

Smith, Dawn and Bolton, Gareth C. ORCID: <https://orcid.org/0000-0002-5453-4257> (2024) Reporting of adenomyosis: a service evaluation. In: UK Imaging and Oncology Congress 2024 (UKIO 2024): Vision and values: Putting people first, 10-12 June 2024, Liverpool ACC, UK. (Unpublished)

Downloaded from: <http://insight.cumbria.ac.uk/id/eprint/7603/>

*Usage of any items from the University of Cumbria's institutional repository 'Insight' must conform to the following fair usage guidelines.*

Any item and its associated metadata held in the University of Cumbria's institutional repository Insight (unless stated otherwise on the metadata record) may be copied, displayed or performed, and stored in line with the JISC fair dealing guidelines (available [here](#)) for educational and not-for-profit activities

**provided that**

- the authors, title and full bibliographic details of the item are cited clearly when any part of the work is referred to verbally or in the written form
  - a hyperlink/URL to the original Insight record of that item is included in any citations of the work
- the content is not changed in any way
- all files required for usage of the item are kept together with the main item file.

**You may not**

- sell any part of an item
- refer to any part of an item without citation
- amend any item or contextualise it in a way that will impugn the creator's reputation
- remove or alter the copyright statement on an item.

The full policy can be found [here](#).

Alternatively contact the University of Cumbria Repository Editor by emailing [insight@cumbria.ac.uk](mailto:insight@cumbria.ac.uk).

## Reporting of adenomyosis: a service evaluation

Dawn Smith<sup>1,2</sup>, Lisa Booth<sup>2</sup> and Gareth C. Bolton<sup>2</sup>

<sup>1</sup>Mersey and West Lancashire NHS Trust; <sup>2</sup>Institute of Health, University of Cumbria, UK

UK Imaging and Oncology Congress, Liverpool ACC, 10<sup>th</sup> to 12<sup>th</sup> June 2024.

### Abstract

**Background:** Adenomyosis diagnosis is based on imaging alone<sup>[4]</sup>. Ultrasound demonstrates high accuracy with expert sonographers<sup>[3]</sup>, however there is little knowledge regarding how well adenomyosis is identified and reported within daily clinical practice.

**Method:** A retrospective service evaluation was undertaken which included (n=79) adult female participants with possible symptoms of adenomyosis who had undergone a transvaginal ultrasound scan during the first quarter of 2023. Patients were identified using the CRIS statistic module according to pre-defined inclusion and exclusion criteria. Data were anonymised and collected in a data collection form to include the patient age, symptoms, scan report and sonographer. The scan report and archived images were evaluated using the sonographic signs identified by the MUSA group<sup>[1]</sup> then compared to the original report. Statistical analysis for inter-rater agreement was conducted using Cohen's Kappa<sup>[2]</sup>.

**Results:** Results indicate that adenomyosis is not being effectively identified and reported upon. 21.5% (n= 17) of patients had signs of adenomyosis on image review. Of these, only 23.5% (n= 4) were reported as such.

**Conclusion:** Most ultrasonic diagnoses of adenomyosis were not identified, which may be due to the lack of sonographer awareness and training, compounded by a lack of

internationally agreed criteria for ultrasound diagnosis. Limitations include the small cohort of participants, the author working independently and limitations in reviewing static images.

## References

- [1]. Harmsen, M.J., Van den Bosch, T., de Leeuw, R.A., Dueholm, M., Exacoustos, C., Valentin, L., Hehenkamp, W.J.K., Groenman, F., De Bruyn, C., Rasmussen, C., Lazzeri, L., Jokubkiene, L., Jurkovic, D., Naftalin, J., Tellum, T., Bourne, T., Timmerman, D. and Huirne, J.A.F. (2022). Consensus on revised definitions of Morphological Uterus Sonographic Assessment (MUSA) features of adenomyosis: results of modified Delphi procedure. *Ultrasound in Obstetrics & Gynecology*, 60(1), 118–131.
- [2]. Lazzeri, L., Morosetti, G., Centini, G., Monti, G., Zupi, E., Piccione, E. and Exacoustos, C. (2018). A sonographic classification of adenomyosis: interobserver reproducibility in the evaluation of type and degree of the myometrial involvement. *Fertility and Sterility*, 110(6), 1154-1161.
- [3]. Săsăran, V., Mărginean, C., and Puscasiu, L. (2023). Current Non-Invasive Imaging Techniques Used in the Diagnosis of Adenomyosis. *Clinical and Experimental Obstetrics & Gynecology*, 50(3), 49–49.
- [4]. Van den Bosch, T., de Bruijn, A.M., de Leeuw, R.A., Dueholm, M., Exacoustos, C., Valentin, L., Bourne, T., Timmerman, D. and Huirne, J.A.F. (2019). Sonographic classification and reporting system for diagnosing adenomyosis. *Ultrasound in Obstetrics & Gynecology*, 53(5), 576–582.