The Victorian Comprehensive Cancer Centre (VCCC) Project is underway in Melbourne, Victoria, delivering a $1 billion purpose-built facility to house the relocated Peter MacCallum Cancer Centre and provide new cancer research and clinical services for Melbourne Health (including the Royal Melbourne Hospital), new cancer research facilities for The University of Melbourne, and new education facilities. In a collaboration extending beyond the new facility, nine world-leading cancer organizations have come together to share knowledge and resources and drive the next generation of cancer research, education, treatment and care. These VCCC Members are Peter MacCallum Cancer Centre, Melbourne Health (incorporating The Royal Melbourne Hospital), The University of Melbourne, The Royal Women's Hospital, The Walter and Eliza Hall Institute of Medical Research, The Royal Children's Hospital (incorporating the Murdoch Children’s Research Institute), Western Health, St Vincent's Hospital Melbourne and most recently Austin Health (incorporating the Olivia Newton-John Cancer and Wellness Centre).

To support the sharing of cancer information, safe coordinated clinical care, and collaborative research and education, the VCCC is working with a consortium to implement a hosted solution known as "The advent of electronic health records has created vast islands of data. The goal of the VCCC Members is to share, understand, and act on this data across their organizations to improve cancer care and research outcomes."

Darren Jones
Regional Managing Director
InterSystems

InterSystems HealthShare Provides Shared Cloud-Based Patient Summary View and Interoperability Platform for Australia’s Ground-Breaking Victorian Comprehensive Cancer Centre Collaboration

- Shared Patient Summary View
- Coordinated cancer care
- Cloud-based delivery
Conexus. Conexus will support the VCCC’s vision for anytime, anywhere access to integrated cancer information. Over time, Conexus will deliver a next generation, scalable health and research informatics solution providing VCCC Members with a rapid learning environment for cancer. The consortium is led by Deloitte, which will also provide systems integration services as well as data warehousing, a portal, and a research information exchange. In addition to InterSystems, the consortium includes IBM (hardware and additional software) and Transmed (cohort search and selection).

Central to Conexus is a shared patient summary view known as the Clinical Information Exchange (CIE), being built on InterSystems HealthShare. The CIE will aggregate patient/clinical data from VCCC Member organizations’ enterprise and integrated systems, providing a composite view of clinical information about cancer patients and making it available to authorized staff at VCCC Member organizations to support collaborative care delivery. De-identified data will be fed into the Research Information Exchange to support cancer research.

HealthShare will identify and match patients and their records even if these patients have multiple identifiers supplied by different VCCC Member organizations. HealthShare will also standardize terminology and code sets. Care providers will be able to drill down into data in underlying systems where the underlying systems are capable of it and the user has appropriate security access. In Phase 1, VCCC Member organization data feeds will come from the Peter MacCallum Cancer Centre, Melbourne Health and the Royal Women’s Hospital, and drill down will be delivered in a later phase.

InterSystems is a technology supplier for similar disease-specific initiatives overseas, including the UK Renal Registry, and is an active proponent of the benefits of combining clinical care with medical research through a common health informatics platform. InterSystems is also a member of the Global Alliance for Genomics and Health, an alliance of 190 of the world’s leading biomedical research institutions, healthcare providers, information technology and life science companies, funders of research, and disease and patient advocacy organizations.

“The advent of electronic health records has created vast islands of data. The goal of the VCCC Members is to share, understand, and act on this data across their organizations to improve cancer care and research outcomes,” said Darren Jones, Regional Managing Director at InterSystems. “Through our work with the most innovative healthcare organizations worldwide, we understand the strategic importance of interoperability in solving key healthcare challenges and enabling care breakthroughs. We look forward to working with the consortium on this ground-breaking Australian initiative.”