



Our engagement with Patients and the Public and the added benefits for our study

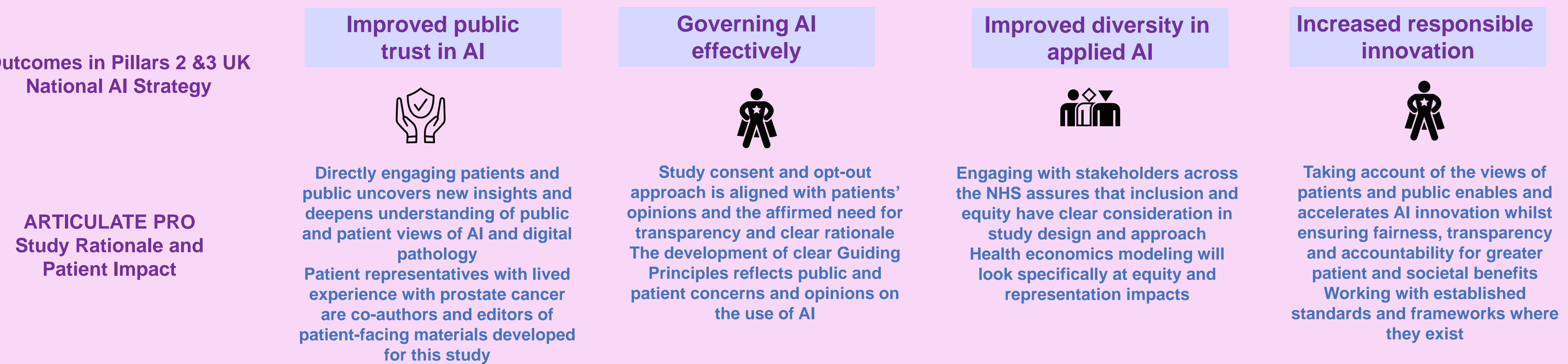
BACKGROUND

The UK's National AI Strategy states that its aims "...will be best achieved through broad public trust and support and by the involvement of the diverse talents and views of society".

The ARTICULATE PRO STUDY investigates the deployment of AI (computer assisted technology) in the prostate cancer pathway by using Paige Prostate software in the live workflow to assist pathologists when reading prostate biopsies. In the Articulate Pro study, we have designed and implemented a PPIE (Patients and Public Involvement and Engagement) strategy which harnesses the important opinions of this sector. We have listened hard to these voices and used their wisdom to help us set the directions of the study for the benefit of all. We have three patient reps on the study who make significant contributions to the work we are undertaking. Patients are co-applicants of the grant, part of the study Project Management Board and attend all study steering meetings.

"The reason I wanted to be involved in this project as a former patient with carcinoma of the prostate is my hope that it will ultimately improve outcomes for patients"

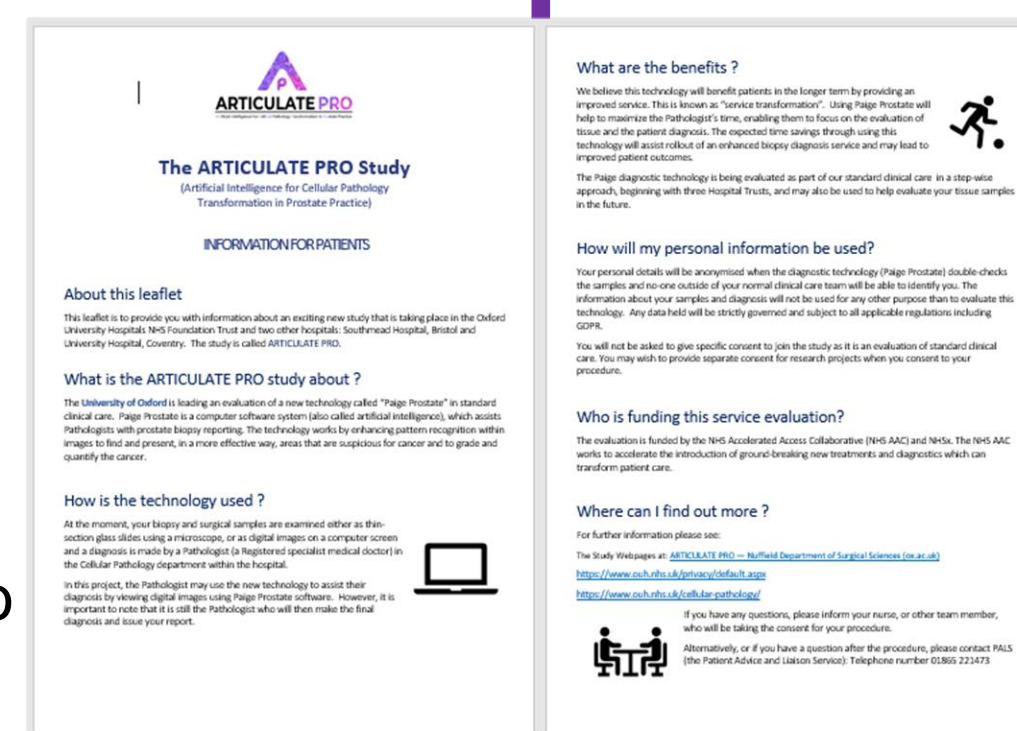
Dr Richard Scheffer - Patient Representative on the Articulate Pro Study



Improved public trust in AI

Seeking Patient and Public Views on AI and Digital Pathology

- Two PPI events July and November 2020
- Sought public opinion of our study proposal
- Participants were drawn from the community /PCUK supporters (men who have had a prostate biopsy)
- **Patient views informed the conception of the successful study grant application and study design**



Improving Patient Facing Material

Using information gathered from all our patient facing activities we have produced an information leaflet for patients which will go into prostate clinics in the Oxford University Hospitals NHS Foundation Trust.

Patient reps reviewed and commented on the content of the leaflet and their suggested changes were incorporated into the final version

Governing AI effectively

Study Specific Consent and Opt Out of the Study

In depth discussions with patient reps on the study led to the development of clear governance guidelines on the need for study specific consent or otherwise within the project. **The information and opinions they provided helped to formulate the design of a standard slide set on Governance which produced a clear rationale.**

Using patient and public views to develop study specific Guiding Principles

- 1) Patient data is subject to all applicable laws and regulations including GDPR and data use is minimised as far as possible
- 2) Paige Prostate is used only for analysis – the AI system is not changed nor modified using the patient tissue images in any way.
- 3) Pathologists determine and authorise the diagnosis and can agree or disagree with the findings of Paige Prostate. Paige Prostate is not a replacement of the pathologist but rather provides additional information to help pathologists

Working with Prostate Cancer UK Supporters

Prostate Cancer UK supporters were invited to complete an online survey exploring views on the use of DP and AI in histopathological assessment.

- 1276 responses (response rate 12.5%).
- Most respondents were supportive of DP (87%, 1113/1276)
- Most respondents were supportive of testing AI in clinical practice as a diagnostic adjunct (83%, 1058/1276).
- Respondents saw DP as potentially increasing workflow efficiency, facilitating research, education/training and fostering clinical discussions between clinician and patient.
- A small minority (1%) are not in favour of the testing of the use of AI in histopathology for reasons which are not easily addressed.

➤ Diagnostics (Basel). 2022 May 13;12(5):1225. doi: 10.3390/diagnostics12051225.

The Use of Digital Pathology and Artificial Intelligence in Histopathological Diagnostic Assessment of Prostate Cancer: A Survey of Prostate Cancer UK Supporters

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Affiliations + expand
PMID: 35626380 PMCID: PMC9141178 DOI: 10.3390/diagnostics12051225
Free PMC article



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Improved diversity in applied AI

Engaging with Public: Diversity in Research Group (Oxford BRC): 2-way interaction

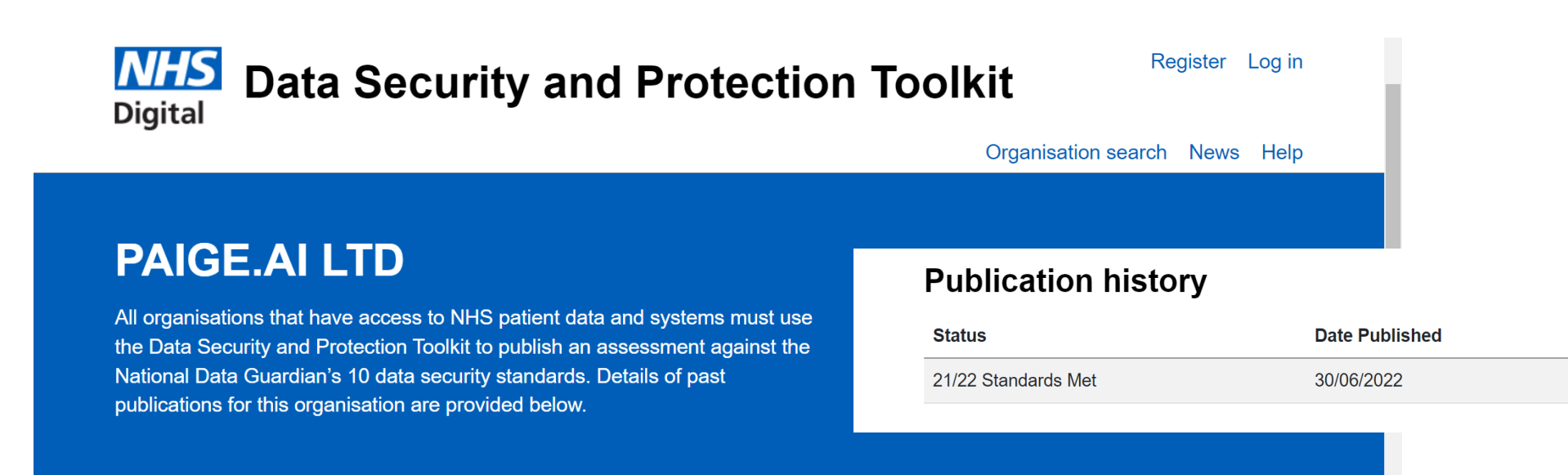
- Members of the public / patients or other service users
- From: minority ethnic communities / younger adults / people from the lesbian, gay, bisexual and transgender (LGBT+) community / carers of people with learning disabilities.



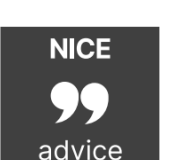
Engaging with stakeholders

- We have conducted an Equality & Health Inequality Impact Assessment
- Had discussions with a Patient and Public Involvement Manager - Innovation, Research and Life Sciences Group, NHS England
- Identified inclusion health groups: geographic variation identified across Bristol, Oxford and Coventry / treatment variance identified across England (evidenced through the National Cancer Prostate Audit) / Some areas of equality and population targeting have been identified as - Black and Asian Men and Gender Reassignment.
- Are working with AHSN's in West of England and Oxford

Increased responsible innovation



NICE National Institute for Health and Care Excellence



Paige Prostate for prostate cancer

Medtech innovation briefing
Published: 30 November 2021
www.nice.org.uk/guidance/mb280

Contact: Professor Clare Verrill clare.verrill@ouh.nhs.uk

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