

**CLEF (Clinical e-Science Framework), funded by the by the Medical Research Council and Department of Trade and Industry, is developing rigorous, scalable, generic architecture for capturing and managing clinical information in cancer patient care and for integrating that information into clinical and basic bioscience research. The project's ultimate aim is to build systems that will serve both patients and clinical research. Initially, the focus**

The developers recognise that advances in health informatics are key to modernising health services and exploiting research and assuring its quality. However, there are barriers to capturing and handling clinical information. Clinical information is, put

The first release of the CLEF system delivered recently, transforms patients' clinical letters, taken from operational electronic health record systems, into a clinically useful, secure and generic interoperable information repository. The system includes a "Clinical e-Science Workbench" that provides user-friendly interface for clinical researchers to formulate their queries and to visualise the answers. The workbench includes tools to formulate "natural language queries".

CLEF is currently working on data from the Royal Marsden Hospital and London Institute of Genetics to develop its solutions and tools and build a prototype. Once evaluated and demonstrated in practical scientific investigations, CLEF system will be extended and deployed to serve the North West and North Central London Cancer Networks, and then integrated with the NHS National IT system to support a UK wide linked clinical and basic biosciences research.

**www.clinical-science.org**  
Alan Rector, University of Manchester