Biannual summary of opportunistic mycoses and aerobic actinomycetes in New Zealand, January-June 2009

| | No. of | | |
|---|--------|---|---|
| Organism | cases | Site | Clinical data |
| Filamentous fungi | I | 1 | |
| Absidia corymbifera | 2 | Palm (1) | Crush injury, hand amputated & |
| | | | reattached. |
| | | BAL (1) | Neutropenic, BMTU patient. On |
| A spanaillus flauus | 1 | Frontal sinus | VOR prophylaxis. DE+. NR. |
| Aspergillus flavus Aspergillus fumigatus | 3 | Post mortem lung (1) | COPD patient with non-resolving |
| Aspergulus jumigulus | 5 | rost mortem rung (1) | pneumonia (2 months duration). No |
| | | | response to antibiotics, temperature |
| | | | resolved once VOR commenced. |
| | | | Post mortem necrotising pneumonia |
| | | | and fungus ball. |
| | | Middle meatus (2) | Possible fungal elements seen in |
| | | | Histology. NR (1), fungal sinusitis |
| | | | |
| Aspergillus niger | 1 | Frontal wound swab | DE+. Surgery in India for removal of |
| | | | meningioma. On anti-TB treatment. |
| Aspergillus species | 1 | Sinus | Rx AmB changed to VOR.DE+, on steroids & antibiotics. |
| Dactylaria gallopava | 1 | CAPD | DE+, previous heart transplant, renal |
| Duciyiana Sunopuva | 1 | | failure. Rx VOR (2 weeks). |
| Fonsecaea pedrosoi | 1 | Lower leg | Chromoblastomycosis. |
| Fusarium solani | 1 | Toe swab | BMTU patient, neutropenic. |
| Fusarium species | 1 | Cornea | Got piece of dust in whilst in Tonga. |
| | | | Developed acutely red, painful eye. |
| | | | Started on chloramphenicol with no |
| D 11 1 1 | | | improvement. Rx Pimaracin. |
| Paecilomyces variotii | 1 | Bronchial lavage & | DE+, ICU patient with respiratory failure. Deceased. |
| Scedosporium species | 1 | tracheal aspirate Elbow bursa aspirate | Past infection with Scedosporium. Rx |
| sceuosportum species | 1 | LIDOW DUISa aspirate | ITR. |
| Schizophyllum commune | 1 | Occipital lobe | Fungal mycetoma. Surgical excision. |
| | | - | Completed three months VOR then |
| | | | changed to oral FCZ. Chronic |
| | | | nodular lung disease probably |
| | | | bronchocentric granulomatosis and 2° |
| | | | bronchiectasis. Schizophyllum |
| | | | infection possibly contributing to this. |
| | I | I | uib. |
| Yeasts | 1 | | |
| Candida albicans | 37 | Blood culture (29) | Prostate adenocarcinoma, post-op |
| | | | bowel ileus, line <i>in-situ</i> (1), |
| | | | haemophilic, line sepsis (1), on |
| | | | methadone programme, isolated with <i>Lactobacillus</i> spp (1), ureteric |
| | | | tumour (1), post-op aortic arch repair |
| | | | (1), ruptured aorto-iliac aneurysm, |
| | | | bilateral leg thrombecytomy (1), |
| | | | kidney abscess, also isolated from |
| | | | urine (1), perforated diverticulum, |
| | | | patient deceased (1), Cardiology |
| | | | patient (2), surgical patient (1), |

| A | No. of | G *4 | |
|------------------------|--------|---------------------------|---|
| Organism | cases | Site | Clinical data |
| | | | pancreatitis (1), bowel obstruction |
| | | | (1), ESRF on haemodialysis (1), |
| | | | PUO (2), sepsis, endocarditis (2), |
| | | | febrile, line in-situ (2), NR, also |
| | | | isolated from RUQ abdominal wound |
| | | | swab and CVL tip (1), sepsis (1), |
| | | | pneumonia, multi-organ failure (1), |
| | | | MVA, ventilated (1), pulmonary |
| | | | oedema, ARF (1), feeding |
| | | | gastrostomy & fundoplication; bi- |
| | | | |
| | | | basal bronchiectasis 2° to aspiration. |
| | - | | Rx FCZ (1), NR (3) |
| | | CAPD (4) | ESRF on CAPD, also isolated with |
| | | | mixed Gram negative bacilli (1), |
| | | | ESRF on CAPD (3) |
| | | Corneal scraping (1) | Post corneal transplant. Perforated |
| | | | cornea. |
| | | Hip joint aspirate (1) | Revision THJR 2° to <i>C. albicans</i> |
| | | | infection. Long term antifungal |
| | | | prophylaxis |
| | | Vnac agnirata (1) | Post TKJR. |
| | | Knee aspirate (1) | |
| | | Knee & elbow aspirate (1) | Myeloproliferative disorder. |
| Candida dubliniensis | 1 | Blood | On TPN. |
| | 1 | CAPD | |
| Candida famata | - | | ESRF, peritonitis, deceased. |
| Candida glabrata | 6 | Blood (3) | Colon Ca, recent chemotherapy (1), |
| | | | multiple bowel fistulas, deceased (1), |
| | | | HIV+. Rx AmB (1) |
| | | Liver pus (2) | DE+, also isolated with <i>E. faecalis</i> |
| | | | (1), NR (1) |
| | | CAPD (1) | ESRF on CAPD. |
| Candida guilliermondii | 1 | Blood | NR. |
| Candida parapsilosis | 20 | Blood (8) | Subdural abscess, line sepsis. Rx |
| | | | FCZ & line removal (1), CF patient |
| | | | with line sepsis (1), premature baby |
| | | | (1), premature rupture of the |
| | | | |
| | | | membranes (1), on haemodialysis |
| | | | (1), NR (3) |
| | | CAPD (6) | SLE, ESRF (1), ESRF on CAPD; |
| | | | also isolated with Ps. aeruginosa. |
| | | | Tenchkoff catheter removed (1), |
| | | | ESRF on CAPD (4). |
| | | Elbow aspirate (1) | NR. |
| | | Hip aspirate (2) | DE-ve, NR. |
| | | Knee aspirate (1) | Joint infection. Rx FCZ. |
| | | Breast capsule biopsy | Infected implant. |
| | | 1 I V | meeteu mipiant. |
| | | (1) | |
| | | Vitreous aspirate (1) | Previous isolation after perforation o |
| | | | eye with #8 fencing wire. Previous |
| | | | treatment with AmB, then VOR and |
| | | | then FCZ. FCZ stopped & steroids |
| | | | increased. Eye deteriorated and re- |
| | | | isolated. Rx intravitreal VOR. |
| Candida tropicalis | 3 | Blood (2) | Febrile (1), NR (1) |
| * | | CAPD (1) | ESRF, peritonitis. |
| Cryptococcus | 3 | Blood (2) | Awaiting liver transplant, also |
| | | | |

| <u> </u> | No. of | | |
|--------------------------|--------|---------------------------|---|
| Organism | cases | Site | Clinical data |
| | | | bacillus (ESBL producer), patient |
| | | | deceased (1), HIV+ (1) |
| | | Face biopsy & bone | DE+. CLL. Facial nodules. |
| | | marrow (1) | Cryptococcal LA = 1:4096. |
| Exophiala dermatidis | 1 | Sputum | DE+ (large nos. of yeast cells seen), CF. |
| Pneumocystis jiroveci | 10 | BW/BAL (6) | HIV+ (3), CLL; also isolated with |
| (carinii) | | | Nocardia cyriacigeorgica (1), NR (2) |
| | | Sputum/Induced sputum (9) | Immunosuppressed (1), HIV+ (4), Oncology patient (1), CORD (1), Ca sigmoid (1), NR (1) |
| Aerobic Actinomycetes | | | |
| Gordonia terrae | 1 | Foot tissue | Mycetoma with discharging multiple sinuses. DE+. Also isolated with <i>Rhodococcus</i> species. |
| Nocardia asteroides | 2 | Sputum (1) | Chest infection. Heavy predominant |
| complex | 2 | Spatam (1) | growth. |
| complex | | BW (1) | NR. |
| Nocardia brasiliensis | 1 | Shin | DE+. NR. |
| Nocardia | 1 | BAL | CLL; also <i>Pneumocystis</i> positive. |
| cyriacigeorgica | 1 | DAL | CEE, also i neumocysus positive. |
| Nocardia farcinica | 1 | Blood | Presumed lung Ca. Rx. COT. |
| Nocardia farcinica | 1 | Brain abscess | DE+(3+). Presented initially with |
| - most closely resembles | 1 | Brain abseess | focal seizures. Brain MRI scan: left |
| | | | frontal enhancing lesion. Subsequent |
| | | | deterioration with development of |
| | | | refractory partial seizures and |
| | | | became aphasic with a right sided |
| | | | hemiparesis. On serial imaging the |
| | | | left frontal lesion demonstrated rim |
| | | | enhancement and marked increase in |
| | | | |
| N7 1. | (| | vasogenic oedema. |
| Nocardia nova | 6 | Knee abscess (1) | Twist injury. Anterior lateral |
| | | DW | cellulitis. |
| | | BW | RUL mass opacity on CT & CXR. |
| | | Sputum (3) | History pulmonary fibrosis; also |
| | | | isolated with <i>Mycobacterium avium</i> |
| | | | (1), NR (2). |
| Nocardia paucivorans | 1 | Lung FNA | DE+, chest x-ray ?Ca. |
| Nocardia species | 1 | Leg swab | Renal impairment. Fell down drain in street and grazed leg. Developed cellulitis. Rx. COT. |

| KEY: | | | |
|------|---|------|------------------------------|
| AmB | Amphotericin B | ESRF | End stage renal failure |
| ARF | Acute renal failure | FCZ | Fluconazole |
| BAL | Bronchoalveolar lavage | FNA | Fine needle aspirate |
| BMTU | Bone Marrow Transplant Unit | HIV | Human immunodeficiency virus |
| BW | Bronchial washing | ICU | Intensive care unit |
| Ca | Carcinoma | LA | Latex agglutination |
| CAPD | Continuous ambulatory peritoneal | MRI | Magnetic resonance image |
| | dialysis | MVA | Motor vehicle accident |
| CAS | Caspofungin | NR | Clinical data not received |
| CF | Cystic fibrosis | PUO | Pyrexia of unknown origin |
| CLL | Chronic lymphoblastic leukaemia | RUL | Right upper lobe |
| COPD | Chronic obstructive pulmonary disease | Rx | Treatment |
| CORD | Chronic obstructive respiratory disease | SLE | Systemic lupus erythematosus |
| COT | Cotrimoxazole | Tb | Tuberculosis |
| СТ | Computerised tomography | THJR | Total hip joint replacement |
| CXR | Chest x-ray | TKJR | Total knee joint replacement |
| DE | Direct examination | TPN | Total parenteral nutrition |
| ESBL | Extended spectrum β-lactamase | VOR | Voriconazole |

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