



Infectious Disease Unit

Hippokration Hospital of Thessaloniki

3rd Dept of Pediatrics, Aristotle University, Thessaloniki, Greece



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Hippokration Hospital of Thessaloniki

Tertiary care, teaching hospital of 970 beds

-Adult medical, surgical departments & ICUs

-Solid organ transplantation unit

-Pediatric departments, Neonatal and Pediatric ICUs

Covers the greater Thessaloniki area and accepts referrals from Northern & part of Central Greece



Infectious Diseases Unit

- Funded in 1996 in Hippokration Hospital
- Clinical, research & training activities
- Currently staffed by infectious diseases specialists, PhD research scientists, infectious disease & postdoctoral fellows, PhD students, lab technicians and infectious disease nurses
- Director: Prof. E. Roilides, MD, PhD

-Inpatients requiring ID consultation at all departments of Hippokration Hospital, including adult ICU, solid organ transplantation, and Pediatric and Neonatal ICUs

-Outpatient clinics, focusing on tuberculosis, HIV, congenital infections (follow up of both pregnant women and neonates) and infections in patients with primary immunodeficiencies

-Monitoring bacterial resistance rates in all departments of Hippokration Hospital (including KPC, MBL – producing strains, VRE and MRSA)

-Active Surveillance Programme for carbapenem resistant bacteria in adult and Pediatric ICU

-Monitoring invasive fungal infections

-Outbreak investigation

-Infection control

-Active surveillance of antimicrobial use with intervention

-Training in diagnosis / management of ID problems in adult and children as well as infection control and ID – related research activities in: medical students, infectious disease fellows, residents, PhD students & postdoctoral fellows

-Scheduled educational activities at hospital, regional and national level (weekly, monthly, annually)

-International activities ESCMID workshop on fungal infections (2009)

Activities

Clinical service

Research

Infection Control - Hosp. Epidemiology
Antibiotic stewardship

Training

Host defences / immunomodulation in filamentous fungal infections

-Differential transcriptional profiles induced by amphotericin B formulations on human monocytes during response to hyphae of *Aspergillus fumigatus*. Simitsopoulou M et al. Med Mycol. 2011 Feb;49:176-85.

-Antifungal activity of posaconazole and granulocyte colony-stimulating factor in the treatment of disseminated zygomycosis (mucormycosis) in a neutropaenic murine model. Saoulidis S et al. Mycoses. 2010 Oct 29.

-Immunomodulatory effects of voriconazole on monocytes challenged with *Aspergillus fumigatus*: differential role of Toll-like receptors. Simitsopoulou M, et al. Antimicrob Agents Chemother. 2008 Sep;52:3301-6.

Fungal Biofilms

-Activities of Triazole-Echinocandin Combinations against *Candida* Species in Biofilms and as Planktonic Cells. Chatzimoschou A et al. Antimicrob Agents Chemother. 2011 May;55:1968-74.

-Additive antifungal activity of anidulafungin and human neutrophils against *Candida parapsilosis* biofilms. Katragkou A et al. Antimicrob Chemother. 2011 Mar;66:588-91.

-Interactions between human phagocytes and *Candida albicans* biofilms alone and in combination with antifungal agents. Katragkou A et al. J Infect Dis. 2010 Jun 15;201:1941-9.

Bacterial resistance in nosocomial infections

-Bloodstream infections caused by metallo- β -lactamase/ *Klebsiella pneumoniae* Carbapenemase-producing *K. pneumoniae* among intensive care unit patients in Greece: risk factors for infection and impact of type of resistance on outcomes. Mouloudi E, et al. Infect Control Hosp Epidemiol. 2010 Dec;31:1250-6.

-A 5-year epidemiological study of nosocomial bloodstream infections in a neurosurgery department. Tsitsopoulos PP, et al. Infect Control Hosp Epidemiol. 2010 Apr;31:414-7.

-Differential correlation between rates of antimicrobial drug consumption and prevalence of antimicrobial resistance in a tertiary care hospital in Greece. Iosifidis E, et al. Infect Control Hosp Epidemiol. 2008 Jul;29:615-22.

Newer antimicrobial agents

-Serum and cerebrospinal fluid levels of colistin in pediatric patients. Antachopoulos C et al. Antimicrob Agents Chemother. 2010 Sep;54:3985-7.

-Colistin administration to pediatric and neonatal patients. Iosifidis E, et al. Eur J Pediatr. 2010 Jul;169:867-74.

-Serum levels of daptomycin in pediatric patients. Antachopoulos C et al. Infection. 2012 Aug; 40:367-71.