

- > Serum Tumour Markers by Dr Julia Chang, Dr Charles Appleton and Dr Kerry DeVoss
- > BD SurePath™ and FocalPoint™ Study Summary
- > Doctor's Noticeboard
- > Clinical Data



“Tumour markers...
offer some hope
in the fight
against cancer.”

Serum Tumour Markers

Dr Julia Chang, Dr Charles Appleton and Dr Kerry DeVoss

Salient Points

- Malignancy and cardiovascular disease are Australia's leading causes of death, with each accounting for over 25% of our nation's mortality.
- Non-selective screening of individuals without clinical evidence of malignancy offers low benefit for the cost and is fraught with hazard.
- Tumour markers, those materials whose presence qualitatively or quantitatively signal the presence of malignancy, offer some hope in the fight against cancer. Some well-defined clinical applications include:
 - The detection of malignancy
 - The establishment of prognosis as an aid in differentiation
 - The monitoring of treatment and the detection of a recurrence.

Detection of Malignancy

With few exceptions, the non-selective screening of individuals without any clinical evidence of malignancy offers little benefit/cost. More importantly it is fraught with the hazard of initiating expensive and anxiety provoking investigations in large numbers of patients to exclude the possibility of malignant disease.

In contrast, the selective screening of high-risk groups is well-established and is cost-effective. Such groups and their associated tumour markers include:

- **Males with prostatomegaly** – prostate specific antigen
- **Hypercalcaemia** – PTH and myeloma protein
- **Hypertension** – urinary catecholamines for phaeochromocytoma
- **Haemochromatosis** – alpha fetoprotein for hepatoma
- **Pituitary lesion** – prolactin and other pituitary hormones for pituitary adenoma.

Differentiation, Establishment of Prognosis and Detection of Recurrence

Use of a tumour marker in the monitoring role depends on finding one that is directly associated with the tumour mass. Note that with therapy, particularly chemotherapy, the malignant cell line may change, such that it may cease secreting one marker.

Conversely, a given tumour may commence secreting another marker during its natural history. Aspects of this are illustrated with the case study.

Case Study

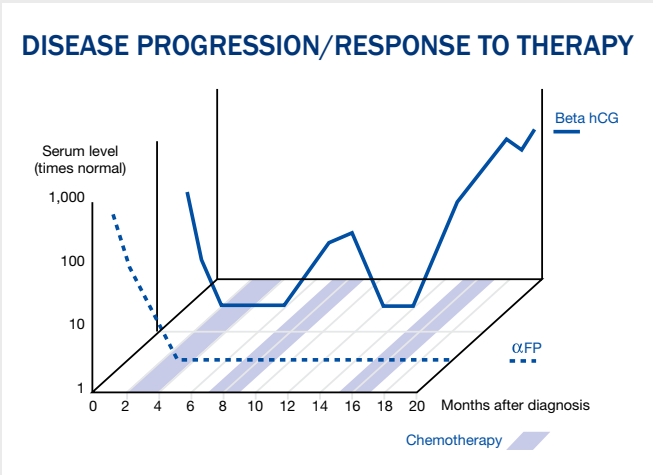
A 17 year-old female presented with a pelvic mass. At surgery, a large poorly differentiated tumour arising within the pelvis was incompletely resected. Analysis of her pre-operative serum revealed high-levels of beta hCG and alpha fetoprotein, suggesting with the histological and clinical features, a primary germ neoplasm.

Chemotherapy proved effective in reducing the residual tumour bulk and in controlling the first recurrence. However, the second recurrence was refractory to treatment and the patient died 20 months after diagnosis. The behaviour of the tumour markers over the course of her illness is illustrated right.

The View of Medicare Australia

Medicare Australia restricts the payment of benefits in some cases.

Several markers, α FP, CEA, CA-19.9, CA-15.3, CA-125, HCG, neuron specific enolase (NSE) and thyroglobulin are restricted to monitoring of known tumours or detection of hepatic or germ cell tumours or gestational trophoblastic disease. In contrast, requesting myeloma protein, hormones, catecholamines and β 2-microglobulin testing is unrestricted.



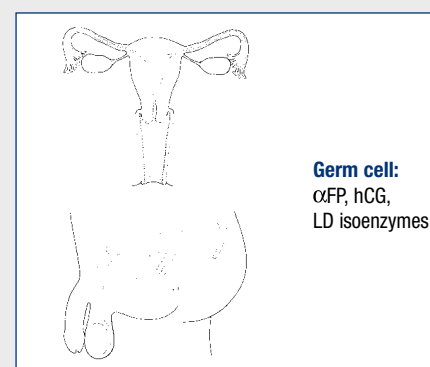
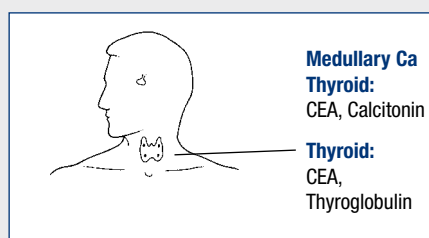
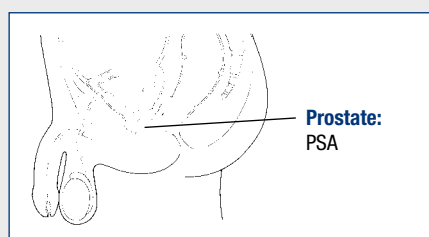
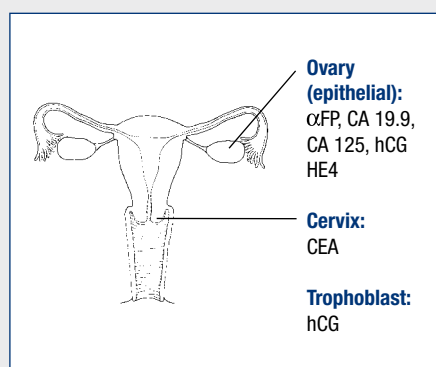
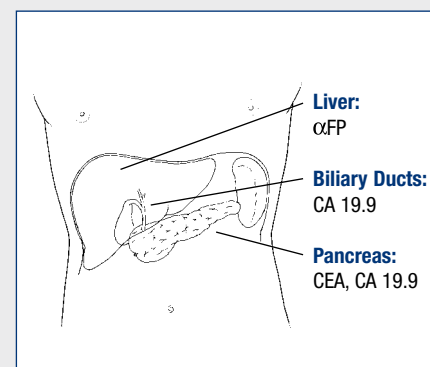
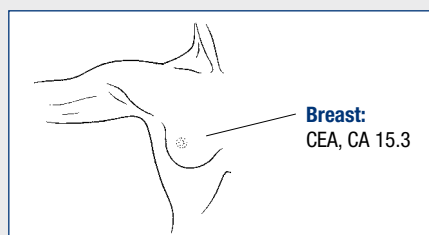
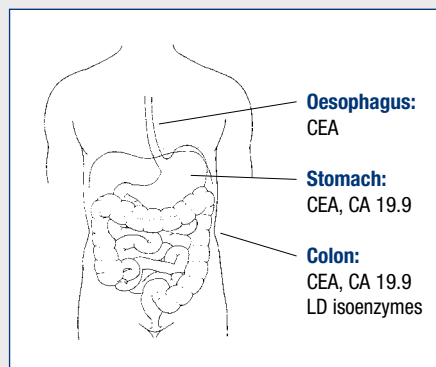
	Incidence (newly diagnosed patients)		Deaths attributed to cancer	
	Rate 100,000 men	Rate 100,000 women	Rate 100,000 men	Rate 100,000 women
All registrable cancers (except non-melanoma skin cancer)	483	407	211	160
Colorectal	72	57	27	22
Breast	1	117	0	26
Prostate	111	N/A	28	N/A
Melanoma (skin)	50	39	6	4
Lung	56	29	48	24
Non-Hodgkin lymphoma	20	17	9	8
Unknown primary site	17	16	13	13
Bladder	23	8	6	3
Kidney, ureter and urethra	15	10	5	3
Stomach	13	7	8	4
Pancreas	10	9	9	9
Corpus uteri	N/A	16	N/A	3
Ovary	N/A	12	N/A	8
All other sites	96	69	51	33

N/A: Not applicable

Rates shown are crude rates. Source: AIHW, 2003

TABLE 1: RATES PER 100,000 AUSTRALIAN PERSONS IN ONE YEAR OF NEW CASES AND DEATHS

GUIDE TO MARKERS BY SITE OF TUMOUR



TUMOUR	MARKER										
	α FP	CEA	CA 19.9	CA 15.3	CA 125	hCG	Calcitonin	Thyroglobulin	PSA	LD isoenzymes	HE4
Oesophagus		•									
Stomach		•	•								
Pancreas		•	•								
Colon		•	•							•	
Liver	•										
Biliary ducts			•								
Breast		•		•							
Ovary	•		•		•	•					•
Cervix		•									
Trophoblast						•					
Germ cell	•					•				•	
Prostate									•		
Thyroid		•						•			
Medullary Ca Thyroid		•					•				

Source: A. Fetah-Moghadam, P. Stieber, 1991 *Inst. of Clin. Chem., Klinikum, Grobhadern, Munich, FRG*

THE MORE WIDELY USED SERUM MARKERS

MARKER	MAJOR TUMOUR SOURCE	LESSER TUMOUR SOURCE	FALSE POSITIVE
ACTH	pituitary basophil adenoma, oat cell carcinoma of lung	pulmonary carcinoma	
Alpha Fetoprotein (αFP)	hepatoma, dysgerminoma (70%), teratoma, hepatoblastoma	gastrointestinal (10%) and brochogenic ca. (10%)	non-neoplastic liver disease
Beta Human Chorionic Gonadotrophin (hCG)	choriocarcinoma (>80%) and dysgerminoma (40%)	seminoma (20%) and non-trophoblastic ca. (10%)	
Beta 2 Microglobulin	myeloma, plasmacytoma		renal or inflammatory disease
CA 125 (cervix, pancreas, stomach)	epithelial ovarian cancer (>80%) pancreatitis, peritonitis	endometrium, fallopian tube	endometriosis, PID, CRF
CA 15.3	metastatic breast ca. (70%)	localised breast ca. (10%), ovary	non-malignant liver disease
CA 19.9 (Fetoacinar Pancreatic Antigen)	pancreas (80%), gastric (50%), bile duct (65%), hepatoma (50%)	colorectal (25%)	cirrhosis, cholangitis and rarely pancreas and colorectal inflammation, pulmonary fibrosis
Calcitonin	medullary thyroid carcinoma, carcinoid	liver, lung, renal, breast	
Carcinoembryonic Antigen (CEA)	colorectal, gastric, liver, pancreatic and breast ca. (all >60%)	lung, prostate, cervix, uterus, ovary	smoking, acute and chronic pancreatic, bowel and breast disease
Catecholamines, HMMA (VMA)	phaeochromocytoma, neuroblastoma		non-specific illness, anti-hypertensive drugs, syncope
Human Chorionic Gonadotrophin	Refer Beta hCG		
Lactate Dehydrogenase (LD) Isoenzymes	seminoma, lymphoma and epithelial carcinoma		benign disease of organs, haemolysis
Paraprotein, Bence Jones Protein, Serum free light chains	multiple myeloma (98%) and plasmacytoma	other lymphoid malignancies	autoimmune conditions
Placental Alkaline Phosphatase	seminoma (>80%), ovary, lung, uterus cancer		smoking
Prostate Specific Antigen (PSA)	prostatic adenocarcinoma intracapsular (65%), metast (90%)		benign prostatic hypertrophy (30%)
Serotonin, 5HIAA	carcinoid tumour		diet, diarrhoea, coeliac disease
Soluble Mesothelin-Related Protein (SMRP)	mesothelial tumours - mesothelioma	ovarian, peritoneal tumour	other lung malignancy, fibrotic lung disease
Thyroglobulin	differentiated thyroid ca.		
Vasoactive Intestinal Polypeptide (VIP)	bronchogenic lung, pancreatic islet, neuroblastoma, thyroid medullary, phaeochromocytoma		shock, cirrhosis, hepatic failure
Human Epididymal Protein (HE4)	Epithelial ovarian cancer	endometrium, lung	renal failure

References

1. McAvoy B, Elwood M, Staples M. Cancer in Australia - An update for GPs, Aust Fam Physician. 2005 Jan-Feb; 34 (1-2): 41-5
2. Burton RC. Cancer control in Australia: into the 21st century, Jpn J Clin Oncol. 2002 Mar; 32 Suppl: S3-9
3. Voorzanger-Rousselot N, Garnero P. Biochemical markers in oncology. Part 1: Molecular basis. Part 2: Clinical Uses, Cancer Treat Rev. 2007 May; 33(3): 238-83. Epub 2007 Apr 11
4. Duffy MJ. Role of tumour markers in patients with solid cancers: A critical review, Eur J Intern Med. 2007 May; 18(3): 175-84
5. Duffy MJ. Evidence for the clinical use of tumour markers, Ann Clin Biochem. 2004 Sep; 41(Pt 5): 370-7
6. Zhang X, Li L, Wei D, Yap Y, Chen F. Moving cancer diagnostics from bench to bedside, Trends Biotechnol. 2007 Apr; 25 (4): 166-73 Epub 2007 Feb 20

Pathologist Profiles

Dr Julia Chang MBBS (Hons), BSc(MED.) (Hons) FRCPA
CONSULTANT CHEMICAL PATHOLOGIST

Phone: (07) 3121 4444
Email: Julia.Chang@qml.com.au

Dr Chang graduated in 1997 with a Bachelor of Medical Science (honours) before completing her MBBS (Honours) in 2000 at the University of Sydney.

In 2001 Dr Chang began an internship with the Concord Repatriation General Hospital before working as a Junior House Officer at the Royal Brisbane Hospital in 2002.

Dr Chang trained in chemical pathology at the Princess Alexandra Hospital, at the QHPS Central Laboratory at the Royal Brisbane Hospital, and in 2007 in the Biochemistry Department of QML Pathology. In 2008 Dr Chang completed her fellowship and joined QML Pathology as a Consultant Chemical Pathologist.

Dr Chang's special interests include iron and copper disorders, clinical chemistry of pregnancy and drug testing.

Dr Charles Appleton MMBS (Qld) FRCPA
PATHOLOGIST IN CHARGE: BIOCHEMISTRY

Phone: (07) 3121 4512
Email: Charles.Appleton@qml.com.au

Dr Charles Appleton graduated from the University of Queensland in 1977 (MBBS), before starting work as a resident medical officer at the Royal Brisbane Hospital in 1978. In 1980, Dr Appleton became a registrar in pathology at RBH, before moving into the role of acting Assistant Chemical Pathologist.

Dr Appleton joined QML Pathology in 1985 as Chemical Pathologist, and was subsequently appointed Partner in Charge of Biochemistry.

For part of this time, he worked as Visiting Chemical Pathologist at the Repatriation General Hospital, Greenslopes. In 2003, ownership of QML Pathology changed and his position title was revised to Pathologist in Charge of Biochemistry.

Dr Appleton's special interests include use of computers in pathology result interpretation and reporting, legal aspects of drug testing, inborn errors of metabolism and calcium metabolism.

Dr Kerry DeVoss FRCPA
PATHOLOGIST IN CHARGE: ENDOCRINOLOGY

Phone: (07) 3121 4412
Email: Kerry.DeVoss@qml.com.au

A graduate of the University of Queensland in 1973, Dr DeVoss trained in chemical pathology at Royal Brisbane Hospital. Dr DeVoss became a resident medical officer in 1973, then served as a registrar from 1975 to 1979.

After a period working in central Queensland, Dr DeVoss joined QML Pathology as Pathologist in Charge of the Redcliffe Laboratory. He then moved to the central Brisbane Laboratory and became Pathologist in Charge of Biochemistry.

Over the past twelve years he has also acted in the role of Visiting Pathologist, supervising the operation of the Gladstone (1985-1993) and Darwin (1993-1996) Laboratories.

Dr DeVoss is currently the Chemical Pathologist in Charge of the Endocrinology Department at QML Pathology.

Dr DeVoss' special interests include fertility thyroid disease, graphical reporting systems, 3D modelling of populations and disease, and automation systems.

Have you enrolled in the Cytology Pap Smear Audit yet?

Assess the accuracy of your collections and the rate of STI pick up in your patient population.

Compare your practice against peers statewide, in a confidential manner via graphical and statistical information.

Receive assistance and feedback from Histo/Cytopathologists.

40 RACGP QI&CPD Cat. 1 points and/or 30 ACRRM PRPD points.



ABOUT

This audit enables doctors to conduct a systematic review of their clinical practice while at the same time earn 40 category 1 RACGP QI&CPD and/or 30 ACRRM PRPD points.

Doctors can assess their identification, diagnostic accuracy, practical accuracy of smear collection and STI pick up rates in adjunctive testing, i.e., urine, swabs, BD SurePath™ and ThinPrep, and compare with the results of other doctors.

REQUEST FORMS

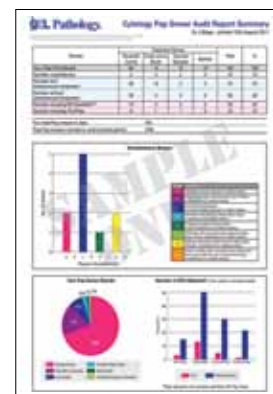
Doctors will receive designated A4 Cytology Pap Smear Audit request forms upon confirmation of registration. **Doctors need to fill in the relevant tick boxes in the 'tests requested' section of the form in order for their data to be collected.**

If you require more Cytology Pap Smear Audit request forms, please contact Doctor's Stores on (07) 3121 4508. Please do not use regular QML Pathology request forms, or the data cannot be included in the audit.

REPORTS

Data will be collected from all registered participants and collated into a graphical report delivered monthly and at the end of the calendar year, featuring statistics and data on:

- Diagnostic findings and accuracy
- Procedural findings and causes of unsatisfactory smears
- Ancillary testing and detected STIs (numbers and types).



EDUCATION POINTS

Eligible general practitioners may attain the following by participating in the QML Pathology Cytology Pap Smear Audit:

RACGP QI&CPD: 40 Category 1 points

ACRRM: 30 PRPD points.

REGISTRATION

For your convenience, we offer several methods of registering for the Cytology Pap Smear Audit:

Via our website: Complete the registration form online at www.qml.com.au > Latest News

Via fax: Complete your registration form and return by fax to (07) 3121 4972

Via your courier: Complete your registration form and give to your QML Pathology Courier.

For further information please contact your local Medical Liaison Officer, phone Brisbane Marketing Department on (07) 3121 4506 or contact jo.wilsonfarr@qml.com.au.

MEN IN MEDICINE BREAKFAST



**LOOKING AFTER YOU:
THE IMPORTANCE OF MEN'S HEALTH**


WITH KEYNOTE SPEAKER PHIL KEARNS


Join AMA Queensland for an inspiring morning communicating the importance of men's health and engaging with other medical professionals.



DATE:	Wednesday 18 July 2012
TIMES:	7am for 7.15am start Expected end time 9.30am
VENUE:	Moda Events Portside 39 Hercules Street, Hamilton (onsite parking available)
DRESS:	Business / smart casual

TO REGISTER,
CONTACT AMA QUEENSLAND:

 AMA Queensland,
PO Box 123,
Red Hill, Qld 4059

 (07) 3872 2269

 registrations@amaq.com.au

 www.amaq.com.au

SUPPORTING MEN IN
THE INDUSTRY:



FREE Glucose Monitor

Your patients will receive a FREE glucose monitor when you enrol them in the Diabetes Care Clinic.

100% Bulk Billed (for Medicare card holders)

Be part of Queensland's ONLY 100% bulk billed statewide Diabetes Educator service.

Easy Medicare CDM Payments

Refer your diabetes patients to QML Pathology today and we'll help you to access Medicare's CDM payments.

Run by Credentialed Diabetes Educators

The Diabetes Care Clinic is a specialised team dedicated to helping people with diabetes improve their health and lifestyle.

 **Call (07) 5441 0200 to get started.**



www.diabetes.medway.com.au



QML Pathology. | **DiabetesCareClinic**

The results of an Australian trial using BD SurePath™ liquid-based cervical cytology with FocalPoint™ computer-assisted screening technology



Laverty Pathology in NSW has published the Australian study now showing that BD SurePath™ and FocalPoint™ offers superior results to conventional smears.

The trial consisted of a split sample 2,198 routine specimens.

The pertinent findings are as follows:

THE UNSATISFACTORY PAP SMEAR

- BD SurePath™ and FocalPoint™ saw a significant reduction of unsatisfactory smears.
- 0.2% unsatisfactory reports compared to conventional smears with 4.1% unsatisfactory.

BD SUREPATH™ AND FOCAL POINT™ IS EXTREMELY RELIABLE IN THE DETECTION OF HIGH GRADE CASES

- The overall detection rate was 93% for HG Squamous lesions*
- 89% for known high grade endocervical glandular lesions
- 91% for known endometrial carcinoma.

*Footnote: On review of the non-detected 7% it was found that the FocalPoint™ assisted computer technology had actually included high grade cells in the visual fields selected for Cytologist interpretation, lending further support to the validity of the technology.

References

1. Bowditch RC, Clarke JM, Baird PJ, Greenberg ML. Results of an Australian Trial Using SurePath Liquid-Based Cervical Cytology with FocalPoint Computer-Assisted Screening Technology. Diagnostic Cytopathology. 1 Nov 2011. Article first published online (wileyonlinelibrary.com): DOI: 10.1002/dc.21848

Pap Smear Patient Brochures

QML Pathology's 'Pap Smear and BD SurePath™ Tests' patient brochure includes information about:

- What a Pap smear is
- The importance of Pap smears for women
- Pap smear results
- Liquid-based cytology.



To order, please contact QML Pathology Marketing on (07) 3121 4506



Winter is Here

CSL Flu Vaccine is available to buy in boxes of 10 and single doses.

Amount	Price (ex. GST)
1 - 50	\$12.50 ea
51 - 100	\$12.00 ea
101 +	\$11.80 ea

To order, please contact QML Pathology Vaccines on (07) 3121 4523 or Fax (07) 3121 4944

Surgical Skin Audit: Key Points to Remember

SURGICAL SKIN AUDIT REQUEST FORMS (GREEN)

- Samples must be submitted with the surgical skin audit request forms (pictured) to count towards the audit
- The front and reverse of the request form must be completed
- Additional request forms can be ordered via your normal stock order method.

FRONT

BACK



EDUCATION POINTS

Eligible doctors can earn:

40 RACGP QI&CPD Category 1 points
and/or 30 ACRRM PRPD points



CONTACTS

Clinical assistance or feedback:

Our specialised team of Histopathologists are here to help.
Phone (07) 3121 4444 or contact your local laboratory.

Any other questions or queries:

Please contact your local medical liaison officer for more information.

Doctor's Noticeboard

The Doctor's Noticeboard is a free service for practitioners to advise changes to their practice. If you would like to place a notice, please email details to info@qml.com.au.



DR CATHRYN EDRICH, Consultant Ophthalmic Surgeon, commenced her practice "See View Eye Specialist Clinic" in June 2011 at the John Flynn Private Hospital.

Dr Edrich offers a specialist service in medical and surgical management of eye disease. Her main specialties include refractive cataract surgery, supplementary lens implantation, diabetic eye disease, macula degeneration/treatment and comprehensive ophthalmology.

Address: Suite 6G, Medical Centre, John Flynn Private Hospital
42 Inland Dr, Tugun QLD 4224

Phone: (07) 5598 0885

Fax: (07) 5598 0887

Email: seeviewgc@gmail.com

Web: www.goldcoastvision.com.au

Dr Edrich consults in her John Flynn Rooms Wednesday to Friday, and the vision centre on a Mondays. She is happy to assist referrers with any related eye queries and can assist with urgent referrals.



DR WILLIAM BRAUN, General & Laparoscopic Surgeon has commenced private practice with Dr Hugh McGregor at the Peninsula Specialist Centre.

Dr Braun has undergone extensive training in a variety of surgical subspecialties. He has completed Specialist Surgical Training of the Royal Australasian College of Surgeons in General Surgery and is currently undertaking post Fellowship training.

His sub-specialty interests are in laparoscopic gastro-intestinal surgery with the main focus on weight loss surgery.

Address: Suite 17, Peninsula Specialist Centre
George St, Kippa-Ring QLD 4021

Phone: (07) 3283 4200

Fax: (07) 3284 2739

Email: lapsurgerybrisbane@gmail.com

Web: www.lapsurgerybrisbane.com.au

DR REBECCA WERTHER, Paediatric Allergist and Clinical Immunologist, has commenced private practice, joining the Compass Immunology Clinic at The Greenslopes Private Hospital.

Rebecca graduated from the University of Melbourne in 2001, and has since worked at the Royal Children's Hospitals in both Melbourne and Brisbane.

Rebecca has a special interest in food allergy, eczema and allergic rhinitis in children of all ages.

Address: Suite 7a, Ground Floor, Administration Building
The Greenslopes Private Hospital
Newdegate St, Greenslopes QLD 4120

Phone: (07) 3847 3256

Fax: (07) 3847 3257

DR STEPHEN RODRIGO, Consultant Psychiatrist, is pleased to announce he has expanded his practice to 3-4/77 Wembley Rd, Woodridge and is currently accepting new referrals.

Dr Rodrigo has been a Senior Staff Psychiatrist at Queensland Health for the last 8 Years and has worked at Logan Hospital until last year. He is an active fellow of the Royal Australian and New Zealand College of Psychiatrists and is involved in teaching and assessing registrars and medical students.

His interests are in pharmacotherapy and psychotherapy for anxiety and depressive disorders in adults, and he has considerable experience in the diagnosis and management of psychotic disorders. Referrals can be made by phone, fax or mail. Correspondence to PO Box 61 Woodridge QLD 4114.

Phone: (07) 3209 5611

Fax: (07) 3290 3439

Email: drstephenrodrigo@hotmail.com



DR CONROY HOWSON, ENT Specialist, is based at Sunnybank Private Hospital and will soon be expanding his practice to the Wesley Private Hospital. Dr Howson completed his training in South Africa before practising in the United Kingdom as an ENT Consultant with the East Kent NHS Trust. In 2005 Dr Howson moved to Cairns where he was Director of ENT, Head and

Neck Surgery for the Cairns and Hinterland District for five years, and established a new ENT specialist service out of Cairns Base Hospital.

Dr Howson is a General ENT specialist, and is happy to see both adult and paediatric patients. He has a special interest in rhinology and otology. He welcomes all referrals and is available for discussion and advice.

Address: Suite 213B, 2nd Floor, Times Square Building
250 McCullough St, Sunnybank QLD 4109

Phone: (07) 3219 5133

Fax: (07) 3041 0487

Email: cityentspecialist@gmail.com

DR JON-PAUL MEYER, Urologist has commenced private practice at Peninsula Specialist Suites and Peninsula Private Hospital.

Dr Meyer completed his residency and general surgical training in hospitals throughout South West England and his higher urological training in Oxford before successfully obtaining Fellowship of the Royal College of Surgeons in the UK (FRCS (Urol)). Dr Meyer has worked at the Royal Brisbane and Women's Hospital followed by Redcliffe Hospital where he is now the Director of Urology.

Dr Myer has published multiple papers in peer-reviewed journals, and has presented at numerous national and international urological meetings. He is actively involved in the teaching of medical students and junior doctors and is a University of Queensland Associate Professor. In addition to his private practice, Dr Meyer will continue to work publicly at Redcliffe Hospital. His special interests include general urology, and bladder and prostate cancer.

Phone: (07) 3284 1892

Fax: (07) 3283 4871

Email: gpreferrals@jpmeyerurology.com.au

Web: www.jpmeyerurology.com.au



DR MICHAELA LEE, Obstetrician and Gynaecologist, has recently joined the Wesley Private Hospital.

Dr Lee completed her medical degree and obstetrics and gynaecology training in Vienna, before working with Professor Larry Platt at the Maternal Fetal Medicine Centre

at the Cedar Sinai Medical Centre in the USA. Since coming to Australia in 2004, Dr Lee has worked at the Royal Brisbane Women's and Redcliffe Hospitals.

Areas of special interest: Pregnancies complicated by diabetes, thyroid function disorder, heart conditions, clotting disease, multiple pregnancies and breech presentation, menstrual abnormalities, post menopausal bleeding, management of abnormal Pap smears, early pregnancy complication, fertility counselling, and management of incontinence.

Address: Wesley Medical Centre Level 2, Suite 30
40 Chasely St, Auchenflower QLD 4066

Phone: (07) 3171 2244

Fax: (07) 3171 2246

Email: reception@leeobgyn.com.au

GP POSITION AVAILABLE - NORTHERN RIVERS NSW

Opportunity for VR GP in small private practice established over 30 years

Contact Tenai on
0422 626 608 or
admin@riversidegp.com.au.

- Hospital and Residential Care Opportunities
- Comprehensive Specialist Access
- Visiting Allied Health
- Student Mentoring
- Sublime Location
- Hours Negotiable
- Control your working life

DR PAUL ANNELLS, Skin Cancer Doctor. Now taking referrals for skin cancer removals with a special interest in head and neck skin cancer removal requiring flap or graft closure.

Melanoma Scan Pty Ltd
Shop 114B
Brookside Shopping Centre
159 Osborne Road
Mitchelton Q 4053
Phone (07) 3855 8500
Fax: (07) 3855 8255

Melanoma Scan Pty Ltd
Shop 13A Centro Toombul
1015 Sandgate Road
Toombul Q 4012
Phone: (07) 3256 6766
Fax: (07) 3256 6788

Collection Centre Updates

NEW COLLECTION CENTRES

ACACIA RIDGE.....(07) 3277 3612

Shop 9, 10 Elizabeth St
Opening Hours:
Mon - Fri: 8.00am – 12.30pm
1.00pm – 3.00pm

BANKSIA BEACH.....(07) 3408 7504

Shop 10, Banksia Beach Medical Centre
Banksia Beach Village, 25 Sunderland Dr
Opening Hours:
Mon, Tue, Thu: 8.00am – 11.00am

BARGARA.....(07) 4130 5365

Level 1, Bargara Central Shopping Centre
699 Bargara Rd
Opening Hours:
Mon - Fri: 8.00am – 11.00am
11.30am – 2.00pm

ROBINA.....(07) 5593 2401

110 Laver Dr
Opening Hours:
Mon - Fri: 6.00am – 8.45am

STAFFORD.....(07) 3352 6984

Stafford City Shopping Centre
Shop 93, 400 Stafford Rd
Opening Hours:
Mon - Fri: 8.00am – 4.00pm

SURFERS PARADISE.....(07) 5504 6412

Doctors @ Cavill
Cnr Ferny and Cavill Aves
Opening Hours:
Mon - Wed: 9.00am – 12.00pm

TWEED HEADS WEST.....(07) 5599 3342

Shop 10, Kennedy Plaza Shopping Centre
97-99 Kennedy Dr
Opening Hours:
Mon - Fri: 7.30am – 12.30pm

URRAWREEN.....(07) 4128 2289

Family First Medical
2/156 Urraween Rd
Opening Hours:
Mon - Fri: 8.00am – 12.00pm
12.30pm – 4.00pm

Infectious Diseases Report

GEOGRAPHIC DISTRIBUTION - APRIL 2012

ORGANISM	Regions (as per key below)															TOTAL			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	APR	MAR	FEB	JAN
Adenovirus (not typed)		3		1			5				5		1	1		16	21	22	23
Adenovirus (typing pending)		3	4							4	3		3			17	20	10	14
Barmah Forest virus	1	2		1			3		2	4	4	2	2	1	1	23	28	16	14
Bordetella pertussis	5	29	18	5			29	1	19	7	46	22	4	3	3	191	225	244	298
Brucella species			1			1						1	1	2		6	13	15	9
Campylobacter jejuni																0	0	0	0
Chlamydia pneumoniae																0	0	0	0
Chlamydia trachomatis, not typed	56	101	23	14	3	1	75		42	21	153	44	23	52	16	624	776	765	646
Coxiella burnetii										2	1			2		5	4	8	8
Cryptococcus species			1													1	5	2	2
Cytomegalovirus (CMV)	5	11	5	3			16		4	1	13	5	2	1	3	69	65	73	67
Entamoeba histolytica																0	1	1	0
Enterovirus - not typed																0	0	1	1
Epstein-Barr virus (EBV)	7	17	6	4			27		12	5	27	10	10	2	3	130	136	138	151
Flavivirus unspecified	3	3			1		4		1	2	2	5		3		24	20	21	14
Hepatitis A virus							1									1	2	2	1
Hepatitis B virus	6	4	6	1			13	1	3	1	60	1		3	2	101	102	112	71
Hepatitis C virus	12	48	22	1		1	43		18	7	80	30	6	5	8	281	322	321	248
Hepatitis D virus																0	0	0	0
Hepatitis E virus																0	0	0	1
Herpes simplex Type 1	11	33	11	6			36		22	10	54	21	16	12	3	235	275	286	301
Herpes simplex Type 2	7	30	7	5			12		14	2	38	18	1	4	3	141	156	178	179
Herpes simplex virus - not typed																0	0	0	0
HIV-1	1						1		3	1					1	7	11	16	10
HTLV-1																0	0	0	0
Human Metapneumovirus	1	2	1				1		4	1	3	1	1	1		16	18	8	15
Influenza A virus	1	4	3	1			9		5	2	7	2		5	3	42	55	47	32
Influenza B virus	2	2					4				3	3	2	1		17	17	10	5
Legionella pneumophila (all serogroups)																0	0	0	2
Legionella species			1				1		1	2	1					6	4	6	13
Leptospira species	4								1			3				8	5	2	1
Measles virus																0	0	1	0
Mumps virus																0	0	1	2
Mycoplasma pneumoniae	1		1	1			2		1	1	5	3				15	11	20	9
Neisseria gonorrhoeae	15	2	1		1		7		5	5	16			1		53	47	44	51
Parainfluenza virus		9	3				6		6		14	2		1		41	78	44	28
Parvovirus	1	2	2	1			1				3		2			12	12	13	19
Pneumocystis carinii		1														1	1	3	4
Respiratory Syncytial virus	2	49	10	2	1	2	27		17	6	45	8	6	2		177	174	89	50
Rhinovirus (all types)	5	9	4				15		13	1	18	5	3	1	1	75	116	90	37
Rickettsia - Spotted Fever Group	2		1						1							4	4	5	3
Ross River virus	7	26	3	2	1		22		25	7	28	24	2	8	2	157	210	104	54
Rubella virus							1							1		2	1	0	0
Salmonella paratyphi A																0	0	0	0
Salmonella paratyphi B																0	0	0	0
Salmonella typhi														1		1	1	0	1
Streptococcus Group A	7	16	3			1	6		7	3	8	4	4	2		61	99	73	68
Toxoplasma gondii		1					1									2	1	2	0
Treponema pallidum	21	10	5	1	3		32	2	3	2	37	4	2	14		136	149	141	112
Trichomonas vaginalis	7				1		1		2							11	17	27	14
Varicella Zoster virus	12	17	13	7			38	1	25	7	56	23	2	5	5	211	205	220	194
TOTAL	202	434	155	56	11	6	439	5	255	105	730	241	93	134	54	2920	3407	3181	2772

REGIONS:

1 Cairns
2 Gold Coast/Northern Rivers
3 Ipswich

4 Mackay
5 Mount Isa
6 New England
7 North Brisbane Suburbs

8 Northern Territory
9 Redcliffe
10 Rockhampton
11 South Brisbane Suburbs

12 Sunshine Coast
13 Toowoomba
14 Townsville
15 Wide Bay/Burnett

MARCH 2012 AND FURTHER HISTORICAL CLINICAL DATA CAN BE OBTAINED BY CONTACTING YOUR LOCAL MEDICAL LIAISON OFFICER.

