




Commonwealth of Massachusetts
Executive Office of Health and Human Services
Division of Medical Assistance
600 Washington Street
Boston, MA 02111
www.mass.gov/dma

MASSHEALTH
TRANSMITTAL LETTER LAB-23
March 2003

TO: Independent Clinical Laboratories Participating in MassHealth
FROM: Douglas S. Brown, Acting Commissioner 
RE: *Independent Clinical Laboratory Manual (2003 HCPCS)*

The federal government has revised the HCFA Common Procedure Coding System (HCPCS) for MassHealth billing.

This letter transmits changes to your provider manual that contain the new and revised codes. The revised Subchapter 6 is effective for dates of service on or after April 1, 2003.

If you wish to obtain a fee schedule, you may purchase Division of Health Care Finance and Policy regulations from either the Massachusetts State Bookstore or from the Division of Health Care Finance and Policy (see addresses and telephone numbers below). You must contact them first to find out the price of the publication. The Division of Health Care Finance and Policy also has regulations available on disk. The regulation title is 114.3 CMR 20.00: Laboratory.

Massachusetts State Bookstore
State House, Room 116
Boston, MA 02133
Telephone: 617-727-2834
www.mass.gov/sec/spr

Division of Health Care Finance and Policy
Two Boylston Street
Boston, MA 02116
Telephone: 617-988-3100
www.mass.gov/dhcfp

DMA Web Site

This transmittal letter and attached pages are available on the Division's Web site at www.mass.gov/dma.

Questions

If you have any questions about this transmittal letter, please contact MassHealth Provider Services at 617-628-4141 or 1-800-325-5231.

NEW MATERIAL

(The pages listed here contain new or revised language.)

Independent Clinical Laboratory Manual

Pages vi and 6-13 through 6-34

OBSOLETE MATERIAL

(The pages listed here are no longer in effect.)

Independent Clinical Laboratory Manual

Pages vi and 6-13 through 6-36 — transmitted by Transmittal Letter LAB-22

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601 Laboratory Service Codes and Descriptions (cont.)

Service

Code Service Description

83864 Mucopolysaccharides, acid; quantitative
 83866 screen
 83872 Mucin, synovial fluid (Ropes test)
 83873 Myelin basic protein, cerebrospinal fluid
 83874 Myoglobin
 83880 Natriuretic peptide
 83883 Nephelometry, each analyte not elsewhere specified
 83885 Nickel
 83887 Nicotine

Molecular Diagnostics

The series of codes 83890-83912 is intended for use with molecular diagnostic techniques for analysis of nucleic acids. These services are coded by procedure rather than analyte. Code separately for each procedure used in an analysis. For example, a procedure requiring isolation of DNA, restriction endonuclease digestion, electrophoresis, and nucleic acid probe amplification would be coded 83890, 83892, 83894, and 83898.

83890 Molecular diagnostics; molecular isolation or extraction
 83891 isolation or extraction of highly purified nucleic acid
 83892 enzymatic digestion
 83893 dot/slot blot production
 83894 separation by gel electrophoresis (e.g., agarose, polyacrylamide)
 83896 nucleic acid probe, each
 83897 nucleic acid transfer (e.g., Southern, Northern)
 83898 amplification of patient nucleic acid (e.g., PCR, LCR), single primer pair, each primer pair
 83901 amplification of patient nucleic acid, multiplex, each multiplex reaction
 83902 reverse transcription
 83903 mutation scanning, by physical properties (e.g., single strand conformational polymorphisms (SSCP), heteroduplex, denaturing gradient gel electrophoresis (DGGE), RNA'ase A), single segment, each
 83904 mutation identification by sequencing, single segment, each segment
 83905 mutation identification by allele specific transcription, single segment, each segment
 83906 mutation identification by allele specific translation, single segment, each segment
 83912 interpretation and report
 83915 Nucleotidase 5-
 83916 Oligoclonal immune (oligoclonal bands)
 83918 Organic acids; total, quantitative, each specimen
 83919 qualitative, each specimen
 83921 Organic acid, single, quantitative
 83925 Opiates (e.g., morphine, meperidine)

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601 Laboratory Service Codes and Descriptions (cont.)

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83930	Osmolality; blood
83935	urine
83937	Osteocalcin (bone gla protein) (I.C.)
83945	Oxalate
83950	Oncoprotein, HER-2/neu
83970	Parathormone (parathyroid hormone)
83986	pH, body fluid, except blood
83992	Phencyclidine (PCP)
84022	Phenothiazine
84030	Phenylalanine (PKU), blood
84035	Phenylketones, qualitative
84060	Phosphatase, acid; total
84066	prostatic
84075	Phosphatase, alkaline
84078	heat stable (total not included)
84080	isoenzymes
84081	Phosphatidylglycerol
84085	Phosphogluconate, 6-, dehydrogenase, RBC
84087	Phosphohexose isomerase
84100	Phosphorus inorganic (phosphate);
84105	urine
84106	Porphobilinogen, urine; qualitative
84110	quantitative
84119	Porphyrins, urine; qualitative
84120	quantitation and fractionation
84126	Porphyrins, feces; quantitative
84127	qualitative
84132	Potassium; serum
84133	urine
84134	Prealbumin
84135	Pregnanediol
84138	Pregnanetriol
84140	Pregnenolone (I.C.)
84143	17-hydroxypregnenolone (I.C.)
84144	Progesterone
84146	Prolactin
84150	Prostaglandin, each
84152	Prostate specific antigen (PSA); complexed (direct measurement)
84153	total
84154	free
84155	Protein; total, except refractometry
84160	refractometric
84165	electrophoretic fractionation and quantitation
84181	Western Blot, with interpretation and report, blood or other body fluid

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84182	Western Blot, with interpretation and report, blood or other body fluid, immunological probe for band identification, each
84202	Protoporphyrin, RBC; quantitative
84203	screen
84206	Proinsulin
84207	Pyridoxal phosphate (vitamin B-6)
84210	Pyruvate
84220	Pyruvate kinase
84228	Quinine
84233	Receptor assay; estrogen
84234	progesterone
84235	endocrine, other than estrogen or progesterone (specify hormone)
84238	non-endocrine (e.g., acetylcholine) (specify receptor)
84244	Renin
84252	Riboflavin (vitamin B-2)
84255	Selenium
84260	Serotonin
84270	Sex hormone binding globulin (SHBG)
84275	Sialic acid
84285	Silica
84295	Sodium; serum
84300	urine
84302	other source
84305	Somatomedin
84307	Somatostatin
84311	Spectrophotometry, analyte not elsewhere specified
84315	Specific gravity (except urine)
84375	Sugars, chromatographic, TLC or paper chromatography
84376	Sugars (mon-, di, and oligosaccharides); single qualitative, each specimen
84377	multiple qualitative, each specimen
84378	single quantitative, each specimen
84379	multiple quantitative, each specimen
84392	Sulfate, urine
84402	Testosterone; free
84403	total
84425	Thiamine (vitamin B-1)
84430	Thiocyanate
84432	Thyroglobulin
84436	Thyroxine; total
84437	requiring elution (e.g., neonatal)
84439	free
84442	Thyroxine binding globulin (TBG)
84443	Thyroid-stimulating hormone (TSH)
84445	Thyroid-stimulating immune globulins (TSI)
84446	Tocopherol alpha (vitamin E)

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84449	Transcortin (cortisol binding globulin) (I.C.)
84450	Transferase; aspartate amino (AST) (SGOT)
84460	alanine amino (ALT) (SGPT)
84466	Transferrin (I.C.)
84478	Triglycerides
84479	Thyroid hormone (T3 or T4) uptake or thyroid hormone binding ratio (THBR)
84480	Triiodothyronine T3; total (TT-3)
84481	free
84482	reverse
84484	Troponin, quantitative
84485	Trypsin; duodenal fluid
84488	feces, qualitative
84490	feces, quantitative, 24-hour collection
84510	Tyrosine
84512	Troponin, qualitative
84520	Urea nitrogen; quantitative
84525	semiquantitative (e.g., reagent strip test)
84540	Urea nitrogen, urine
84545	Urea nitrogen, clearance
84550	Uric acid; blood
84560	other source
84577	Urobilinogen, feces, quantitative
84578	Urobilinogen, urine; qualitative
84580	quantitative, timed specimen
84583	semiquantitative
84585	Vanillylmandelic acid (VMA), urine
84586	Vasoactive intestinal peptide (VIP) (I.C.)
84588	Vasopressin (antidiuretic hormone, ADH)
84590	Vitamin A
84591	Vitamin, not otherwise specified
84597	Vitamin K
84600	Volatiles (e.g., acetic anhydride, carbon tetrachloride, dichloroethane, dichloromethane, diethylether, isopropyl alcohol, methanol)
84620	Xylose absorption test, blood and/or urine
84630	Zinc
84681	C-peptide
84702	Gonadotropin, chorionic (hCG); quantitative
84703	qualitative
84999	Unlisted chemistry procedure (I.C.)

HEMATOLOGY AND COAGULATION

85002	Bleeding time
85004	Blood count; automated differential WBC count
85007	blood smear, microscopic examination with manual differential WBC count

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85008	blood smear, microscopic examination without manual differential WBC count
85009	manual differential WBC count, buffy coat
85013	spun microhematocrit
85014	hematocrit (Hct)
85018	hemoglobin (Hgb)
85025	complete (CBC), automated (Hgb, Hct, RBC, WBC and platelet count) and automated differential WBC count
85027	complete (CBC), automated (Hgb, Hct, RBC, WBC and platelet count)
85032	manual cell count (erythrocyte, leukocyte, or platelet) each
85041	red blood cell (RBC), automated
85044	reticulocyte, manual
85045	reticulocyte, automated
85046	reticulocytes, hemoglobin concentration
85048	leukocyte (WBC), automated
85049	platelet, automated
85060	Blood smear, peripheral, interpretation by physician with written report
85097	Bone marrow, smear interpretation
85130	Chromogenic substrate assay
85170	Clot retraction
85175	Clot lysis time, whole blood dilution
85210	Clotting; factor II, prothrombin, specific
85220	factor V (AcG or proaccelerin), labile factor
85230	factor VII (proconvertin, stable factor)
85240	factor VIII (AHG), one stage
85244	factor VIII related antigen
85245	factor VIII, VW factor, ristocetin cofactor
85246	factor VIII, VW factor antigen
85247	factor VIII, von Willebrand factor, multimetric analysis
85250	factor IX (PTC or Christmas)
85260	factor X (Stuart-Prower)
85270	factor XI (PTA)
85280	factor XII (Hageman)
85290	factor XIII (fibrin stabilizing)
85291	factor XIII (fibrin stabilizing), screen solubility
85292	prekallikrein assay (Fletcher factor assay)
85293	high molecular weight kininogen assay (Fitzgerald factor assay)
85300	Clotting inhibitors or anticoagulants; antithrombin III, activity
85301	antithrombin III, antigen assay
85302	protein C, antigen
85303	protein C, activity
85305	protein S, total
85306	protein S, free
85307	Activated Protein C (APC) resistance assay
85335	Factor inhibitor test
85337	Thrombomodulin

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601 Laboratory Service Codes and Descriptions (cont.)

Service
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85345	Coagulation time; Lee and White
85347	activated
85348	other methods
85360	Euglobulin lysis
85362	Fibrin(ogen) degradation (split) products (FDP)(FSP); agglutination slide; semiquantitative
85366	paracoagulation
85370	quantitative
85378	Fibrin degradation products, D-dimer; qualitative or semiquantitative
85379	quantitative
85380	ultrasensitive (e.g., for evaluation for venous thromboembolism), qualitative or semiquantitative
85384	Fibrinogen; activity
85385	antigen
85390	Fibrinolysins or coagulopathy screen, interpretation and report
85400	Fibrinolytic factors and inhibitors; plasmin
85410	alpha-2 antiplasmin
85415	plasminogen activator
85420	plasminogen, except antigenic assay
85421	plasminogen, antigenic assay
85441	Heinz bodies; direct
85445	induced, acetyl phenylhydrazine
85460	Hemoglobin or RBCs, fetal, for fetomaternal hemorrhage; differential lysis (Kleihauer-Betke)
85461	rosette
85475	Hemolysin, acid
85520	Heparin assay
85525	Heparin neutralization
85530	Heparin-protamine tolerance test
85536	Iron stain, peripheral blood
85540	Leukocyte alkaline phosphatase with count
85547	Mechanical fragility, RBC
85549	Muramidase
85555	Osmotic fragility, RBC; unincubated
85557	incubated
85576	Platelet; aggregation (in vitro), each agent
85597	Platelet neutralization
85610	Prothrombin time
85611	substitution, plasma fractions, each
85612	Russell viper venom time (includes venom); undiluted
85613	diluted
85635	Reptilase test
85651	Sedimentation rate, erythrocyte; non-automated
85652	automated
85660	Sickling of RBC, reduction
85670	Thrombin time; plasma
85675	titer

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85705 Thromboplastin inhibition; tissue
 85730 Thromboplastin time, partial (PTT); plasma or whole blood
 85732 substitution, plasma fractions, each
 85810 Viscosity
 85999 Unlisted hematology and coagulation procedure (I.C.)

IMMUNOLOGY

86000 Agglutinins, febrile (e.g., Brucella, Francisella, Murine typhus, Q fever, Rocky Mountain spotted fever, scrub typhus), each antigen
 86001 Allergen specific IgG; quantitative or semiquantitative, each allergen
 86003 Allergen specific IgE; quantitative or semiquantitative, each allergen
 86005 qualitative, multiallergen screen (dipstick, paddle, or disk)
 86021 Antibody identification; leukocyte antibodies
 86022 platelet antibodies
 86023 platelet-associated immunoglobulin assay
 86038 Antinuclear antibodies (ANA)
 86039 titer
 86060 Antistreptolysin O; titer
 86063 screen
 86140 C-reactive protein
 86141 high sensitivity (hsCRP)
 86146 Beta 2 Glycoprotein I antibody, each
 86147 Cardiolipin (phospholipid) antibody, each Ig class
 86148 Anti-phosphatidylserine (phospholipid) antibody
 86155 Chemotaxis assay, specify method
 86156 Cold agglutinin; screen
 86157 titer
 86160 Complement; antigen, each component
 86161 functional activity, each component
 86162 total hemolytic (CH50)
 86171 Complement fixation tests, each antigen
 86185 Counterimmunoelectrophoresis, each antigen
 86215 Deoxyribonuclease, antibody
 86225 Deoxyribonucleic acid (DNA), antibody; native or double stranded
 86226 single stranded
 86235 Extractable nuclear antigen, antibody to, any method (e.g., nRNP, SS-A, SS-B, Sm, RNP, Sc170, J01), each antibody
 86243 Fc receptor
 86255 Fluorescent noninfectious agent antibody; screen, each antibody
 86256 titer, each antibody
 86277 Growth hormone, human (HGH), antibody
 86280 Hemagglutination inhibition test (HAI)
 86294 Immunoassay for tumor antigen, qualitative or semiquantitative (e.g., bladder tumor antigen)
 86300 Immunoassay for tumor antigen, quantitative; CA 15-3 (27.29)

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601 Laboratory Service Codes and Descriptions (cont.)

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Service Description

86301	CA 19-9
86304	CA 125
86308	Heterophile antibodies; screening
86309	titer
86310	titers after absorption with beef cells and guinea pig kidney
86316	Immunoassay for tumor antigen; other antigen, quantitative (e.g., CA 50, 72-4, 549), each
86317	Immunoassay for infectious agent antibody, quantitative, not otherwise specified
86318	Immunoassay for infectious agent antibody, qualitative or semiquantitative, single step method (e.g., reagent strip)
86320	Immunoelectrophoresis; serum
86325	other fluids (e.g., urine, cerebrospinal fluid) with concentration
86327	crossed (two-dimensional assay)
86329	Immunodiffusion; not elsewhere specified
86331	gel diffusion, qualitative (Ouchterlony), each antigen or antibody
86332	Immune complex assay
86334	Immunofixation electrophoresis
86336	Inhibin A
86337	Insulin antibodies
86340	Intrinsic factor antibodies
86341	Islet cell antibody (I.C.)
86343	Leukocyte histamine release test (LHR)
86344	Leukocyte phagocytosis
86353	Lymphocyte transformation, mitogen (phytomitogen) or antigen-induced blastogenesis
86359	T cells; total count (I.C.)
86360	absolute CD4 and CD8 count, including ratio
86361	absolute CD4 count
86376	Microsomal antibodies (e.g., thyroid or liver-kidney), each
86378	Migration inhibitory factor test (MIF)
86382	Neutralization test, viral
86384	Nitroblue tetrazolium dye test (NTD)
86403	Particle agglutination; screen, each antibody
86406	titer, each antibody
86430	Rheumatoid factor; qualitative
86431	quantitative
86485	Skin test; candida
86490	coccidioidomycosis (I.C.)
86510	histoplasmosis (I.C.)
86586	unlisted antigen, each
86590	Streptokinase, antibody
86592	Syphilis test; qualitative (e.g., VDRL, RPR, ART)
86593	quantitative

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601 Laboratory Service Codes and Descriptions (cont.)

Service
Code

Service Description

The following codes (86602-86804) are qualitative or semiquantitative immunoassays performed by multiple step methods for the detection of antibodies to infectious agents. For immunoassays by single step method (e.g., reagent strips), use code 86318. Procedures for the identification of antibodies should be coded as precisely as possible. For example, an antibody to a virus could be coded with increasing specificity for virus, family, genus, species, or type. In some cases, further precision may be added to codes by specifying the class of immunoglobulin being detected. When multiple tests are done to detect antibodies to organisms classified more precisely than the specificity allowed by available codes, it is appropriate to code each as a separate service. For example, a test for antibody to an enterovirus is coded as 86658. Coxsackieviruses are enteroviruses, but there are no codes for the individual species of enterovirus. If assays are performed for antibodies to coxsackie A and B species, each assay should be separately coded. Similarly, if multiple assays are performed for antibodies of different immunoglobulin classes, each assay should be coded separately.

86602	Antibody; actinomyces
86603	adenovirus
86606	Aspergillus
86609	bacterium, not elsewhere specified
86611	Bartonella
86612	Blastomyces
86615	Bordetella
86617	Borrelia burgdorferi (Lyme disease) confirmatory test (e.g., Western blot or immunoblot)
86618	Borrelia burgdorferi (Lyme disease)
86619	Borrelia (relapsing fever)
86622	Brucella
86625	Campylobacter
86628	Candida
86631	Chlamydia
86632	Chlamydia, IgM
86635	Coccidioides
86638	Coxiella Brunetii (Q fever)
86641	Cryptococcus
86644	cytomegalovirus (CMV)
86645	cytomegalovirus (CMV), IgM
86648	Diphtheria
86651	encephalitis, California (La Crosse)
86652	encephalitis, Eastern equine
86653	encephalitis, St. Louis
86654	encephalitis, Western equine
86658	enterovirus (e.g., coxsackie, echo, polio)
86663	Epstein-Barr (EB) virus, early antigen (EA)
86664	Epstein-Barr (EB) virus, nuclear antigen (EBNA)
86665	Epstein-Barr (EB) virus, viral capsid (VCA)
86666	Ehrlichia
86668	Francisella Tularensis

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86671	fungus, not elsewhere specified
86674	Giardia Lamblia
86677	Helicobacter pylori
86682	helminth, not elsewhere specified
86684	Hemophilus influenza
86687	HTLV-I
86688	HTLV-II
86689	HTLV or HIV antibody, confirmatory test (e.g., Western blot)
86692	hepatitis, delta agent
86694	herpes simplex, non-specific type test
86695	herpes simplex, type 1
86696	herpes simplex, type 2
86698	histoplasma
86701	HIV-1
86702	HIV-2
86703	HIV-1 and HIV-2, single assay
86704	Hepatitis B core antibody (HBcAb); total
86705	IgM antibody
86706	Hepatitis B surface antibody (HBsAb)
86707	Hepatitis Be antibody (HBeAb)
86708	Hepatitis A antibody (HAAb); total
86709	IgM antibody
86710	Antibody; influenza virus
86713	Legionella
86717	Leishmania
86720	Leptospira
86723	Listeria monocytogenes
86727	lymphocytic choriomeningitis
86729	Lymphogranuloma Venereum
86732	mucormycosis
86735	mumps
86738	Mycoplasma
86741	Neisseria meningitidis
86744	Nocardia
86747	parvovirus
86750	Plasmodium (malaria)
86753	protozoa, not elsewhere specified
86756	respiratory syncytial virus
86757	Rickettsia
86759	rotavirus
86762	rubella
86765	rubeola
86768	Salmonella
86771	Shigella
86774	tetanus

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86777 Toxoplasma
86778 Toxoplasma, IgM
86781 Treponema Pallidum, confirmatory test (e.g., FTA-abs)
86784 trichinella
86787 varicella-zoster
86790 virus, not elsewhere specified
86793 Yersinia
86800 Thyroglobulin antibody
86803 Hepatitis C antibody;
86804 confirmatory test (e.g., immunoblot)

Tissue Typing

86805 Lymphocytotoxicity assay, visual crossmatch; with titration
86806 without titration
86807 Serum screening for cytotoxic percent reactive antibody (PRA); standard method
86808 quick method
86812 HLA typing; A, B, or C (e.g., A10, B7, B27), single antigen
86813 A, B, or C, multiple antigens
86816 DR/DQ, single antigen
86817 DR/DQ, multiple antigens
86821 lymphocyte culture, mixed (MLC)
86822 lymphocyte culture, primed (PLC)
86849 Unlisted immunology procedure (I.C.)

TRANSFUSION MEDICINE

86850 Antibody screen, RBC, each serum technique (I.C.)
86860 Antibody elution (RBC), each elution (I.C.)
86870 Antibody identification, RBC antibodies, each panel for each serum technique (I.C.)
86880 Antihuman globulin test (Coombs test); direct, each antiserum
86885 indirect, qualitative, each antiserum
86886 indirect, titer, each antiserum
86900 Blood typing; ABO
86901 Rh (D) (I.C.)
86903 antigen screening for compatible blood unit using reagent serum, per unit screened
86904 antigen screening for compatible unit using patient serum, per unit screened
86905 RBC antigens, other than ABO or Rh (D), each
86906 Rh phenotyping, complete
86920 Compatibility test each unit; immediate spin technique (I.C.)
86921 incubation technique (I.C.)
86922 antiglobulin technique (I.C.)
86940 Hemolysins and agglutinins; auto, screen, each
86941 incubated

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- 86970 Pretreatment of RBCs for use in RBC antibody detection, identification, and/or compatibility testing; incubation with chemical agents or drugs, each
- 86971 incubation with enzymes, each
- 86972 by density gradient separation
- 86975 Pretreatment of serum for use in RBC antibody identification; incubation with drugs, each
- 86976 by dilution
- 86977 incubation with inhibitors, each
- 86978 by differential red-cell absorption using patient RBCs or RBCs of known phenotype, each absorption
- 86999 Unlisted transfusion medicine procedure (I.C.)

MICROBIOLOGY

- 87001 Animal inoculation, small animal; with observation
- 87003 with observation and dissection
- 87015 Concentration (any type), for infectious agents
- 87040 Culture, bacterial; blood, with isolation and presumptive identification of isolates (includes anaerobic culture, if appropriate)
- 87045 feces, with isolation and preliminary examination (e.g., KIA, LIA), Salmonella and Shigella species
- 87046 stool, additional pathogens, isolation and preliminary examination (e.g., Campylobacter, Yersinia, Vibrio, E. coli 0157), each plate
- 87070 any other source except urine, blood, or stool, with isolation and presumptive identification of isolates
- 87071 quantitative, aerobic with isolation and presumptive identification of isolates, any source except urine, blood, or stool
- 87073 quantitative, anaerobic with isolation and presumptive identification of isolates, any source except urine, blood, or stool
- 87075 any source, anaerobic with isolation and presumptive identification of isolates
- 87076 anaerobic isolate, additional methods required for definitive identification, each isolate
- 87077 aerobic isolate, additional methods required for definitive identification, each isolate
- 87081 Culture, presumptive, pathogenic organisms, screening only
- 87084 with colony estimation from density chart
- 87086 Culture, bacterial; quantitative colony count, urine
- 87088 with isolation and presumptive identification of isolates, urine
- 87101 Culture, fungi (mold or yeast) isolation, with presumptive identification of isolates; skin, hair, or nail
- 87102 other source (except blood)
- 87103 blood
- 87106 Culture, fungi, definitive identification, each organism; yeast (Use in addition to codes 87101, 87102, or 87103 when appropriate.)
- 87107 mold
- 87109 Culture, mycoplasma, any source
- 87110 Culture, chlamydia, any source

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601 Laboratory Service Codes and Descriptions (cont.)

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87116	Culture, tubercle or other acid-fast bacilli (e.g., TB, AFB, mycobacteria) any source, with isolation and presumptive identification of isolates
87118	Culture, mycobacteria, definitive identification, each isolate
87140	Culture, typing; immunofluorescent method, each antiserum
87143	gas-liquid chromatography (GLC) or high pressure liquid chromatography (HPLC) method
87147	immunologic method, other than immunofluorescence (e.g., agglutination grouping), per antiserum
87149	identification by nucleic acid probe
87152	identification by pulse field gel typing
87158	other methods
87164	Dark field examination, any source (e.g., penile, vaginal, oral, skin); includes specimen collection
87166	without collection
87168	Macroscopic examination; arthropod
87169	parasite
87172	Pinworm exam (e.g., cellophane tape prep)
87176	Homogenization, tissue, for culture
87177	Ova and parasites, direct smears, concentration and identification
87181	Susceptibility studies, antimicrobial agent; agar dilution method, per agent (e.g., antibiotic gradient strip)
87184	disk method, per plate (12 or fewer agents)
87185	enzyme detection (e.g., beta lactamase), per enzyme
87186	microdilution or agar dilution (minimum inhibitory concentration (MIC) or breakpoint), each multiantimicrobial, per plate
87187	microdilution or agar dilution, minimum lethal concentration (MLC), each plate (List separately in addition to code for primary procedure.)
87188	macrobroth dilution method, each agent
87190	mycobacteria, proportion method, each agent
87197	Serum bactericidal titer (Schlichter test)
87205	Smear, primary source with interpretation; Gram or Giemsa stain for bacteria, fungi, or cell types
87206	fluorescent and/or acid-fast stain for bacteria, fungi, parasites, viruses, or cell types
87207	special stain for inclusion bodies or parasites (e.g., malaria, coccidia, microsporidia, trypanosomes, herpes viruses)
87210	wet mount for infectious agents (e.g., saline, India ink, KOH preps)
87220	Tissue examination by KOH slide of samples from skin, hair, or nails for fungi or ectoparasite ova or mites (e.g., scabies)
87230	Toxin or antitoxin assay, tissue culture (e.g., Clostridium difficile toxin)
87250	Virus isolation; inoculation of embryonated eggs, or small animal, includes observation and dissection
87252	tissue culture inoculation, observation, and presumptive identification by cytopathic effect
87253	tissue culture, additional studies or definitive identification (e.g., hemabsorption, neutralization, immunofluorescence stain), each isolate
87254	centrifuge enhanced (shell vial) technique, includes identification with immunofluorescence stain, each virus

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- 87255 including identification by non-immunologic method, other than by cytopathic effect (eg, virus specific enzymatic activity)
- Infectious agents by antigen detection, immunofluorescence microscopy; or nucleic acid probe techniques should be reported as precisely as possible. The most specific code possible should be reported. If there is no specific agent code, the general methodology code (e.g., 87299, 87449, 87450, 87797, 87798, 87799, 87899) should be used. For identification of antibodies to many of the listed infectious agents, see 86602-86804.
- 87260 Infectious agent antigen detection by immunofluorescent technique; adenovirus
- 87265 Bordetella pertussis/parapertussis
- 87267 Enterovirus, direct fluorescent antibody (DFA)
- 87270 Chlamydia trachomatis
- 87271 Cytomegalovirus, direct fluorescent antibody (DFA)
- 87272 cryptosporidium/giardia
- 87273 Herpes simplex virus type 2
- 87274 Herpes simplex virus type 1
- 87275 influenza B virus
- 87276 influenza A virus
- 87277 Legionella micdadei
- 87278 Legionella pneumophila
- 87279 Parainfluenza virus, each type
- 87280 respiratory syncytial virus
- 87281 Pneumocystis carinii
- 87283 Rubeola
- 87285 Treponema pallidum
- 87290 Varicella zoster virus
- 87299 not otherwise specified, each organism
- 87300 Infectious agent antigen detection by immunofluorescent technique, polyvalent for multiple organisms, each polyvalent antiserum
- 87301 Infectious agent antigen detection by enzyme immunoassay technique, qualitative or semiquantitative, multiple step method; adenovirus enteric types 40/41
- 87320 Chlamydia trachomatis
- 87324 Clostridium difficile toxin(s)
- 87327 Cryptococcus neoformans
- 87328 cryptosporidium/giardia
- 87332 cytomegalovirus
- 87335 Escherichia coli 0157
- 87336 Entamoeba histolytica dispar group
- 87337 Entamoeba histolytica group
- 87338 Helicobacter pylori, stool
- 87339 Helicobacter pylori
- 87340 hepatitis B surface antigen (HBsAg)
- 87341 hepatitis B surface antigen (HBsAg) neutralization
- 87350 hepatitis Be antigen (HBeAg)

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87380	hepatitis, delta agent
87385	Histoplasma capsulatum
87390	HIV-1
87391	HIV-2
87400	influenza, A or B, each
87420	respiratory syncytial virus
87425	rotavirus
87427	Shiga-like toxin
87430	Streptococcus, group A
87449	Infectious agent antigen detection by enzyme immunoassay technique, qualitative or semiquantitative; multiple step method, not otherwise specified, each organism
87450	single step method, not otherwise specified, each organism
87451	multiple step method, polyvalent for multiple organisms, each polyvalent antiserum
87470	Infectious agent detection by nucleic acid (DNA or RNA); Bartonella henselae and Bartonella quintana, direct probe technique
87471	Bartonella henselae and Bartonella quintana, amplified probe technique
87472	Bartonella henselae and Bartonella quintana, quantification
87475	Borrelia burgdorferi, direct probe technique
87476	Borrelia burgdorferi, amplified probe technique
87477	Borrelia burgdorferi, quantification
87480	Candida species, direct probe technique
87481	Candida species, amplified probe technique
87482	Candida species, quantification
87485	Chlamydia pneumoniae, direct probe technique
87486	Chlamydia pneumoniae, amplified probe technique
87487	Chlamydia pneumoniae, quantification
87490	Chlamydia trachomatis, direct probe technique
87491	Chlamydia trachomatis, amplified probe technique
87492	Chlamydia trachomatis, quantification
87495	cytomegalovirus, direct probe technique
87496	cytomegalovirus, amplified probe technique
87497	cytomegalovirus, quantification
87510	Gardnerella vaginalis, direct probe technique
87511	Gardnerella vaginalis, amplified probe technique
87512	Gardnerella vaginalis, quantification
87515	hepatitis B virus, direct probe technique
87516	hepatitis B virus, amplified probe technique
87517	hepatitis B virus, quantification
87520	hepatitis C, direct probe technique
87521	hepatitis C, amplified probe technique
87522	hepatitis C, quantification
87525	hepatitis G, direct probe technique
87526	hepatitis G, amplified probe technique
87527	hepatitis G, quantification
87528	herpes simplex virus, direct probe technique

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87529	herpes simplex virus, amplified probe technique
87530	herpes simplex virus, quantification
87531	herpes virus-6, direct probe technique
87532	herpes virus-6, amplified probe technique
87533	herpes virus-6, quantification
87534	HIV-1, direct probe technique
87535	HIV-1, amplified probe technique
87536	HIV-1, quantification
87537	HIV-2, direct probe technique
87538	HIV-2, amplified probe technique
87539	HIV-2, quantification
87540	Legionella pneumophila, direct probe technique
87541	Legionella pneumophila, amplified probe technique
87542	Legionella pneumophila, quantification
87550	Mycobacteria species, direct probe technique
87551	Mycobacteria species, amplified probe technique
87552	Mycobacteria species, quantification
87555	Mycobacteria tuberculosis, direct probe technique
87556	Mycobacteria tuberculosis, amplified probe technique
87557	Mycobacteria tuberculosis, quantification
87560	Mycobacteria avium-intracellulare, direct probe technique
87561	Mycobacteria avium-intracellulare, amplified probe technique
87562	Mycobacteria avium-intracellulare, quantification
87580	Mycoplasma pneumoniae, direct probe technique
87581	Mycoplasma pneumoniae, amplified probe technique
87582	Mycoplasma pneumoniae, quantification
87590	Neisseria gonorrhoeae, direct probe technique
87591	Neisseria gonorrhoeae, amplified probe technique
87592	Neisseria gonorrhoeae, quantification
87620	papillomavirus, human, direct probe technique
87621	papillomavirus, human, amplified probe technique
87622	papillomavirus, human, quantification
87650	Streptococcus, group A, direct probe technique
87651	Streptococcus, group A, amplified probe technique
87652	Streptococcus, group A, quantification
87797	Infectious agent detection by nucleic acid (DNA or RNA), not otherwise specified; direct probe technique, each organism
87798	amplified probe technique, each organism
87799	quantification, each organism
87800	Infectious agent detection by nucleic acid (DNA or RNA), multiple organisms; direct probe(s) technique
87801	amplified probe(s) technique
87802	Infectious agent antigen detection by immunoassay with direct optical observation; Streptococcus, group B
87803	Clostridium difficile toxin A

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87804	influenza
87810	Infectious agent detection by immunoassay with direct optical observation; Chlamydia trachomatis
87850	Neisseria gonorrhoeae
87880	Streptococcus, group A
87899	not otherwise specified
87901	Infectious agent genotype analysis by nucleic acid (DNA or RNA); HIV 1, reverse transcriptase and protease (P.A. required for third and subsequent tests performed within a calendar year)
87902	Hepatitis C virus
87903	Infectious agent phenotype analysis by nucleic acid (DNA or RNA) with drug resistance tissue culture analysis, HIV 1; first through 10 drugs tested (P.A.)
87904	each additional one through five drugs tested (List separately in addition to code for primary procedure.) (Use 87904 in conjunction with 87903.) (P.A.)
87999	Unlisted microbiology procedure (I.C.) (P.A.)

ANATOMIC PATHOLOGY

Cytopathology

88104	Cytopathology, fluids, washings or brushings, except cervical or vaginal; smears with interpretation
88106	filter method only with interpretation
88107	smears and filter preparation with interpretation
88108	Cytopathology, concentration technique, smears and interpretation (e.g., Saccomanno technique)
88130	Sex chromatin identification; Barr bodies
88140	peripheral blood smear, polymorphonuclear drumsticks

Codes 88141-88155, 88164-88167 are used to report cervical or vaginal screening by various methods and to report physician interpretation services. Use codes 88150-88154 to report Pap smears that are examined using non-Bethesda reporting. Use codes 88164-88167 to report Pap smears that are examined using the Bethesda System of reporting. Use codes 88142-88145 to report specimens collected in fluid medium with automated thin layer preparation that are examined using any system of reporting (Bethesda or non-Bethesda). Within each of these three code families choose the one code that describes the screening method(s) used. Codes 88141 and 88155 should be reported in addition to the screening code chosen when the additional services are provided.

88141	Cytopathology, cervical or vaginal (any reporting system); requiring interpretation by physician (List separately in addition to code for technical service.)
88142	Cytopathology, cervical or vaginal (any reporting system), collected in preservative fluid, automated thin layer preparation; manual screening under physician supervision
88143	with manual screening and rescreening under physician supervision
88147	Cytopathology smears, cervical or vaginal; screening by automated system under physician supervision
88148	screening by automated system with manual rescreening under physician supervision
88150	Cytopathology, slides, cervical or vaginal; manual screening under physician supervision

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88152	with manual screening and computer-assisted rescreening under physician supervision
88153	with manual screening and rescreening under physician supervision
88154	with manual screening and computer-assisted rescreening using cell selection and review under physician supervision
88155	Cytopathology, slides, cervical or vaginal, definitive hormonal evaluation (e.g., maturation index, karyopyknotic index, estrogenic index) (List separately in addition to code(s) for other technical and interpretation services.)
88160	Cytopathology, smears, any other source; screening and interpretation
88161	preparation, screening, and interpretation
88162	extended study involving over 5 slides and/or multiple stains (I.C.)
88164	Cytopathology, slides, cervical or vaginal (the Bethesda System); manual screening under physician supervision
88165	with manual screening and rescreening under physician supervision
88166	with manual screening and computer-assisted rescreening under physician supervision
86167	with manual screening and computer-assisted rescreening using cell selection and review under physician supervision
88172	Cytopathology, evaluation of fine needle aspirate; immediate cytohistologic study to determine adequacy of specimen(s) (I.C.)
88173	interpretation and report
88174	Cytopathology, cervical or vaginal (any reported system), collected in preservative fluid, automated thin layer preparation, screening by automated system, under physician supervision
88175	with screening by automated system and manual rescreening, under physician supervision
88180	Flow cytometry; each cell surface, cytoplasmic or nuclear marker (I.C.)
88182	cell cycle or DNA analysis (I.C.)
88199	Unlisted cytopathology procedure (I.C.)

Cytogenetic Studies

88230	Tissue culture for non-neoplastic disorders; lymphocyte
88233	skin or other solid tissue biopsy
88235	amniotic fluid or chorionic villus cells
88237	Tissue culture for neoplastic disorders; bone marrow, blood cells
88239	solid tumor
88240	Cryopreservation, freezing and storage of cells, each cell line
88241	Thawing and expansion of frozen cells, each aliquot
88245	Chromosome analysis for breakage syndromes; baseline Sister Chromatid Exchange (SCE), 20-25 cells
88248	baseline breakage, score 50-100 cells, count 20 cells, 2 karyotypes, (e.g., for ataxia telangiectasia, Fanconi anemia, fragile X)
88249	score 100 cells, clastogen stress (e.g., diepoxybutane, mitomycin C, ionizing radiation, UV radiation)
88261	Chromosome analysis; count 5 cells, 1 karyotype, with banding
88262	count 15-20 cells, 2 karyotypes, with banding
88263	count 45 cells for mosaicism, 2 karyotypes, with banding
88264	analyze 20-25 cells

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88267	Chromosome analysis, amniotic fluid or chorionic villus, count 15 cells, 1 karyotype, with banding
88269	Chromosome analysis, in situ for amniotic fluid cells, count cells from 6-12 colonies, 1 karyotype, with banding
88271	Molecular cytogenetics; DNA probe, each (e.g., FISH)
88272	chromosomal in situ hybridization, analyze 3-5 cells (e.g., for derivatives and markers)
88273	chromosomal in situ hybridization, analyze 10-30 cells (e.g., for microdeletions)
88274	interphase in situ hybridization, analyze 25-99 cells
88275	interphase in situ hybridization, analyze 100-300 cells
88280	Chromosome analysis; additional karyotypes, each study
88283	additional specialized banding technique (e.g., NOR, C-banding)
88285	additional cells counted, each study
88289	additional high resolution study
88291	Cytogenetics and molecular cytogenetics, interpretation and report
88299	Unlisted cytogenetic study (I.C.)

SURGICAL PATHOLOGY

Codes 88300 through 88309 are further clarified in the Current Procedural Terminology (CPT) code book.

88300	Level I - surgical pathology, gross examination only
88302	Level II - surgical pathology, gross and microscopic examination
88304	Level III - surgical pathology, gross and microscopic examination
88305	Level IV - surgical pathology, gross and microscopic examination
88307	Level V - surgical pathology, gross and microscopic examination
88309	Level VI - surgical pathology, gross and microscopic examination
88311	Decalcification procedure (List separately in addition to code for surgical pathology examination.)
88312	Special stains (List separately in addition to code for surgical pathology examination.); Group I for microorganisms (e.g., Gridley, acid fast, methenamine silver), each
88313	Group II, all other (e.g., iron, trichrome), except immunocytochemistry and immunoperoxidase stains, each
88314	histochemical staining with frozen section(s)
88318	Determinative histochemistry to identify chemical components (e.g., copper, zinc)
88319	Determinative histochemistry or cytochemistry to identify enzyme constituents, each
88342	Immunocytochemistry (including tissue immunoperoxidase), each antibody
88346	Immunofluorescent study, each antibody; direct method
88347	indirect method
88348	Electron microscopy; diagnostic
88349	scanning
88355	Morphometric analysis; skeletal muscle
88356	nerve
88358	tumor
88362	Nerve-teasing preparations

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- 88365 Tissue in situ hybridization, interpretation and report
 88371 Protein analysis of tissue by Western Blot, with interpretation and report
 88372 immunological probe for band identification, each
 88380 Microdissection (e.g., mechanical, laser capture)
 88399 Unlisted surgical pathology procedure (I.C.)

OTHER PROCEDURES

- 89050 Cell count, miscellaneous body fluids (e.g., cerebrospinal fluid, joint fluid), except blood
 89051 with differential count
 89055 Leukocyte count, fecal
 89060 Crystal identification by light microscopy with or without polarizing lens analysis, any body
 fluid (except urine)
 89100 Duodenal intubation and aspiration; single specimen (e.g., simple bile study or afferent loop
 culture) plus appropriate test procedure (I.C.)
 89105 collection of multiple fractional specimens with pancreatic or gallbladder stimulation, single
 or double lumen tube
 89125 Fat stain, feces, urine, or respiratory secretions
 89130 Gastric intubation and aspiration, diagnostic, each specimen, for chemical analyses or
 cytopathology
 89132 after stimulation
 89135 Gastric intubation, aspiration, and fractional collections (e.g., gastric secretory study); one hour
 89136 two hours
 89140 two hours including gastric stimulation (e.g., histalog, pentagastrin)
 89141 three hours, including gastric stimulation
 89160 Meat fibers, feces
 89190 Nasal smear for eosinophils
 89350 Sputum, obtaining specimen, aerosol induced technique (separate procedure)
 89355 Starch granules, feces
 89360 Sweat collection by iontophoresis
 89365 Water load test
 89399 Unlisted miscellaneous pathology test (I.C.)

MEDICINE

CARDIOVASCULAR

Cardiography

- 93000 Electrocardiogram, routine ECG with at least 12 leads; with interpretation and report
 93005 tracing only, without interpretation and report
 93010 interpretation and report only
 93012 Telephonic transmission of post-symptom electrocardiogram rhythm strip(s), 24-hour attended
 monitoring, per 30-day period
 of time; tracing only (I.C.)

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93014	physician review with interpretation and report only (I.C.)
93015	Cardiovascular stress test using maximal or submaximal treadmill or bicycle exercise, continuous electrocardiographic monitoring, and/or pharmacological stress; with physician supervision, with interpretation and report
93018	interpretation and report only
93024	Ergonovine provocation test (I.C.)
93040	Rhythm ECG, one to three leads; with interpretation and report
93041	tracing only without interpretation and report
93042	interpretation and report only
93224	Electrocardiographic monitoring for 24 hours by continuous original ECG waveform recording and storage, with visual superimposition scanning; includes recording, scanning analysis with report, physician review and interpretation (I.C.)
93225	recording (includes hook-up, recording, and disconnection) (I.C.)
93226	scanning analysis with report (I.C.)
93227	physician review and interpretation (I.C.)
93230	Electrocardiographic monitoring for 24 hours by continuous original ECG waveform recording and storage without superimposition scanning utilizing a device capable of producing a full miniaturized printout; includes recording, microprocessor-based analysis with report, physician review and interpretation (I.C.)
93231	recording (includes hook-up, recording, and disconnection) (I.C.)
93232	microprocessor-based analysis with report (I.C.)
93233	physician review and interpretation (I.C.)
93235	Electrocardiographic monitoring for 24 hours by continuous computerized monitoring and non-continuous recording, and real-time data analysis utilizing a device capable of producing intermittent full-sized waveform tracings, possibly patient activated; includes monitoring and real-time data analysis with report, physician review and interpretation (I.C.)
93236	monitoring and real-time data analysis with report (I.C.)
93237	physician review and interpretation (I.C.)
93268	Patient demand single or multiple event recording with presymptom memory loop, 24-hour attended monitoring, per 30-day period of time; includes transmission, physician review and interpretation (I.C.)
93278	Signal-averaged electrocardiography (SAECG), with or without ECG (I.C.)

Other Vascular Studies

93724	Electronic analysis of antitachycardia pacemaker system (includes electrocardiographic recording, programming of device, induction and termination of tachycardia via implanted pacemaker, and interpretation of recordings)
93731	Electronic analysis of dual-chamber pacemaker system (includes evaluation of programmable parameters at rest and during activity where applicable, using electrocardiographic recording and interpretation of recordings at rest and during exercise, analysis of event markers and device response); without reprogramming
93732	with reprogramming

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- 93734 Electronic analysis of single-chamber pacemaker system (includes evaluation of programmable parameters at rest and during activity where applicable, using electrocardiographic recording and interpretation of recordings at rest and during exercise, analysis of event markers and device response); without reprogramming
- 93735 with reprogramming

Other Procedures

- 93799 Unlisted cardiovascular service or procedure (I.C.)

SUPPLEMENTARY

- G0001 Routine venipuncture for collection of specimen(s) (single home-bound, nursing-facility patient)

This publication contains codes that are copyrighted by the American Medical Association. Certain terms used in the service descriptions for HCPCS codes are defined in the Current Procedural Terminology (CPT) code book.