

Table 1. Biannual summary of opportunistic mycoses and aerobic actinomycetes in New Zealand, July-December 2003

Organism	No. of cases	Site	Clinical data
<b>Filamentous fungi</b>			
<i>Acremonium kiliense</i>	1	CAPD	Diabetes mellitus, ESRF.
<i>Aspergillus fumigatus</i>	4	Back (1)	DE+, myelodysplastic syndrome & immunocompromised, previously isolated August 2001 & treated with AmpB. Patient deceased.
		Bronchial washings (1)	DE+, oncology patient, brain tumour, on high dose steroids, also positive for <i>Pneumocystis</i> .
		Corneal scrape (1)	DE-, NHL.
		CT guided FNA – lung (1)	DE-, grew a light growth.
<i>Curvularia pallescens</i>	1	Maxillary crust & ethmoid polyp	DE+, NR.
<i>Exophiala jeanselmei</i>	1	Forearm aspirate & tissue	DE+, isolated 3x, immunosuppressed.
<i>Fusarium oxysporum</i>	1	Corneal scrape (1)	DE-, NR.
<i>Geotrichum capitatum</i> formerly <i>Blastoschizomyces capitatus</i>	1	Sputum	DE+ (arthroconidia, yeast cells & <i>Aspergillus</i> hyphae seen), also isolated with <i>Aspergillus fumigatus</i> & <i>Candida glabrata</i> . Oncology patient with LUL pneumonia. Isolated 3x.
<i>Mucor hiemalis</i>	1	Ear	DE+, NR.
<i>Paecilomyces variotii</i>	1	CAPD	DE-, isolated 2x, ESRF.
<i>Penicillium citrinum</i>	1	CAPD	DE+, isolated 4x & from Tenckhoff catheter tip. Identity confirmed by 18S sequencing.
<i>Schizophyllum commune</i>	1	Sinus material	DE+, NR.
<i>Scopulariopsis koningii</i>	1	Bronchial aspirate	DE+, CF, post-lung transplant. Multiple isolations.
<b>Yeasts</b>			
<i>Candida albicans</i>	27	Blood culture (20)	Febrile post-op following removal of staghorn calculus (1), febrile, ulcerative colitis (1), valve vegetation (1), SAH, post-op (1), CABG, post-op line infection (1), oesophageal obstruction due to old injury, thoracic injury during surgery, ICU stay (1), acute peritonitis & peritoneal adhesions, bladder surgery (1), trauma, head injury, subdural haemorrhage, ICU stay (1), abdominal absorption problems, TPN, multiple <i>Candida</i> infections previously, also isolated with <i>Candida glabrata</i> (1), post-abdominal surgery (1), premature baby, NICU patient (2), renal transplant (1), known carcinoma of prostate, urinary retention following CVA, catheterised (1), trauma, head injury, pneumonia, ARDS, ICU stay

Organism	No. of cases	Site	Clinical data
			(1), ?sepsis (1), PUO (1), CF, also isolated with <i>Candida parapsilosis</i> (1), NR (2)
		Abdominal aspirate & CAPD (1)	DE-, gastrointestinal haemorrhage.
		CAPD (2)	ESRF (1), DE-, diabetes, ESRF, deceased (1)
		Chest pus (2)	DE+, post-lung transplant (1), ALL, catheter <i>in-situ</i> , also isolated with <i>Citrobacter freundii</i> (1)
		Corneal scrape (2)	DE+, corneal ulcer (1), corneal keratitis (1).
<i>Candida glabrata</i>	3	Blood (1)	Bowel obstruction.
		CAPD (1)	ESRF.
		Pleural fluid (1)	DE+, adenocarcinoma oesophagus, CHD, hypercholesterolaemia.
<i>Candida guilliermondii</i>	1	CAPD	DE+, ESRF.
<i>Candida haemulonii</i>	1	CAPD	DE+, ESRF. Isolated 2x & also from Tenckhoff catheter tip.
<i>Candida lusitanae</i>	2	Blood	Renal patient (1), NR (1)
<i>Candida parapsilosis</i>	10	Blood (5)	Line sepsis (1), cystic fibrosis (1), cystic fibrosis, on steroids, also isolated from catheter tip (1), NR (2)
		CAPD (5)	Diabetes mellitus with ESRF (1), ESRF (4)
<i>Candida tropicalis</i>	7	Blood (5)	Previous breast Ca, post-treatment developed AML, neutropenic, febrile (1), pneumonia, deceased (1), IVDU (1), cystic fibrosis (1), febrile with confusion (1)
		Bone marrow (1)	NR.
		CAPD (1)	ESRF.
<i>Rhodotorula mucaliginosa</i> - formerly <i>R. rubra</i>	1	Blood	On TPN, CVL sepsis.
<i>Pneumocystis jirovecii</i> ( <i>carinii</i> )	10	Sputum (1)	Breast Ca, on steroids (1)
		Early morning sputum (1)	Brain tumour, on high dose steroids.
		Induced sputum (3)	HIV+ (2), significant risk factors, not HIV tested (1)
		BW (5)	HIV+ (1), CNS lymphoma, on high dose steroids (1), lymphoma, on steroids (1), renal transplant patient on methotrexate (1), CLL, BMT patient (1)
<b>Aerobic Actinomycetes</b>			
<i>Nocardia brasiliensis</i>	1	Index finger	Post spider bite
<i>Nocardia cyriageorgica</i> - formerly <i>N. asteroides</i> type VI	2	Sputum (1)	Bronchiectasis, isolated 2x
		Abdo incision line (1)	DE+, and re-isolated, post-op
<i>Nocardia farcinica</i>	2	Sputum	Productive cough, abnormality on CXR (1), NR (1)
<i>Nocardia nova</i>	6	Sputum (5)	Pneumonia, DE+ (1), CXR changes ?TB (1), NR (3)

<b>Organism</b>	<b>No. of cases</b>	<b>Site</b>	<b>Clinical data</b>
		Olecranon bursa abscess (1)	Bursitis
<i>Nocardia pseudovaccinii</i>	1	Hand pustule	NR, identified by 16S sequencing
<i>Gordona bronchialis</i>	1	Breast	Abscess

**KEY:**

ALL	Acute lymphoblastic leukaemia	CXR	Chest X-ray
AML	Acute myeloid leukaemia	DE	Direct examination
AmpB	Amphotericin B	ESRF	End stage renal failure
ARDS	Acute respiratory distress syndrome	FNA	Fine needle aspirate
BMT	Bone marrow transplant	HIV	Human immunodeficiency virus
BW	Bronchial washing	ICU	Intensive care unit
Ca	Carcinoma	IVDU	Intravenous drug user
CABG	Coronary artery bypass graft	LUL	Left upper lobe
CAPD	Continuous ambulatory peritoneal dialysis	NHL	Non-Hodgkin's Lymphoma
CF	Cystic fibrosis	NICU	Neonatal intensive care unit
CHD	Congenital heart disease	NR	Clinical data not received
CLL	Chronic lymphoblastic leukaemia	PUO	Pyrexia of unknown origin
CVA	Cardiovascular accident	SAH	Sub-arachnoid haemorrhage
CVL	Central venous line	TB	Tuberculosis
		TPN	Total parenteral nutrition

Collated by Karen Rogers, Mycology Reference Laboratory,  
Microbiology Department, LabPlus, Auckland Hospital.