of hand hygiene and garbing with sinks external to the ante room where the licensee can sufficiently prove to the Board the processes developed at the facility are equal to or superior to the method described.	No change recommended.  Facilities with alternative designs may apply for a waiver.
17.30(2)	Compounding personnel shall wear clean, laundered scrubs only worn within the facility. Scrubs shall be laundered following each use. A pharmacy shall have a changing area for sterile compounding personnel to change that minimizes travel through non-classified areas.	GE Healthcare Pentec BioScrip	GE: Change to: "Compounding personnel shall wear clean, laundered clothing. Clothing shall be laundered following each work shift." The use of the term "each use" is too vague. Requirements regarding change room and scrubs are unnecessary and overly restrictive.  Pentec: It is not necessary to state the changing area should "minimize travel" since the travel distance will be different for each pharmacy based on facility design. As long as the scrubs are disposable or only worn within the facility, the intent of the regulation is clear.  BioScrip: This should be a best practice. The policing of the requirement that scrubs shall be laundered after each use will be	Board discussion on changing areas.  Suggested edits:  Compounding personnel shall wear clean, laundered scrubs only worn within the facility. Scrubs shall be laundered following each use. A pharmacy shall have a changing area for sterile compounding personnel to change that minimizes travel through non-classified areas.
			difficult to enforce. Will these trigger the necessity of business to	

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			provide centralized provision of scrub clothing and laundry services?	
			Adding cost to the provision of care.	
17.30(3)	Compounding personnel shall use	Beth Israel	E C	No change recommended.
	dedicated shoes or shoe covers while	Deaconess	required in USP 800.	
	in classified areas.	Medical		Double shoe covers or dedicated
		Center		shoes and shoe covers.
			MAH: Recommend removing. The utilization of booties provides a	
		Kelly Barnes	covering on shoes which can serve the same purpose and may allow	Facilities P&P can dictate storage.
			for added protection. If regulation remains, would recommend	
		Mount Auburn	clarifying the term dedicated to include that they must be stored in the	
		Hospital	ante room. Dedicated shoes stored in the employee's locker should	
			not be allowed.	
17.30(4)	Prior to entering an ante room,	MHA/MSHP	Add "or shoe covers" to align with 17.30(3).	Clarify to:
	compounding personnel shall don	_		"either dedicated shoes <b>or shoe</b>
	scrubs and dedicated shoes.	Boston		covers."
		Medical		~
		Center /		Suggested language:
		Horbowicz /		D: .
		Vreeland	Barnes: Add – "either dedicated shoes or shoe covers shall be donned	Prior to entering an ante room,
		V-11 D	immediately prior to entering the ante room."	compounding personnel shall don scrubs and dedicated shoes <b>or shoe</b>
		Kelly Barnes		
17.30(6)(c)	Once on the clean side of the line of	IACP	Remove "disposable" requirement from (2). If non-sterile coverall is	<b>covers.</b> Agree to remove the word
17.30(0)(0)	demarcation, but prior to entering the	IACF	used, it is appropriate to require that coverall to be disposable,	"disposable" and add "clean" to (1)
	buffer room, compounding personnel	Boston	however if a sterile coverall is used, it seems unnecessary to require	disposable and add clean to (1)
	shall perform the following tasks in	Medical	that sterile coverall to be disposed after use; many sterile coveralls are	Also remove "disposable" from
	the following order:	Center /	reusable in that they are laundered, sealed, and re-sterilized by an	17.30(2)
	(c) don:	Horbowicz /	outside company prior to being sent back to the pharmacy.	17.30(2)
	1. a non-shedding disposable	Vreeland	Also need adjustment to 17.30(12).	Nuclear pharmacy issues be
	coverall for low and medium risk	Vicciana	7430 need adjustment to 17.50(12).	handled separately.
	level compounding; or	GE Healthcare	GE: The requirement for coveralls for low and medium risk	nandred separatery.
	2. a non-shedding sterile		compounding is excessive. Recommend: "a non-shedding disposable	Suggested language:
	disposable coverall for high risk level	Kelly Barnes	coverall or full length lab coat with complete closure to the	
	compounding.		neckline for low and medium risk level compounding"	Once on the clean side of the line of
				demarcation, but prior to entering
			Barnes: Change to –	the buffer room, compounding
			1. a non-shedding <b>clean</b> coverall for low and medium risk level	personnel shall perform the
			compounding; or	following tasks in the following
			2. a non-shedding sterile <b>disposable</b> coverall for high risk	order:
				(c) don:
			Page <b>87</b> of <b>108</b>	

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17.30(10)	A compounding individual shall perform antiseptic hand cleansing using a waterless alcohol based surgical hand scrub and shall don new sterile gloves prior to reentering the buffer room if he/she exited the buffer room but did not cross the line of demarcation.	MHA/MSHP  IACP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo  MIPA	Is It necessary to don a new pair of gloves if the compounding employee stays on the clean side of the line of demarcation in the ante room providing they follow the proper protocol for disinfecting and sanitizing their gloved hands upon re-entry into the buffer room?  Recommendation: Allow the use of a separate cart pass through or product pass through room without the removal of gloves and redonning. There is an increased risk for contamination with material transfer into cleanroom without gloves on.  Sterile compounding personnel are permitted to move between the buffer room and the "clean" side of the anteroom without donning new	1. a non-shedding clean disposable coverall for low and medium risk level compounding; or 2. a non-shedding sterile disposable coverall for high risk level compounding.  Strike.
		MIPA Kelly Barnes	buffer room and the "clean" side of the anteroom without donning new sterile gloves when participating in cleaning activities, environmental monitoring activities, staging compounding materials in the buffer room, etc. The way this regulation is written, it can be interpreted that	
		Mount Auburn Hospital	this would not be permitted. Change "A compounding individual" to "Prior to performing aseptic compounding, an individual"	
		NCPA BioScrip	Barnes: Change to — "done new sterile glove prior to <b>re-engaging</b> in <b>sterile compounding</b> if he/she exited the buffer room"	
			NCPA: Consider modifying to specify individuals performing aseptic or sterile compounding.	
			BioScrip: The need to dispose of gloves if a compounder exits the buffer room but does not cross the line of demarcation may cause two situations, both increasing the cost of service: (1) if personnel exits the	
			buffer room to consult with staff to clarify a clinical question and then discards gloves repeatedly, the value of this process is in question; (2) if personnel cannot exit the buffer to retrieve essential supplies, no	
17.30(12)	The non-shedding disposable	Kelly Barnes	matter the quantity, this speaks to the necessity of the installation of pass thru cabinets.  Remove "disposable."	Agree. See above.
17.30(12)	The non-sneading disposable	ixiny Danies	Page 88 of 108	rigice. Dec above.

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	coverall may be removed and			
	retained in the compounding area if			Suggested language:
	not visibly soiled to be re-donned by			
	the same personnel during that shift			The non-shedding disposable
	only. All other garb must be			coverall may be removed and
	discarded and replaced with new			retained in the compounding area if
	garb before entering the			not visibly soiled to be re-donned
	compounding area.			by the same personnel during that
				shift only. All other garb must be
				discarded and replaced with new
				garb before entering the
				compounding area.
				Board staff note: Revised chapter
				calls for disposal of gown.
17.31(3)	A pharmacy may not use paper in an	Beth Israel	BI: What is this?	Strike and edit 17.14(6) as above.
	ISO 5 Classified area	Deaconess		
		Medical	Omnicell: Restate to say "a pharmacy must minimize the use of	
		Center	paper" This change is required in order to provide for labeling of	
			compounding sterile products immediately after processing in order to	
		Omnicell	prevent mislabeling or labeling mix-ups which are a much greater	
			safety risk than the presence of paper in ISO 5.	
17.31(6)	Syringes, needles, and tubing are	GE Healthcare	Change "syringes" to "needleless syringes." The introduction of the	No change recommended.
	only removed from outer wrapper		outer wrapping of hundreds of syringes with attached needles into the	
	packaging in the ISO Class 5 area.		ISO Class 5 PECs during compounding activities at a nuclear	
			pharmacy would pose a greater risk of contamination to the product	
			than the controlled removal of outer wrappings of those closed	
			systems in the ISO Class 8 or better air quality.	
17.32(2)	A pharmacy may not expose non-	Boston	BMC: Remove this section. Hazardous buffer rooms are often built	Strike and address in 247 CMR
	hazardous drug environments to	Medical	to share an ante room with a non-hazardous buffer room. This is	19.00
	hazardous drugs or components in	Center /	section is in direct conflict with USP 800 which promotes the shared	
	any ISO classified area.	Horbowicz /	anteroom arrangement as the ideal clean room design. It will be	
		Vreeland	impossible to meet this regulation if an institution has a USP 800	
			compliant cleanroom set-up within the main pharmacy space. If left	
		Dana Farber	as written, this would mean that hospitals would need to build entirely	
			separate facilities for hazardous compounding. For our hospital and	
			most others, this would not be feasible due limited physical plant	
			space and cost constraints.	
			Dana Farber: Recommend editing the statement to say, "on occasion	
			may expose" with appropriate labelling and proper PPE precautions	
			taken. Certain Pharmacies who predominantly do Hazardous	
			Page <b>90</b> of <b>109</b>	

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17.32(5)	A pharmacy shall maintain a written continuity of care play that describes how patient needs will be met in the event the pharmacy is unexpectedly unable to compound or dispense CSPs.	Atrius Health	medications – it is not efficient to have a separate Hazardous and non-Hazardous area, if proper precautions and labelling take place, exposure can be contained just the same as with separate areas.  Atrius does not partner with another facility and would be unable to meet this requirement; Atrius would have to send its patients elsewhere.	No change recommended.  Continuity of care plan to specify "backup" pharmacy
17.33(5)	Compounding personnel, including supervising pharmacists, shall pass didactic coursework, practical skill assessment through competency evaluation, media fill testing, and gloved fingertip/thumb sampling before being allowed to compound sterile preparations.	MHA/MSHP  Southcoast	Clarify whether per-diem workers, part-time employees, employees going on LOA be required to be requalified following the same guidelines of a new trainee (3 fingertip/3 media fill tests), or treated as a re-evaluation competency (1 fingertip/1 media fill test).  Southcoast: Please clarify term "supervising pharmacists." Does this include pharmacy managers and pharmacy directors? Also, there are pharmacists who do not perform compounding procedures but assist in order entry, verifying and checking IV preparations in the pharmacy. Will all pharmacists be required to pass all competency testing? Leadership does not perform compounding procedures (in the course of 3 months), will they need to be retested to be qualified to supervise IV personnel?	Suggested language:  "All compounding personnel who physically compound or directly supervise compounding including supervising pharmacists, shall pass didactic coursework"  This standard does not deal with requalification. See below.
17.33(6)	Compounding personnel shall be requalified in all core competencies if a pause in compounding exceeds three months.	Jeffrey Lynch BioScrip	Lynch: Places and extreme burden on pharmacy, time needed to repeat training, difficult to maintain per diem personnel. Six months would be more realistic.  BioScrip: How will "pause" be defined? How will this requirement be enforced? What is the value of this requirement? If an on call or management professional is pressed into service, the provision could prevent patients from receiving emergency or other urgent services or could delay service will alternate staff is located.	New 797 draft:  "After a pause in compounding: Personnel who have not compounded CSPs in more than 6 months must be requalified in all core competencies before they may resume compounding duties."  Suggested language:  Compounding personnel shall be requalified in all core competencies if a pause in compounding exceeds three six months.  10/18/18 Board: define requalification
17.33(7)	A pharmacy shall ensure all	Jeffrey Lynch	Since media fills are performed quarterly, does this mean they are not	Suggested language:

	compounding personnel, including supervising pharmacists, are evaluated on hand hygiene and garbing, cleaning and disinfecting, and aseptic technique initially and at least:		assessed in writing each time? Are they observed during media fill? Or can personnel perform the media fill independently?	A pharmacy shall ensure all personnel who physically compound or directly supervise compounding, are evaluated through visual observation on hand hygiene and garbing, cleaning and disinfecting, and aseptic technique initially and at least every 6 months.
17.33(11)	A pharmacy shall send each failed gloved fingertip/thumb sample and media fill sample for microbial identification to the genus level. All staphylococcus organisms must be identified as coagulase positive or negative.	BioScrip	This is costly and excessive. Compounders will be removed from service until a "clean sample" can be obtained. The long term value of this testing against its costs is questionable.	Strike and include as best practice with language below: "A pharmacy shall investigate and document findings and corrective actions for each failed gloved fingertip/thumb sample and media fill sample."
17.33(12)	In the event a compounding individual fails a gloved fingertip/thumb sample or media fill sample, the pharmacy shall evaluate the CSPs prepared by that individual to detect potential contamination of the CSP.	MHA/MSHP IACP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo	Remove this provision. Gloved fingertip/thumb samples are retrospective data and the requirement to review compounding records and patient infection data provides only supplemental data within an institution. Administration procedures in non-classified spaces are a more likely source of line infections or bacteremia than the CSP itself. There is merit in obtaining CSP related contamination data in the event of a bacteremia or line infection in which the CSP is a theorized vector.	Suggested language:  "A pharmacy shall initiate an investigation and document actions in response to repeated failed gloved fingertip tests or media fills by a compounding individual including the potential impact on CSPs."
		Berkshire Heath Systems MIPA Boston	Elaborate on the process that should be followed to "evaluate the CSPs prepared by the individual who failed the competency." It can take days to weeks to receive results of media fills and gloved fingertip samples.	10/18/18 Board: change wording - "investigation" to" initiate or review"
		Medical Center / Horbowicz / Vreeland Mount Auburn Hospital	D 01 (100	

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17.33(14)	Personnel monitoring gloved fingertip/thumb sampling shall include the use of positive and negative controls.	Jeffrey Lynch Pentec BioScrip	Lynch: One positive and one negative control per manufacturer lot? Or per gloved fingertip/thumb sample?  Pentec: We are unclear how a positive control would be utilized to verify media sampling. We do not feel there is a practical way to obtain a positive control, and additionally, the standard of practice is to utilize a negative control in laboratories.  BioScrip: This will require pharmacies to bring known microbes into compounding operations, thus increasing the chance for a facility created contamination. The routine requirement for negative controls assures the media employed is appropriate and the consultation of the certificate of analysis for each batch of media will assure that the media supports the proper spectrum of growth without the added costs, complexity, or dangers of requiring positive media controls.	Strike.
17.33(15)	Personnel monitoring media fills shall include the use of negative controls. Personnel monitoring media fills shall also include the use of positive controls if	Jeffrey Lynch	Commercially available media fill kids do not contain extra bags or vials of growth media to use as negative control. How would this be accomplished?	Strike (14), (15) and (16) and edit (13) to:  Suggested language:  A pharmacy shall verify and maintain Growth Promotion
17.24	Starila Compounding Dags	мна мень	This section should be adjusted to allow for the way of fine articles	Certificates or similar documentation that each lot of media for personnel monitoring is able to support microbial growth.
17.34	Sterile Compounding Personnel Training; Gloved Fingertip/Thumb Sampling	MHA/MSHP  Boston  Medical  Center /	This section should be adjusted to allow for the use of fingertip sampling kits when used in accordance with manufacturer instructions.  NCPA: Align this section with USP 797.	Rework this section (see below):  Strike (9): plate size to allow for various "kits"
		Horbowicz / Vreeland	Partners: It is imperative for all practitioners that perform and	"After initial qualification, testing shall be every 3 months for extended BUDs, anticipatory
		Mount Auburn Hospital	oversee sterile compounding have the skill set and knowledge base to avoid errors and contamination. While we are in support of more frequent fingertip and media fill challenge testing than is currently required, we are not equipped for daily and batch specific challenge	extended BUDs, anticipatory compounding, or high risk compounding. Otherwise, testing shall occur every 6 months."
		NCPA	testing. This will require time, resources and space that does not exist in the hospital setting. However, it would be very feasible for	GFS after completing daily compounding will be added to best

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		Partners Healthcare	hospitals to comply with the new draft of <usp> 797 with quarterly media-fill and fingertip testing.</usp>	practices.
17.34(3)	All compounding personnel shall successfully complete at least 3 gloved fingertip/thumb sampling procedures before initially being allowed to prepare CSPs and annually thereafter. The action level for this gloved fingertip/thumb sample is 1 CFU for both gloves.	MHA/MSHP  Boston Medical Center / Horbowicz / Vreeland  Jeffrey Lynch	The requirements for gloved fingertip/thumb sampling in (3) and (6)(a) appear to conflict. (3) states annually and (6)(a) states quarterly.  Lynch: So, after initial qualification, repeat x3 sets annually or x1 set annually?	Need to resolve conflict.  As above from 17.24(8): Consider  1) Gloved Thumb/ Fingertip (hand hygiene and garbing): Initially x3, then for any media fill or glove failure x3  2) Gloved Thumb/ Fingertip (aseptic technique): after each media fill  10/4/18 Board: reword (1) in above Tim/Andy all  Suggested language: All compounding personnel shall successfully complete at least 3 gloved fingertip/thumb sampling procedures before initially being allowed to prepare CSPs and annually thereafter and must be repeated for any gloved fingertip/thumb sampling failure or media fill failure. The action level for this gloved fingertip/thumb sample is 1 CFU for both gloves.
17.34(5)	All gloved fingertip/thumb sampling performed after the initial qualification shall be performed at the conclusion of compounding.	Jeffery Lynch	Does this mean quarterly media fill will include a GFS after, but not prior? And then once annually, perform GFS prior to media fill as well as after? How many sets?	After media fill.  Suggested language: After initial qualification, all gloved fingertip/thumb sampling performed shall be performed at the conclusion of compounding after each media fill.

17.34(6)	Frequency of gloved fingertip/thumb	MHA/MSHP	MHA: This should be changed to align with new draft of USP 797;	See above.
	sampling		quarterly fingertip testing with no more than 3 CFUs for both hands.	
	(a) Compounding personnel	IACP		
	shall perform gloved fingertip/thumb		IACP: Align regulation with USP 797 requirements. Proposed	GFS after completing daily
	sampling at least quarterly.	Johnson	regulation far exceeds existing standards and would require	compounding will be added to best
	(b) In addition to quarterly	Compounding	pharmacies to hire additional staff to perform and monitor tests.	practices.
	gloved fingertip/thumb sampling, an	/ Walczyk /		
	individual who prepares low or	Fallon /	BI: Overkill; huge cost.	10/4/18 Board: rework as above
	medium risk level CSPs with	Allibhani /		
	extended BUDs shall perform gloved	Petrosillo	NCPA: Testing at this frequency could require sterile compounding	Suggested language:
	fingertip/thumb sampling each day		pharmacies to hire additional pharmacy personnel to perform and	
	he/she prepares such CSPs.	MIPA	monitor gloved fingertip test media, resulting in greatly increased	After initial qualification,
	(c) An individual who prepares		costs to the pharmacy. There is no evidence of benefit for this testing	compounding personnel who
!	high risk level CSPs shall perform	Beth Israel	frequency.	prepare low or medium risk level
!	gloved fingertip/thumb sampling at	Deaconess		CSPs shall perform gloved
!	least once per month and each day	Medical	Pentec: Remove. This provision is redundant to 17.35(1). Section (c)	fingertip/thumb sampling at least
	he/she prepares such a CSP.	Center	is excessive for 503A pharmacies.	semi-annually after each media
	(d) Compounding personnel		1	fill.
	who prepare high risk level CSPs:	Boston		
	1. with extended BUDs;	Medical		After initial qualification,
	2. in anticipation of a patient	Center /		compounding personnel who
	specific prescription or order; or	Horbowicz /		prepare high risk level CSPs, CSPs
	3. that include high risk	Vreeland		with extended BUDs, or CSPs
	intermediate or stock solutions shall			prepared in batches that will be
	perform gloved fingertip/thumb	NCPA		stored in the freezer shall perform
	sampling at least once per week and			gloved fingertip/thumb sampling at
	each day he/she prepares such CSP.	Pentec		least quarterly after each media
	constant constant from the constant constant			fill.
				Board discussion: increase
				frequency for anticipatory batches
				and CSPs w/ extended BUD.
!				
!				11/1/18 Board:
!				Add CSPs with extended BUDs,
!				or CSPs prepared in batches that
!				will be stored in the freezer to
'				quarterly requirement.
17.34(7)	A pharmacy that prepares high risk	IACP	TSA is a general growth media that is capable of growing both	Agree
17.31(7)	level CSPs or low and medium risk		bacterial and fungal CFUs when incubated at appropriate	Otherwise, best practice (especially
	11.11 Cold of 10.11 and incutain fish		Page 94 of 108	z cost praetice (especially

level CSPs with extended BUDs	Johnson	temperatures. Requiring the use of two different media will result in	high risk).
shall utilize both a general growth	Compounding	unnecessary testing fees and an increase to the overall cost of	
media and a fungal specific growth	/ Walczyk /	healthcare. Strike this requirement or revise to include incubating a	11/1/18 Board: Delete
media for all gloved fingertip/thumb	Fallon /	general growth media (TSA) at two temperature ranges; 30- for 24-48	requirement in 247 CMR 17.35
sampling.	Allibhani /	hours, then 20- for 5-7 days to promote growth of both bacterial and	(5) for fungal specific media for
	Petrosillo	fungal organisms	media fill procedure for high
			risk.
	MIPA	NCPA: Consider modifying to require incubation of general growth	
	1,111	media at appropriate temperatures to promote bacterial and fungal	
	NCPA	growth instead of requiring two different growth media.	
17.35 Sterile Compounding Personnel	MHA/MSHP	Align media fill testing with new draft of USP 797, which is quarterly	Align with GFS frequency
Training: Media Fill Challenge	IACP	testing. Suggest combining this with quarterly fingertip testing as	Thigh with Of 5 frequency
Testing Testing	Johnson	description contradicts what is stated in 17.34.	As above from 17.24(8): Consider
Testing	Compounding	description contradicts what is stated in 17.34.	Media Fills: Initially x1, then:
	/ Walczyk /	NCPA: Align this section with USP 797.	- Semiannually for
	Fallon /	NCFA. Aligh this section with OSF 191.	low/medium risk
	Allibhani /		
			- Quarterly for high risk
	Petrosillo		10/4/10 P 1 1
	MIPA		10/4/18 Board: as above
	Boston		
	Medical		Suggested language:
	Center /		
	Horbowicz /		Compounding personnel who
	Vreeland		prepare low or medium risk level
	NCPA		CSPs shall complete a media fill
			before initially being allowed to
			prepare CSPs. Following initial
			qualification, compounding
			personnel who prepare low or
			medium risk level CSPS shall
			complete a media fill at least semi-
			annually.
			•
			Compounding personnel who
			prepare high risk level CSPs shall
			complete a media fill before
			initially being allowed to prepare
			CSPs. Following initial
			qualification, compounding
			personnel who prepare high risk

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				level CSPs, CSPs with extended BUDs, or CSPs prepared in batches that will be stored in the freezer shall complete a media fill at least quarterly.  Board discussion: increase frequency for anticipatory batches and CSPs w/ extended BUD.  11/1/18 Board: Add CSPs with extended BUDs, or CSPs prepared in batches that will be stored in the freezer to quarterly requirement
17.35(1)	Compounding personnel who prepare low and medium and high risk level CSPs shall complete three media fills before initially being allowed to prepare CSPs. Following initial qualification, compounding personnel shall complete one media fill at least quarterly. Compounding personnel shall perform gloved fingertip/thumb sampling immediately following the last media fill test procedure.	Beth Israel Deaconess Medical Center Jeffrey Lynch	BI: Overkill; huge cost.  Lynch: As above. When are sterile GFS repeated, if ever?	See above.
17.35(6)	A pharmacy shall incubate media fill units utilizing general microbial growth promotion media at 30- (86-95) for a minimum of 7 days, followed by an incubation at 20- (68-77 °F) for 7 days.	Atrius Health MHA/MSHP Boston Medical Center / Horbowicz / Vreeland Mount Auburn Hospital	Agree with comments from MHA/MSHP. Atrius' compounding pharmacy has only once incubator, and if it was required to use different temperatures, it would impose significant challenge.  Adjust to allow for the use of validated media fill kits.  This information is too specific for regulation and does not allow flexibility for advancements in sampling kits.	Suggested language:  "A pharmacy shall incubate media fill units utilizing general microbial growth promotion media in accordance with USP and manufacturer guidelines."  Revised Draft of USP <797>: Once the compounding simulation is completed and the final containers are filled with the test media, incubate them in an

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				incubator for 7 days at 20°–25° followed by 7 days at 30°–35° to detect a broad spectrum of microorganisms. Failure is indicated by visible turbidity or other visual manifestations of growth in the media in one or more container–closure unit(s) on or before 14 days.
17.36(5)	A pharmacy shall ensure incubators are calibrated and certified to NSIT standards at least annually or more frequently in accordance with manufacturer specifications.	Kelly Barnes	Change "incubators" to "microbiological incubators." Spell out NIST as "National Institute of Standards and Technology."	Agree with recommendations Suggested language:  A pharmacy shall ensure microbiological incubators are calibrated and certified to National Institute of Standards and Technology (NIST) standards at least annually or more frequently in accordance with manufacturer specifications.
17.36(7)	A pharmacy shall record temperatures of incubators daily.	IACP GE Healthcare	IACP: As written the proposed regulation would require daily temperature recording, including weekends or holidays, of incubators even if there are no samples being stored/incubated on that day. Add: "on business days when in use."  GE: Change to: "A pharmacy shall record temperatures of incubator each day of use."	Agree with recommendation  Suggested language: A pharmacy shall record temperatures of incubators at least each business day when incubating samples daily.
17.37	Sterile Compounding Robotics	Omnicell	Recommend adding: "The use of IV compounding robots that prepare CSPs with strict automated process control in an aseptically closed environment is encouraged as they can improve the quality of compounded sterile products vs manual processing." Please see Omnicell's full comment for further details.	No change recommended.
17.37(13)	A pharmacy shall adhere to manufacturer recommendations pertaining to the maximum time ingredients or components may be stored in the sterile compounding robot. Documentation shall occur each instance an ingredient or	MHA/MSHP	This is done electronically, so remove "pharmacy shall" and change to "documentation must occur at each instance"	No change recommended.

	component is added or replaced.			
17.38(3)	A pharmacy that performs high risk	IACP	Add the word "human" prior to the word "high." Section 503a is	No change recommended.
17.36(3)	level sterile compounding shall	IACI	applicable to human patients only. As written, the proposed	Two change recommended.
	confirm that APIs meet the		regulation would unnecessarily impose 503a requirements onto	
	requirements of the FDCA, 503a.		animal patients.	
17.39	Sterilization and Depyrogenation	NCPA	Align this section with USP 797.	See 17.39(2) below
17.39(1)	A pharmacy may not utilize ethylene oxide gas or irradiation to sterilize components, equipment, ingredients, or CSPs.	IACP	Remove this requirement. There is no known basis for this prohibition, other than to potentially support the proposed prohibition on the dosage forms found in 17.06(2). Components purchased by pharmacies pre-sterilized, such as sterile filters, sterile tubing, sterile syringes, etc. are normally sterilized via one of these sterilization methods. This proposed regulation would prevent a pharmacy from utilizing those components.  In addition, a pharmacy that utilizes these sterilization methods according to a validated sterilization process, including stability testing of the finished preparation, should be permitted to continue to	No change recommended.  USP revised chapter references irradiation for terminal sterilization.  This standard applies to pharmacies conducting the sterilization not pharmacies procuring manufactured components that have been sterilized by one of these methods.
			do so.	Pharmacies seeking to utilize one these methods may apply for a waiver.  10/18/18 Board: no change to standard
17.39(2)	A pharmacy may not utilize steam sterilization or dry heat sterilization if the CSP can be sterilized using filtration.	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA Blaire	Strike this requirement. This proposed regulation appears to be in direct conflict with USP <797>, is in direct conflict with all principals of contamination control related to sterile medications, and if promulgated, will actually increase risk to the public.  Steam sterilization and dry heat sterilization are typically performed to terminally sterilize the CSP in its final container. The fact that these sterilizations methods do not require manipulation of the CSP after sterilization make them significantly less risky than filtration sterilization, which requires the manipulation of the CSP after it has been sterilized.	Strike.
17.20(2)		Pharmacy Consulting	Blaire: USP prefers terminal sterilization to filtration. Why would Board issue regulations that require a less than ideal procedure for such a critical process?	
17.39(3)	A pharmacy shall sterilize the final	Blaire	Blaire: See comment to 17.06(3).	Suggested language:

	preparation of a high risk level CSP, even if intermediate or stock solutions were previously sterilized.	Pharmacy Consulting	Many CSP require the combination of pre-sterilized ingredients (e.g.: PZI Insulin, Cyclosporine Ophthalmic Drops) because it is impossible to sterilize the final product. Section should be struck or language should be changed to:so long as sterility of the final patient CSP is confirmed.	A pharmacy shall sterilize the final preparation of a high risk level CSP, even if intermediate or stock solutions were previously sterilized, unless any component cannot be sterilized and provided that the sterility of the final patient CSP is confirmed in accordance with
17.39(4)	A pharmacy shall depyrogenate all glassware and containers, able to withstand dry heat, utilized for sterile compounding with dry heat.	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Add: "unless utilizing sealed, unopened, commercially depyrogenated glassware and containers"  Dana Farber: Recommend "a pharmacy shall ensure that all glassware and containers utilized for sterile compounding and able to withstand dry heat are depyrogenated with dry heat."	USP <71>.  Agree with recommendations.  Suggested language  "A pharmacy shall ensure that all glassware and containers utilized for sterile compounding that are able to withstand dry heat are depyrogenated with dry heat unless utilizing sealed, unopened, commercially depyrogenated
17.39(5)(c)	A pharmacy shall utilize sterile filters that are intended for human-use applications in sterilizing CSPs and suitable for the intended use.	Dana Farber IACP  Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo  MIPA  NCPA	Change "intended for human use" to "pharmaceutical grade." Most filters are labeled "Pharmaceutical Grade" not "intended for human-use" and most pharmaceutical manufacturers are hesitant to state that the filters are suitable for human use. Changing this verbiage to "pharmaceutical grade" will eliminate the use of "for research only filters", if that is the intent of the regulation.	glassware and containers."  Agree with recommendation  USP Revised <797> draft refers to as "sterilizing-grade" filters  Suggested language:  A pharmacy shall utilize sterile filters that are pharmaceutical or sterilizing grade filters that are intended for human use applications in for sterilizing CSPs and suitable for the intended use.
17.39(6)(a)	A pharmacy may not utilize dry heat sterilization if the materials can be sterilized using steam.	Dana Farber	Please provide a citation or explanation for this comment. Dry heat sterilizers, may provide more consistent results than steam autoclaves, and may be more cost-effective in some locations. Dry heat sterilization procedures are validated using thermocouples and biological indicators.  Page 99 of 108	Recommend to strike. Edit 17.39(3) to add "in accordance with USP <797>"  Revised Draft USP <797>

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a filt large to fil term	harmacy shall pass CSPs through lter with a nominal pore size not er than 1.2 um immediately prior illing containers that will undergo ninal dry heat sterilization or m sterilization.	IACP	Edit to specify CSPs that are solutions. Ophthalmic ointments or gels that will be terminally sterilized via dry heat or autoclave cannot pass through a filter.	into consideration the nature of the component(s), their physical and chemical properties, and the intended container—closure system. The sterilization method used must sterilize the CSP without degrading its physical and chemical stability (e.g., affecting its strength, purity, and quality) or the packaging integrity. See also the (1229) family of chapters.  Strike or edit as below:  Suggested language:  A pharmacy shall pass CSPs through a filter with a nominal pore size not larger than 1.2 um immediately prior to filling containers that will undergo terminal dry heat sterilization or steam—sterilization, unless said CSPs cannot be filtered.  Note: Revised draft of USP <797> only mentions for steam sterilization.
pharmand pape preve	or to steam sterilization, a rmacy shall tightly wrap plastic glass in low particle shedding er or sealed in envelopes that vent post sterilization microbial etration.	IACP	Clarify to indicate this is only applicable to components. There is no value to wrapping glass vials full of finished CSPs in envelops to prevent post sterilization contamination.	Recommend striking as there is a requirement for policies and procedures in 17.50

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17.40	Grant's and Francis Trad	NCDA	Al'	
17.40	Sterility and Endotoxin Testing	NCPA	Align this section with USP 797.	A 141 1 1
17.40(1)	A pharmacy shall conduct sterility	Kelly Barnes	Barnes: Add new provision at (1)(f): High risk level CSPs that are	Agree with recommendation.
	testing on the following types of		prepared in groups of 25 identical individual single dose packages	Suggested edits:
	CSPs:	Pentec	(e.g., ampules, bags, syringes, vials) for administration to multiple	(1) A pharmacy shall conduct
	(1) A pharmacy shall conduct		patients.	sterility testing on the following
	sterility testing on the following		Pentec: 17.06(7) as stated above indicates that "A pharmacy shall	types of CSPs:
	types of CSPs:		sterilize the final preparation of a high risk level CSP. A pharmacy	a) CSPs with extended BUDs
	a) CSPs with extended BUDs,		shall ensure the sterility of the final preparation of a high risk level	beyond the USP <797> standard,
	regardless of risk level;		CSP in accordance with USP 71." Nothing is stated in a-e that high	regardless of risk level;
	(b) high risk CSPs prepared in		risk levels CSP made pursuant to a patient specific prescription	(b) <b>high risk</b> level CSPs that
	anticipation of a patient specific		requires sterility testing so we seek clarification from the Board if	are prepared in groups of 25
	prescription or order;		17.40(1) does not apply to high risk level CSPs made pursuant to	identical individual single dose
	(c) high risk intermediate or		patient specific prescription.	packages (e.g., ampules, bags,
	stock solution			syringes, vials) for administration
	(d) high risk level CSPs			to multiple patients high risk CSPs
	exposed longer than 12 hours at			prepared in anticipation of a patient
	refrigerated temperature 2-8 °C (36-			specific prescription or order;
	46 °F) before being sterilized; and			(c) high risk intermediate or
	(e) high risk level CSPs			stock solution
	exposed longer than 6 hours at room			(d) high risk level CSPs
	temperature 8 °C (46 °F) before being			exposed longer than 12 hours at
	sterilized.			refrigerated temperature 2-8 °C (36-
				46 °F) before being sterilized; and
				(e) high risk level CSPs
				exposed longer than 6 hours at
				room temperature 8 °C (46 °F)
				before being sterilized.
				17.40 (1) a-e does not apply to
				patient specific prescriptions
				dispensed within USP standard
				BUDs.
				Extended BUD to be defined =
				greater than standard BUD up to
				maximum BUD.
				10/4/18 Board: will revisit (b) on
				Oct 18
	1		Daga 101 of 108	

				10/18/18 Board: accept suggested changes as above
17.40(1)(B)	A pharmacy shall conduct sterility testing on high risk CSPs prepared in anticipation of a patient specific prescription or order	Boulevard Pharmacy	In some cases we compound multiple units (5 or less) in anticipation for prescriptions. If sterility testing is required, not only would this reduce the time of use of the preparation, it would make cost prohibitive for patients.	Recommend to strike. See above.
17.40(4)	A pharmacy shall conduct sterility testing and test the proper number of articles in accordance with USP 71.	Blaire Pharmacy Consulting	Due to the short BUDs on some preparations and the fact that USP<71> Sterility Testing requires a minimum of 14 days, language should be changed to include: or a validated Rapid Microbial Method (RMM) test (e.g.: RapidScan RDI, Celsus).	Waivers may be requested for alternative testing methods.  Note: Revised USP <797> specifies changes in articles for testing when batch is 1-39 units.  Suggested language: A pharmacy shall conduct sterility testing and test the proper number of articles in accordance with USP 74.
17.40(6)	A pharmacy shall conduct bacterial endotoxin assay testing according to USP 85 on the following types of CSPs.	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	USP <797> does not require USP <85> endotoxin testing on compounded preparations not intended for parenteral or intrathecal routes of administration, such as ophthalmic preparations.  Change to: "A pharmacy shall conduct bacterial endotoxin assay testing according to USP 85 on the following types of CSPs intended for parenteral or intrathecal routes of administration":	Suggested language:  Except for inhalation and topical ophthalmic preparations, a pharmacy shall conduct bacterial endotoxin assay testing according to USP 85 on the following types of CSPs.  This section must mirror the sterility section.
17.41	Storage and Beyond Use Dating	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Align entire section with USP 797. Maximum BUDs are determined by USP expert counsel. The state of Massachusetts should align Chapter 17 requirements with the requirements of USP <797>. This is more consistent with what the rest of the country is doing.  There is no scientific basis for these proposed BUD standards, and these artificial limitations will greatly reduce patient access to CSPs.	Revised draft USP <797 has new parameters for BUD, max is 90 days.

		L v con t		
		NCPA		
17.41(1)	Unless otherwise prescribed in 247	MHA/MSHP	The proposed regulation would result in an increased amount of	Revised draft USP <797 has new
	CMR 17.00, a pharmacy may not		medication waste and would not be able to store controlled substance	parameters for BUD, max is 90
	exceed the following BUDs:	Blaire	per DEA requirements in automated dispensing machine.	<del>days.</del>
		Pharmacy		
		Consulting	Recommendation: this provision should be made consistent with new	Keep existing default BUD chart or
		_	draft of USP 797.	eonsider new language based on
		Boston		revised chapter.
		Medical	Since there are numerous non-aqueous CSPs, language should be	G
		Center /	added stating: A pharmacy may not assign a BUD to a solid or non-	Suggested language:
		Horbowicz / Vreeland	aqueous (non-water containing) liquid preparation prepared in	Unless otherwise prescribed in 247
		vreeiand	compliance with 247 CMR 17.40 that exceeds the earliest expiration	CMR 17.00, a pharmacy may not exceed the following standard
			date of any ingredient or 180 days, whichever is earlier. This is consistent with both USP and proposed 247 CMR 18.07(1)	BUDs:
			consistent with both OSF and proposed 247 CWK 18.07(1)	<del>DUDS.</del>
				<del>-Or-</del>
				In the absence of a negative sterility
				test, a pharmacy may not exceed
				the shortest BUDs (i.e. standard
				Category 2 BUDs) listed in the
				most current version of USP <797>
				for aseptically prepared CSPs based
				on the nature of the starting
				components and specified storage
				conditions.
				10/18/18/ Board: accept language
				as above.
				as above.
				11/1/18 Board: List standard
				BUD's in revised chapter.
				(1) In the absence of sterility
				testing, a pharmacy may not
				exceed the following BUDs (see
				chart in draft regulations)
17.41(2)	A pharmacy that prepares CSPs in a	Blaire	There is no mention of BUDs in 247 CMR 17.15.	17.16 and 17.17 pertains to BUD
	DCR shall apply BUDs in	Pharmacy		for DCR.
	accordance with 247 CMR 17.15.	Consulting		Strike as DCR being eliminated.
17.41(4)	A pharmacy may not exceed BUDs	Blaire	Sections 17.41(5) and (6) should be removed, as they are superfluous	Revised Draft USP <797>
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	unless it has scientific evidence that the CSP remains potent, stable, and sterile under specified storage conditions for the duration of the BUD. Such evidence may be from relevant and reliable sources or direct testing.	Pharmacy Consulting	and contradictory to section (4). Likewise, they anticipate proposed language in USP <797> that may or may not be adopted until December 1, 2019.	maximum BUD is 90 days  The section applies to BUDs that are greater than the default up to the proposed cap.  Suggested language: A pharmacy may not exceed standard BUDs unless it has scientific evidence that the CSP remains potent, stable, and sterile under specified storage conditions for the duration of the BUD. Such evidence may be from relevant and
17.41(5)	A pharmacy may not assign a BUD to a low or medium risk level CSP that is greater than 90 days from the date of compounding.	Blaire Pharmacy Consulting Pentec	Blaire: Sections (5) and (6) should be removed, as they are superfluous and contradictory to section (4). Likewise, they anticipate proposed language in USP <797> that may or may not be adopted until December 1, 2019.  Pentec: Eliminate. We believe if a pharmacy has performed direct testing that indicates a medication retains its sterility and potency under the guides of USP <797>, the pharmacy should be allowed to dispense medications with increased BUD expirations without having a restriction imposed. We feel unless scientific evidence shows a patient is less susceptible to harm prior to the 45 day BUD and susceptible to increased harm after the 45 day BUD despite sterility and potency testing, this regulation imposes unnecessary restrictions on a pharmacy.	reliable sources or direct testing.  Board discussion Revised Draft USP <797> maximum BUD is 90 days  10/18/18 Board: use Table 12 in current draft, but must use the stricter of this or the current USP; absolute max of 90 days; delete the non-terminally sterilized row in Table 12  11/1/18 Board: A pharmacy may not assign a BUD to any CSP that exceeds 90 days from the date of compounding.
17.41(6)	A pharmacy may not assign a BUD to a high risk level CSP that is greater than 45 dates from eth date of compounding.	Blaire Pharmacy Consulting.	Sections (5) and (6) should be removed, as they are superfluous and contradictory to section (4). Likewise, they anticipate proposed language in USP <797> that may or may not be adopted until December 1, 2019.	Board discussion Revised Draft USP <797> maximum BUD is 90 days  10/18/18 Board: see above  11/1/18 Board: see above
17.41(9)	A pharmacy shall utilize freezer units	BioSrip	The term "freezer" is not defined. Further, the Board could limit the Page 104 of 108	No change recommended.

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type and number of freezer companies. These sorts of limitations could raise the pricing of these items and therefore limit provision of service as the cost of service rises.  MHAMSHP formulation record to ensure CSPs compounded pursuant to that master formulation record are stable and sterile and have the correct potency. A pharmacy shall conduct the verification:  (a) upon the creation of the master formulation record (b) at least annually for high risk CSPs. (c) upon any change in product, process, equipment, or supplies; (d) at least quarterly for high risk CSPs with extended BUDs or intermediate or stock solutions.  MIPA Mount Aubrur Hoopital Center Horbowicz / Vreeland  NCPA  Pentec  Tomographics (a) The properties of the CSPs (conduct quarterly or annual potency, stability, or sterility testing is safety to conduct quarterly or annual potency, stability, or sterility testing is conduct quarterly or annual potency, stability, or sterility testing is conduct quarterly or annual potency, stability, or sterility testing is conduct quarterly or annual potency, stability, or sterility testing is conduct quarterly or annual potency, stability, or sterility testing is safety to conduct quarterly or annual potency, stability, or sterility testing is safety to conduct quarterly or annual potency, stability, or sterility testing is safety to conduct quarterly or annual potency, stability, or sterility through some scientifically acceptable means, and sterility testing is safety to conduct quarterly or annual potency, stability, or sterility and through some scientifically acceptable means, and sterility testing is safety to conduct quarterly or annual potency, stability, or sterility and conduct this validation in initially and potency to the master formulation record to the master formulation record to the confirmacy's means. No extemporation would exceed its BID date before stability, potency, and sterility testing is conducted programment. The formulation record to the master formulation would exceed its BID dat					
A pharmacy shall verify each master formulation record to ensure CSPs compounded pursuant to that master formulation record are stable and sterile and have the correct potency. A pharmacy shall conduct the verification:  (a) upon the creation of the master formulation record (b) at least animally for high risk CSPs: (b) at least quaretry for high risk CSPs with extended BUDs or intermediate or stock solutions.  (b) at least quaretry for high risk CSPs with extended BUDs or intermediate or stock solutions.  (c) upon any change in product, process, equipment, or supplies; (d) at least quaretry for high risk CSPs with extended BUDs or intermediate or stock solutions.  (c) Everland  MIPA Boston or intermediate or stock solutions.  MIPA Boston or intermediate or stock solutions or other correct promobile or the exhibition of the master formulation record in the savinged BUD:  (a) Everland or stock solutions or other correct potency formulation or the master formulation record in the following is types of CSPs componended pursuant to that master formulation record in the fall solution record in the fol		that freeze CSPs to a frozen state.			
A pharmacy shall verify each master formulation record to exercifically acceptable means or intermediate or stock solutions.  A pharmacy shall verify each master formulation record are stable and sterile and have the correct potency. A pharmacy shall conduct the verification:  (a) upon the creation of the master formulation record to exercificate (by potency activity) in the case of low/medium anticipatory compounding when BUDs will not be extended.  Apharmacy shall validate that the following types of CSPs compounded pursuant to that master formulation record to exercificate (by potency and stability of the master formulation record to exercificate).  Apharmacy shall conduct the verification of compounding when BUDs will not be extended.  ACP: Revise to read:  ACP: Revise to read:					
formulation record to 'ensure CSPs compounded pursuant to that master formulation record are stable and sterile and have the correct potency.  A pharmacy shall conduct the verification:  (a) upon the creation of the master formulation record; (b) at least annually for high risk CSPs; (c) upon any change in product, process, equipment, or supplies; (d) at least quarterly for high risk CSPs with extended BUDs or intermediate or stock solutions.  MOUNT Albibrai Hospital  NCPA  NCPA  NCPA  NCPA  NCPA  NCPA  NCPA  NCPA  NCPA  Pentec  Fecord to be verified (by potency and sterility (seting) in the case of the verification; of the waster formulation record to ensure formulation record are sterile, stable, and have the correct potency of the assigned at Dist CSP."  A pharmacy shall create each master formulation record to ensure formulation record are sterile, stable, and have the correct potency of the assigned to that CSP."  (a) In the least quarterly for high risk CSPs with extended BUDs or intermediate or stock solutions.  NCPA  Pentec  Pentec  Pentec  Pentec  Pentec  Pentec  Pentec  NCPA  N					
compounded pursuant to that master formulation record are stable and sterile and have the correct potency. A pharmacy shall conduct the verification:  (a) upon the creation of the master formulation record; (b) at least annually for high risk CSPs; (c) upon any change in product, process, equipment, or supplies; (d) at least quarterly for high risk CSPs with extended BUDs or intermediate or stock solutions.  MIPA  Mount Auburn Hospital  NCPA  Pentec  Month Advantage in the formulation of the master formulation record to ensure preparations compounded pursuant to that master formulation record to ensure preparations compounded pursuant to that master formulation record to ensure preparations compounded pursuant to that master formulation record are sterile, stable, and have the correct potency for the BUDs or intermediate or stock solutions.  MIPA  Mount Auburn Hospital  NCPA  Pentec  NCPA  Pothowicz / Grown and sterilic and have the correct potency formulation record to ensure control that master formulation record to ensure control are sterile, stable, and have the correct potency for the BUDs or intermediate or stock solutions.  Within the proposed regulation, it is unclear what would constitute would exact in the proposed regulation, it is unclear what would constitute would exact in stability, and stability.  Within the proposed regulation, it is unclear what would constitute would exact in stability and stability of the master formulation record in the freezer.  Assuming potency and stability, or sterility testing is occurring on each batch, there appears to be no benefit to public vertically acceptable wernification of stability.  Dishnon: Verifying EVERY MFR that meets onc or more of the criteria listed in 17-43(2)(a)-(c) would require testing beyond a pharmacy's means. No extemporaneous compounded with the proposed of the master formulation record in the following proposed and stability, and potency, stability, or steril	17.43(2)		MHA/MSHP		Suggested language:
formulation record are stable and sterile and have the correct potencey. A pharmacy shall conduct the verification:  (a) upon the creation of the master formulation record; (b) at least annually for high risk CSPs; (c) upon any change in product, process, equipment, or supplies; (d) at least quarterly for high risk CSPs with extended BUDs or intermediate or stock solutions.  MIPA Boston Mount Auburn Hospital  NCPA  NCPA  Pentec  (EXEMINE A)  NCPA  NCPA  Pentec    Milbani   Mount Auburn Hospital   Mount Auburn Hospital   Mount Auburn Hospital   Mount Auburn Hospital   NCPA   Pentec					
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17.42(2)	A shawaaa shall sill sa sa sili sa sa sili sa sa sili sa	Dia Cari	have the correct potency if the formulation is: (a) used a stock or intermediary solution; (b) assigned as BUD greater than USP <797> BUD standards; and/ or (c) prepared in anticipation of a patient specific prescription. Verification shall occur: (a) upon first use of the master formulation record; and (b) at least once annually.  NCPA: Requiring the verification of every MFR would limit the formulations that sterile compounding pharmacies could prepare and would incur greatly increased costs.  Pentec: Clarify what is "correct potency." Subsection (b) is excessive and places unnecessary financial burden on pharmacy. Testing should only be required if something in the process and/or supplies and equipment has changed since the previous testing.	Markov variable in the state of
17.43(3)	A pharmacy shall utilize a qualified professional to conduct the stability, sterility, and potency tests.	BioScrip	This is not well defined. If the Board defines the term "qualified professional" this could limit the number of providers allowable, thus raising costs and potentially limiting access.	No change recommended.
17.43(4)	A master formulation record shall include:	Kelly Barnes	Add new provision at (4)(o) to align with 247 CMR 18.00  Labeling information, including: (i) generic name and quantity or concentration of each active ingredient; (ii) BUD; (iii) storage conditions; and (iv) prescription, lot, or control number, whichever is applicable.	Agree with recommendation; add all except lot number.  Lot number to be added to compounding record.
17.43(4)(1)	Endotoxin limit, as applicable.	Johnson Compounding / Walczyk / Fallon / Allibhani / Petrosillo MIPA	Remove this requirement. Endotoxin limits are in part, based on the average patient's weight and the volume of preparation to be administered.  Endotoxin limit calculations are typically performed by the professionals performing the endotoxin tests and are provided to the pharmacy with the test results. It does not make sense to include this information on the MFR as it may change based on patient weight and max volume to be administered.  This would also require that some pharmacies retroactively modify their MFR's post compounding.	Agree to strike

17.44(1)	A compounding record shall include:	Kelly Barnes	Change to:	Agree with recommendation.
	<ul> <li>(k) lot number, if applicable;</li> <li>(l) prescription or order number;</li> <li>(m) assigned BUD;</li> <li>(n) duplicate container label if prepared in a batch;</li> </ul>		(k) lot number, prescription, or order number, as applicable; (l) prescription or order number; (m) assigned BUD; (n) duplicate container label or label elements as described in the Master Formulation Record if prepared in a batch;	Label elements are not required in new draft of 797.
17.45(2)	After compounding is completed, a pharmacist shall visually examine each CSP for the presence of particulate matter with a lighted white and black background or high intensity LED light, unless the CSP is light sensitive.	Anazao Health GE Healthcare BioScrip	Anazao: Change requirement from "pharmacist shall" to "properly trained person shall" Every CSP should be examined, but the criteria for who performs the visual inspection should be training.  GE: Change " unless the CSP is light sensitive or radioactive." Visual examination of radiopharmaceuticals is extremely dangerous.  BioScrip: The requirement to use a box rather than when a pharmacist is their professional judgment needs to supplement their initial visual inspection is onerous and unnecessary.	Suggested language:  After compounding is completed, a pharmacist shall visually examine each CSP for the presence of particulate matter or other defects with a lighted white and black background or high intensity LED light, unless the CSP is light sensitive.
17.46(1)	In addition to standard prescription labeling requirements, a pharmacy shall include the following information on the label or container of each CSP:  (a) BUD;  (b) batch or lot number of anticipatorily prepared CSPs;  (c) storage and handling information; and  (d) the statement, "this is a sterile compounded drug preparation."	Mount Auburn Hospital	Remove "This is a" in place of "Sterile Compounded Drug Preparation." As real estate on a prescription label is limited, truncating this statement in place of more important label notes for end users is more important.  Remove this requirement. ISMP recommendations for labeling advise that labels should be as clear as possible. Adding more required words will detract from the important information that is already there.  Pentec: Regarding (d), we do not feel the wording as is should be placed on a label. Recommend the statement, "sterile compounded drug preparation" or "sterile compounded medication"	Suggested language:  (d) a statement indicating that the product is a sterile compounded drug preparation
17.48(2)	In addition to the counseling described in M.G.L. c. 94C, § 21A, counseling on a CSP shall include the proper use, possible side effects, storage, handling, and disposal of the medication, as applicable.	Kelly Barnes	Clarify that counseling requirement contained within proposed 247 CMR 9.16(10) applies to all new prescriptions for CSPs and to align with proposed 247 CMR 18.00.  Clarify counseling requirements to not apply to inpatient setting.	Counseling exception for inpatients is at 17.48(5).
17.50	Sterile Compounding Policies and Procedures	Kelly Barnes	Add two new categories: (19) cleaning and disinfecting; and (20) potency/stability testing, as applicable.	Agree with recommendation

17.50(7)	A pharmacy shall maintain a written	BioScrip	This language is extremely broad and the value of this section is	Agree to strike and make be
	policy and procedure pertaining to		questionable.	practice
	the following:			
	(7) change control, including			
	planning, implementation, and			
	validation of new or changed			
	facilities, equipment, or processes;			