



# Infectious Disease Unit

## Hippokration Hospital of Thessaloniki

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**Hippokration Hospital of Thessaloniki**  
 Tertiary care, teaching hospital of 800 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 ESBL, AmpC, CRE, 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

International Collaborations

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- $\beta$ -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.

International Pediatric Fungal Network  
Penta ID network