ALCIDION

Alcidion Group Limited

Product Overview

September 2016

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PROFESSOR MALCOLM PRADHAN

- 20 years experience in Medical Informatics.
- MBBS University of Adelaide.
- PhD Medical Informatics, Stanford University.
- Founding fellow of the Australasian College of Health Informatics (ACHI).
- Adjunct Professor at the University of South Australia.
- Previously Associate Dean of IT (Health) and Director of Medical Informatics, University of Adelaide.
- Clinical Lead within the Australian Government's National e-Health Transition Authority (NeHTA).

Dr. Malcolm Pradhan
Director
Chief Medical Officer
MBBS, PhD, FACHI

THE PROBLEM

- Hospitals and health systems are struggling to cope with increasing demand.
- Pressure to deliver services more efficiently.
- Organisational inefficiency results in substantial additional running costs.
- Administration requirements are growing; leaving less time for diagnosis, treatment and care.

Up to
40%
lab results not seen

Adverse Events
15%
multi-day episodes

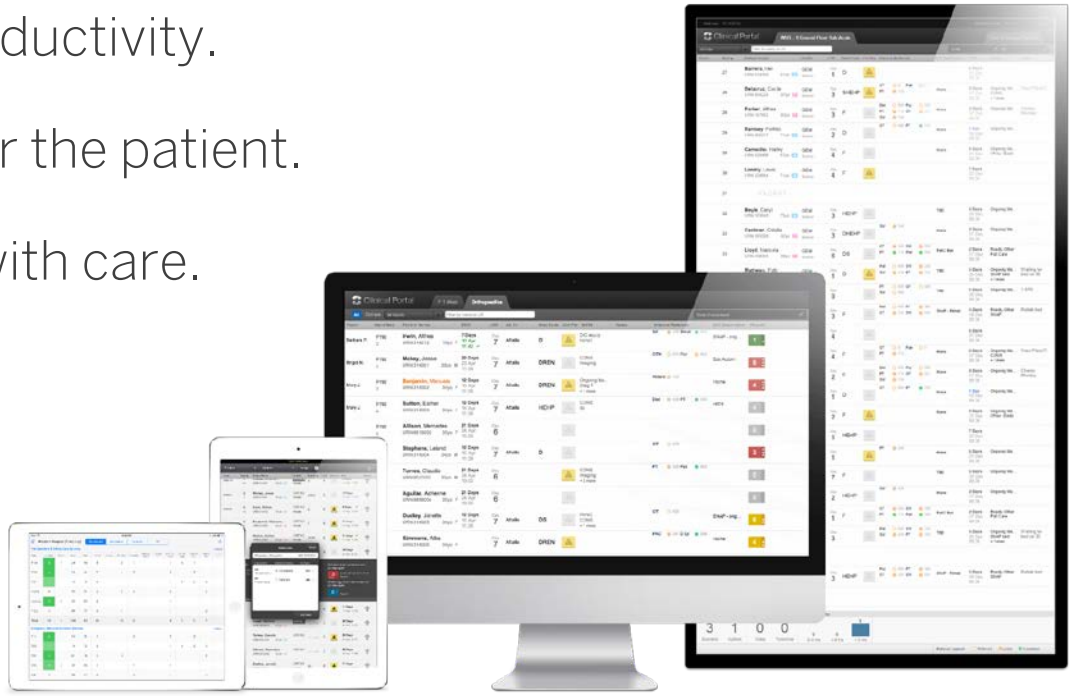
Clinicians spend
30%
of time with patients

Non compliance
30%
to guidelines

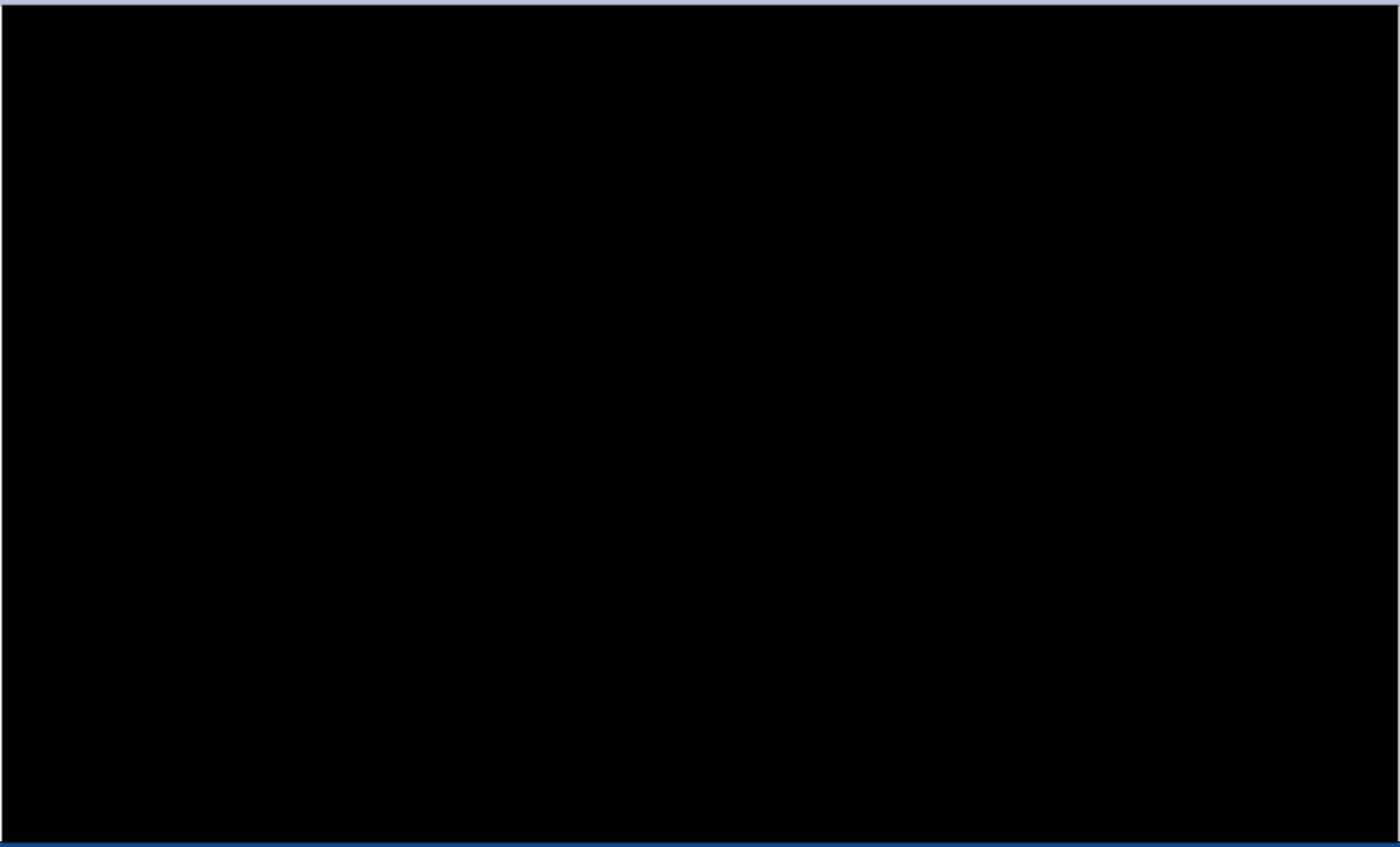
THE SOLUTION

Intelligent Health Informatics technology that will;

- Alcidion's approach is components work together to create task specific solutions.
- Improve efficiency and productivity.
- Deliver better outcomes for the patient.
- Reduce costs associated with care.
- Manage clinical risk.
- Reduce flow problems.
- Provide decision support.



CUSTOMER TESTIMONIAL



ALCIDION

Product Overview

PRODUCT OFFERING

Miya ED

- Clinical Dashboards
- Results Management
- Miya Mobile
- Missed Results Tracking
- Miya Smartforms
- Miya Orders

Miya Clinicals

- Clinical Dashboards
- Results Management
- Miya Mobile
- Missed Results Tracking
- Miya Smartforms

Miya Patient Flow

- Clinical Dashboards
- Bed Management System
- Miya Mobile
- Electronic Journey Boards
- Department Metrics
- Miya Smartforms

Miya Clinic

- Clinical Dashboards
- Results Management
- Miya Smartforms
- Referral Management

ALCIDION'S MIYA PLATFORM

Administrative

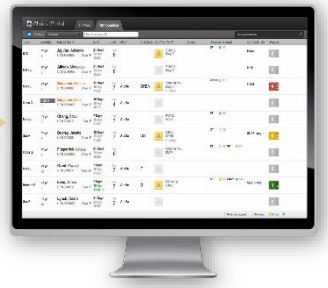
Clinical

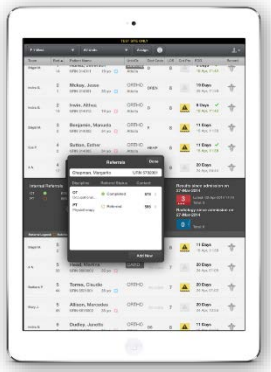
PAS HL7	Admit, Discharge, Transfer
PAS HL7	Patient Demographics
PAS Export	Elective Admissions
Emergency IS	Patients, Admit Requests
Laboratory	Results
RIS	Orders, Bookings
PACS	Images
Active Directory	Roles, Users

Miya Platform

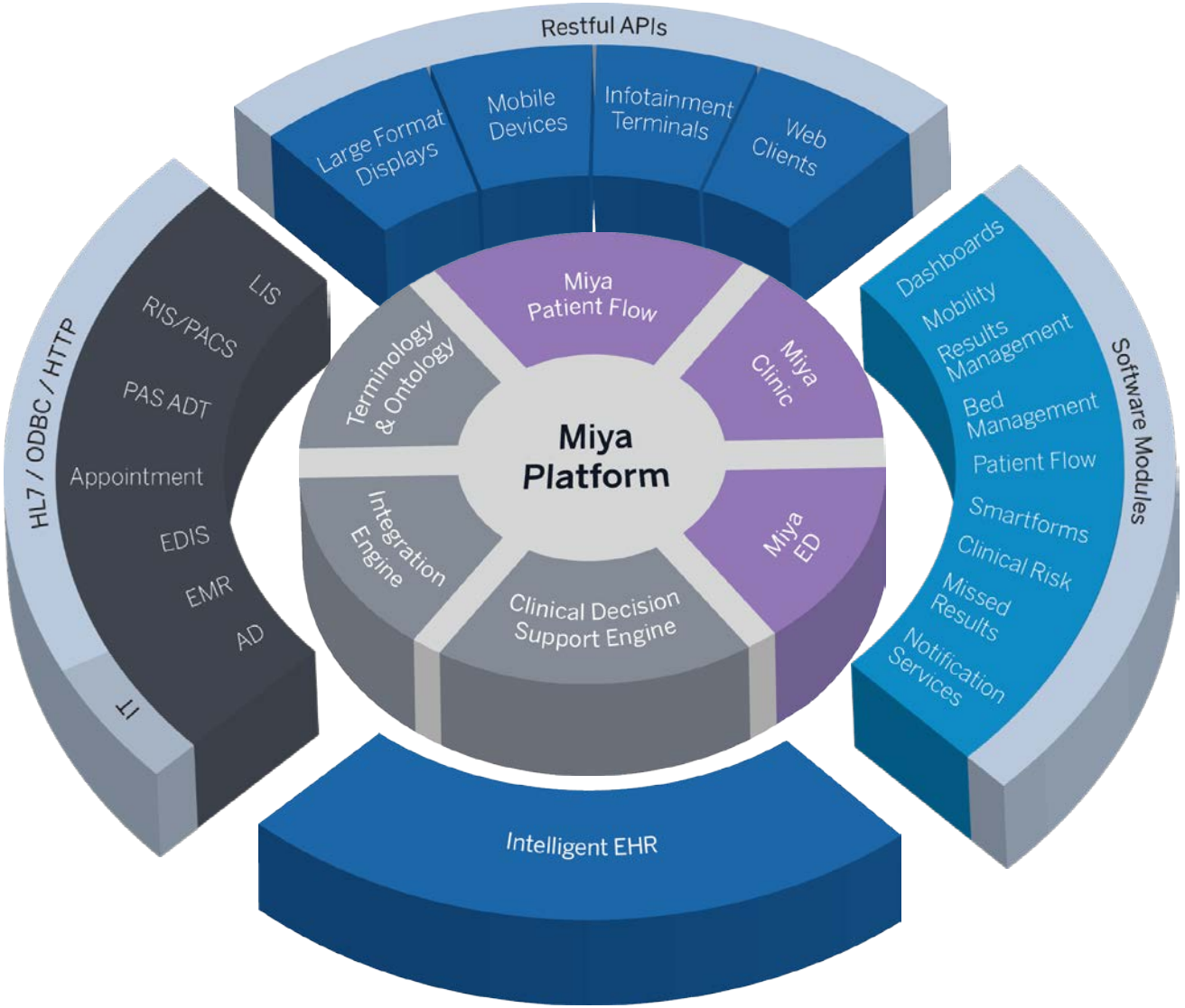
Data Integration, Analysis, e-Guidance

- Journey Board
- PC/ Infotainment
- Mobility





MIYA OVERVIEW



EMERGENCY DEPARTMENTS – THE PROBLEM

- Emergency Departments are high stress, chaotic environments.
- Increasingly complex patients.
- High turnover in staff, so senior staff must carefully supervise juniors.
- National targets (NEAT) require patients to be discharged within 4 hours.
- Time is critical.

MIYA ED

Miya ED provides a set of clinical dashboards that allow your Emergency Department team to identify and act upon clinical risks as they arise – both during an ED admission or post discharge.

Key benefits

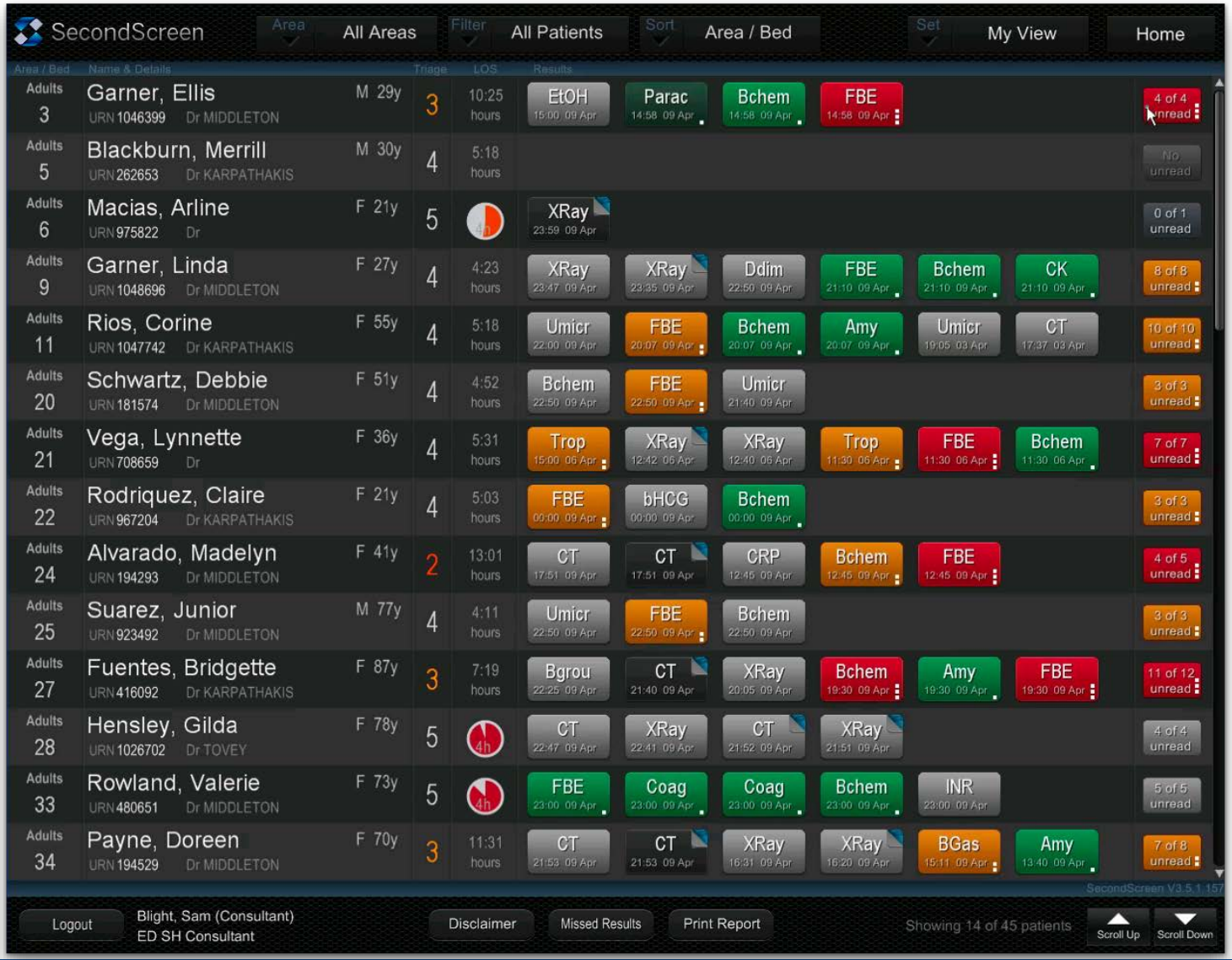
- Highlight key risks.
- Improve patient safety.
- Detect and manage high risk lab results that arrive after the patient has been discharged.
- Activate best practice guidance.

MIYA ED

Miya ED

- Clinical Dashboards
- Results Management
- Miya Mobile
- Missed Results Tracking
- Miya Smartforms
- Miya Orders

MIYA ED
CLINICAL DASHBOARD



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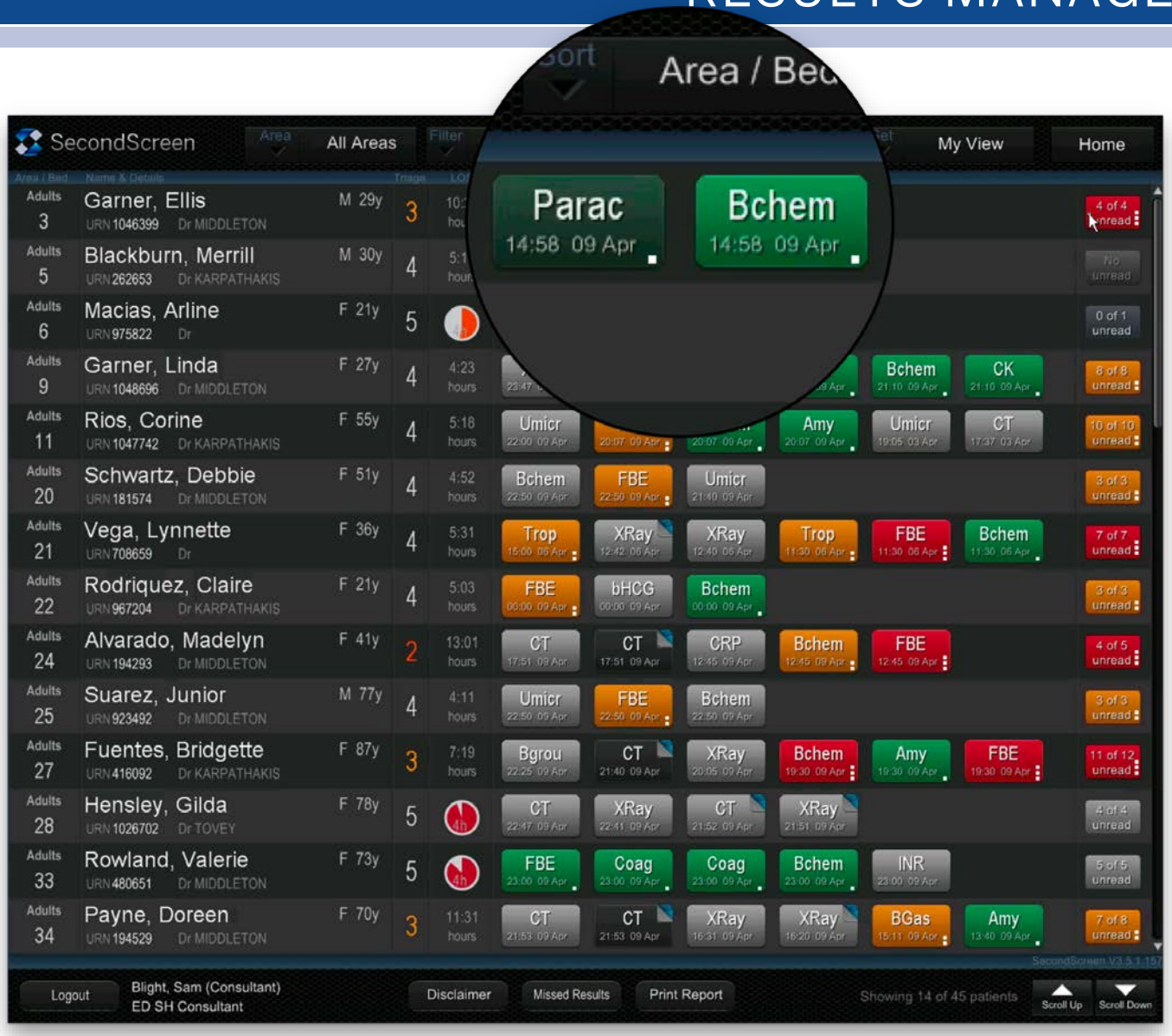
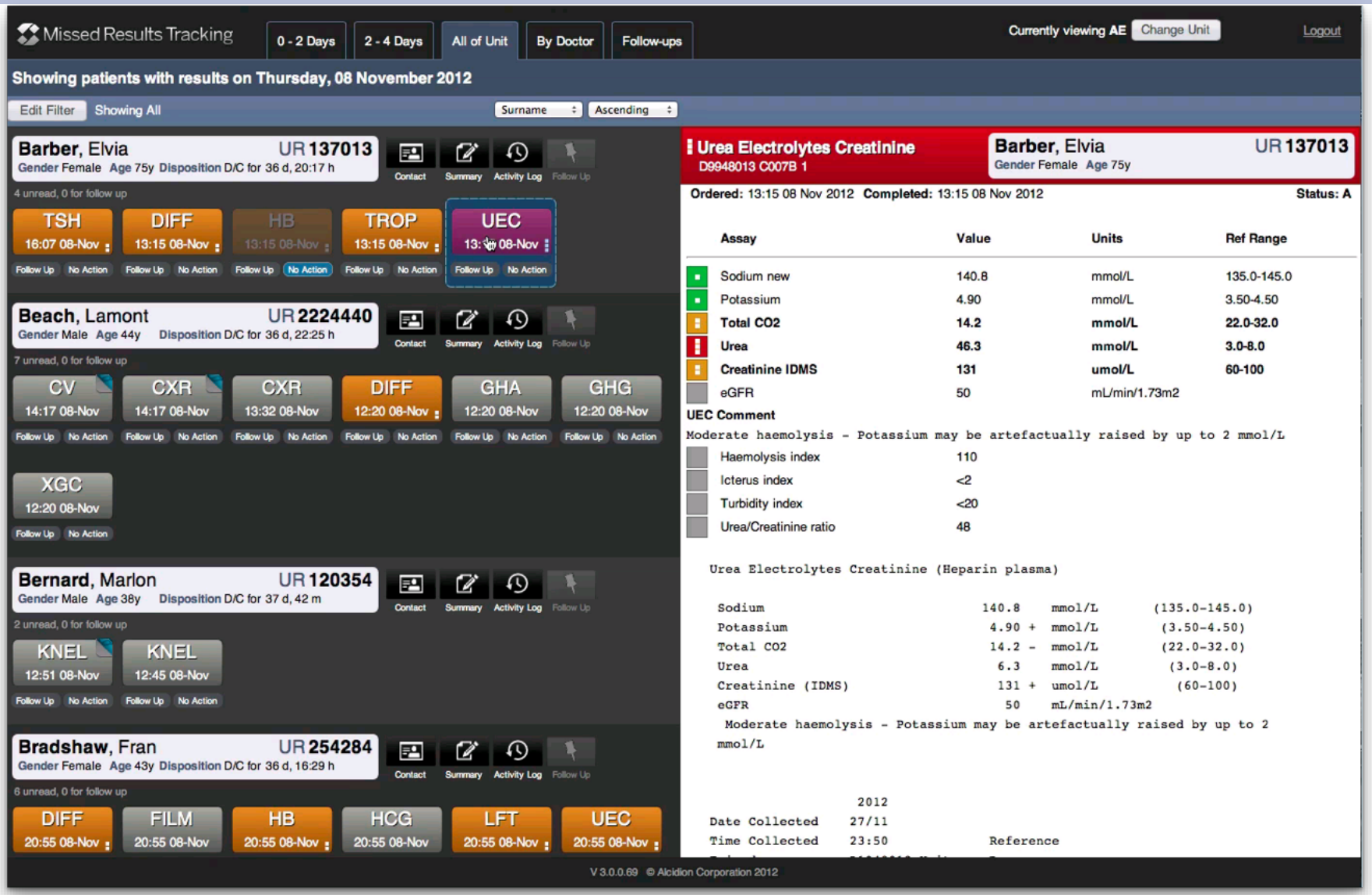
MIYA ED
RESULTS MANAGEMENT



MIYA ED
MISSED RESULTS TRACKING



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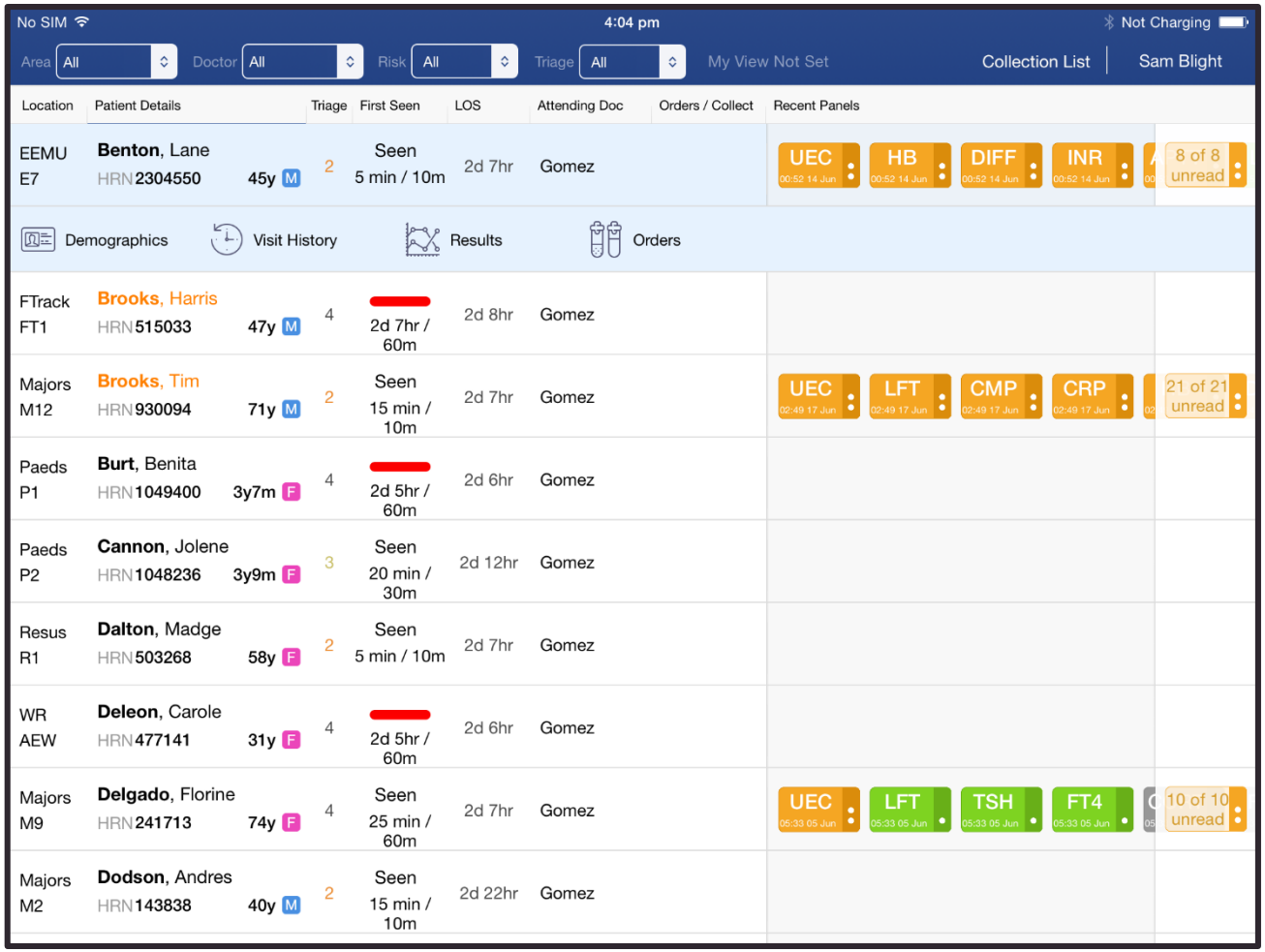
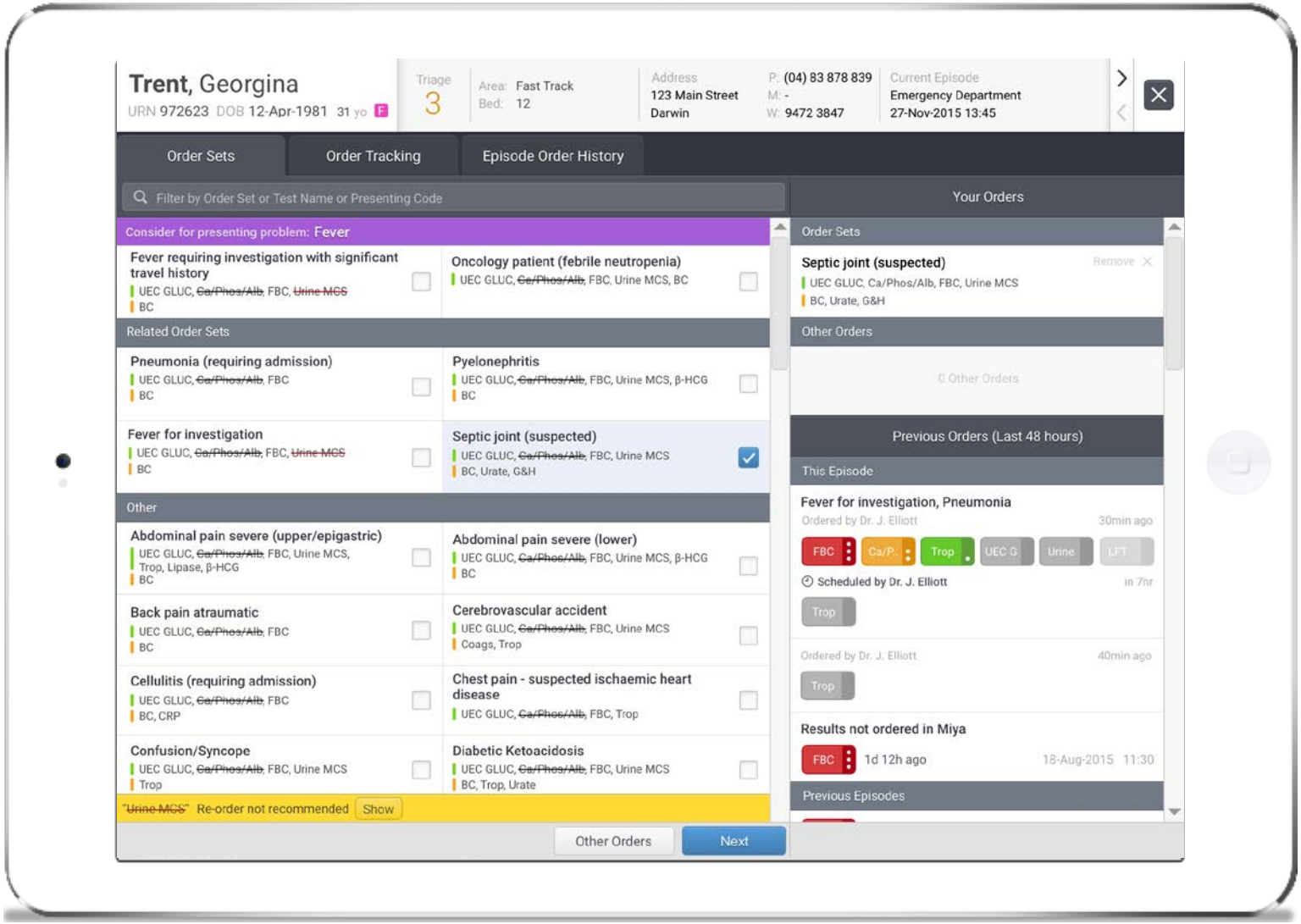
MIYA ED MOBILE



MIYA ED ORDER SETS



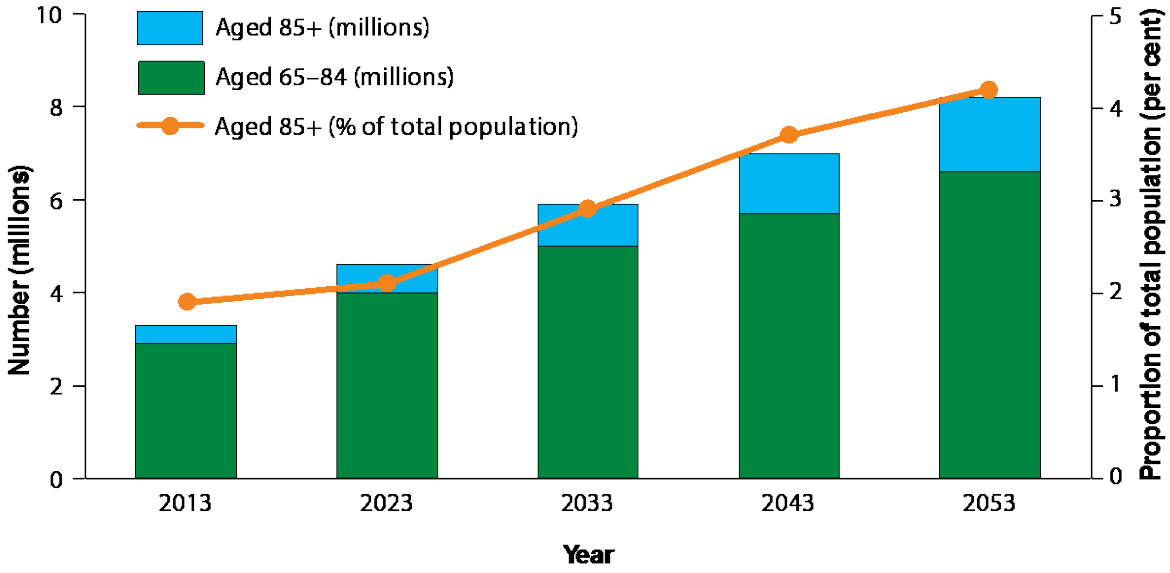
IMPROVE YOUR ED

Miya ED adds value to existing ED information systems and delivers significant service performance improvement.

- Patient treatment commences an hour earlier, leading to faster recovery.
- Redundant test orders are reduced – 5% savings in ED pathology costs (ED's typically consume about 40% of the pathology orders in an acute general hospital).
- Critical (abnormal) test results are properly witnessed for follow-on action – without Miya ED around 40% of test ordered are not read (and 18% of these will be critical).
- Miya ED saves ED Heads/Senior Consultants several hours a day.
- Care team satisfaction with Miya ED is very high – rated at better than 80% compared to other clinical systems at around 30%.
- Miya ED is installed in Royal Melbourne, Royal Darwin, Alice Springs, Footscray, Sunshine and three other public hospital ED's.

INPATIENT HOSPITAL FLOW – THE PROBLEM

- The Ageing population is putting an increased load on hospitals
- Increasingly complex patients are harder to manage and coordinate
- Team based care puts an extra burden on logistics



Note: Data are as at 30 June. Data presented for 2023 onwards are based on population projections (series B).

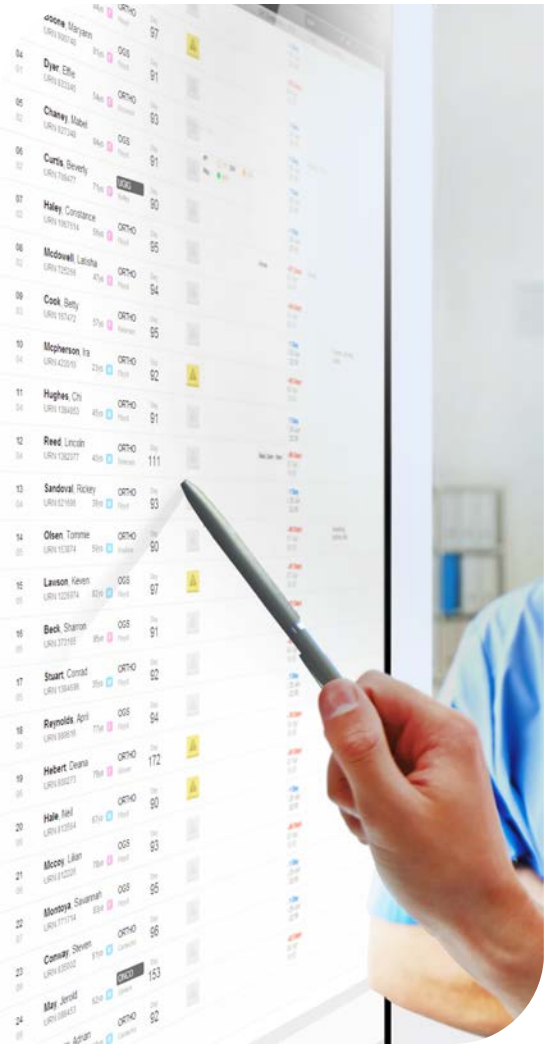
Sources: AIHW analysis of ABS 2013a, 2013j.

MIYA PATIENT FLOW

Miya Patient Flow is an e-health guidance system that optimises the patient journey through powerful electronic journey boards, a mobile EMR, Mobile Bed Management and an intelligent monitoring system.

Key benefits

- Reduction in organisational inefficiency and cost
- Efficient use of beds for patients
- Effective clinical outcomes while increasing productivity
- Improved NEAT Compliance
- Improved WIES Target Compliance

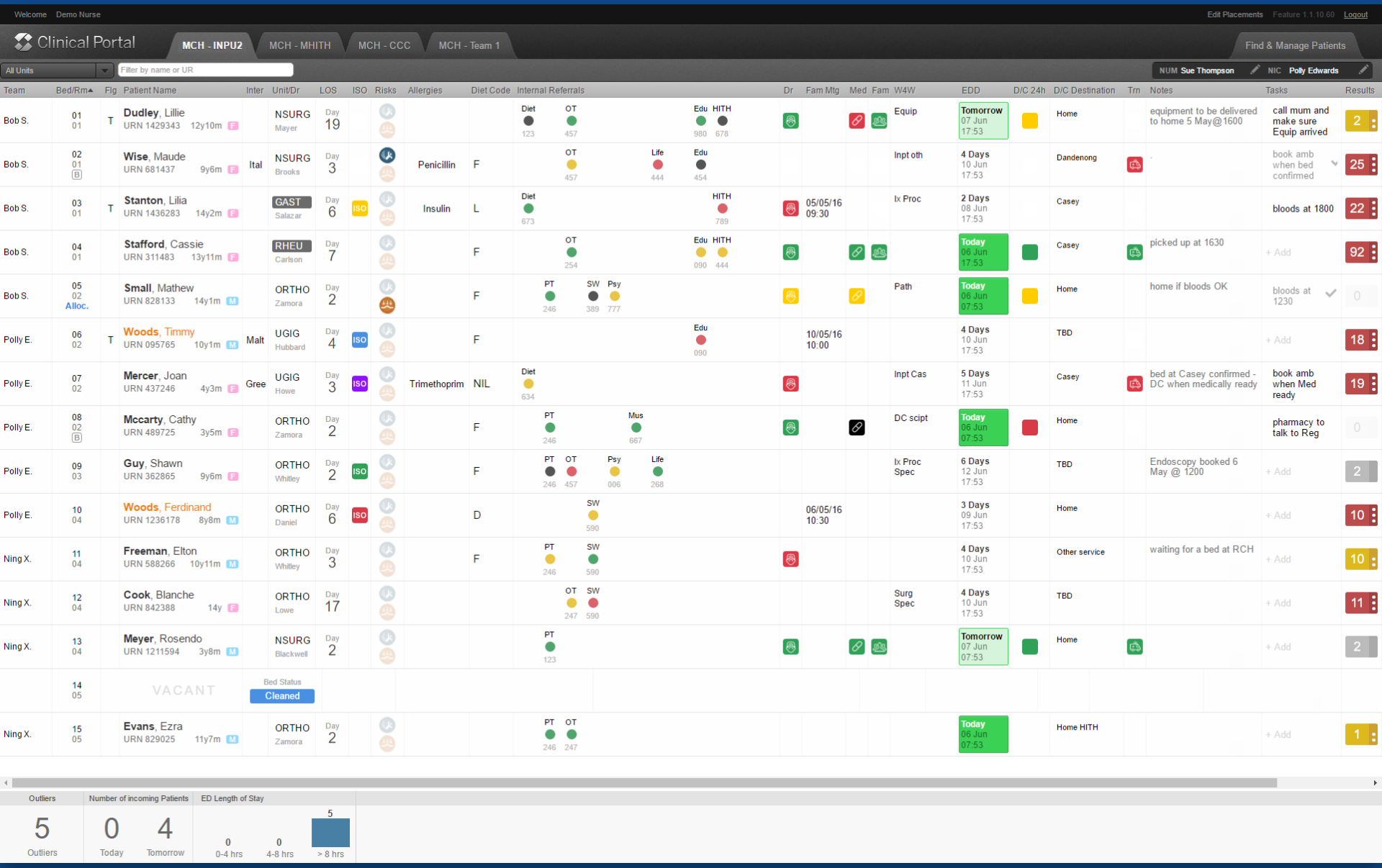


MIYA PATIENT FLOW

Miya Patient Flow

- Clinical Dashboards
- Bed Management System
- Miya Mobile
- Electronic Journey Boards
- Department Metrics
- Miya Smartforms

MIYA PATIENT FLOW
CLINICAL DASHBOARD AND WHITEBOARDS



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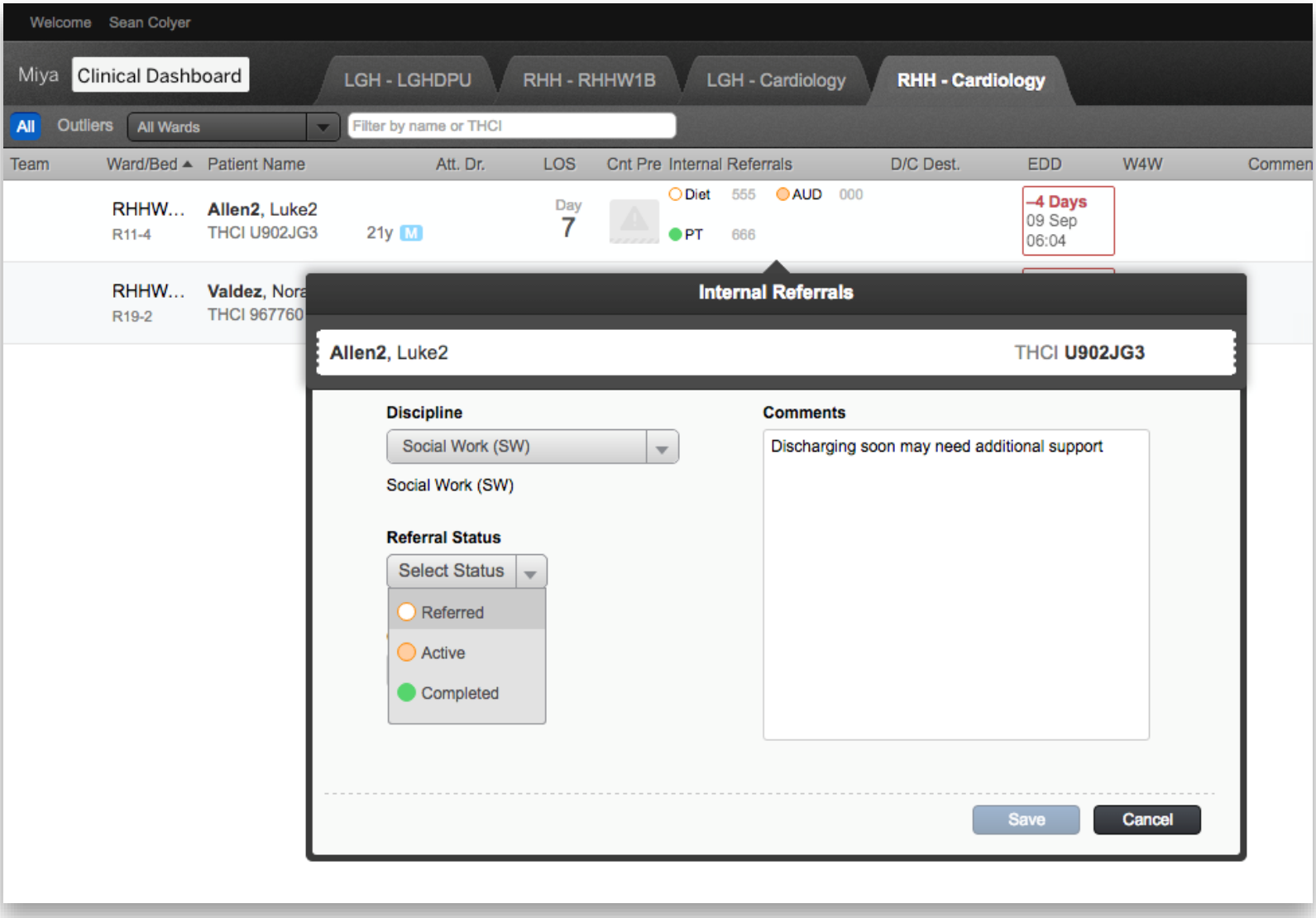
MIYA PATIENT FLOW
CLINICAL DASHBOARDS



MIYA SMARTFORMS™

Discharge Planning

WH community follow-up required on discharge?	☑ Yes	☐ No
> 1 chronic / complex medical conditions?	☐ Yes	☑ No
Likely difficulty with daily activities on discharge?	☐ Yes	☑ No
Existing community based service(s)?	☐ Yes	☑ No
Likely to have difficulty with caring responsibilities?	☐ Yes	☑ No
Complex family or social issues?	☐ Yes	☑ No

Actions

- ☑ Referral to Allied Health
- ☑ Discuss with Community Services Consultant
- ☐ Discuss with SNAP Team

Orientation to Ward - Ensure patient / carer is orientated to the ward

- ☐ Handpiece (call bell, TV, radio, lights)
- ☑ Meal times / visiting times
- ☑ How to give feedback
- ☐ Location of toilet / communal dining room / gym / garden
- ☑ Storage of valuables (refer to Patient Valuables Form AD375)
- ☐ Education brochures provided

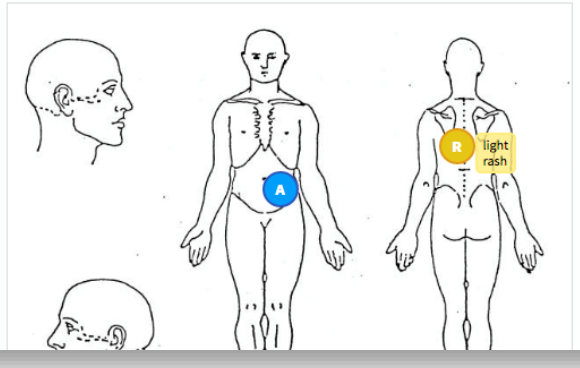
Skin Integrity

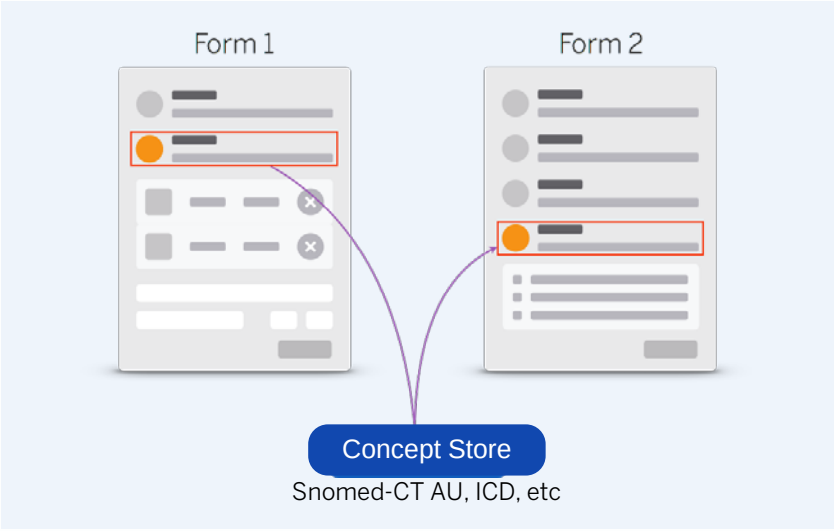
Must be completed within 8 hours of admission

Verbal consent of skin inspection ?	☐ Yes	☐ No
Skin inspection performed?	☑ Yes	☐ No
Date/Time Completed:	13-Sep-2016 00:00	
Is skin intact?	☐ Yes	☑ No

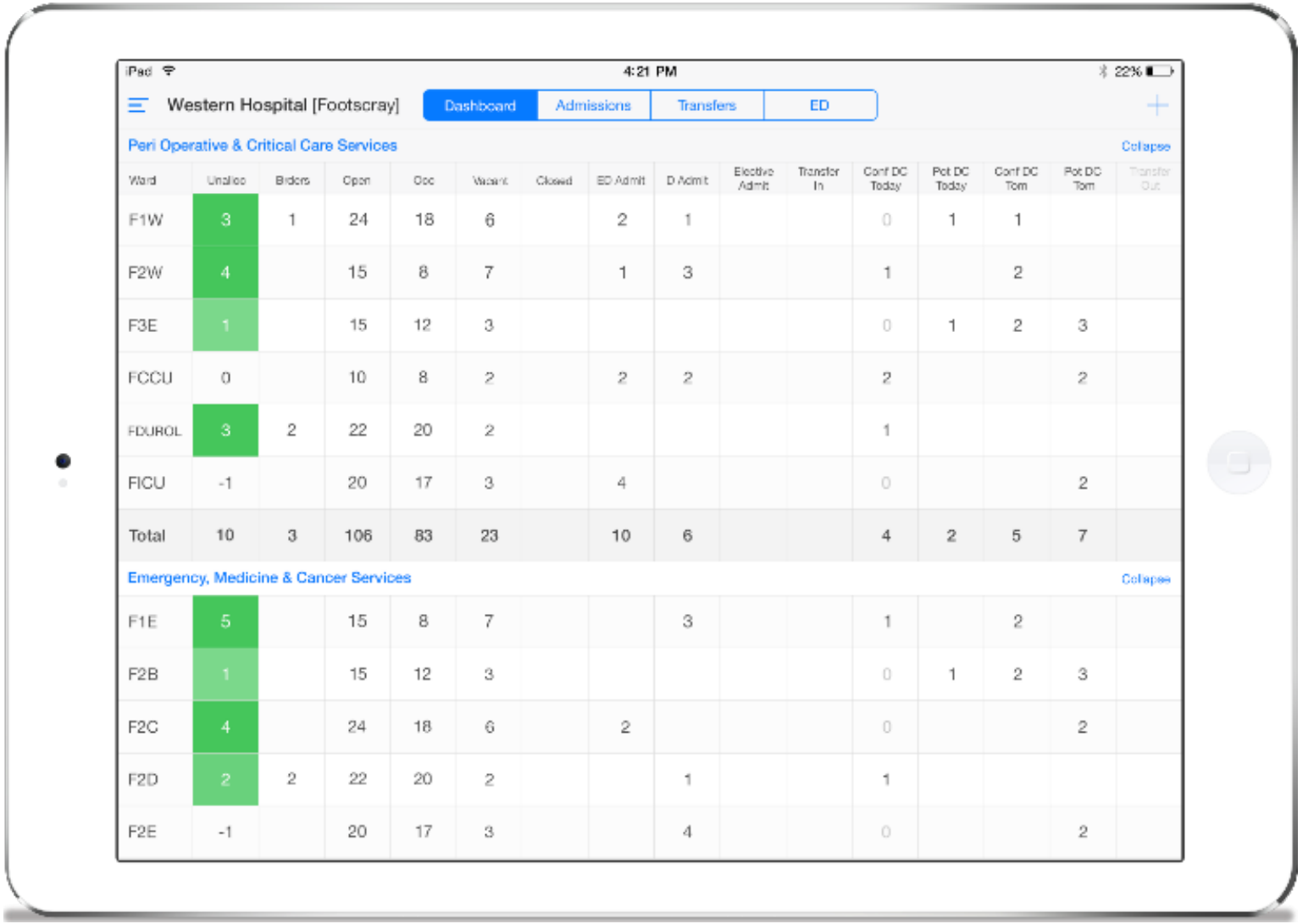
Click to add annotation

- A Abrasion
- B Bruise
- E Excoriation
- R Rash
- PI Pressure Injury
- ST Skin Tear
- SW Surgical Wound

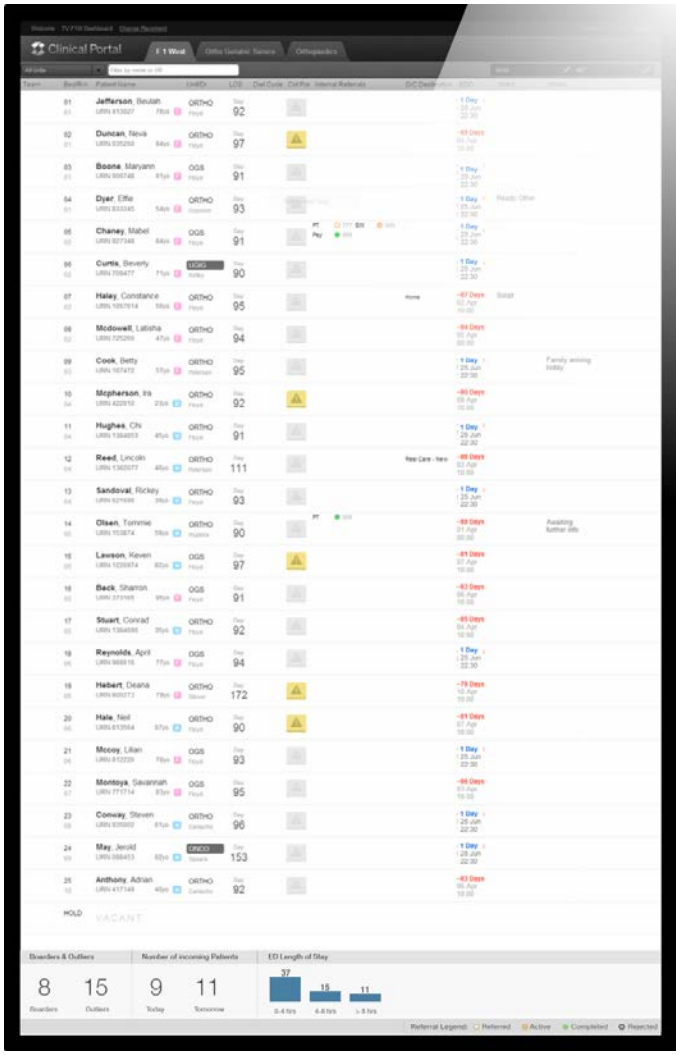




MIYA ACCESS
BED MANAGEMENT



ELECTRONIC JOURNEY BOARDS



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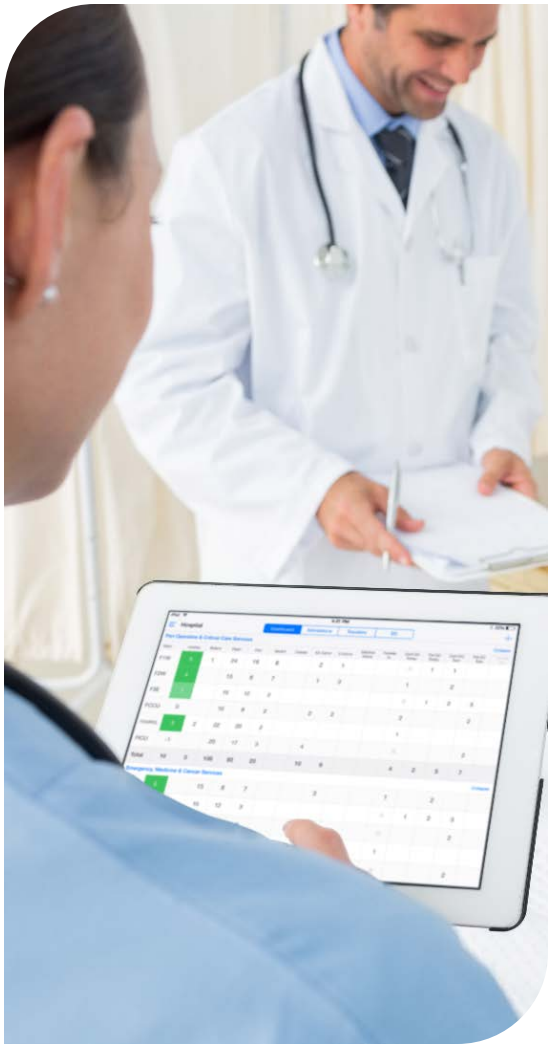
METRICS AND PREDICTIVE ANALYTICS

IMPROVE YOUR PATIENT FLOW

Some key results The Royal Darwin Hospital have seen since the introduction of Patient Flow;

- The number of patients discharged by midday increased from 23% to 27%.
- The number of patients moved to a ward within four hours increased from less than 20% to 41%.
- RDH processed 59% of patients within the ED in the 4 hour target, an increase of 10%.

Source: https://www.aci.health.nsw.gov.au/ie/projects/readi



OUTPATIENT SERVICE – THE PROBLEM

- Outpatient departments are overwhelmed with referral requests.
- Difficult to organise, triage and optimise queues for their patients – which can result in poor patient health outcomes.
- Clinicians find it difficult to determine when a patient should be discharged from a clinic in order to make room for a patient on the waiting list.
- Significant time is lost filling in paperwork, often with the same data repeated across different forms.

MIYA CLINIC

Miya Clinic optimises your outpatient processes from referral through to discharge ensuring best practice, high quality care. Outpatient services include minor procedures, medical consultations and allied health interventions (e.g. physio).

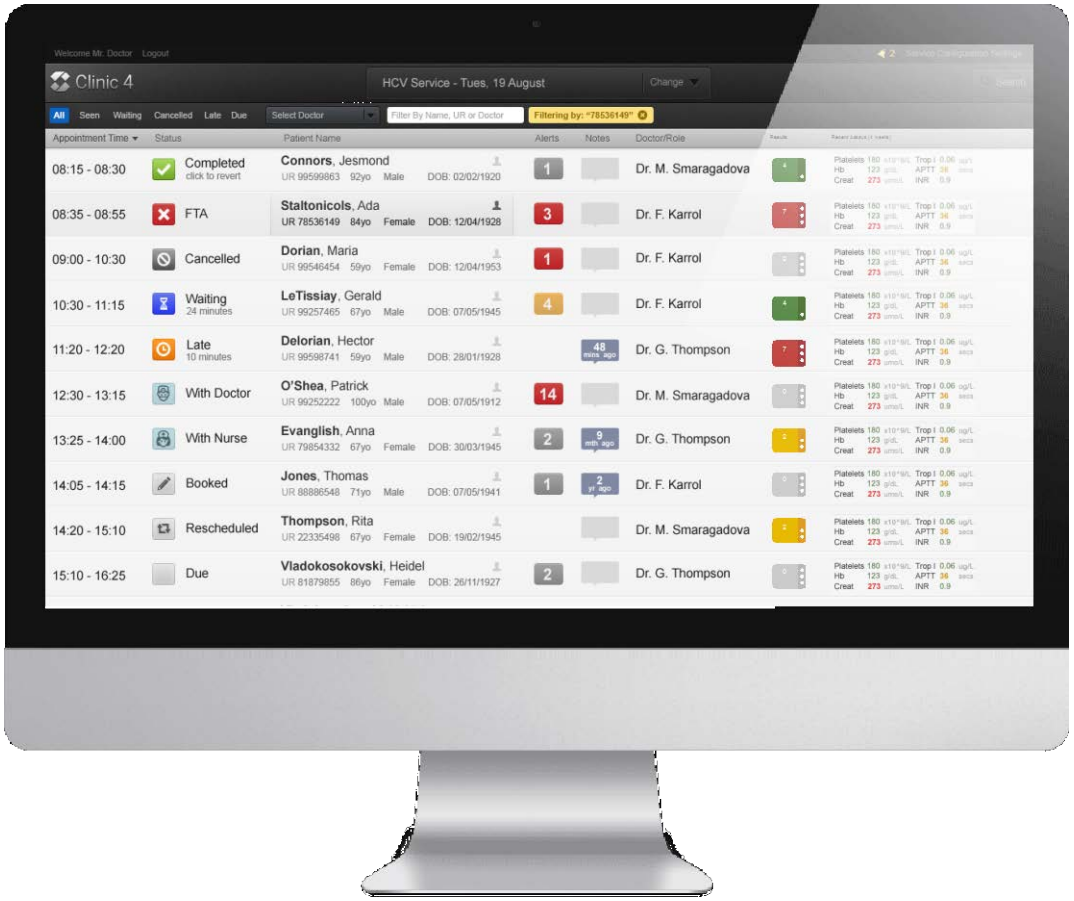
Key benefits

- Improve Clinician productivity
- Reduce clinical risk
- Reduce the number of attendances per patient
- Reduce waiting times

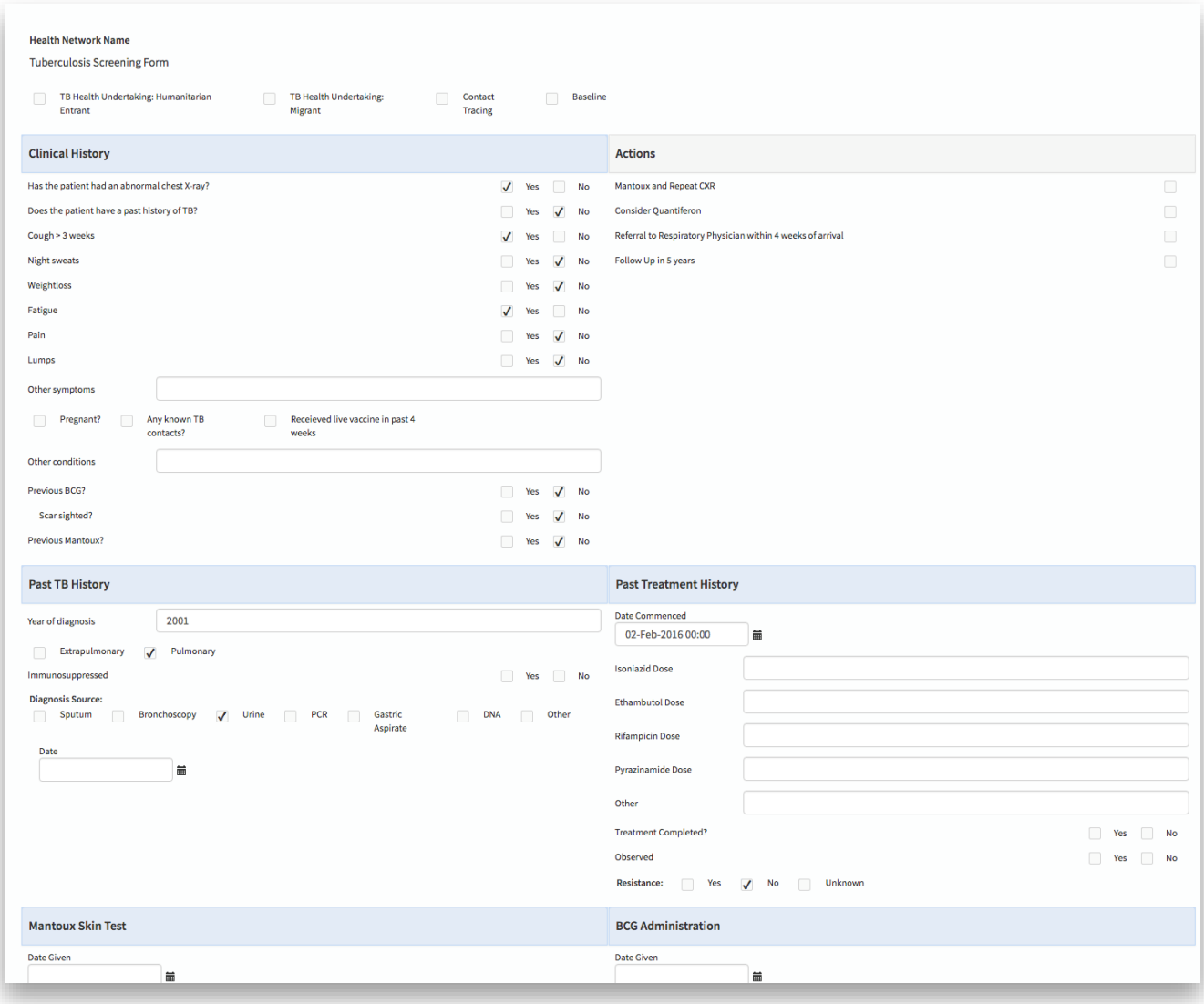
MIYA CLINIC

Miya Clinic

- Clinical Dashboards
- Results Management
- Miya Smartforms
- Referral Management



MIYA SMARTFORMS™



Health Network Name

Tuberculosis Screening Form

☐ TB Health Undertaking: Humanitarian Entrant ☐ TB Health Undertaking: Migrant ☐ Contact Tracing ☐ Baseline

Clinical History

Has the patient had an abnormal chest X-ray?	☑ Yes	☐ No
Does the patient have a past history of TB?	☐ Yes	☑ No
Cough > 3 weeks	☑ Yes	☐ No
Night sweats	☐ Yes	☑ No
Weightloss	☐ Yes	☑ No
Fatigue	☑ Yes	☐ No
Pain	☐ Yes	☑ No
Lumps	☐ Yes	☑ No

Other symptoms

☐ Pregnant? ☐ Any known TB contacts? ☐ Receieved live vaccine in past 4 weeks

Other conditions

Previous BCG?	☐ Yes	☑ No
Scar sighted?	☐ Yes	☑ No
Previous Mantoux?	☐ Yes	☑ No

Actions

Mantoux and Repeat CXR	☐
Consider Quantiferon	☐
Referral to Respiratory Physician within 4 weeks of arrival	☐
Follow Up in 5 years	☐

Past TB History

Year of diagnosis: 2001

☐ Extrapulmonary ☑ Pulmonary

Immunosuppressed ☐ Yes ☐ No

Diagnosis Source:

☐ Sputum ☐ Bronchoscopy ☑ Urine ☐ PCR ☐ Gastric Aspirate ☐ DNA ☐ Other

Date

Past Treatment History

Date Commenced: 02-Feb-2016 00:00

Isoniazid Dose

Ethambutol Dose

Rifampicin Dose

Pyrazinamide Dose

Other

Treatment Completed? ☐ Yes ☐ No

Observed ☐ Yes ☐ No

Resistance: ☐ Yes ☑ No ☐ Unknown

Mantoux Skin Test

Date Given

BCG Administration

Date Given

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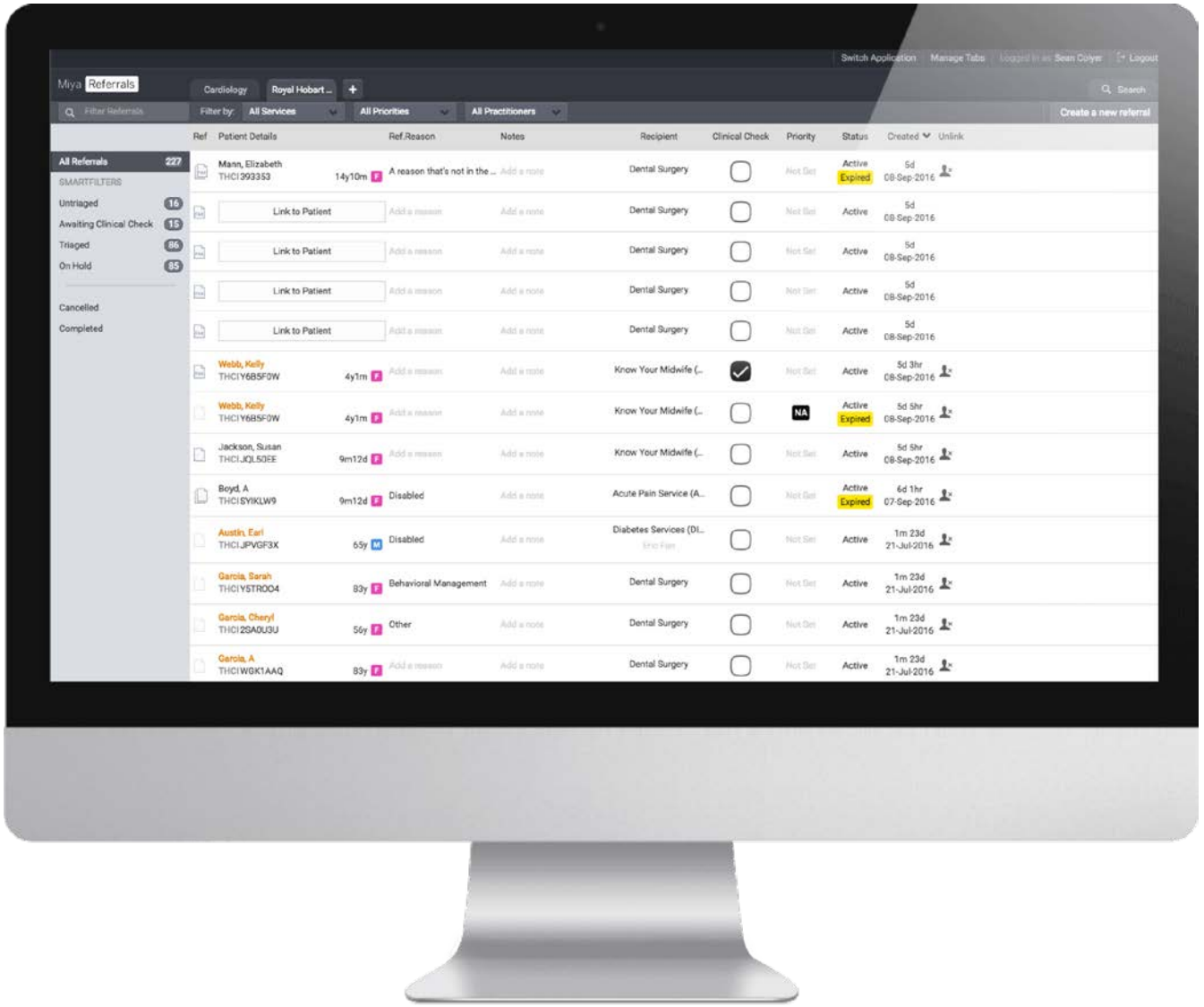
REFERRAL MANAGEMENT



IMPROVE YOUR CLINIC

- Australia's public hospitals provide around 26 million outpatient services annually.
- Australia's outpatient services are considered inefficient - with average attendance per patient being more than twice as high as in the UK.
- The pressures on outpatient's services will increase as public hospitals seek to reduce the cost of inpatient services.

CLINICAL RISK – THE PROBLEM

- Outpatient departments are overwhelmed with referral requests.
- Difficult to organise, triage and optimise queues for their patients – which can result in poor patient health outcomes.
- Clinicians find it difficult to determine when a patient should be discharged from a clinic in order to make room for a patient on the waiting list.
- Significant time is lost filling in paperwork, often with the same data repeated across different forms.

MIYA CLINICALS

Miya Clinicals is a suite of applications and services that integrate existing health IT infrastructure. It enables clinicians to respond faster to emerging risks by pushing this information to them on dashboard views.

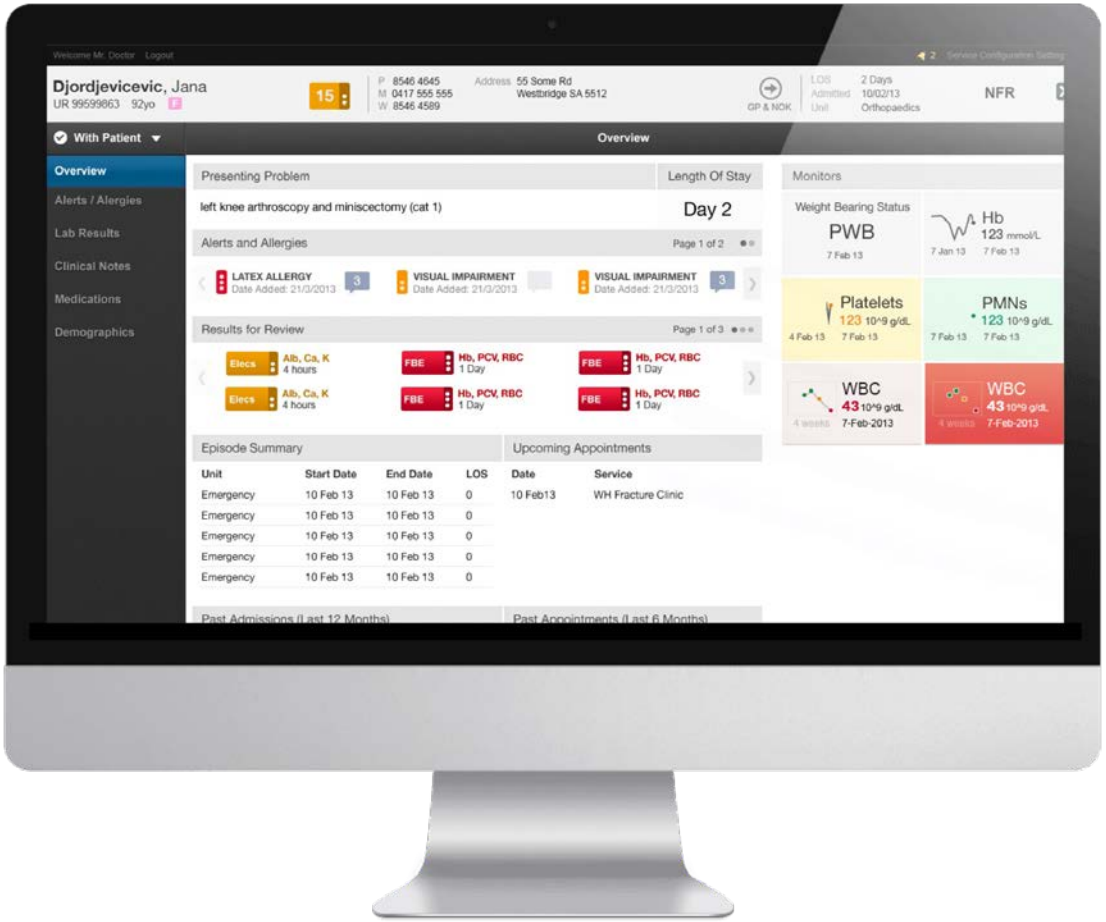
Key benefits

- Better patient outcomes

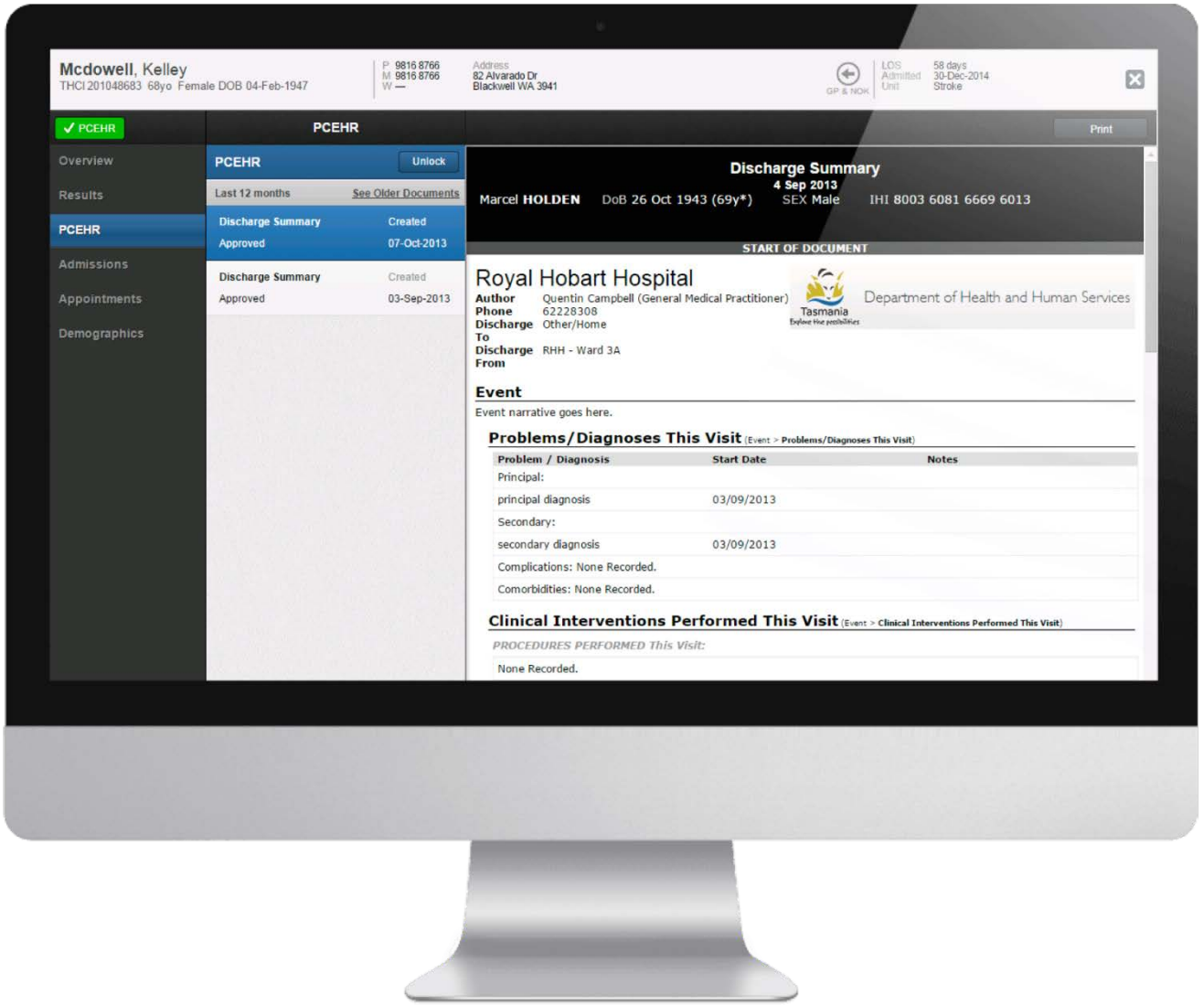
MIYA CLINICALS

Miya Clinicals

- Clinical Dashboards
- Results Management
- Miya Mobile
- Missed Results Tracking
- Miya Smartforms

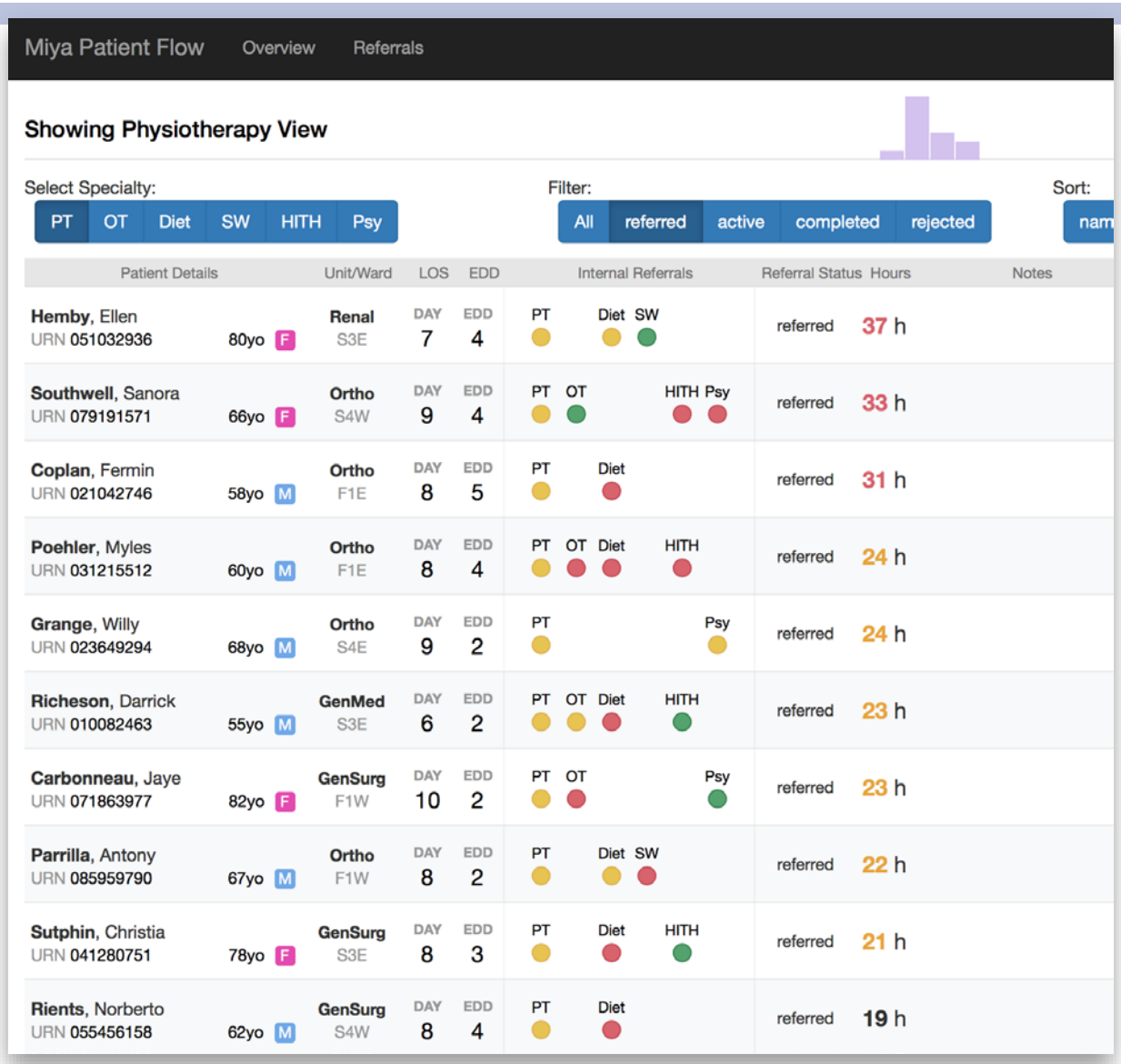


MYHR INTEGRATION



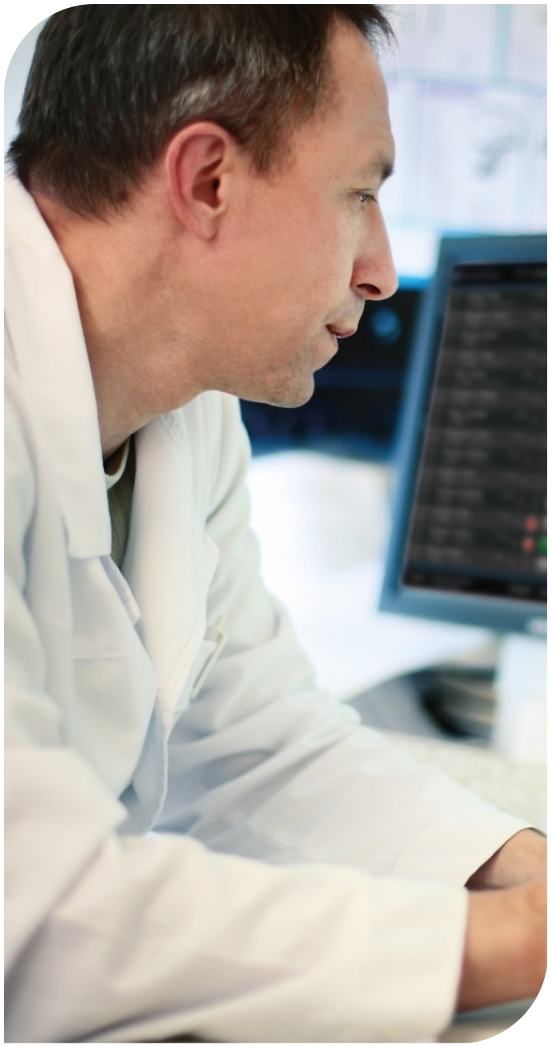
COHORT IDENTIFICATION VIA TAGGING

- Identify patients that are candidates for CDM, trails
- Patient lists are dynamically created
- Build custom workflows for cohort management



ROADMAP

- Major focus on CDSS improvements
- Better use of machine learning (ML)
- Improved cloud integration
- User driven metrics and notifications
- Easier to create SmartForms to assist with custom workflows



ALCIDION

QUESTIONS ?

THANKS FOR JOINING US

ALCIDION SOLUTIONS

- Detect and alert clinicians to impending clinical risks and flow problems.
- Display information in a highly visible way.
- Provide visibility to clinicians about patient's state and progress.
- Monitor laboratory feeds for new results, assign clinical risk ratings.
- Foster a team approach to care.
- Identify high risk lab results for patients, regardless of admission status.
- Management of inbound referrals, assisting with clinical decision making and data capture.

DR. BOW TAURO

- Arrange an onsite demonstration
- Product suite information
- Quotes and pricing
- General questions

Dr. Bow Tauro
Business Development Manager
bow.tauro@alcidion.com