

Patients at risk because NHS hospitals using different record-keeping systems

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A major survey of medical record keeping in the NHS has revealed critical deficiencies that could risk patients' safety.

Researchers at the Institute of Global Health Innovation (IGHI) at Imperial College London, found NHS Trusts were using at least 21 different electronic medical record systems which are unable to effectively share information.

Almost four million patients were treated at two or more hospitals between April 2017 and April 2018 which had different [health](#) record systems. On 11 million occasions, patients attended a [hospital](#) that could not access medical full information from their previous hospital visit.

Electronic medical records have been rolled out across the NHS over recent decades and were expected to make communication between hospitals easier. But the researchers found that while 23 per cent of trusts were still using paper records, the 77 per cent which have upgraded to electronic records still face major difficulties. The research is published in *BMJ Open*.

Dr. Leigh Warren, [clinical research](#) fellow at Imperial's IGHI and first author of the research, said: "Patients expect their health records to be shared seamlessly between hospitals and healthcare settings that they move between. They cannot understand why, in the National Health Service, this is not the case.

"Yet hospitals and GPs often don't have the right information about the right patient in the right place at the right time. This can lead to errors and accidents that can threaten patients' lives. This is a complex issue, but our work shows how existing data can be used to develop a road map towards better coordination and safer care."

Professor the Lord Ara Darzi, lead author and co-director of the IGHI, said: "Electronic health records have been heralded as a solution to increasingly stretched healthcare systems, yet our research shows that the challenge is far greater than simple adoption of this innovation.

"It is vital that policy-makers act with urgency to unify fragmented systems and promote better data sharing in areas where it is needed most, or risk the safety of patients."

The researchers looked at data from 152 acute hospital trusts in NHS England over a one-year period between April 2017 and April 2018. More than 21 million patients were included in the analysis.

Around a quarter of the hospitals (23 per cent) were found to still be using paper records. Yet of those that were using electronic data, the study found that there was limited regional alignment of the systems used to process and store these records.

Of the 117 trusts using electronic records, the vast majority (92 trusts, 79 per cent) employed one of 21 different commercially available systems, and 10 per cent (12 trusts) were using multiple different systems within the same hospital. However, of those that used a single system, more than half (49 trusts) were using one of three identified systems.

Making these three systems interoperable would improve access to information for more than one million hospital encounters every year,

the researchers calculated.

By analysing hospital episodes statistics, the researchers went on to identify almost four million patients that attended two or more trusts during the study period. The analysis revealed that these patients often had consecutive encounters at hospitals with incompatible data systems, accounting for 9 per cent of all hospital encounters.

The work also revealed 20 pairs of hospitals that commonly cared for many of the same patients. Yet despite regularly sharing care, just two of these trusts used the same electronic health [record](#) systems.

The authors therefore conclude that strategies to promote better data sharing should be targeted towards these identified pairs of hospitals, in order to facilitate informed clinical decision-making and the delivery of safe care for patients.

Provided by Imperial College London

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