



One of the most technologically advanced hospitals in Australia

Fiona Stanley Hospital will set new benchmarks in information and communications technology (ICT) and offer a purpose-built health facility for staff, patients and the wider community.

Fiona Stanley Hospital will have strong links with research and teaching facilities and will be located near St John of God Hospital and other health-related organisations. It will also be part of a network of health services, ranging from those provided in the home, or by GPs, Non Governmental Organisations, and other hospitals and health care providers.

New and improved communication between these groups will mean more efficient, safer and higher quality care for patients throughout Western Australia.

What new technology will Fiona Stanley Hospital offer?

Fiona Stanley Hospital will include:

- a network that will allow ICT systems to 'talk' to one another – within Fiona Stanley Hospital and across the wider health care system, including external providers and ultimately patients. The privacy and security of patient information will be of the highest importance in the development and implementation of this new network;
- videoconferencing (or telehealth) services for clinical, consultative, training and administrative purposes;
- new patient administration and records systems;
- improved ICT infrastructure including wireless technology integrated with building systems to ensure security and patient safety; and
- the integration of new medical equipment with the ICT environment.

Next generation bedside patient entertainment systems, that can also be used for clinical and administrative purposes, are being proposed. New systems, like tablet computers for bedside patient care including patient administration, transmission of images including x-rays and scans, pain management, discharge administration and medication management are also being explored.

What new administration and records systems will there be?

Administrative and clinical health care services at Fiona Stanley Hospital will use a single **Electronic Health Record (EHR)** to capture and maintain a patient's entire medical record. The EHR will improve access to information and decision making, and better integrate with other clinical information systems (such as imaging, pathology and pharmacy) to provide a more comprehensive patient medical history.

What will the benefits of the improved ICT environment be?

For **patients**, the new ICT environment will:

- improve safety and quality of care;
- improve coordination and delivery of health care services;
- reduce time spent providing the same information many times over to different clinicians and health service providers; and
- streamline processes – including bookings, notification of appointments and admissions, as well as entry and exit from hospital.

For **doctors, clinicians and other hospital staff**, the new ICT environment will:

- improve the quality and consistency of care;
- provide different ways to interact with a patient directly or via video;

- reduce duplication;
- improve decision making; and
- improve patient outcomes.

For **external GPs, other hospitals including private hospitals, and community health care providers** the new ICT environment will provide a range of benefits, including:

- new and better ways to exchange and coordinate patient care;
- improved access to information – including the range and suitability of services provided by the public health system;
- improved ways of scheduling and referring patients;
- improved ability to interact and collaborate with clinicians in the public health system; and
- the reliable delivery of information to the right place and the right people at the right time.

How realistic is it to expect Fiona Stanley Hospital to have these types of new technologies?

Many of the advancements proposed for Fiona Stanley Hospital have already proven successful in leading hospitals around the world. Many international hospitals have already embraced ICT to deliver state-of-the-art health care, including the:

- Severance Hospital in Seoul, South Korea;
- Bumrungrad International Hospital in Bangkok, Thailand;
- Chang Gung Memorial Hospital in Taiwan;
- Brampton Civic Hospital in Toronto, Canada;
- St Olavs Hospital in Trondheim, Norway; and
- John H Stroger Jr Hospital in Chicago, USA.

The Fiona Stanley Hospital project team and WA Health are learning from the experiences of these and other international and interstate counterparts in order to implement the best available technology at Fiona Stanley Hospital. This technology will provide a high level of flexibility and allow Fiona Stanley Hospital to incorporate new technological advancements as they become available.

For more information

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