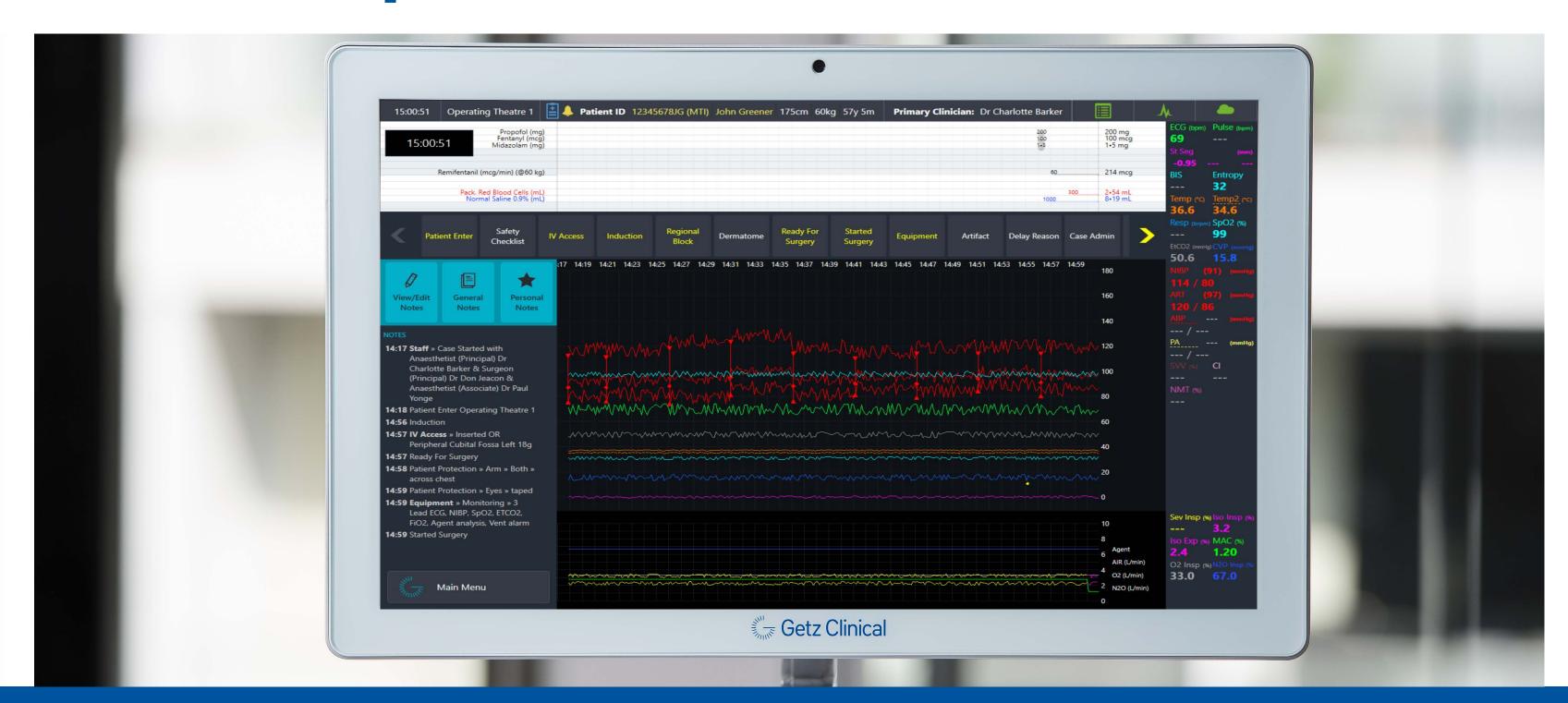
GCC: Anaesthesia





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IntraOp and Induction modules

Elegant eHealth solutions for every hospital



'We are able to use the consistent and comprehensive records to identify areas to improve outcomes and enhance patient safety.'

Associate Professor Ong Biauw Chi, Director of Patient Safety and Clinical Governance and Senior Consultant, Department of Anaesthesiology, Singapore General Hospital

GCC

IntraOp and *Induction* are modules 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 medicalgrade 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.



Elegant eHealth solutions for every hospital

Module overview

The GCC *Induction* and *IntraOp* modules enable anaesthetists to streamline the process of recording and annotating data derived from patient monitors and imported from hospital information systems.

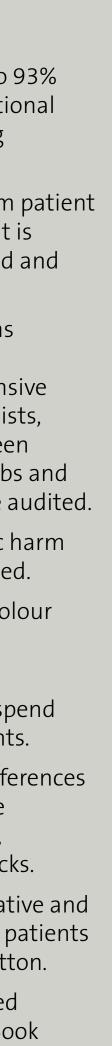
Used in induction bays (*Induction*) and operating theatres (*IntraOp*), these compatible modules enable hospitals to generate accurate anaesthetic records. Data entry is via a touch screen interface on the Getz Touch GT-30-19 multimedia wide-screen medical-grade computer. Patient vitals can be annotated and every aspect of a case can be fully documented including induction, regional blocks, medications and fluids, critical events and postoperative orders. Referrals to the acute pain service team can be made within the modules.

Staff in attendance and staff changes can be recorded easily. Inbuilt validation ensures that the patient workflow is completed correctly and that reports are previewed before patients move to the next step of their perioperative experience. Anaesthesia reports are automatically generated and saved in the *Chronology* module.

Benefits

- Data recording is up to 93% faster than with traditional paper-based reporting methods.
- Physiological data from patient monitoring equipment is automatically captured and stored.
- Data entry by clinicians is expedited by prepopulated, comprehensive and configurable picklists, an intuitive touch screen interface, and large tabs and buttons, which can be audited.
- Incidents of iatrogenic harm are significantly reduced.
- Comprehensive, full-colour reports are generated automatically.
- Clinicians are able to spend more time with patients.
- Clinician specified preferences can be set for multiple anaesthetic scenarios, including regional blocks.
- Access to the preoperative and anaesthetic history of patients is at the touch of a button.
- Patient data is collected for Anaesthestic Log Book requirements.

GCC modules are used in 50+ hospitals and medical centres in four continents





Vitals

The Vital screen is the main screen in the *IntraOp* 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 IV access, induction, regional blocks, medications, infusions, postoperative orders and staff changes.

The quick touch buttons on the Vitals screen give the clinician fast access to the screens most commonly used.



Elegant eHealth solutions for every hospital

'Getz Clinical has developed a tool for anaesthetists that is world class. IntraOp is a very simple tool to learn and use. I was up and running in 5 minutes.'

Dr Tiffany Glass, FANZCA Specialist Anaesthetist, South Australia

Bookings List

The Bookings List screen lists the appointments that have been booked for an operating theatre for a given day.

from other hospital systems. Clinicians can switch views to see other locations. Booking data refreshes automatically every 15 seconds.

Bookings can be entered manually or received through HL7 messaging

16:03:40	Operating Theatre 1					M 4
< Sh	^{ut down} Book	kings list for Oper	rating Theatr	re 1 (2019/08/06 - 2019/08/20)		Q Search Patier
+/	/- 1 Day Toda	ay +/- 1 Week	View Booking	For Default Hospital - Operating Theatre 1	Show Completed Ca	ases
	▼ Status	Patient Name	Patient ID (MRN)	Procedure		Appointment Date and Time
\sim	Booked for OT1	John Greener	12345678JG (MTI)	Laparoscopic Cholecystect	omy	Today 16:00:00
\sim	Booked for OT1 Jin Kim		32451ANB (MTI)	Appendectomy		Tomorrow 23:59:0
\sim	Booked for OT1 Jane Bell		20190809 (MTI)	Lap Cholecystectomy		2019/08/15 21:59:0
\sim	Booked for OT1	Booked for OT1 Tina Holland		Breast biopsy		2019/08/15 23:59:0
\sim	Booked for OT1	Troy Smith	23324ABN (MTI)	Cataract surgery		2019/08/16 07:30:0
\sim	Booked for OT1	Rowena Raven	28888ABN (MTI)	Cholecystectomy		2019/08/16 08:30:0
\sim	Booked for OT1	Arthur Madden	881218ABN (MTI)	Hemorrhoidectomy		2019/08/16 09:00:0
\sim	Booked for OT1	Cecil Stratmore	32445ABN (MTI)	Hysteroscopy		2019/08/17 07:00:0
\sim	Booked for OT1	Nicholas Famel	54622ABN (MTI)	Carotid endarterectomy	у	2019/08/17 07:30:0
\sim	Booked for OT1	Catherine Norris	11344ABN (MTI)	Coronary artery bypass	5	2019/08/17 08:00:0

GCC modules used in 1200 surgical operations every day







Bookings List hidden drawer

Tapping a booking opens a 'hidden drawer' which displays the patient's height and weight and allows the clinician to review any PreOp reports, or IntraOp (Anaesthetic) and PACU reports from a previous admission.

If the case has already been completed, the hidden drawer allows the clinician to edit the *IntraOp* report within a configurable timeframe.

SIL	ut down B	ookings list for	All meatres	(15-Mar-2016 - 29-Mar-2016)	Q Search Pa		
+/	- 1 Day	Today +/- 1	Week	View Booking For			
	Status	Patient Name	Patient ID (MRN)	Planned Procedure(s)	Appointment Date and Time		
,	Booked for OT1	Juan Kurej	RN48322069H	Excision lesion right lower leg	16-Mar-2016 18:3		
	Booked for OT1	Darren Arens	Darren Arens RN37193553H Laparotomy - bowel obstruction				
	Booked for OT2	(Hida) Morcom	RN63604233H	Excision lesion right lower leg	17-Mar-2016 08:1		
e.	Booked for OT2	Suhasini Samuel	RN80178094H	Left Cataract 21.5 STB	17-Mar-2016 09:1		
P.	Booked for OT2	Sian Boston	RN85240147H	Repair umbilical hernia with mesh	17-Mar-2016 09:4		
r	In OT2 Today 11:09:51	Gerhard Stainthorpe	RN81377224H	Excision plantar wart right foot lateral aspect 5th metatarsal	16-Mar-2016 11:0		
6	OT2 Complete Today 11:04:34	Tamara Bate	RN45672380H	Amputation bilateral 2nd toes at pip	16-Mar-2016 13:0		
ate (I Anaesthetist: Dr V of Birth Age ay-1932 83y 10n	Gender Height	ode ID: Weight BMI 61kg 20.86	Edit Case Review Reports	✓ Select		
P.	Locked	Latt Mcgreevy	RN88722197H	Excision ossicle right medial ankle	15-Mar-2016 08:4		
/	Locked	Elanor Breed	RN49262897H	Myringotomy	16-Mar-2016 09:1		

Elegant eHealth solutions for every hospital

'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

Patient Search

The Patient Search screen enables the clinician to search for a patient's record by entering their patient ID or a portion of their name. A list of the patients who match the search

criteria is then displayed, which enables the clinician to determine if a record and booking has already been created for the patient.

In the rare case where patient details do not automatically appear, they can be entered manually. If required, patient records can be merged post completion of a case.

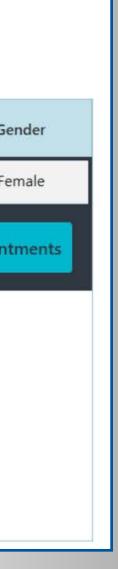
Search (using patient ID or	C Search	
Search i	results (1 matches	or "Sonia")	
	Patient ID (MRN)	Patient Name	Date of bi
~	RN36089200H	Sonia Whitley	06-Nov-20
Age 6y	Height	Weight BMI	

Up to 93% faster data entry than traditional paper-based reporting methods











Confirm Patient Details

The Confirm Patient Details screen enables the clinician to verify the right patient is present in the operating theatre before starting a case.

Clinicians can also view critical alerts related to the patient before the anaesthetic procedures begins.

15:13:17 Operating Theatre 1				M 🗎 🌥		
< Back Confirm Patient Details for John Gre	ener					
Patient ID (MRN) Gender Weight Height Date of Birth Age 12345678JG (MTI) Male 60kg 175cm 1962/02/18 57y 5m			PreOp ObservationTempBlood Pressure36.5120/80°CmmHg	Pulse Sat BSL 80 99 100 bpm % mmol/L		
Patient Information	PreOp Assessment		Last Updated C)n: <i>Aug/13/2019 11:28</i>		
Planned Procedure	Mallampati	Assessed By				
Laparoscopic Cholecystectomy		Dr Charlotte Barker (USI0001D)	✓ Same as Prim	ary Anaesthetist		
		Heart	Neck Circ. (cm)	Thyromental (cm)		
Comorbidities (1)		Sinus ryhthm	35 cm	35 cm		
Critical, Challfish, Allarma		Lungs	Dentition (Top)			
Type II Diabetes Critical - Shellfish - Allergy - Severe		Clear	No Issues			
		Neck	Dentition (Bottom)			
		Adequate extension	No Issues			
		Notes		ASA		
	Difficult Intubation Expected			2		

✓ Confirm Patient

Elegant eHealth solutions for every hospital

'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

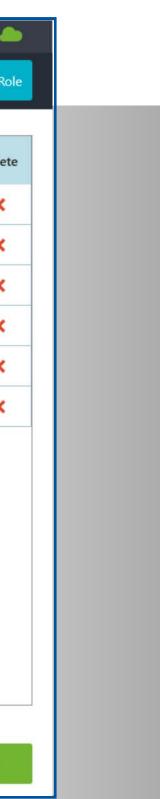
Set Up Case

The Set Up Case screen enables the clinician to record the details of all the clinicians involved in the procedure, specify the anaesthetic details and nominate the time they want the *IntraOp* module to begin collecting patient vitals. The case is started from this screen.

Planned Procedure	Staffing			
Laparoscopic Cholecystectomy	Clinician Role	Clinician Name	Staff Type	Dele
	Anaesthetist (Principal)*	Dr Charlotte Barker (USI0001D)	Anaesthetic Consultant	×
Diagnosis (Provisional)	Surgeon (Principal)*	Dr Don Jeacon (USI8888B)	Surgical Consultant	×
Acute cholecystitis	Anaesthetist (Associate)			×
	Surgeon (Associate)			×
naesthetic details naesthetic Technique	Anaesthetic Support			×
GA - ETT	Perfusionist			×
2				
	View/Edit Preferences	Start data collection 11:33:00	✓ Confirm All and	









Induction

The Induction screen enables the clinician to document an induction quickly and accurately. Templates of anaesthetic preferences specific to individual anaesthetists can be created to expedite data entry. Cliniclans can also record complications.

11:50:18 Add Induct	ion	Dr Charlotte Barker	Adult	Add N	ledication	Add	d Infusion	71 - St Seg -0.98
nduction Preference Mid/Fent/Prop/Roc (Enterprise)	Rapid		Medication Name	Route	Dose	Dose/kg	Delete	BIS E
ag-mask Ventilation	Sequence		Propofol (mg)	IV	200 mg		×	Temp (*c) 1 36.9 Resp (brpm) 5
Easy	Induction		Fentanyl (mcg)	IV	100 mcg		×	EtCO2 (mmHg)
aryngeal View	Cricoid Pressure		Midazolam (mg)	IV	1.5 mg		×	48.0 NIBP (90
Grade 1 Grade 2 Grade 3 Grade 4	BURP		Rocuronium (mg)	IV	50 mg	0.83 mg	×	124 / 73 ART (96
irway Method								133 / 81 <u>ABP</u>
ETT » PVC » Oral » 8.5 ircuit Patient Position	Pre- oxygenation							PA
Circle Supine	IV Induction	Inf	usion Name	Rate	rget Blood Conc.	Conc. %	Delete	SVV (H)
dd Devices Comp Laryngoscope » McCoy	lications/Events							NMT (%)
		Administered By		Checked By				Iso Insp real 3.1 2 MAC (%) C 1.20 3

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Regional Block

The Regional Block screen enables the clinician to document the regional block applied from a predefined medications list and a template of personalised defaults for specific block types. Preferences allow clinicians to select from previous configured regional block templates.

Multiple blocks can also be documented as required.

15:32:40 Operating Theatre 1 📑 🐥 Patient ID 12345678JG (MTI) John G	Greener 175cm 60kg 57y 5m	Primary Clinician:	Dr Charlotte Barker	r 🔲 🗍 .				
15:32:40 Add Regional Block	Select Clinician:	Dr Charlotte Barker		Add Medication				
Regional Preference Category Adult	Medication Name	Route	Dose Conc. %	Volume Delete				
Block Site/Type	Bupivacaine (mg)	Block	100 mg	×				
Back » Lumbosacral » Epidural » L3-L4	Fentanyl (mcg)	Block	100 mcg	×				
Patient Position Aseptic Technique Attempts								
Left Lateral Gown, glove, sterile prep, drape, mask 1	Administered By Checked By							
Needle Type Needle Gauge Distance to Space	Dr Charlotte Barker (USI0001D)							
Quincke 20 g 2 cm	Comments	Comp	olications					
Nerve Stim Marking at Skin Resistance 2 mA 2 cm LOR Air								
			× Cancel	🗸 Confirm				

Getz Clinical is the world's **1St** provider of cloud based anaesthesia information management systems

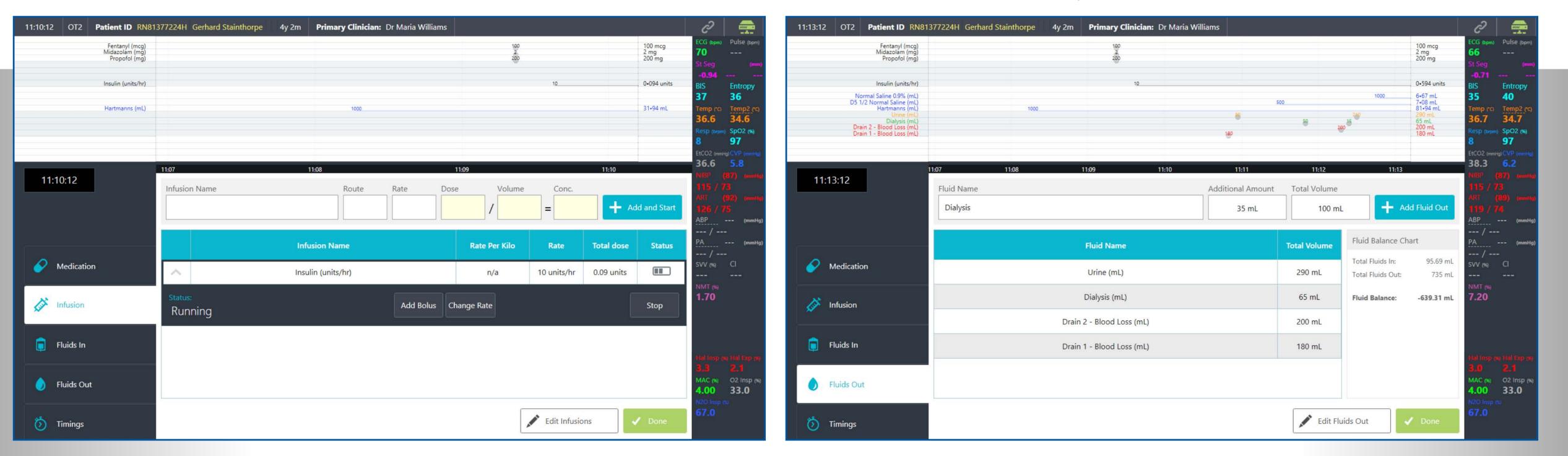




Infusion

Infusions can be documented quickly by using picklists to select medications and numerical keypads to enter rates and volumes. Rate

adjustments and boluses can be easily documented by tapping buttons in the 'hidden drawer'.



Elegant eHealth solutions for every hospital

'This state-of-the-art record has advanced the quality and credibility of records as well as being a useful teaching and audit tool. It is the anaesthetic equivalent of an aeroplane's "black box" flight recorder.'

Princess Alexandra Hospital, *Year in Review 2009-2010*

Fluids

An accurate fluid balance can be maintained by the easy charting of fluids in and out. Multiple fluids can be added with a set volume rate or time period.

A hidden drawer displays functionality for bolus doses and allows the clinician to edit the volume delivered or mark the bag as empty.

The fluids out function can track loss from a configurable range of outputs and calculates fluid balance against the amount of fluids in.

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





Surgical Safety Checklist

With this feature users can document the surgical safety checklist through the Quick Touch button on the vitals screen. The default checklist is based on the World Health Organization's recommended surgical safety checklist. The checklist can be modified according to the hospital needs or requirement.

11:43:15 C	Operating Theatre 1 📑 🐥 Pat	tient ID 12345678JG (MTI) John Greener 175cm 60kg 57y 5m	Primary Clinician: Dr Charlotte Barker	📃 🗼 📥
11:43:1	5 Surgical Safety	v Checklist		ECG (bpm) Pulse (bpm) 66
	ourgical survey			St Seg (mm 0.66
	Before Induction	n of Anaesthesia	V N-	BIS Entropy
r			Yes No	30 Temp (rc) <u>Temp2 (rc)</u>
Sign In	Patient	Patient has confirmed: Identity, Site, Procedure, Consent		37.3 35.3 Resp (brpm) SpO2 (%)
		Fatient has commed. Identity, Site, Procedure, Consent		96 EtCO2 (mmHg) CVP (mmH
Time C	Dut	Surgery site shaved in ward?	✓ ✓	47.0 16.1
Size O				NIBP (90) (mm)) 114 / 79
Sign O		Known Allergies		ART (96) (mm)
		Adverse Reactions exists for this patient		ABP (mmil
		Critical - Shellfish - Allergy - Severe		/ PA (mmH
				/
	Surgery	Incision site expected	✓ ✓	SVV 🛤 CI
				NMT (%)
		Site Marked	✓	
		Risk of > 500ml Blood loss (7ml/kg in children)		
	Anaesthesia	Anaesthesia Safety Check Completed	✓ ✓	
				Iso Insp (w) Iso Exp (w
		Pulse Oximeter Required?		3.4 2.1 MAC (%) O2 Insp (
				 1.20 33.0 N20 Insp (ta)
				67.0
			🗙 Cancel	✔ Confirm

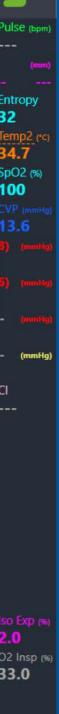
Anaesthetic Reversal

Anaesthetic Reversal allows clinicians to enter agents used to reverse the effect of anaesthesia. Once this button is tapped, it redirects the user to the Associated Drug screen with Preference set to Reversal, displaying the configured reversal agents. A user can then click on "Confirm and Add" to each reversal item.

11:55:49 Operating Theatre 1 Propofol (mg) Fentanyl (mcg) Midazolam (mg) Rocuronium (mg)	A Patie	ent ID	1234567	78JG (MTI)	John (Greener	175cm	60kg 5	57y 5m	Prima	ry Cli	200 100 1-5 50	r Charlotte	Barker		200 mg 100 mcg 1•5 mg 50 mg	↓ ECG (bp 66 St Seg 0.93 BIS Temp (tr 36.7 Resp (br EtCO2 (m)	 Er 3 (°) Te 3 (°) Te 3 (°) Te 1 (°) Te 1 (°) (°) Te 1 (°) Te 3 (°) Te 1 (°) Te 1 (°) Te 1 (°) Te 1 (°) Te 1 (°) Te 1 ((() (
11:55:49	141 114 Associa			1;44 11:4	Clin	nician	1:47 1 otte Bark		1:49	11:50 11 Prefere Reve			11:53 11		1:55 Category Adult		50.8 NIBP 116 / ART 123 /	(88) 75 (96) 83
		Medication Name							Route Dose/Kg Dose Adminis			nister	<u>ABP</u> / - PA	 				
		Glycopyrrolate (mg)						IV		0.01 mg	0.4 mg	g Confirm and Add			/ SVV (%)	 Cl		
				1	Neostig	mine (m	ng)			IV		0.04 mg	2.5 mg	C	Confirm	and Add	NMT (%	
Medications																		
infusions																		
📋 Fluids In																	lso Insp	
🬖 Fluids Out																	3.4 MAC (% 1.20 N20 Inst	ຍ ຄຸດ 3
o Timed Items															•	/ Done	67.0	

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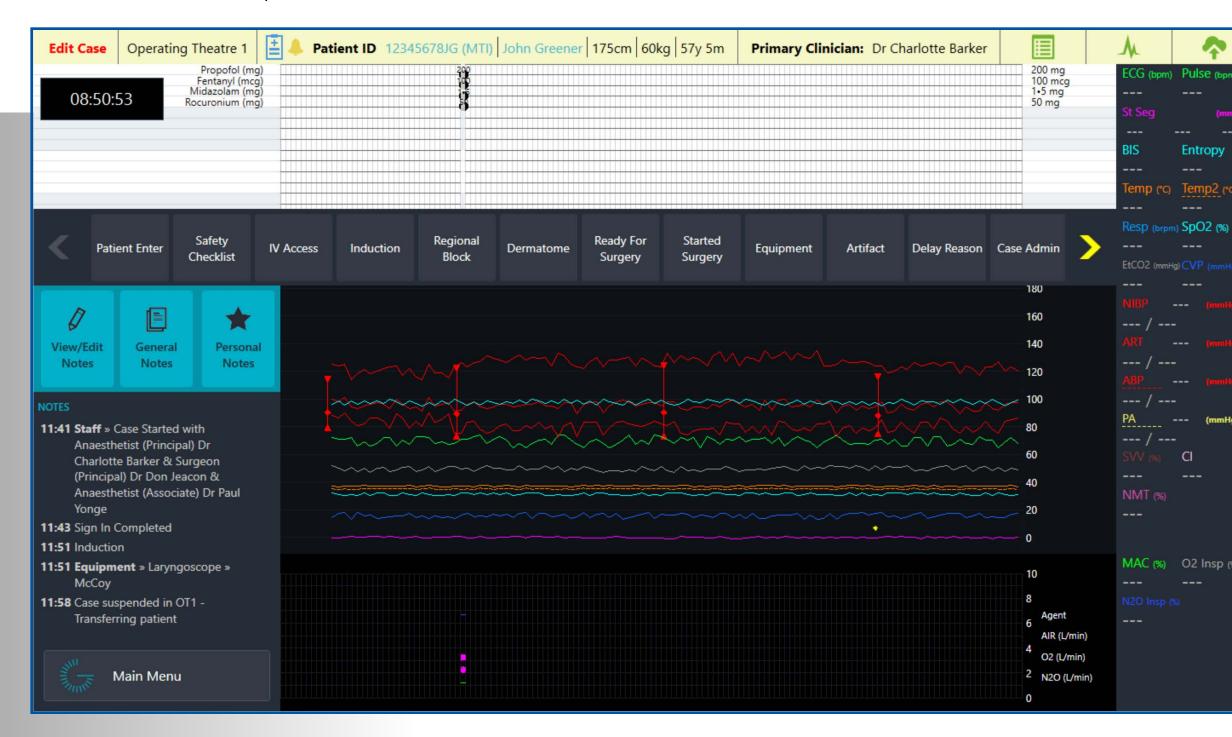




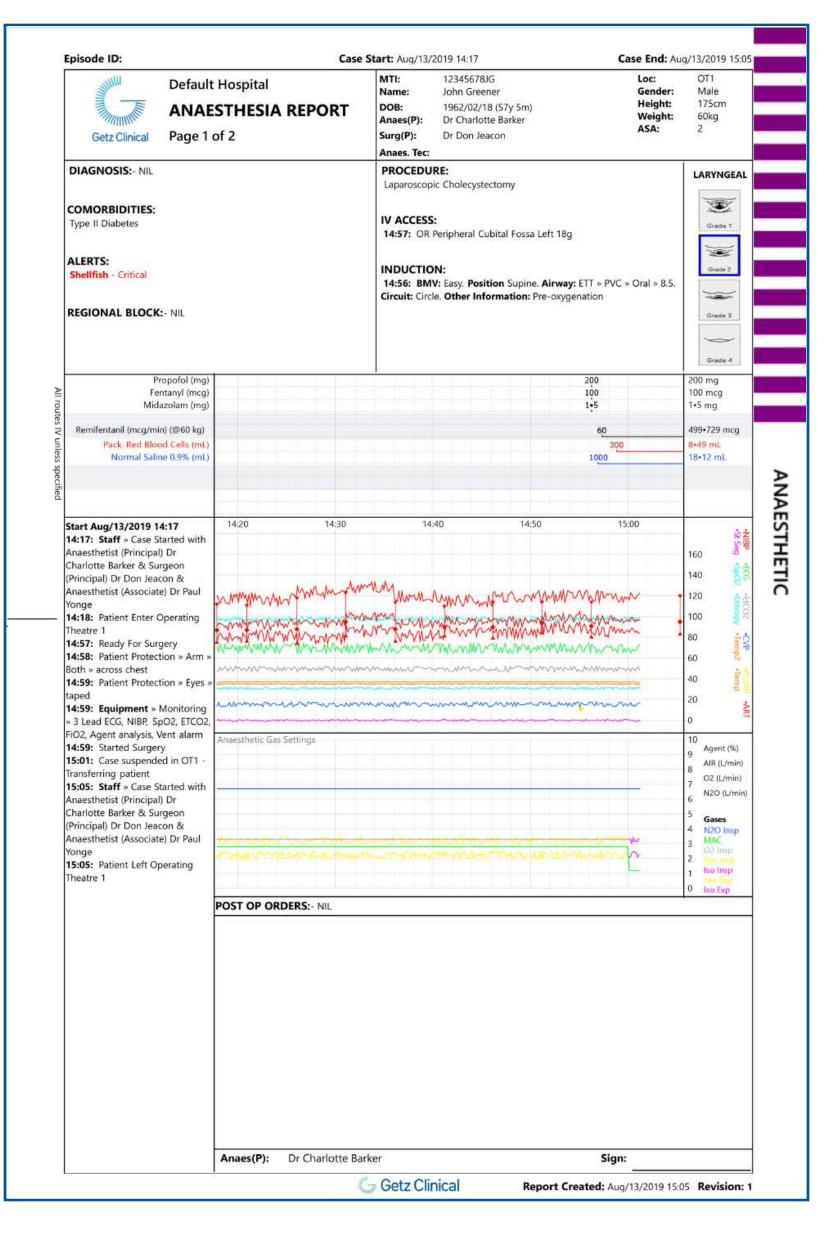
Edit Case

The Edit Case function allows the clinician to edit any details of the Anaesthesia (IntraOp) report after the case has been completed.

A yellow banner across the top of the screen indicates that the case has been opened in edit mode, and is not a live case.



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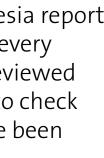
Anaesthesia Report

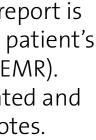
A comprehensive anaesthesia report is generated at the end of every case. The report can be previewed at any time during a case to check that essential aspects have been documented.

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 subscription costs typical less than 1%of typical theatre operating costs











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.

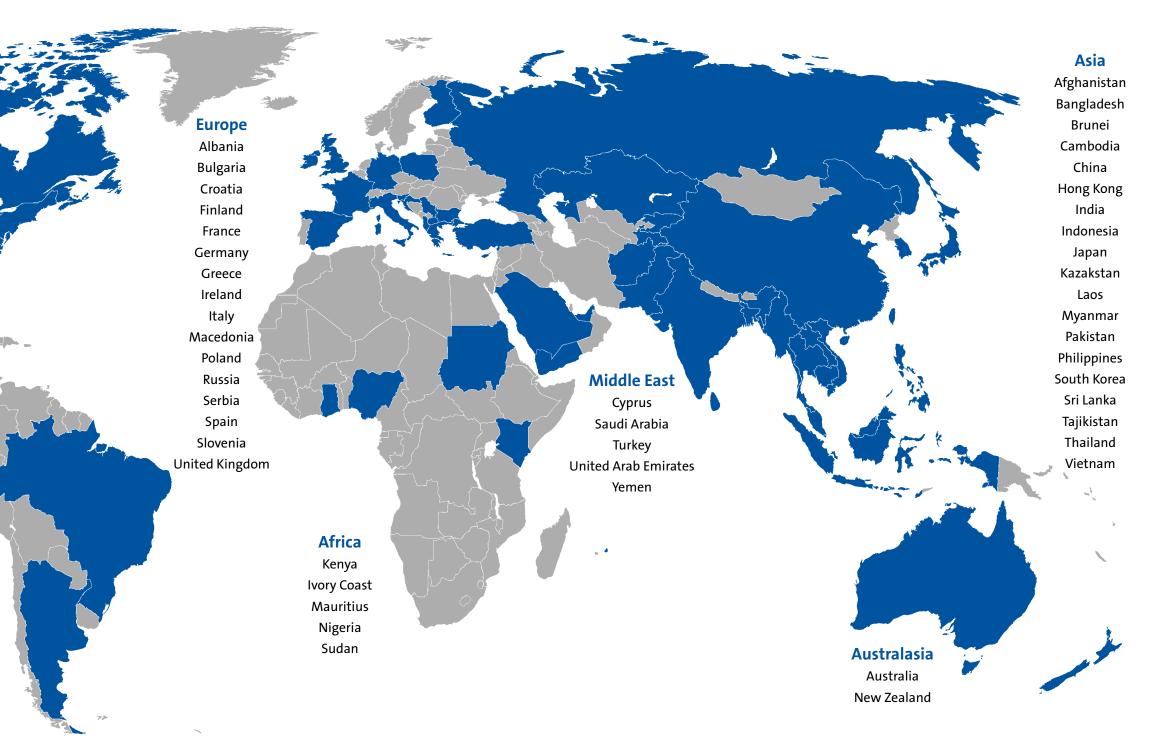
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