

Table 1. Biannual summary of opportunistic mycoses and aerobic actinomycetes in New Zealand, January – June 2003

Organism	No. of cases	Site	Clinical data
Filamentous fungi			
<i>Absidia corymbifera</i>	1	Eye swab	DE not performed. Corneal degeneration post RTA. Also isolated with <i>F. solani</i> .
<i>Alternaria</i> species	1	Antral polyp aspirate	DE not performed. Rhinosinusitis.
<i>Aspergillus fumigatus</i>	5	BW (3)	DE+, CF, post lung transplant (1). DE+, CF patient with severe lung disease. Also isolated with <i>C. neoformans</i> (1). DE+, severe hyper IgE syndrome. Tx: amphotericin B (1).
		Sputum & bone marrow (1)	HIV+, both sites DE+. Died shortly after specimens collected. Bone marrow not cultured.
		Corneal scraping (1)	DE+, keratopathy, debrided, corneal ulcer post-debridement.
<i>Aspergillus flavus</i>	1	BW	DE-, ALL, neutropenic. Also isolated with <i>C. albicans</i> . Failed to respond to amphotericin B, then treated with voriconazole. Died.
Basidiomycete	1	CAPD	DE+, ESRF, repeatedly isolated.
<i>Cladophialophora bantiana</i>	1	Hand	DE+ with dematiaceous toruloid cells. Fell and grazed hand on curbing in Wellington.
<i>Exophiala jeanselmei</i>	1	Foot aspirate	DE+, NR.
<i>Fusarium</i> species	2	Leg wound (1)	DE+, conidia seen in Gram & PAS stains. Renal failure, on CAPD.
		Leg ulcer (1)	DE+, post RTA, poor vasculature. Repeatedly isolated.
<i>Fusarium solani</i>	2	Corneal scraping	DE-, NOS in Gram stain [didn't request specific fungal stain] (1). DE+, history herpetic keratitis, corneal ulcer. Tx: natamycin (1).
<i>Glomerella cingulata</i> Teleomorph of <i>Colletotrichum gloeosporioides</i>	1	Elbow	Abrasion to elbow from piece of wood. Repeatedly isolated.
<i>Histoplasma capsulatum</i> var <i>capsulatum</i>	1	Submental node FNA	DE 3+ small (~2.5µ) yeast cells seen. HIV+ admitted with fever, dyspnea, generalised lymphadenopathy & hepatosplenomegaly. Past travel to Philippines & Vanuatu.
<i>Neosartorya hiratsukae</i>	1	CAPD	DE+. ESRF, reisolated plus cultured from tenckhoff catheter tip. Identity confirmed with ITS regions sequencing (UAMH, Canada).
<i>Paecilomyces</i> species	1	Sputum	DE+, CF patient.
<i>Scedosporium apiospermum</i>	2	Finger (1)	Puncture wound whilst gardening, reisolated.
		Tracheal aspirate (1)	Hartman's procedure following perforated bowel. History Crohn's disease & diverticulitis. Intubated. Also isolated with <i>Trichosporon loubieri</i> .
<i>Scedosporium</i>	1	Nasal polyp	DE- (Gram stain only). Maxillary

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<i>prolificans</i>			sinusitis.
<i>Trichoderma harzianum</i>	1	CAPD	Isolated 4x, nephrotic syndrome.
Yeasts			
<i>Candida albicans</i>	27	Blood culture (18)	UTI, urine growing yeast & <i>E. faecalis</i> (1). Post-op (2). On TPN (2). Malignancy, deceased (1). ARF, on haemodialysis (1). Dermatomyositis (1). Ca bladder (1). Pancreatitis (1). Ca pancreas also isolated with <i>E. cloacae</i> (1). Pneumonia (1). CF (1), Perforated bowel (1). NR (4).
		Blood culture & heart valve (1)	IV drug abuser → valve replacement.
		Ascites fluid (1)	DE+, diabetic, NHL, deceased.
		Back biopsy (1)	Preterm infant, DE-.
		T12/L1 disc (1)	Discitis following sepsis with multiple organisms (including <i>C. albicans</i>).
		Corneal scraping (1)	NR.
		Humerus (1)	Infected humerus.
		Pus – various sites (1)	DE+, diffuse B cell lymphoma, also isolated with <i>Candida krusei</i> . Tx: voriconazole, discharged.
		Peritoneal fluid (2)	ESRF, on haemodialysis, peritonitis, <i>E. faecalis</i> , <i>E. coli</i> & <i>Citrobacter</i> species were isolated from other episodes (1). ICU patient, abdominal sepsis after hemicolectomy, abdominal sepsis (1).
<i>Candida dubliniensis</i>	1	Sputum	CF.
<i>Candida glabrata</i>	3	Blood	Hickman line, on long term TPN (1). Died, also isolated from 3 catheter urine samples (1). NR (1).
<i>Candida guilliermondii</i>	3	Blood (1)	Relapse ALL. Tx: fluconazole. Also isolated with <i>Candida lusitanae</i> .
		CAPD (2)	Diabetic, ESRF, also isolated from tenckhoff catheter tip (2).
<i>Candida krusei</i>	1	Blood	AML, died.
<i>Candida parapsilosis</i>	13	Blood (7)	On TPN following laparotomy (1). CF (1). Spina bifida ?line sepsis (1). Line sepsis (1). NR (3).
		Subcutaneous hand biopsy & pus x3 (1)	DE-, NR.
		CAPD (5)	ESRF (4). Diabetic, ESRF (1).
<i>Candida tropicalis</i>	5	Blood (3)	Haematology patient, died (1). Premature baby (1). Osteosarcoma with metastases, on multiple antibiotics & TPN. Tx: fluconazole (1).
		CAPD (2)	ESRF.
<i>Cryptococcus neoformans</i>	6	Blood & post mortem lung(1)	Leukaemic, deceased.
		BW (1)	Interstitial lung disease.
		Bone marrow (1)	HIV+, deceased.
		CSF (2)	SLE on immunosuppression. Tx:

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			Amphotericin B & fluconazole (1). Rheumatoid, high dose steroids (1).
		FNA neck mass (1)	SLE, previous Cryptococcosis 1996.
<i>Lodderomyces elongiosporus</i>	1	CAPD	DE+, ESRF, isolated 3x. Identified with 18S rDNA sequencing.
<i>Rhodotorula mucaliginosa</i> - formerly <i>R. rubra</i>	2	CAPD	ESRF.
<i>Pneumocystis jiroveci</i> (<i>carinii</i>)	8	Sputum (3)	Ca, now deceased (1). CLL (1). NR (1).
		Induced sputum (2)	SLE (1). NR (1)
		BW (3)	Renal transplant (1). Hodgkin's lymphoma, widespread pulmonary infiltrate (1). Post bone marrow transplant (1).
Aerobic Actinomycetes			
<i>Nocardia asteroides</i> complex	1	Psoas abscess (1)	DE+, disseminated nocardiosis. Tx: ceftriaxone & cotrimoxazole. Doing well.
<i>Nocardia brasiliensis</i>	1	Thumb	NR.
<i>Nocardia brevicatena</i>	1	Sputum	? <i>M. avium</i> lung disease.
<i>Nocardia cyriageorgica</i> - formerly <i>N. asteroides</i> type VI	3	Sputum & multiple cerebral abscesses	DE+, renal failure on dialysis & high dose prednisone. Tx: imipenem & cotrimoxazole.
		Sputum (2)	NR.
<i>Nocardia nova</i>	16	Sputum (9)	?TB, also isolated with MAIC (1). NR (8).
		BW (1)	Persistent cough with sputum & consolidation.
		Conjunctiva (1)	Explant <i>in-situ</i> .
		Pre-tibia tissue (1)	Chronic abscess, previous isolation 2001.
		Olecranon bursa abscess (1)	NR.
		Thumb aspirate (1)	Post-renal transplant, septic arthritis.
		Knee wound (1)	SLE, previously isolated from same site 2 years prior.
		Spine (1)	# T spine, internal fixation.
<i>Nocardia transvalensis</i>	1	BW	Bronchiectasis; previously isolated June 2000.
<i>Nocardia veterana</i>	1	Hand	Oncology patient, specimen collected at hospice prior to death. Identified with 16S rDNA sequencing.
<i>Gordona sputi</i>	1	Blood & catheter tip.	Sepsis, central line infection. Identity confirmed with 16S rDNA sequencing.

KEY:

ALL	Acute lymphoblastic leukaemia	ICU	Intensive care unit
AML	Acute myeloid leukaemia	MAIC	<i>Mycobacterium avium-intracellulare</i> complex
ARF	Acute renal failure	NHL	Non-Hodgkin's Lymphoma
BW	Bronchial washing	NOS	No organisms seen
Ca	Carcinoma	NR	Clinical data not received
CAPD	Continuous ambulatory peritoneal dialysis	PAS	Periodic Acid Schiff
CF	Cystic fibrosis	RTA	Road traffic accident
CLL	Chronic lymphoblastic leukaemia	SLE	Systemic lupus erythematosus
DE	Direct examination	TPN	Total parenteral nutrition
ESRF	End stage renal failure	Tx	Treatment
FNA	Fine needle aspirate	UTI	Urinary tract infection
HIV	Human immunodeficiency virus		

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