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* **INFOGRAPHIC**

**Predicted waiting times for orthopaedic surgery**

AN URGENT NEED TO ADDRESS THE DEFICIT IN CAPACITY

**L. Farrow,**

**P. J. Jenkins,**

**E. Dunstan,**

**A. Murray,**

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**M. J. G. Blyth,**

**A. H. R. W. Simpson,**

**N. D. Clement**

*From University of*

Cessation of routine surgical activity during the CoVid-19 pandemic has led to a substantial backlog of patients waiting for orthopaedic surgery, with an associated substantial deterioration in surgical waiting

of delay in providing this necessary surgical capacity, there is an over one-month increase in a new patient’s waiting time), which further highlights the urgency of a return to pre-CoVid-19 orthopaedic activity, as well as

*Aberdeen, Aberdeen, UK* times.1 2

prolonged waits for certain orthopaedic procedures can have a major negative impact on patient health.[3](#_bookmark1) this occurs in terms of deterioration in quality of life while awaiting surgery, as well as potential negative connotations for postoperative recovery and longer-term health in addition to reduced independence and increased social care needs.4 5

predicted waiting times for routine ortho- paedic surgery in a public healthcare system have been calculated using routinely avail- able data.[6](#_bookmark3) this includes assessment of potential changes in future operative activity (for example, additional capacity provided through the proposed launch of national treatment Centres (ntCs) in 2023) and ability to achieve current national targets.

Key findings include a notable current annual case deficit that will not be resolved even with a return to pre-CoVid-19 activity coupled with a 22% uplift in capacity (i.e. the full additional planned ntCs’ capacity). this is even before consideration of increased future demand for hip and knee arthroplasty services, predicted to rise from pre-CoVid-19 levels by up to 28% and 34% in 2038, respectively.7

as the rate at which patients are being

the realization of the 22% uplift from the full additional ntC capacity.

however, even in the best-case scenario the average wait across Scotland would be

1.3 years for a patient listed in July 2022, compared to 2.3 years for the worst-case scenario. given that current admissions for routine treatment are only 52.2% of 2019 activity, a return to a pre-CoVid-19 level of operative output will require a substantial change from current practice.

The study highlights the great challenges facing recovery of planned orthopaedic surgery following the pandemic. if the barriers to notable expansion of current activity are not addressed urgently, then waiting lists will continue to deteriorate and patients will continue to come to harm as a result.

Further work is now warranted to provide more granular understanding of waiting times for individual procedures, particularly given previous evidence that has highlighted large disparities between available day-case and inpatient capacity that were analyzed collectively in this study.8

**Twitter**

Follow p. J. Jenkins @pjjenkins80 Follow e. dunstan @balhousie

Correspondence should be sent to

Luke Farrow; email: luke.farrow@abdn.ac.uk

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added to the waiting list exceeds the rate

they are being taken off it, any delay results in a subsequent rise in waiting times (i.e. based on current activity for every month

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**Supplementary material**

Further details on the study methodology, as well as individual health board calculations regarding predicted waiting times for surgery and associat-

ed case deficits (including sensitivity estimates).

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**Author information:**

* L. Farrow, Bsc (intercalated), MBChB (honours), MRCs, Clinical Research Fellow, orthopaedic Registrar, institute of applied health sciences, university of aberdeen, aberdeen, uK; grampian orthopaedics, Woodend hospital, aberdeen, uK.
* p. J. Jenkins, MBChB, Md, FRCs, Consultant orthopaedic surgeon
* M. J. g. Blyth, MB ChB FRCs (tR&orth), Consultant orthopaedic surgeon glasgow Royal infirmary, glasgow, uK.
* e. dunstan, MBBs, Bsc, FRCs, Consultant orthopaedic surgeon, Kirkcaldy hospital, Fife, uK.
* a. Murray, Bsc, Md, FRCs, Consultant orthopaedic surgeon, university hospital Wishaw, Wishaw, uK.
* a. h. R. W. simpson, Ma(Cantab), BM, BCh (oxon), dM(oxon), FRCs(england & edinburgh), FioRs, professor of trauma and orthopaedics, university of edinburgh, edinburgh, uK.
* n. d. Clement, Md, phd, FRCs(ed), Consultant orthopaedic surgeon, Royal infirmary of edinburgh, edinburgh, uK.

**Author contributions:**

* L. Farrow: Conceptualization, data curation, Formal analysis, investigation, Method- ology, project administration, Visualization, Writing – original draft, Writing – review & editing.
* p. J. Jenkins: supervision, Writing – review & editing.
* e. dunstan: supervision, Writing – review & editing.
* a. Murray: supervision, Writing – review & editing.
* M. J. g. Blyth: supervision, Writing – review & editing.
* a. h. R. W. simpson: Writing – review & editing.
* n. d. Clement: Methodology, Validation, Writing – review & editing.

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**Predicted Waiting Times for Orthopaedic Surgery: An Urgent Need to Address the Deficit in Capacity**

Luke Farrow', Paul Jenkins2, Edward Dunstan', Alastair Murray4, Mark Blyth2, Hamish Simpson5, Nick Clement5

1.University of Aberdeen, Aberdeen 2. Glasgow Royal Infirmary, Glasgow 3. Kirkcaldy Hospital, Fife 4. University Hospitals Wishow, Lanarkshire 5. Royal Infirmary of Edinburgh, Edinburgh

**Aims**

1. Examine predicted waiting times for orthopaedic surgery
2. Assess how this may change in the future, including impact of additional capacity
3. Determine the feasibility of achieving the current governmenttargets of a 1 year wait for surgery by September 2024

**Methods**

Publicly available Public Health Scotland data from https://bit.ly/3RWASs2 - September 2022

Calculations based on: previous 1 year surgical activity for routine (FSSA P3 & P4 patients).

* currently waiting patients as of June 2022.
* number of patients added to the waiting list over 1 year.

Full details of the methodology (including adjustment for upcoming National Treatment Centre [NTC] capacity) are available in the attached supplementary material

**Results**

Predicted waiting time for a routine (P3/P4) patient listed July 2022 (average wait in years)

\*Weighted distribution of NTC Capacity based on current predicted waiting time (waiting list size and recent historical operative activity)

** **

**Scotland-wide sensitivity estimates for wait-time of new routine patient July 2022**

|  |  |  |  |
| --- | --- | --- | --- |
| **Best-case scenario** | **Current scenario** | **Cautious Scenario** | **Worst-Case Scenario** |
| Return to pre-COVID activity and full NTC capacity | Recent historic activity and full NTC capacity | Recent historic activity and half NTC capacity | Some extra NTC capacity but deterioration in other activity. No overall increase |
| **1.3 years**(longest individual Health board wait= **1.8 years)** | **2 years**(longest individual Health Board wait= **2.8 years)**  | **2.2 years**(longest individual Health Board wait= **3.8 years)** | **2.3 years**(longest individual Health board wait= **7 years)** |

New waiting list additions per annum = 37,083

Operations per annum=16,975

Current case deficit per annum = 20,108

16,362 with full additional NTC capacity alone

6367 with return to Pre-COVID activity and full additional NTC capacity

Even with a return to Pre-COVID activity and full additional NTC capacity the waiting list will continue to grow by 2 months per year

**Impact of future cooperative activity on ability to schieve Scottish Government target of 1 year wait by September 2022**

Wait (years) for patient listed in September 2023 (to achieve 1 year wait by Sept 2024). All failure to meet target.

|  |  |
| --- | --- |
| Current activity | 3.8 |
| 25% increase activity | 2.8 |
| 50% increase activity | 2.1 |
| 75% increase activity | 1.8 |
| 100% increase activity | 1.3 |
| Pre-COVID activity + Full NTC Capacity | 1.4 |

% of 2019 routine (P3/P4) activity:

**Wait list additions = 87%**

**Admissions for treatment = 52.2%**

**Conclusions**

Current predicted orthopaedic surgery waiting times for a patient listed m July 2022 are approximately 2 years If full NTC capacity is not achieved waits in some health boards will exceed 3 years

Wait list additions and admissions for treatment remain significantly below 2019 levels Even with a prompt full return to pre-COVID activity and additional NTC capacity waiting times will continue to deteriorate.

Current targets of a 1-year maximum wait by September 2024 need urgent and intense action if they are to be achieved

**   **