Regional anaesthesia at the frontier. An evidence free talk!

- Introducing regional anaesthesia to theatres across WACHS
- Tips to making your blocks quick and efficient



2008 What I did...

- US sciatic nerve
- US course 2 day "Heartweb"
- 0.8 FTE Public
- Purchased an US_{Mturbo}
- Up skilling visit
- 40 blocks a month
- Purchased 34 US's



Lone Ranger: Regionals at the frontier

West Australian
Country Health
Service
experience

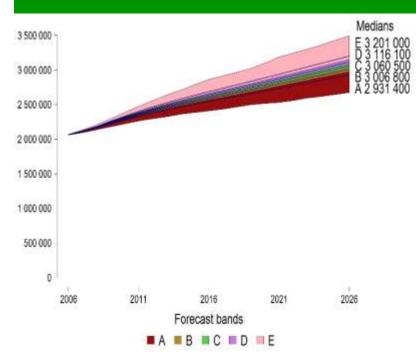
20 operative sites outside Perth theatres/anaesth etics

- Albany
- Broome
- Bunbury (7800 theatre cases per year)
- Busselton
- Derby
- Geraldton
- Kalgoorlie
- Karratha
- Kununurra
- Margaret River
- Northam
- Port Hedland

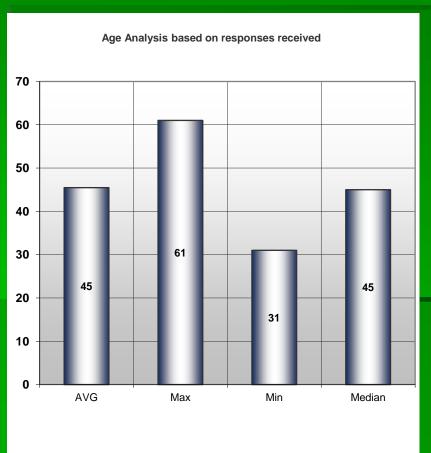
GUSENSLAND KIMBERLEY INDIAN OCEAN FORS RESUME PILBARA **Distance Guide** Location MIDWEST from Perth 409km Albany 2230km Broome Bunbury 228km Camaryon 904km 427km Geraldton Kalgoorlie 595km Kununuma 3206km Northam 90km WHEATBEL Port Hedland 1638km GOLDFIELDS PERTH SOUTHERN OCEAN GREAT SOUTHERN ALYGE

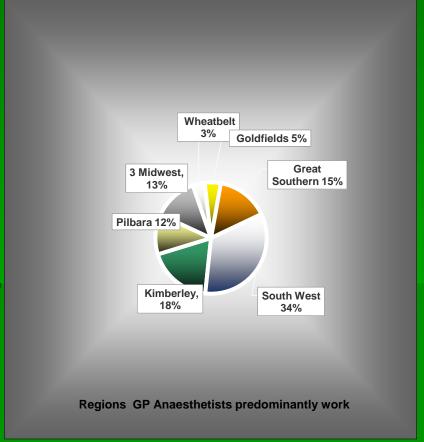
WA Country Health Service

- •2.55 million km2
- •10.1% Aboriginal
- •14 consultant anaesthestist
- •110 GP Anaesthetist GPAs
- FIFO consultants and GPA



Country GP Anaesthetists





Steps to providing regionals to country WA: starting off...

- Rural areas are often under equipped and support staff are often under skilled
- Visit area with US & identify people with interest in up skilling
- Coerce (insist) they to go on a weekend course and visit "block specialist"
- Or support a local course in the region
 - ARACIS, HeartWeb

Selling it to management: Getting the right equipment...

RISK REDUCTION MODEL

- Aggressively used serious clinical incidents to demonstrate need of US
- Anaesthetic for abscess on hand
- Can't intubate/ can't ventilated scenario
- Theatre team upset/ Dr pulled out of anaesthesia
- Undiagnosed breech

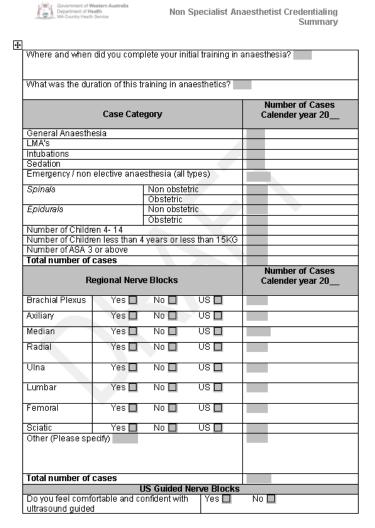


Funding sources 2010-2011

- Purchased 34 US's
 - 4 x S nerve
 - 18 x M turbo
- Funding
 - WACHS
 - Telethon charity
 - Health area funding



Non Specialist Anaesthetist Credentialing Summary



nerve blocks?		Summary
What training have you had	in ultrasound guided n	erve blocks?
	-	
What courses have you atto	anded?	
		Consultant Anaesthetist? (If YES
pleased specify date/ durat	ion and Consultant's na	me)
	CME / Up skilling act	tivities
	Dates	Site & details
Supervised Clinical Attachr	ments	
Interactive Workshops eg		
Conferences		
Other (eg research, online	leaming)	
Other Procedure for which	credentialing is sought ((please specify)
1		(Doctors Name
confirm the above details a Signature :	Date:	
REVIEWED BY:		
SIGNATURE :		Date:
	year, up skilling with Co	nsultant Anaesthetist will be
Comments/ Recommendat	ion:	
Duration of credentialing:		
1 year □	2 Year 🔲	3 Year 🔲

Pat's Top Tips: Summary 1

- Know your anatomy
 - Sensory nerves to skin bones muscle
- Make time/ PPPPP
- Train nurses/surgeon
- Ergonomics
- Get the right Kit
 - US's & Echogenic Needles



Top tips summary 2

- Go on a course
- Anaesthetic visit to experienced consultant
 - Get the mobile number of a "local expert" e.g. SCGH
- Use the available resources
 - Neuraxiom, NYSORA
- Don't forget the PNS
- Surgeon preferences vs. block fixation



Individual tips: If you fail to plan you plan to fail...

Get your kit ready before the patient enters theatre





A nice bit of kit...



TIPS: Ergonomics



Keep it simple Choose your block /Choose your patient.

- Brachial Plexus
 - Interscalene
 - Supraclavicular
- Axillary and musculocutaneous
- Forearm blocks
 - median radial ulnar
- Femoral
- Sciatic
- ??TAP Blocks

TIPs continued

- Follow up complications
- Pain specialist
- Neurologist
- Early MRI

PLEXUS Audit

Anaesthetist Details (Consultant performing or supervising procedure)



Patient Details



Operation Details

None

Chronic Analgesic Use No

Neurological Disease

Operative Region Please Select One... Specific Procedure/Operation

Procedure Date Tourniquet NoYes Hospital SCGH O HPH O MH O SJOGS O SJOGM

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Caring for your scanner

- A sturdy trolley
- Ultrasound probes stored securely.
- Nurse/ technician education
- Arrange when you purchase



Situation now



- US's, needles in place at most regional sites
- Effective and safe regional anaesthesia and vascular access
- If it sounds too good to be true it probably is...

KALGOORLIE	KG15-972THE-L60	0 THEATRE	SONOSITE	SCANNER ULTRASONIC	MICROMAXX
KALGOORLIE	KG15-976MAT-K94	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	M-TURBO
MEEKATHARRA	MK15-976WDB05	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
ALBANY	AL15-976WDJ33	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
ESPERANCE	ES15-976MAT-D43	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	S-WOMENS HEALTH
BROOME	BR15-976CAS-E49	0 CASUALTY	SONOSITE	SCANNER ULTRASONIC	M-TURBO
DERBY	DE15-976MAT-D54	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	SONOSITE 180
DERBY	DE15-976WDF45	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
FITZROY CROSSING	FZ15-976COMMA56	0 COMMUNITY HEALTH	SONOSITE	SCANNER ULTRASONIC	SONOSITE 180
HALLS CREEK	HA15-976COM-A46	0 COMMUNITY HEALTH	SONOSITE	SCANNER ULTRASONIC	SONOSITE 180
KUNUNURRA	KN15-976CAS-C68	0 CASUALTY	SONOSITE	SCANNER ULTRASONIC	SONOSITE 180
KUNUNURRA	KN15-976WDD49	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
CARNARVON	CA15-976MAT-D26	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	M-TURBO
GERALDTON	GE15-976MAT-H12	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	180 PLUS
GERALDTON	GE15-976MAT-J35	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	M-TURBO
WILUNA	WL15-976WDA30	0 WARD	SONOSITE	SCANNER ULTRASONIC	180
NICKOL BAY	NK15-976CAS-C86	0 CASUALTY	SONOSITE	SCANNER ULTRASONIC	180 PLUS
NICKOL BAY	NK15-976MAT-D79	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	S-WOMENS HEALTH
PORT HEDLAND	PH15-976MAT-H01	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	M-TURBO
PORT HEDLAND	PH15-976OUT-G22	0 OUTPATIENTS	SONOSITE	SCANNER ULTRASONIC	MICROMAXX
BRIDGETOWN	BG15-976WDB64	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
BUNBURY	BY15-976A&E-K28	0 A&E	SONOSITE	SCANNER ULTRASONIC	TITAN PU6501-02
BUNBURY	BY15-976MAT-N83	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	M-TURBO
BUNBURY	BY15-976THE-K43	0 THEATRE	SONOSITE	SCANNER ULTRASONIC	TITAN
BUNBURY	BY15-976WDP22	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
BUNBURY	BY15-976WDP24	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
BUSSELTON	BS15-976WDE44	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
COLLIE	CO15-976WDC96	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
MARGARET RIVER	MR15-976WDB90	0 WARD	SONOSITE	SCANNER ULTRASONIC	S SERIES
WARREN	WR15-976MAT-C29	0 MATERNITY	SONOSITE	SCANNER ULTRASONIC	S-WOMENS HEALTH
BODDINGTON	BO15-976WDA71	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO
NARROGIN	NA15-976CAS-D99	0 CASUALTY	SONOSITE	SCANNER ULTRASONIC	M-TURBO
NORTHAM	NT15-976WDD97	0 WARD	SONOSITE	SCANNER ULTRASONIC	M-TURBO