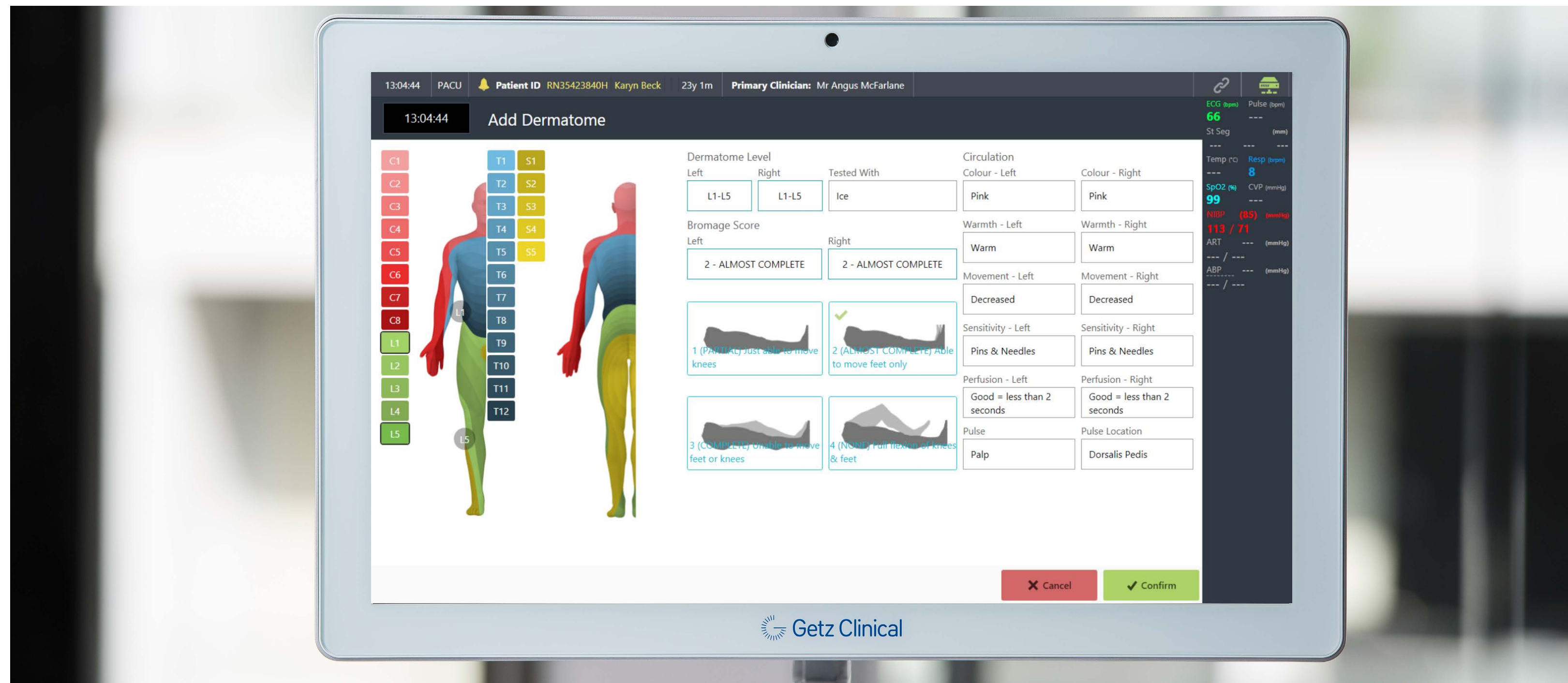


GCC: Anaesthesia

# PACU module



Elegant eHealth solutions for every hospital



*‘[The GCC modules] give me the ability to clearly interpret the patient’s anaesthetic journey. It allows me to easily and concisely record my nursing cares in the post anaesthetic unit, giving a smooth transition for the patient and a greater overall picture of the patient’s surgical journey. I couldn’t go back to scrawled paper notes.*

Bobbi van Dinther, Registered Nurse, Forté Health



# GCC

PACU is a module in the GCC suite, a fully integrated suite of clinical software modules designed specifically for the acute care environment.

Individual modules automatically capture patient data in the preoperative, intraoperative and postoperative phases and include acute pain management recording.

Each patient’s medical history is collated into a consolidated record that is accessible from any secure portal, ensuring that clinicians can access the right patient information at any time.

GCC modules are accessed via purpose-built Getz Touch medical-grade hardware devices installed in induction bays, operating theatres and PACU/ recovery rooms, or via web-based portals suited for both personal computers and mobile devices.

Our enterprise-level subscription offering is scalable so it grows as your hospital or group of hospitals grows. The architecture of our modules complies with HL7 standards, ensuring seamless interfacing with hospital patient administration systems, theatre booking systems and all models of patient monitoring equipment.

## Module overview

The GCC PACU module is for use in post anaesthetic care units and continues the process of automated charting begun in the GCC *Induction* and *IntraOp* modules. Data entry is via a touch screen interface on the Getz Touch GT-30-19 multimedia wide-screen medical-grade computer.

Vital signs downloaded directly from patient monitors can be annotated. Observations and other details can be recorded manually, including:

- medications and fluids
- pain, nausea and sedation scores
- wound and pain management
- neurovascular assessments and Bromage scores

- level of consciousness, airway management and patient disposition
- arterial blood gas (ABG)
- discharge protocol and ward instructions
- ward equipment (for tracking and inventory)
- arrest and critical events

Staff in attendance and staff changes can be recorded easily.

A recovery report is automatically generated and saved in the *Chronology* module.

## Benefits

- Clinicians have immediate access to data and reports generated in Getz Clinical’s *PreOp*, *Induction* and *IntraOp* modules via Getz Clinical’s *Chronology* module.
- Physiological data from all patient monitors is automatically captured.
- Clinicians can annotate patient data quickly and easily through pre-populated and comprehensive picklists.
- Data entry is up to 93% faster than with traditional paper-based reporting methods.
- Faster data entry allows clinicians to spend more time with patients and carers.

Elegant eHealth solutions  
for every hospital

GCC modules are used in  
hospitals and medical centres in four continents

50+





# Bookings List

The Bookings List screen lists the appointments that have been booked for the facility’s operating theatres for a given day. It shows the status of each appointment: booked, running or completed.

Tapping an appointment opens a ‘hidden drawer’ which lists the patient’s metrics. The clinician can then review previous reports about the patient and select the appointment they want to commence.

14:05:46Recovery Bay 1

< Shut down

Bookings list for All Theatres (02-Nov-2015 - 16-Nov-2015)

Search Patient

+/- 1 Day

Today

+/- 1 Week

View Booking For

	Status	Booked Location	Patient Name	Patient ID (MRN)	Planned Procedure(s)	Appointment Date and Time
▼	Booked for OT2	OT2	Sonia Whitley	RN36089200H	Colonoscopy	06-Nov-2015 19:00:00
▼	Booked for OT2	OT2	Bashir Zarrinkalam	RN32576678H	Amputation bilateral 2nd toes at pip	06-Nov-2015 19:45:00
▲	Booked for OT2	OT2	Garry Ruehland	RN89763525H	Myringotomy	06-Nov-2015 20:00:00
<div>Planned Anaesthetist: Dr James RichardsonEpisode ID:</div> <div><div>Date of birth13-Oct-1935Age80yGenderMaleHeightWeightBMIReview ReportsSelect</div></div>						
▼	Booked for OT2	OT2	Ania Paulson	RN8801500H	Excision plantar wart right foot lateral aspect 5th metatarsal	06-Nov-2015 20:15:00
▼	Booked for OT2	OT2	Annapurna Berridge	RN34392512H	Upper GI Endoscopy	06-Nov-2015 20:30:00
▼	Booked for OT2	OT2	Audrey Gatley	RN10432574H	Correction left 3rd hammer toe (fusion)	07-Nov-2015 06:00:00
▼	Booked for OT2	OT2	Benjamin Aird	RN36056165H	Amputation bilateral 2nd toes at pip	07-Nov-2015 06:15:00

# Set Up Case

The Set Up Case screen enables the clinician to record the details of all the staff involved in the case, including the receiving nurse, and start the case.

16:33:33PACU

< Back

Set Up Case for RN60012267H Kazi Levy

Add New Clinician Role

Actual Procedure

No actual procedure information is available as an appointment has not been selected.

Planned Procedure(s)

Left Cataract 21.5 STB

Anaesthetic details

Anaesthetic Technique

Episode IDASA

Staffing

Clinician Role	Clinician Name	Delete
Receiving Nurse	Mr Peter Hogan (US8999798E)	✖
Nurse	Mr Peter Hogan (US8999798E)	✖

Start data collection:

15:33:29

Confirm All and Start



# Vitals screen

The Vitals screen is the main screen in the PACU module. It displays the patient's vitals (automatically captured from the patient monitor) and enables the clinician to annotate them.

All aspects of the case can be documented from the Vitals screen including observations, significant events, wound management, medications, infusions and staff changes.

The quick touch buttons on the Vitals screen give the clinician fast access to the screens most commonly used, and guide the clinician to complete all the documentation associated with the patient's care.



# Assess Patient Scores

The Assess Patient Scores screen enables the clinician to enter observations such as airway method, conscious level, colour and pulse. When the patient is conscious the clinician can enter their sedation, nausea and pain scores on the same screen.

When the patient is conscious the clinician can enter their sedation, nausea and pain scores on the same screen.



Elegant eHealth solutions  
for every hospital

Getz Clinical subscription costs typical less than **1%**  
of typical theatre operating costs





# Wound Management

The Wound Management screen enables the clinician to quickly and comprehensively document the patient's wounds. The clinician can add information about:

- the location of the wound
- observations of colour, warmth and sensation

- dressing types
  - plaster
  - limb elevation and traction
  - stoma
  - drains
  - the application of ice, heat packs and pressure bandages
- Comments can also be added.

14:22:12Recovery Bay 1Patient ID RN89763525H Garry Ruehland80yPrimary Clinician: Mrs Caroline Gates

14:22:12Wound Management

+ Add New Site

Wound ID	Time	Wound Site	Wound Site Notes	Delete
W1	14:14:24	Head > Eye > Right	Dressing Type: Combine and mefix,Dressing Type: Combine	X
	14:14:40		Dressing Type: Combine and mefix	X
	14:22:07		Dressing Type: Combine	X

+ Add Wound Note

X Cancel

✓ Confirm

ECG (bpm)Pulse (bpm)71---St Seg (mm)---Temp (°C)Resp (bpm)37.0---SpO2 (%)CVP (mmHg)98---MAP (mmHg)117 / 83---ART (mmHg)---ABP (mmHg)---

# Medication

Medications administered to the patient can be easily documented on the Medication screen. The name of the medication, the time it was given and the dose are then shown on the Medications and Fluids panel across the top of the Vitals screen.

16:39:46PACUPatient ID RN60012267H Kazi Levy169cm63kg36y8mPrimary Clinician: Mr Peter Hogan

16:39:46

Medication NameRouteDose/KgDose+ Add Medication

Morphine (mg)IV0.02 mg1 mg

Push TitrateInto Fluid BagAs Solution>

Medication

Infusion

Fluids In

Fluids Out

Timings

Edit MedicationsAssoc. GroupDone

Metoclopramide (mg)0.5 mgOndansetron (mg)4 mgFentanyl (mcg)100 mcg

Hartmanns (mL)1000Gentamicin (mg)1

Drain 1 - Blood Loss (mL)350Urine (mL)150

300 mL240 mg150 mL230 mL

ECG (bpm)Pulse (bpm)69---St Seg (mm)---Temp (°C)Resp (bpm)37.1---SpO2 (%)CVP (mmHg)99---MAP (mmHg)119 / 76---ART (mmHg)121 / 79---ABP (mmHg)---

*‘The single most comprehensive source of information about a patient’s past perioperative experience, instantly available anywhere within the state’s computer network and allowing a myriad of uses of the accumulated data.’*

Associate Professor John Archdeacon, Director of Anaesthesia, Intensive Care and Perioperative Medicine, Cairns Hospital, ANZCA Bulletin, September 2011



**Dr Richard French, Anaesthetist, Forté Health**

The clinician can document the patient's dermatome level and Bromage score on one screen, and enter circulation observations.



Data entered on the Dermatome screen – dermatome levels, Bromage scores and circulation observations – are charted in the ancillary panel at the bottom of the Vitals screen for easy reference. This data also appears on the PACU Report generated at the conclusion of the session.



# Elegant eHealth solutions for every hospital

Getz Clinical modules used in **1200** surgical operations every day





*‘Patient vitals such as blood pressure, pulse rate and temperature are automatically captured and recorded. More detailed and reliable records allow for greater accuracy and lead to increased patient safety. Lost paper records are now a thing of the past!’*

Dr Patrick Musto, Consultant Anaesthetist, Leicester General Hospital

# Pupils and limbs

The clinician can document the patient’s pupils size and reaction and perform limb assessments including arm and leg movement.

15:59:25PACUPatient ID RN35423840H Karyn Beck23y 1mPrimary Clinician: Mr Angus McFarlane

P

U

P

I

L

A

R

M

S

Left Size

Left Reaction

Right Size

Right Reaction

Normal Power

Mild Weakness

Severe Weakness

No Response

L

R

L

R

L

R

L

R

L

R

P (Pearl)

== (Reactive)

== (Non Reactive)

S (Sluggish)

C (Closed)

L = Left

R = Right

L = Left

R = Right

ECG (bpm)72

Pulse (bpm)---

St Seg (mm)---

Temp (C)---

Resp (bpm)8

SpO2 (%)99

CVP (mmHg)---

NIBP (86)119 / 70

ART (mmHg)---

ABP (mmHg)---

15:59:25Pupil & Limbs Assessment

L

R

PEARL

Reactive +

Sluggish S

Non Reactive -

Closed C

1mm

2mm

3mm

4mm

5mm

6mm

7mm

8mm

Left Arm Movement

Right Arm Movement

Left Leg Movement

Right Leg Movement

Normal Power

Mild Weakness

Normal Power

Mild Weakness

Edit Pupils & Limbs

Cancel

Confirm

# Glasgow Coma Scale

Screen enables a clinician to document a patient’s Glasgow Coma Scale data, including eye, verbal and motor values.

13:54:48PACUPatient ID RN35423840H Karyn Beck23y 1mPrimary Clinician: Mr Angus McFarlane

Eyes

Verbal

Motor

Spontaneously To Speech

Oriented

Inappropriate Words

Incomprehensible Sounds

None

Obey Commands

Localize Pain

Flexion Pain

Abnormal Flexion

Extension to Pain

None

No Response

4

5

4

Eyes closed by swelling = C

Motor response: Respond best arm response

ECG (bpm)67

Pulse (bpm)---

St Seg (mm)---

Temp (C)---

Resp (bpm)8

SpO2 (%)98

CVP (mmHg)---

NIBP (88)115 / 74

ART (mmHg)---

ABP (mmHg)---

13:54:48Glasgow Coma Scale

Eye Opening Response

Verbal Response

Motor Response

Total GCS Score

4 - Spontaneously

5 - Oriented

6 - Obey Commands

15

Edit GCS Score

Cancel

Confirm

Pale

Flush

Diaphoretic

U/min

Palp

Spont

Pale

Drowsy

Calm

6 U/min

Palp

Spont

Colour

Cons Level

Disposition

O2 Flow

Pulse

Respiration

10

9

8

7

6

5

4

3

2

1

Pain

Nausea

Sedation

Elegant eHealth solutions for every hospital

We have demonstrated well over 500% return on investment for existing customers



Ready for Discharge

Clinicians can record details regarding a patient’s discharge assessment. These include level of consciousness, haemodynmaic stability, respiratory stability, oxygen saturation status, post op pain assessment, post op emetic symptoms, minimum temperature, MADs score and others, as set by the hospital.

16:00:55PACUPatient ID RN35423840H Karyn Beck23y 1mPrimary Clinician: Mr Angus McFarlane

16:00:55Ready for Discharge

Modified Aldrete Discharge Score

Level Of Consciousness

2 - Awake and oriented

Physical Activity

1 - Some weakness in movement of extremities

Haemodynamic Stability

1 - Blood pressure within 15-30% of baseline MAP value

Respiratory Stability

2 - Able to breathe deeply

Oxygen Saturation Status

2 - Maintains SPO2 >95% on room air (standing orders excepted)

PostOp Pain Assessment

2 - None or Mild discomfort

Post Op Emetic Symptoms

2 - None or Mild Nausea with no active vomiting

Discharge Checks

☒ PT own medication

☒ Min Temp > 36 degrees

☒ Documentation Complete

☒ MADs Score >12 no score < 1

☒ Charge Out Completed

☒ Collected Patient's Belongings

☒ Body parts / Metal ware

☒ Photo

☒ Appointment Card

☒ Prescription / X-rays

Discharge Score 12

Cancel

Edit Discharge Details

Confirm Interim Score

Ready for Discharge

ECG (bpm)71Pulse (bpm)---

St Seg (mm)---

Temp (C)8Resp (bpm)---

SpO2 (%)98CVP (mmHg)---

NIBP (86)119 / 70 (mmHg)

ART (mmHg)---

ABP (mmHg)---

Episode ID:Case Start: 04/03/2016 09:46:41Case End: 04/03/2016 10:31:12

Eastern Hospital

PACU REPORT

Page 1 of 2

MRN: RN7760082H

Name: Dominic Dinsdale

DOB: 12-Mar-1958

Received By: Martin Brown

Nurse: Caroline Gates

Maria Williams

Loc: PACU2

Gender: Male

Height: 178cm

Weight: 84kg

ASA: 1

Anaes. Tec: GA - Reg:

ALERTS:

Peanut - Warning

PROCEDURE:

Excision of skin lesion right face and right nose under LA

SIGNIFICANT EVENTS:

09:57: Unintended management > Anxiety attack

Ondansetron (mg)

Paracetamol (mg)

Fentanyl (mcg)

Dopamine (ug/min)

Hartmanns (mL)

Urine (mL)

4

100

50

500

30

4 mg

1000 mg

100 mcg

1517\*612 mcg

33\*46 mL

30 mL

Start 04/03/2016 09:46:41

09:46: Nurse Caroline Gates

09:46: Receiving Nurse Martin Brown

09:47: Patient Entered PACU Bed 2

09:48: Face Mask + > Guedel

09:52: GCS 9

09:53: Dermatome tested Touch

09:53: Pupil & Limbs assessed

09:57: W1: Left leg > Knee > Arthroscopy

09:58: W1: Colour: Flushed, Pulse: Doppler, Sensitivity: Pins & Needles, Wound Drain: Drain 4 > Minivac > Non Patent, Dressing Type: Occlusive > Opsite, Dressing Note: Dry and intact, Plaster: Backslab > Tight, Traction: Limb traction > Ttt

09:58: Patient Assessed for Discharge Modified Aldrete Discharge Score 8

10:18: Face Mask

10:19: GCS 14

10:20: Pupil & Limbs assessed

10:23: Dermatome tested Ice

10:24: Patient Ready for Discharge Modified Aldrete Discharge Score 12

10:31: Patient Left PACU Bed 2

ECG (bpm)71Pulse (bpm)---

St Seg (mm)---

Temp (C)8Resp (bpm)---

SpO2 (%)98CVP (mmHg)---

NIBP (86)119 / 70 (mmHg)

ART (mmHg)---

ABP (mmHg)---

Assessment

Flushed

Uncon

Sedate

5L/min

Irreg

Poor

Pale

Consc

Restl

3L/min

Palp

Spont

Colour

Conc

Disp

O2 Flow

Pulse

Resp

Pain

Nausea

Sedation

Dermatome

Pink

Warm

Norm

Dec

Numb

Norm

Good

Strong

Temp

L1-L4 / L1-L4

Part / Alim. Comp

Norm

Pink

Cool

Warm

Norm

Dec

Pins

Norm

Good

Strong

Temp

L1-L4 / L1-L4

None / None

L/R Color

L/R Warmth

L/R Movement

L/R Sensitivity

L/R Perfusion

Pulses

Pulse Loc

L/R Dermatome

L/R Bromage

READY FOR DISCHARGE:

☒ PT own medication

☒ MADs Score >12 no score < 1

☐ Body parts / Metal ware

☐ Prescription / X-rays

☒ Min Temp > 36 degrees

☐ Charge Out Completed

☒ Photo

☐ Documentation Complete

☒ Collected Patient's Belongings

☐ Appointment Card

Discharge Nurse: Caroline Gates

Escorting Nurse:

Ward Nurse:

Sign:

Sign:

Sign:

Getz Clinical

Report Created: 07/03/2016 09:59:45

Revision: 3

Patient Report

A comprehensive patient report is generated at the end of every case. The report can be previewed at any time during a case to check that essential aspects have been documented. When a case is closed the report is automatically saved in the patient’s electronic medical record (EMR). The report can also be printed and included in the patient’s notes.



# Getz Clinical

Getz Clinical is a world leader in perioperative information management systems.

Our solutions, implemented through our GCC suite of software modules, have been deployed in over 50 hospitals and medical centres across Asia, Europe, Africa, Australia and the Pacific.

Major customers include Singapore General Hospital, the University Hospitals of Leicester Trust in the United Kingdom and the Chris Hani Baragwanath Hospital in South Africa. In Australia our solutions are used by Lyell McEwin Hospital and Queensland Health.

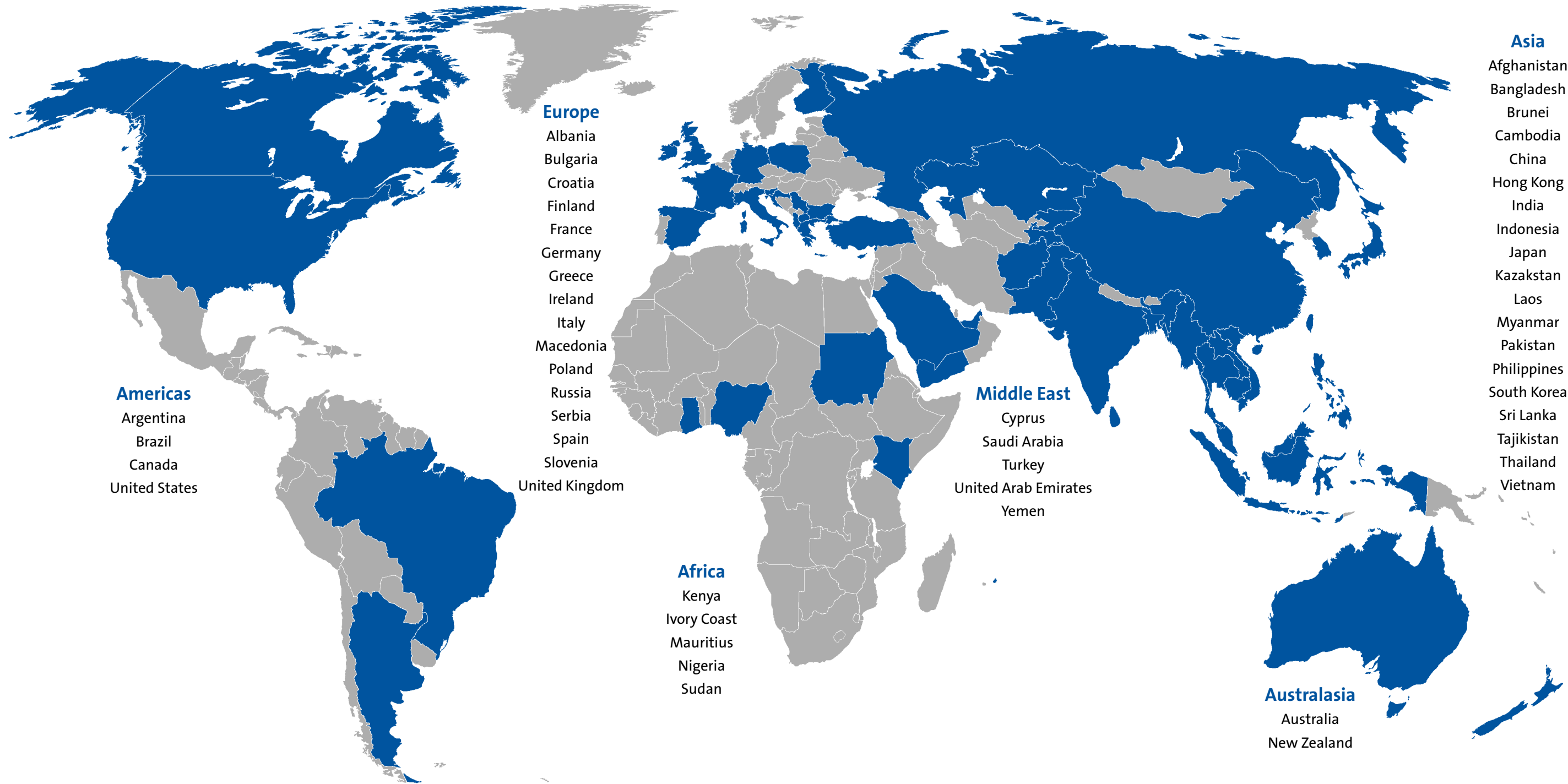
The Queensland Health project, covering 44 hospitals, remains the largest hospital network of its kind in the world.

Getz Clinical has sales and support teams operating out of seven offices in Australia, Singapore, the United Kingdom and the Philippines.

Our team of highly skilled personnel with extensive experience in providing eHealth solutions includes developers, integration specialists, project managers, clinical experts, business analysts, service delivery managers, sales managers and account managers.

Our head office is in Singapore and our development centre is located in Adelaide in South Australia.

Getz Clinical is a subsidiary of the Getz Group of companies. The Getz Group, founded in 1852, is a strategic investment business. Our products and services are delivered by 12,000 employees in 50 countries, with an annual turnover exceeding US\$1.27 billion.



A member of the Getz Group  
The Getz Group is a diversified business focusing on healthcare, chemicals, distribution, retailing and hotels.

Adelaide | Auckland | Brisbane | London | Manila | Melbourne | Singapore | Sydney

information@getzclinical.com  
www.getzclinical.com

