## UNIVERSITYOF BIRMINGHAM

## University of Birmingham Research at Birmingham

## Reply to Trey Durdin, Alvin Goh, and Eugene Pietzak. Can an imaging-guided pathway replace the current paradigm for muscle-invasive bladder cancer?

BladderPath Trial Management Group

DOI:

10.1016/j.eururo.2021.04.034

License:

Creative Commons: Attribution-NonCommercial-NoDerivs (CC BY-NC-ND)

Document Version Peer reviewed version

Citation for published version (Harvard):

BladderPath Trial Management Group 2021, 'Reply to Trey Durdin, Alvin Goh, and Eugene Pietzak. Can an imaging-guided pathway replace the current paradigm for muscle-invasive bladder cancer?', European urology, vol. 80, no. 1, pp. 18-19. https://doi.org/10.1016/j.eururo.2021.04.034

Link to publication on Research at Birmingham portal

**General rights** 

Unless a licence is specified above, all rights (including copyright and moral rights) in this document are retained by the authors and/or the copyright holders. The express permission of the copyright holder must be obtained for any use of this material other than for purposes

- •Users may freely distribute the URL that is used to identify this publication.
- •Users may download and/or print one copy of the publication from the University of Birmingham research portal for the purpose of private study or non-commercial research.
- •User may use extracts from the document in line with the concept of 'fair dealing' under the Copyright, Designs and Patents Act 1988 (?)
  •Users may not further distribute the material nor use it for the purposes of commercial gain.

Where a licence is displayed above, please note the terms and conditions of the licence govern your use of this document.

When citing, please reference the published version.

While the University of Birmingham exercises care and attention in making items available there are rare occasions when an item has been uploaded in error or has been deemed to be commercially or otherwise sensitive.

If you believe that this is the case for this document, please contact UBIRA@lists.bham.ac.uk providing details and we will remove access to the work immediately and investigate.

Download date: 09. Apr. 2024

## **EDITORIAL REPLY**

Re: Durdin T el al. Can an Imaging-guided Pathway Replace the Current Paradigm for Muscle-invasive Bladder Cancer? Eur Urol 2021; in press.

Richard T Bryan<sup>1</sup>, James WF Catto<sup>2,3</sup>, Kieran P Jefferson<sup>4</sup>, Prashant Patel<sup>1,5</sup> and Nicholas D James<sup>6,7</sup> on behalf of the BladderPath Trial Management Group<sup>8</sup>.

<sup>1</sup>Bladder Cancer Research Centre, Institute of Cancer & Genomic Sciences, University of Birmingham, UK.

<sup>2</sup>Academic Urology Unit, University of Sheffield, UK.

<sup>3</sup>Sheffield Teaching Hospitals NHS Trust, UK.

<sup>4</sup>University Hospital Coventry & Warwickshire, UK.

<sup>5</sup>University Hospitals Birmingham NHS Foundation Trust, UK.

<sup>6</sup>Institute of Cancer Research, London, UK.

<sup>7</sup>The Royal Marsden NHS Foundation Trust, London, UK.

<sup>8</sup>Cancer Research UK Clinical Trials Unit, Institute of Cancer & Genomic Sciences, University of Birmingham, UK

**Correspondence:** Prof ND James, The Institute of Cancer Research, 123 Old Brompton Road, London

SW7 3RP, UK. +44 207 153 5130. nick.james@icr.ac.uk

Funding: BladderPath is funded by the National Institute for Health Research (NIHR) [Health

Technology Assessment Programme, project number 14/08/60]. JWFC is funded by a

NIHR Research Professorship (2019-24). The views expressed are those of the

authors and not necessarily those of the NIHR or the Department of Health and

Social Care.

Conflicts of interest: JWFC has received reimbursement for consultancy from Astra Zeneca and Janssen,

speaker fees from BMS, MSD, Nucleix and Roche, and honoraria for membership of

advisory boards for Ferring and Janssen. RTB has contributed to advisory boards for

Olympus Medical Systems, Janssen, UroGen Pharma and QED Therapeutics. NDJ has no relevant conflicts of interest for this work.

We thank Durdin and colleagues for their comments on our study (1). As with all challenges to normal practice, we expect debate and interest; a detailed inspection of our study protocol (that accompanied the publication) will demonstrate the safeguards that are in place to abrogate the risk of overtreatment, as illustrated by the number of patients who did undergo transurethral resection (TURBT) following a diagnosis of muscle-invasive bladder cancer (MIBC) by multiparametric magnetic resonance imaging (mpMRI) in Pathway 2 (2). Most importantly, we have the support of our patients and advocacy groups - who are keen to improve the diagnostic paradigm.

We would like to reply to Durdin et al's statement that "the impetus for this trial is the authors' recognition that in their health care system, the waiting time for diagnostic TURBT can result in significant delays to definitive management and potential harm for patients with MIBC". It is crucial to highlight that delays to correct treatment for MIBC patients are commonplace internationally and not just the UK (3).

Firstly, the UK's healthcare system is sufficiently connected such that we can measure the total time from initial community (GP) consultation to radical treatment. Our concern was raised by seeing these total delays, and that many women were misdiagnosed with infective cystitis prior to urological referral (4). Similar findings are seen in: Canada, where women with bladder cancer spend twice as long in the community (40-56 days before urological referral) as male patients (5); the USA, where mean delays are around 85 days for women, and 17% of women wait 6 months for inward referral (6); Denmark, where the interval from onset of symptoms to treatment averages 28 weeks (7); Australia, where the median time to urology consultation is 65 days for women and 33.5 days for men (8); and Germany (9).

Secondly, delays after initial urological consultation are also widespread. In the USA, delays of over 12 weeks from BC diagnosis to radical cystectomy (RC) are not uncommon, and Chu et al. found the median time from TURBT to surgery was over two months (69 days) (10, 11). Additional delays of over 7 weeks from completion of neoadjuvant chemotherapy (NAC) to RC have been reported (12), resulting in potential delays from BC diagnosis to RC of over 22 weeks (13). In Europe, data from The Netherlands show a median delay

from BC diagnosis to RC (in the absence of NAC) of 7 weeks, with over 93% of patients undergoing RC in ≤12 weeks; for NAC patients these figures are 19 weeks and 16%, respectively (14).

Therefore, attempts to improve and refine the diagnostic and treatment pathways for BC patients are of international importance and a priority for patients and healthcare professionals alike (15).

- 1. Durdin T, Goh A, Pietzak E. Can an Imaging-guided Pathway Replace the Current Paradigm for Muscle-invasive Bladder Cancer? European Urology. 2021;In press.
- 2. Bryan RT, Liu W, Pirrie SJ, Amir R, Gallagher J, Hughes AI, et al. Comparing an Imaging-guided Pathway with the Standard Pathway for Staging Muscle-invasive Bladder Cancer: Preliminary Data from the BladderPath Study. Eur Urol. 2021.
- 3. Russell B, Liedberg F, Khan MS, Nair R, Thurairaja R, Malde S, et al. A Systematic Review and Metaanalysis of Delay in Radical Cystectomy and the Effect on Survival in Bladder Cancer Patients. Eur Urol Oncol. 2020;3(2):239-49.
- 4. Lyratzopoulos G, Abel GA, McPhail S, Neal RD, Rubin GP. Gender inequalities in the promptness of diagnosis of bladder and renal cancer after symptomatic presentation: evidence from secondary analysis of an English primary care audit survey. BMJ Open. 2013;3(6).
- 5. Santos F, Dragomir A, Kassouf W, Franco EL, Aprikian A. Predictors of preoperative delays before radical cystectomy for bladder cancer in Quebec, Canada: a population-based study. BJU Int. 2015;115(3):389-96.
- 6. Cohn JA, Vekhter B, Lyttle C, Steinberg GD, Large MC. Sex disparities in diagnosis of bladder cancer after initial presentation with hematuria: a nationwide claims-based investigation. Cancer. 2014;120(4):555-61.
- 7. Mommsen S, Aagaard J, Sell A. Presenting symptoms, treatment delay and survival in bladder cancer. Scand J Urol Nephrol. 1983;17(2):163-7.
- 8. Ngo B, Papa N, Perera M, Bolton D, Sengupta S. Predictors of delay to cystoscopy and adequacy of investigations in patients with haematuria. BJU Int. 2017;119 Suppl 5:19-25.
- 9. Aziz A, Madersbacher S, Otto W, Mayr R, Comploj E, Pycha A, et al. Comparative analysis of gender-related differences in symptoms and referral patterns prior to initial diagnosis of urothelial carcinoma of the bladder: a prospective cohort study. Urol Int. 2015;94(1):37-44.
- 10. Williams SB, Huo J, Dafashy TJ, Ghaffary CK, Baillargeon JG, Morales EE, et al. Survival differences among patients with bladder cancer according to sex: Critical evaluation of radical cystectomy use and delay to treatment. Urol Oncol. 2017;35(10):602 e1- e9.
- 11. Chu AT, Holt SK, Wright JL, Ramos JD, Grivas P, Yu EY, et al. Delays in radical cystectomy for muscle-invasive bladder cancer. 2019;125(12):2011-7.
- 12. Boeri L, Soligo M, Frank I, Boorjian SA, Thompson RH, Tollefson M, et al. Delaying Radical Cystectomy After Neoadjuvant Chemotherapy for Muscle-invasive Bladder Cancer is Associated with Adverse Survival Outcomes. Eur Urol Oncol. 2019;2(4):390-6.
- 13. Audenet F, Sfakianos JP, Waingankar N, Ruel NH, Galsky MD, Yuh BE, et al. A delay >/=8 weeks to neoadjuvant chemotherapy before radical cystectomy increases the risk of upstaging. Urol Oncol. 2019;37(2):116-22.
- 14. Bruins HM, Aben KK, Arends TJ, van der Heijden AG, Witjes AJ. The effect of the time interval between diagnosis of muscle-invasive bladder cancer and radical cystectomy on staging and survival: A Netherlands Cancer Registry analysis. Urol Oncol. 2016;34(4):166 e1-6.
- 15. Bessa A, Maclennan S, Enting D, Bryan R, Josephs D, Hughes S, et al. Consensus in Bladder Cancer Research Priorities Between Patients and Healthcare Professionals Using a Four-stage Modified Delphi Method. Eur Urol. 2019;76(2):258-9.