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Introduction

Informed consent for examinations and procedures ensures patient autonomy and the fundamental rights of a patient are respected.

Informed Consent Forms in NHS Wales are paper based that leads to service inefficiencies. Wales in the past decade has embarked on digitising many workflows. E-Consent is another solution to resolving the problems currently encountered by NHS staff and patients alike.

Digital Health and Care Wales has successfully designed, developed, and implemented several digital transformation projects. The projects implemented are across several disciplines, including Nursing Notes, Cancer Management and Community Care.

The project explored the core elements involved with E-consent development and its impact in key areas such as **legal, ethical, technological and patient impact**.

Aim

The Aim of the research is to develop a database solution that can be integrated with the NHS Wales national architecture, and that supports the management of informed consent for examinations and procedures.

The project must support the following:

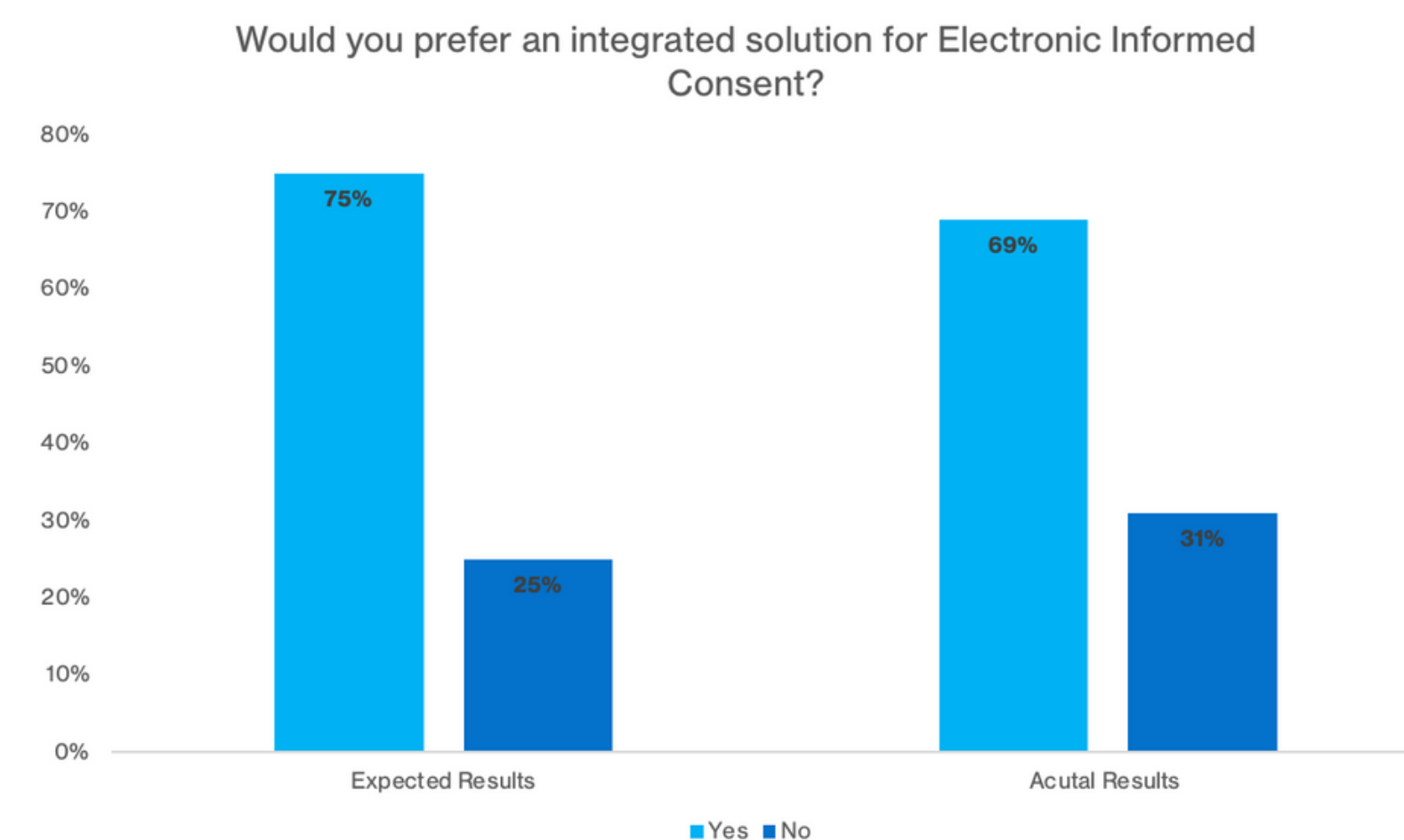
1. **Improve service efficiency**
2. **Abide by national data standards**
3. **Data conversion to XML for integration**

Research

Research conducted within the literature view had shown that three key court cases defined the consent process, these key cases were considered within the solutions development:

- Border v Lewisham and Greenwich NHS Trust
- Montgomery v Lanarkshire Health Board
- SXX v Liverpool Women's NHS Foundation Trust and Tasmin v Barts Health NHS Trust

Primary research also found that, although clinicians are in favour of an integrated e-consent solution. Patients on the other hand may not be in the socio-economic position to use such a solution due to digital poverty or lack of digital maturity.



Graph Produced by Brandon Gorman

To send the patient data across the NHS Wales architecture the data solution will need to convert data into XML for HL7 and FHIR transmission.

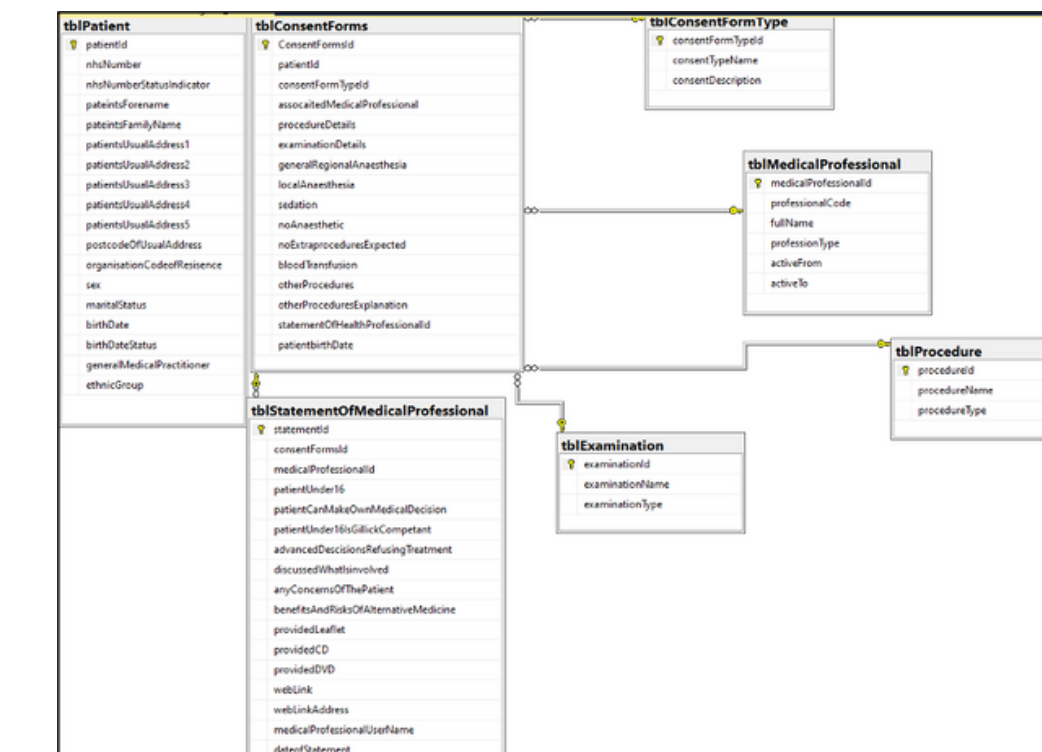
Conclusion

The research within this report has established the foundational work required for the design and development of a fully integrated e-consent solution. **Business Analysts have also highlighted the research can provide context for a future work within the area.**

References

- [1] NHS Wales Data Dictionary, <https://www.datadictionary.wales.nhs.uk>, Accessed: 27/07/2023
- [2] Digital Health and Care Wales, <https://dhcw.nhs.wales/systems-and-services/>, Accessed: 27/07/2023

Design & Implementation

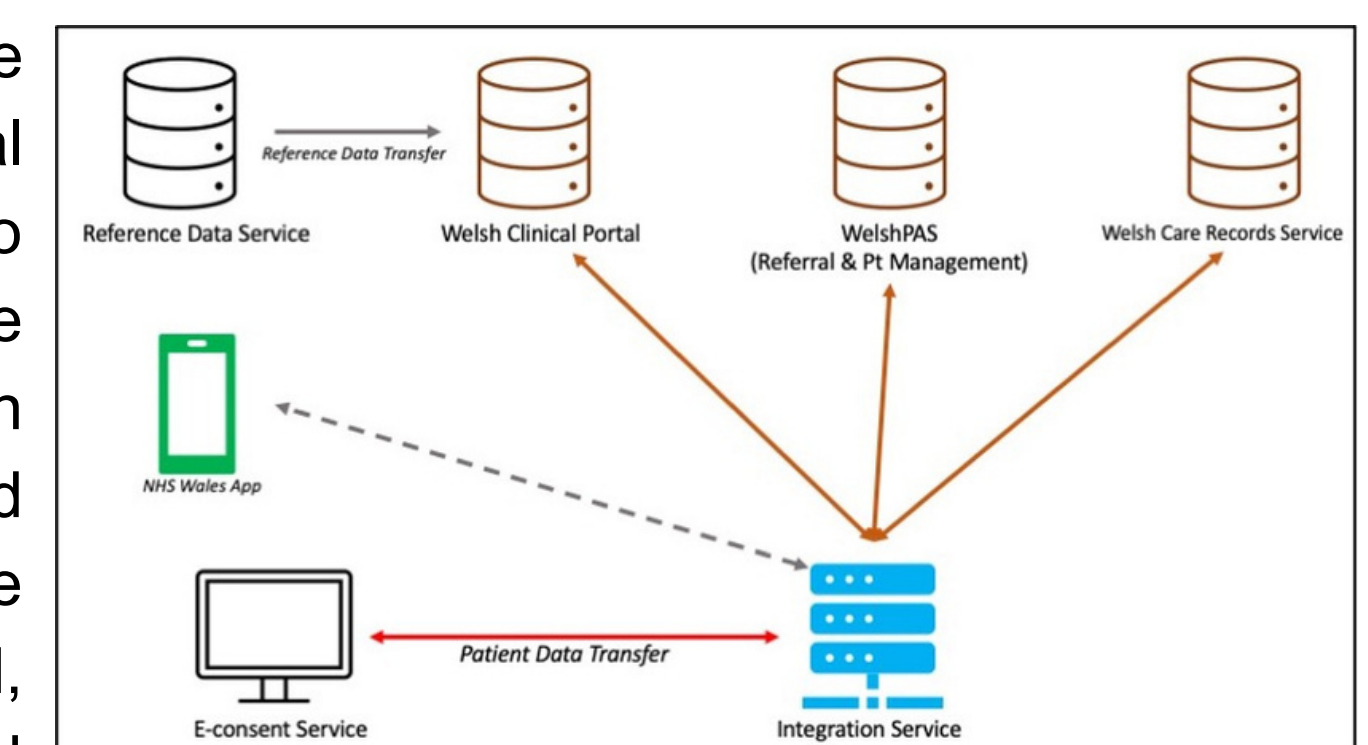


ERD Produced by Brandon Gorman

As the NHS in Wales has a highly integrated IT service, certain elements must come from other sources. This is to reduce duplication and the potential impact to information quality.

To ensure the service follows nationally agreed standards the use of nationally agreed data standards was applied. The data standards ensured that only valid and required data items were included within the solution.

Any new service must ensure it fits within the national architecture of DHCW. To ensure this in fact fits, core data items would be taken from WCP, WPAS and WCRS. This minimises the development work required, ensuring a fully streamlined service.



National Architecture Produced by Brandon Gorman