

CURRICULUM VITAE

Associate Professor ANDREW HOLDEN

MBChB, FRANZCR

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Devonport, Auckland
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D.O.B. 22 August 1960

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Hospital: andrewh@adhb.govt.nz
University: a.holden@auckland.ac.nz

Marital Status: Married

Qualifications: MBChB Otago University 1984
FRANZCR 1993
Member of IRSA (Interventional Radiological Society of
Australasia 1996)
Director of Ultrasound Imaging, Auckland Hospital (1996 – 2002)
Director of Body Imaging and Interventional Services, Auckland City
Hospital (2002 -)
Associate Professor of Radiology, Auckland University School of
Medicine (2005 -)
Examiner: FRANZCR Part 2 Examinations 2003-

Employment History:

- Radiology Registrar, Auckland Area Health Board (1989 – 1993)
- Staff Radiologist, Middlemore Hospital (1993 - 1994)
- Senior Registrar/Fellow Interventional Radiology and MRI. Royal Perth Hospital (July 1994 – July 1995)
- Staff Radiologist (part-time), Royal Perth Hospital (July 1995 – Dec 1995)
- Staff Radiologist, Auckland Hospital (Jan 1996-)
Special Interests in Interventional Radiology, Body Imaging CT, MRI, US) and Vascular Ultrasound
- Private Radiologist in Auckland,
The Radiology Group 1966 – 2001
Ascot Radiology 2000 – 2005
- Associate Professor of Radiology, Auckland University School of Medicine (2005-)

Research and Publications

1. Shaw J, Holden A “Thyroid Lymphoma”
Br J Surg (1989), 895 – 97
2. Holden A, List A, Extratesticular Lesions: A radiological and pathological correlation”
Aus Rad (1994) 38, 99-105
Article highlighted in 1995 Mosby Yearbook of Ultrasound
3. Holden A “Non-functional malignant extra-adrenal retroperitoneal paraganglioma”
Aus Rad (1995) 39, 392 -95
4. Holden A, “ The role of colour and duplex Doppler ultrasound in the assessment of thyroid nodules”
Aus Rad (1995) 39, 343 – 49
5. Holden A, Adler B, Song S. “ Bilateral vertebral artery tortuosity with concomitant vertebral erosion; CT and MRA findings
Aus Rad (1996) 40, 65 – 67
6. Holden A, Mendelson R, Edmonds S “ Preoperative staging of gastro-oesophageal junction carcinoma; comparison of endoscopic ultrasound and CT”
Aus Rad (1996) 40 (3) 206 – 212
7. Wambeek N, Cameron D, Holden A “ Intramural aortic dissection”
Aus Rad (1996) 40 (4) 442 - 446
8. Holden A, Anderson J, Ives F et al “Breast MRI – Early experience with a 3-D fat suppressed GE sequence in the evaluation of breast lesions”
Aus Rad (1996) 40 (4) 391 – 397
9. Gordon MK, Lawrence-Brown MMD, Holden et al “ A self expanding endoluminal graft for treatment of aneurysms: results through the development phase”
The Australian and New Zealand Journal of Surgery (1996) 66 (0) 621 – 625
10. MacSweeney ST, Holden A, Hartley D, Lawrence-Brown M “ Endovascular repair of Subclavian artery aneurysm”
J Vasc Surg (1996) 24 (2) 304-5
11. Lawrence-Brown MM, Hartley D, MacSweeney ST, Kelsey P, Ives FJ, Holden A, Gordon M, Goodman MA, Sieunarine K. “The Perth endoluminal bifurcated graft system – development and early experience”
J Cardiovascular Surgery (1996) 4 (6) : 706-12
12. Holden A, Khangure M, Robins P “Thoracic chordoma mimicking a neurogenic tumour”
Aus Rad (1998) 42: 385-387
13. Holden A, Ferrar D. “Spontaneous Arterial Thrombosis in association with Pancreatic Carcinoma : Diagnosis and Interventional Management”
Aus Rad (1998) 42: 236 – 237

14. Moore HM, List A, Holden A, Osborne TM. "Therapeutic embolization for acute haemorrhage in the abdomen and pelvis"
Aus Rad (2000) 44: 161-68
15. Holden A. "The value of narrow CT window settings in the recognition of subtle acute aortic intramural haematoma"
Aus Rad (2000) 44: 128-29
16. Holden A, Hope JKA, Osborne M, Moriarty M, Lee K. "Value of a contrast agent in equivocal carotid ultrasound studies; pictorial essay"
Aus Rad (2000) 44: 253-60
17. Hamill J, Holden A, Paice R, Civil I. "Pelvic fracture pattern predicts pelvic arterial haemorrhage"
Aust NZ J Surg (2000) 70 (5): 338 – 43
18. Baillie M, Holden A. "Inflammatory pseudotumour of the liver"
Aus Rad (2001) 45: 335 - 37
19. Choy PY, Koea J, McCall J, Holden A, Osborne M. "The role of radiofrequency ablation in the treatment of primary and metastatic tumours of the liver: initial lessons learned."
NZ Med J (2002) 115(1159): U128
20. Jones PG, Peak S, McClelland A, Holden A, Higginson I, Gamble G. "Emergency ultrasound credentialing for focused assessment sonography in trauma and abdominal aortic aneurysm: A practical approach for Australasia."
Emergency Medicine (2003) 15(1) : 54 – 62
21. Holden A, Hill A. "Renal angioplasty and stenting with distal protection of the main renal artery in ischaemic nephropathy: Early experience."
Journal of Vascular Surgery (2003) 38 (5) : 762-68
22. Holden, A. "Embolic Protection Devices in Renal Artery Stenosis."
Endovascular Today (2003) Nov/Dec 59-61
23. Kruger A, Holden A, Hill A. "Endoluminal Repair of a Thoracic Arch Aneurysm using a Scallop-Edged Stent-Graft."
J Endovasc Ther. (2003) 10:936-939
24. Koea J, Holden A, Chau K, McCall J. "Differential diagnosis of stenosing lesions at the hepatic hilus"
World J Surg (2004) 28(5):466-470
25. Koea J, Rodgers M, Thompson P, Woodfield J, Holden A, McCall J. "Laparoscopy in the management of colorectal cancer metastatic to the liver."
ANZ J Surg (2004) 74(12):1056-9
26. Marui Y, McCall J, Gane E, Holden A, Duncan D, Yeong M-L, Chow K, Munn S. "Liver transplantation for hepatocellular carcinoma in New Zealand: a prospective intent-to-treat analysis."
NZ Medical Journal (2005) 118:1-13

27. Fung J, Gane E, McCall J & Holden A. "Improved survival with screening for hepatocellular carcinoma in cirrhosis and chronic hepatitis."
B. J Gastro. Hepatol. 2005; 20 (Suppl), A72.
28. Fung J, Gane E, Holden A & McCall J. "Improved survival with screening for hepatocellular carcinoma in chronic hepatitis B and liver cirrhosis."
Hepatology 2005; 42 (Suppl. 1), 394A.
29. Holden A, Smith A, Dukes P, Pilmore H, Yasutomi M. "Assessment of 100 Potential Live Renal Donors for Laparoscopic Nephrectomy with Multi-Detector Row Helical CT"
Radiology 2005;237:973-980
30. Abbas SM, Bissett IP, Holden A, Woodfield JC, Parry BR, Duncan D. "Clinical variables associated with positive angiographic localization of lower gastrointestinal bleeding."
ANZ J Surg. 2005 Nov;75(11):953-7
31. McGuinness B, Kennedy C, Holden A. "Spontaneous celiac artery dissection."
Aus Rad 2006;50:400-1
32. Holden A, Hill A, Jaff M. "Renal artery stent revascularization with protection in ischaemic nephropathy"
Kidney Int 2006;70(5):948-55
33. Holden A, Ng R, Gane E, Hill A, McCall J. "A technique for controlled partial closure of a transjugular intrahepatic portosystemic shunt tract in a patient with hepatic encephalopathy"
J Vasc Interv Radiol 2006;17(12):1957-61
34. Bartlett A, McCall J, Koea J, Holden A, Yeong M-L, Gurusinghe N, Gane E. "Liver resection for hepatocellular carcinoma in a Hepatitis B endemic area"
World J Surg 2007;31:1775-81
35. Holden A. "Hilar cholangiocarcinoma: radiological diagnosis, staging and preoperative intervention"
ANZ J Surg 2007;77(Suppl. 1) A90
36. Holden A. "Radiological assessment of live liver and kidney donors"
ANZ J Surg 2007;77(Suppl. 1) A90
37. Muthu C, Maani J, Plank L, Holden A, Hill A. "Strategies to reduce the rate of type 2 endoleaks"
J Endovasc Ther 2007;14:661-668
38. Holden A. "Complications of Renal Artery Stenting"
Endovascular Today 2007;7(1):52-55
39. McGuinness B, Holden A. "Interventional Radiology: A survey of trainees"
JMIRO 2008;52:155-160
40. Holden A, Merrilees S, Mitchell N, Hill A. "Magnetic resonance imaging of popliteal artery pathologies"
European Radiology 2008;67:159-168
41. Holden A. "Abdomen – Intervention for solid organ injury"
Injury, Int. J. Care Injured 2008;39:1275-1289

Presentations

- 1992** Extratesticular lesions; a pathological and radiological correlation.
- NZ Branch Meeting (Waireki) – winner Obex Award
- RACR Meeting (Queensland) – winner Dupont Prize
- 1993** The role of colour and duplex Doppler ultrasound in the assessment of thyroid nodules
- NZ Branch Meeting – winner Obex Award
- RANZCR Meeting (Sydney)
- 1994** The role of duplex sonography in renovascular hypertension
- WA Branch Meeting
- 1995** Imaging of aortic dissection
- NZ Branch Meeting (Waireki)
CT versus EUS at the Gastro-oesophageal Junction
- RANZCR Meeting (Melbourne)
Imaging Requirements for Endoluminal Grafting
- International Endovascular Symposium (Sydney)
- 1996** Interventional procedures in the chest
- Auckland Respiratory Physicians Meeting
- 1997** Body applications for MRI
- NZ MR Users Group – Hamilton
- 1998** Hypertension and renovascular disease
- NZ Renal Physicians (Auckland)
- 1999** Endoleaks and their management
- NZ Vascular Luminaries Meeting, Auckland
Iliac artery issues in endoluminal repair
- NZ Vascular Luminaries Meeting, Auckland
Carotid intervention and distal protection
- Northern Vascular Group. Auckland
Pelvic fracture and therapeutic intervention
- Australasian College of Surgeons ASM
Imaging of thoracic aortic trauma
- Australasian College of /Surgeons ASM
- 2000** Endoleaks, definition and management
- IRSA (Penang)
Thrombin injection for false aneurysms at unusual sites
- IRSA (Penang)
Iliac artery issues in endoluminal repair
- IRSA (Penang)
- 2001** Stepping table CE-MRA for assessment of lower limb arterial pathologies
- RANZCR ASM (Melbourne)
Iliac angioplasty and stenting
- IRSA (Queenstown)

- Renovascular intervention
 - IRSA (Queenstown)
- MRA
 - IRSA (Queenstown)
- Recent innovations in Interventional Radiology
 - IRSA (Queenstown)
- Multidetector CT in the assessment of potential live related renal donors
 - RANZCR NZ Branch ASM
 - Winner best paper award
- Radiological intervention in pelvic trauma
 - NZ Trauma Forum (Auckland)

2002

- NZ Society of Vascular Surgery ASM Nelson 15 – 17/02/02
 - Peripheral MRA
- ASUM Wellington Vascular Workshop – Guest Speaker (04.05.02)
 - Visceral Artery Imaging
 - Carotid Artery Imaging
 - Imaging in Organ Transplantation
- Ashford Hospital Endovascular Workshop, Adelaide, Australia.
 - 16 – 17.05.02 – Guest Speaker
 - Endovascular Treatment of Renal Artery Stenosis with Distal Protection in Ischaemic Nephropathy
- Paris Course on Revascularisation (PCR) 21 – 24.05.02 – Guest Speaker
 - Endovascular Treatment of Renal Artery Stenosis with Distal Protection in Ischaemic Nephropathy
- IRSA 10TH Scientific Conference, North Queensland (6 – 12.07.02)
 - Part of International Faculty:
 - Use of Gadolinium in DSA and Endovascular Intervention
 - Retrograde Endoleaks – More questions than answers
 - CE-MRA in the Imaging of Lower Limb Arteries
 - Endovascular Treatment of Renal Artery Stenosis with Distal protection in Ischaemic Nephropathy
- CRISP nurses XVIII Annual Conference 12-14.09.02 – Guest Speaker
 - Recent Innovations in Interventional Radiology
- RANZCR Annual Scientific Meeting 3 –6.10.02 – Australasian Faculty
 - Endoluminal Aneurysm Repair – Procedural Issues
- International Endovascular Symposium 5 – 7.12.02 – Guest Speaker
 - Renal Angioplasty and Stenting with Distal Protection
 - Lower Limb MR Angiography
 - Angiographic Intervention using Gadolinium

- 2003 12th Singapore Live Vascular Endotherapy Meeting – Singapore 12-15 January
 - Live Case Renal Stenting from Singapore General Hospital 14th January
 - Renal Stenting with Distal Protection
 - Lower Extremity MR Angiography
- NZ Society of Vascular Surgery ASM – Auckland 21-23 March
 - Renal Stenting with Distal Protection
- Paris Course on Revascularisation (PCR) 19- 23.05.03 – Guest Faculty
 - Endovascular Treatment of Renal Artery Stenosis with Distal Protection in Ischaemic Nephropathy

MRI Users Group – Auckland Hospital 8.10.03

- Initial Experience with Gadovist and Resovist

Vascular 03 - Melbourne Australia 10-15.10.03

- Extra and Intra-cranial Arterial Anatomy – Why it is Important 11.10.03
- Will MRA Replace Other Modalities in Investigation of Occlusive Disease 12.10.03
- Distal Protection Devices in Renal Artery Stenting 12.10.03

2004 International Symposium on Endovascular Therapy (ISET) – Miami, Florida 28-31 January

- Part on International Faculty
- Renal Stenting with Distal Protection in Ischaemic Nephropathy
- Outpatient Iliac Artery Intervention
- Renal Artery and Iliac Artery Workshops

European Congress of Radiology (ECR) – Vienna, Austria 5-9 March

- Liver Specific Contrast Media in Focal Liver Lesions

Paris Course on Revascularisation (PCR) Paris, France 25-28 May

- Renal Stenting with Distal Protection in Ischaemic Nephropathy
- Outpatient Iliac Artery Intervention

Malaysian Cardiovascular Intervention Symposium (MCIS), Kuala Lumpur, Malaysia 16-19 June

- Live Cases: Renal Stenting and Iliac Artery Revascularization from the National Heart Institute 18th June
- Percutaneous Renal Angioplasty – Review

Latin American Customer Endovascular Board (LACEB), Biscayne, Florida, USA 22-23 June

- Renal Artery Revascularization in 2004

Vascular 04 - Rotorua 3-8.09.04

- Renal MRA vs Duplex 4.9.04
- MRA (technical aspects, uses, limitations, future) 4th and 5th Sept 04

Rouse Fellowship, RANZCR ASM Perth, APCCVIR New Dehli 11/10-5/11/04

Tuesday 12th October: visit Royal Hobart Hospital

- Imaging in Thoracic Trauma
- Scrotal Ultrasound
- Renal Artery Imaging and Intervention
- Renal Transplant Imaging

Adelaide Thursday 14th October Royal Adelaide Hospital

- Imaging in Thoracic Trauma
- Renal Artery Imaging and Intervention

Friday 15th October The Queen Elizabeth Hospital (TQEH)

- Renal Transplant Imaging
- SA Branch Annual Dinner – Non-invasive Imaging and Intervention in Carotid Arteries

Perth Tuesday 19th October Royal Perth Hospital

- Grand Round Lecture- Lower limb MR Angiography
- RANZCR ASM Faculty with 2 lectures:

Friday 22nd Oct - Imaging in Renal Transplantation

Friday 22nd Oct – An Update on Scrotal Sonography

New Dehli part of International Faculty at APCCVIR (Asian and Pacific Congress of Cardiovascular and Interventional Radiology) giving 3 lectures and live case involvement:

- 31/10 Renal Artery Revascularization
- 3/11 0900-1030 Renovascular Doppler

- 3/11 1130-1230 Vascular Closure Devices
- International Endovascular Symposium (IES) Sydney 9-11 December 04
 - 9/12 Renal Angioplasty with Embolic Protection Devices
 - 9/12 The Role of Infra-renal Fixation in Endoluminal Grafts
 - 11/12 The Prophylactic Use of Thrombin in the Prevention of Type 2 Endoleaks
- 2005** Radiology in Middle Earth (Auckland 28/2-1/3; Queenstown 2-5/3)
 - Part on International Faculty
 - Lower Limb MR Angiography
 - Renal artery imaging and intervention
 - Scrotal ultrasound
- All That Jazz (New Orleans, USA 26-29/4)
 - Embolic Protection Device Summit 26/4/05
 - Renal Angioplasty with Embolic Protection Devices 28/4/05
- Vascular Leaders Summit (Bangkok, Thailand 8-12/7/05)
 - New Technologies for Renal Stenting 9/7/05
- RANZCR/ASUM Branch ASM (Wellington 28-31/7/05)
 - Difficult Carotid Ultrasound 28/7/05
 - Visceral Artery Doppler 28/7/05
 - Non-invasive Imaging of Visceral Arteries 30/7/05
 - Scrotal Sonography in 2005 31/7/05
- Winter Lecture Series, Maidment Theatre, University of Auckland (16/8/05)
 - Insights into Image Guided Intervention
- Combined NZIMRT/AIR Conference (Auckland 25-28/8/05)
 - Lower Limb MRA
- IRSA (Queenstown 22/8-1/9/05)
 - New Concepts in Renal Artery Stenting
- VIII Congresso Annual Da SoBRICE, Sau Paulo, Brazil (3-5/11/05)
 - Techniques and Results of Renal Transplant Interventions
 - Renal Angioplasty: With or Without Embolic Protection
 - Endoluminal Repair of AAA: Supra or Infra-renal Fixation?
 - Type 2 Endoleak; Prevention Is Better Than Cure?
- Hong Kong Society of Interventional Radiology ASM, Hong Kong, China (4/12/05)
 - Renal Artery Revascularization with Embolic Protection in IN
 - Lower Limb MRA
- International Endovascular Symposium, Sydney, Australia (9-10/12/05)
 - What is the Best Imaging protocol for the Workup of Carotid Stenting?
 - Current Status and Future Projections for Renal Angioplasty Techniques
 - Lower Limb MRA: Special Applications
- 2006** ANZ Liver Transplant Meeting (Brisbane February 24-26)
 - Imaging of Liver Lesions in he Cirrhotic Liver – the Value of MRI
- Epworth Carotid Workshop (Melbourne March 3-5)
 - Part on International Faculty
 - What is the Ideal Imaging Modality for Carotid Disease?
- Vascular Leaders Summit (Shanghai, China 9-13/6/06)
 - Embolic Protection and Renal Stenting 10/6/06
- Visit Chinese Hospitals (giving talks on carotid, renal and SFA intervention and reviewing cases 13-14/6/06)
 - Hang Zhou (ZMU Affiliated Hospital, Hangzhou No 3 Hospital)
 - Shanghai Zhongshan Hospital

- ESGAR/SGR 2006 (European Society of Gastrointestinal and Abdominal Radiology, Crete, Greece 19-23 June 2006)
- Comparison between Gadolinium-BOPTA (Multihance) and a standard Gadolinium chelate in the assessment of potential live hepatic donors 22/6/06
- Convenor of Cordis Renal Symposium 20-21/7/06, Sydney, Australia
- Imaging of Renal Artery Stenosis
 - Renal Artery Intervention in Ischemic Nephropathy
- Vascular 2006 (Cairns, Queensland September 2-6)
- Part on Invited Faculty
 - "MRA Has Been The Next Big Thing for 15 Years: Will It Ever Come of Age?"
 - "Distal Protection for Renal Artery Interventions: How, When and Why I Do It."
 - "Making Sense of Renal Protection Strategies – Is Contrast Nephrotoxicity A Real Danger and What Should I Do for My Patients?"
- RANZCR ASM (Christchurch 26-28/10/06)
- Imaging of Acute Aortic Syndromes 26/10/06
 - Colon Carcinoma: Imaging of Hepatic Metastases 28/10/06
- 2007** Vascular Interventions 2007 (Newcastle, Australia 23-24 February)
- Live Case Demonstrations 23/2/07 Lake MacQuarie Private Hospital
 - Renal Artery Stenting with Renal Preservation 24/2/07
- Radiology in Sydney (Sydney, Australia 19-24th March)
- Imaging in Renal Transplantation
 - MR/CT of Focal Liver Lesions
 - New Applications for Lower Limb MRA
 - US/CT of Renal Arteries
- i2 Summit, American College of Cardiology ASM (New Orleans, USA 24th-27th March 2007)
- Renal Embolic Protection: Viable or a Pipedream?
 - Interventional Management of the Haemodialysis Fistula
- Cordis Carotid Symposium (Sydney 27-28th April)
- Duplex, CTA, MRA – What is the Ideal Imaging Modality?
 - Peri-procedural Complications and Challenges
- Royal Australasian College of Surgeons ASM (Christchurch 7-8th May)
- Hilar Cholangiocarcinoma: Radiological Diagnosis, Staging and Pre-operative Intervention
 - Radiological Assessment of Live Liver and Kidney Donors
- Malaysia Live (Kuala Lumpur 11-14th July)
- Live Cases at National Heart Institute, KL 11/7/07
 - Management of Intra-procedural Stroke during CAS 12/7/07
 - Stenting the Aorto-iliac Segment 12/7/07
 - Renal Intervention – How I Do It and the Role of Distal Protection 12/7/07
- Cordis SFA Symposium 17 August 2007, Melbourne – Course Convenor
- SFA Stenting: A Single Centre Experience
 - Surveillance after SFA Stenting and Complication Management
 - Crossing Chronic Total Occlusions in Lower Limb Arteries
 - The Role of Embolic Protection in Lower Limb Intervention
- CIRSE (Cardiovascular and Interventional Radiology Society of Europe) 8-12/9/07
- Renal Protection is Necessary for Renal Stenting 9/9/07

RANZCR ASM Melbourne 4-7/10/07

- Comparison Between Gadolinium-BOPTA (Multihance) and a Standard Gadolinium Chelate (Magnevist) in the MRI Assessment of Potential Live Hepatic Donors 5/10/07

- The Impact of Hepatobiliary Phase (HBP) Scanning with Gadolinium-BOPTA (Multihance) in Focal Nodular Hyperplasia (FNH) detection and Characterisation 5/10/07

Transcatheter Cardiovascular Therapeutics (TCT) 20th-25th October 2007

- Is Embolic Protection in Renal Intervention Ready for the Prime Time?

2008 Leipzig Interventional Course (LINC) (Leipzig, Germany 23-26 January)

- Is there an Indication for Embolic Protection during Renal Artery Stenting?

RANZCR Western Australia Branch ASM (Perth, Australia 8-9th March)

- Scrotal Ultrasound

- Imaging of Live Renal Donors

- Imaging of the Renal Transplant Graft

- Imaging of the Renal Arteries

NZ Association of General Surgeons, (Waitangi 5-6th April)

- Interventional Radiology- When to Refer What for Embolisation

Interventional Radiology Society of Australasia (IRSA) ASM 26th- 28th August

- Renal Artery Stenosis: Life after ASTRAL

Vascular 2008, (Adelaide, Australia 10-14th September)

- Issues Surrounding Endovascular Treatment in the Iliac Arteries and SFA (Abbott Symposium, 10th September)

- Great Debate: "Renal Artery Stenting is a Legitimate Treatment in the Hypertensive Patient" (12th September)

- "Below Knee Therapy and Treatment for the Diabetic Foot" (Biotronic Symposium 12th September)

Australasian Society of Ultrasound in Medicine (ASUM) ASM 18th- 21st September

- Doppler Surveillance of Endovascular Treatment Sites 18th September

- Ultrasound in Abdominal Transplantation 18th September

- Imaging of the Renal Transplant Graft 19th September

Vascular Interventional Advances (VIVA) Las Vegas, USA 22nd- 26th September

- Overcoming Subintimal Entrapment in the Femoropopliteal Occlusions: Optimal Use of Re-Entry Tools and Retrograde Popliteal Access 22nd Sep

- Renal Embolic Protection: Why Should We Treat the Kidney Any Differently Than the Brain? 24th September