

LJMU Research Online

Morrissey, M, Shepherd, E, Kinley, E, McClatchey, K and Pinnock, H

Effectiveness and perceptions of using templates in long-term condition reviews: a systematic synthesis of quantitative and qualitative studies

http://researchonline.ljmu.ac.uk/id/eprint/23209/

Article

Citation (please note it is advisable to refer to the publisher's version if you intend to cite from this work)

Morrissey, M, Shepherd, E, Kinley, E, McClatchey, K and Pinnock, H (2021) Effectiveness and perceptions of using templates in long-term condition reviews: a systematic synthesis of quantitative and qualitative studies. The British journal of general practice. 71 (710). e652-e659. ISSN 0960-1643

LJMU has developed LJMU Research Online for users to access the research output of the University more effectively. Copyright © and Moral Rights for the papers on this site are retained by the individual authors and/or other copyright owners. Users may download and/or print one copy of any article(s) in LJMU Research Online to facilitate their private study or for non-commercial research. You may not engage in further distribution of the material or use it for any profit-making activities or any commercial gain.

The version presented here may differ from the published version or from the version of the record. Please see the repository URL above for details on accessing the published version and note that access may require a subscription.

For more information please contact researchonline@ljmu.ac.uk

- 7. GP Liaison Services. Case 4: UTI pathway improvement. https://www.gp-liaison.com/casestudies (accessed 10 Mar 2022).
- 8. Llor C. Mid-stream vs. first-void urine sample. [Letter]. Br J Gen Pract 2022; https://bjgp.org/ content/early/2022/01/24/BJGP.2021.0359/tab-eletters (accessed 10 Mar 2022)
- 9. National Institute for Health and Care Excellence. Peezy Midstream for urine collection. MedTech Innovation Briefing. MIB183. 2019. https://www. nice.org.uk/advice/mib183/chapter/The-technology (accessed 10 Mar 2022)

DOI: https://doi.org/10.3399/bjgp22X718913

Author response

We thank Dr Forte for his comments on our findings. Our randomised, controlled clinical trial reported on the use of two urine collection devices in women presenting to primary care with symptoms attributable to urinary tract infection (UTI). Frequency is a cardinal symptom of acute UTI. Requiring these women to have a full bladder before using such devices is not feasible, nor is it easy to objectively confirm.

Our participants were only eligible for inclusion if they felt able to produce a urine sample at the time of randomisation. As such, the use of urine collection devices in our pragmatic study is likely to be similar to how the devices might be used by women with UTI symptoms who consult in routine general practice. We made no claim that our findings apply to use in the populations that Dr Forte refers to, such as asymptomatic pregnant women and in preoperative assessment.

Gail N Hayward, Associate Professor of Primary Care, University of Oxford, Oxford. Email: gail.hayward@phc.ox.ac.uk

Christopher C Butler, Professor of Primary Care, University of Oxford, Oxford.

DOI: https://doi.org/10.3399/bjgp22X718925

Midstream versus first-void urine samples

In general practice, simple practices should be endorsed to avoid overcomplicating patient management. We have always been told to recommend the use of midstream samples when collecting a specimen of urine for culture, with or without previous cleansing and with or without soap or disinfectants. Notwithstanding, usage of these instructions is variable across practices and across countries. In addition, a midstream urine sample is not always easy to collect, mainly among older patients, let alone when patients are instructed to use external devices as recently analysed by Hayward et al.1

It is no wonder that a high number of patients failed to accomplish the proper use of these devices. The results were expected and the use of two devices did not reduce the number of contaminated samples when compared with the classical procedure of recommending a midstream urine collection. The need to collect a midstream urine clean-catch sample has also been controversial.2. Only Eley et al found a significantly lower number of contaminations among emergency department female patients when they were provided with illustrated instructions about how to collect a proper midstream urine sample compared with those who only received verbal instructions.3 Other studies, however, failed to show a benefit from cleansing prior to sample collection.

We certainly do not know how patients collect the urine samples despite being instructed to perform midstream urine sample collection. No studies have compared first-void or random sampling with midstream urine specimens with urine culture, which is the gold standard. This is the most important question. With the use of paired samples, Hølmkjær et al compared both sampling techniques and found a slightly lower number of contaminations with the use of a midstream urine collection, but urine culture was not used as the gold standard for the two sampling groups, except in those who collected midstream urine specimens.4 To our knowledge, no study has compared the highly recommended midstream urine collection with a first-void urine sample or letting patients with symptoms of urinary tract infection collect the sample as they please. This type of study has yet to be done.

Carl Llor.

GP, Senior Researcher and Associate Professor, Public Health, General Practice, University of Southern Denmark, Odense.

Email: cllor@health.sdu.dk

REFERENCES

- 1. Hayward G, Mort S, Yu L-M, et al. Urine collection devices to reduce contamination in urine samples for diagnosis of uncomplicated UTI: a single-blind randomised controlled trial in primary care. Br J Gen Pract 2022; DOI: https://doi.org/10.3399/ BJGP.2021.0359.
- 2. Holm A, Aabenhus R. Urine sampling techniques in symptomatic primary-care patients: a diagnostic accuracy review. BMC Fam Pract 2016; 17: 72.
- 3. Eley R, Judge C, Knight L, et al. Illustrations reduce contamination of midstream urine samples in the emergency department. J Clin Pathol 2016; **69(10):** 921-925.
- 4. Hølmkjær P, Lars B, Marjukka M, et al. Sampling of urine for diagnosing urinary tract infection in general practice: first-void or mid-stream urine? Scand J Prim Health Care 2019; **37(1):** 113–119.

DOI: https://doi.org/10.3399/bjgp22X718937

Corrections

Mary Morrissey, Elizabeth Shepherd, Emma Kinley, et al, Effectiveness and perceptions of using templates in long-term condition reviews: a systematic synthesis of quantitative and qualitative studies. Br J Gen Pract 2021; DOI: https://doi.org/10.3399/ BJGP.2020.0963. Because of a production error, the wrong figure was displayed for Figure 1. The correct figure is a PRISMA flow diagram. We apologise for this error. The online version has been corrected.

DOI: https://doi.org/10.3399/bjqp22X718949

Clare Macdonald, Sunita Sharma, Maija Kallioinen and David Jewell, Postnatal care: new NICE guideline for the 'Cinderella service'. Br J Gen Pract 2021; DOI: https://doi.org/10.3399/bjgp21X716825. Because of an editorial error, some members of the NICE postnatal care guideline committee were omitted from the acknowledgements. We apologise for this error. The online version has been corrected.

DOI: https://doi.org/10.3399/bjgp22X718961