

ESPID RESEARCH MASTERCLASS 2015

Abstract book

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ERMC 2015 Program

8.15-8.30	Coffee
8.30-8.40	Welcome and group presentation Pierre Smeesters
,	Session I: Immunology (8.40-10.00) Chairs: Navin Boeddha and Adilia Warris
8.40-9.00	The influence of age, gender and nutritional status on the cytokine-response in children Marie-Luise Summerer $et\ al$.
9.00-9.20	A novel PIFA1 mutation underlying familial invasive meningococcal diseases Bayarchimeg Mashbat $et\ al.$
9.20-9.40	To analyse the anti-viral IFN- α JAK/STAT pathway in HCV infected children Julie Lucey et al.
9.40-10.00	Innate antifungal mechanisms of Cystic Fibrosis phagocytes. Shan Brunel <i>et al</i> .
10.00-10.30	Coffee Break
	Session II: Medical Microbiology (10.30-11.50) Chairs: Stefanie Henriet and Tobias Tenenbaum
10.30-10.50	Diagnosis of congenital CMV beyond the neonatal period: what then? Teresa del Rosal <i>et al</i> .
10.50-11.10	European Childhood Life-threatening Infectious Disease Study — Challenges and first results Daniela Klobassa <i>et al.</i>
11.10-11.30	Virologic failure among children taking Lopinavir/Ritonavir – containing HAART in Ecuador Luis Guerra <i>et al</i> .
11.30-11.50	Antimicrobial susceptibility of toxigenic <i>Corynebacterium Diphteria</i> in east Java, Indonesia Dwiyanti Puspitasari <i>et al</i> .
11.50-12.25	Keynote lecture "How to write a scientific abstract? An interactive writing seminar" Ron Dagan Chairs: Ana Brett & Pierre Smeesters
12.25-13.50	Lunch

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	Session III: New diagnostics and treatment (13.50-15.30)
	Chairs: Alexa Dierig and Pablo Rojo
13.50-14.10	Evaluation of biomarkers for Alzheimer's disease in cerebrospinal fluid among children with enteroviral meningitis Artur Sulik et al.
14.10-14.30	CARPE DIEM: How we seized the day! Lilliam Ambroggio <i>et al</i> .
14.30-14.50	Experimental Aspergillus nidulans infection in Chronic Granulomatous Disease mice Jill King et al.
14.50-15.10	Newborn screening of severe primary immunodeficiencies Peter Olbrich et al.
15.10-15.30	New perspectives in management of recurrent <i>Clostridium difficile</i> colitis in the pediatric population
9	Sabina Schiopu et al.
15.30-16.00	Coffee Break
	Session IV: Vaccine (16.00-17.20) Chairs: Luis Escosa-García and Ron Dagan
16.00-16.20	Immunogenicity and immunological memory induced by pneumococcal conjugate and plain polysaccharide vaccine in perinatally HIV infected subjects" Evi Farmaki <i>et al</i> .
16.20-16.40	Invasive pneumococcal disease in Brazilian children: a fifteen-year hospital-based surveillance study - pcv10 impact and serotypes distribution Daniel Jarovsky <i>et al.</i>
16.40-17.00	Development of pneumococcal surface proteins for vaccine studies and serodiagnosis Marta Benavides <i>et al</i> .
17.00-17.20	Evaluation of immunogenicity and protective efficacy of selected immunodominant B-cell epitopes within virulent surface proteins of S. Pneumoniae, in a mouse model
	forpneumococcal sepsis. Theodora Papastamatiou <i>et al</i> .
17.20-17.3	O Closing remark Adilia Warris

BACTERIAL PROFILE AND ANTIMICROBIAL SUSCEPTIBILITY PATTERN OF NEONATAL SEPSIS IN DR KANUJOSO DJATIWIBOWO HOSPITAL BALIKPAPAN IN 2012-2013

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BACKGROUND

- Neonatal sepsis is the highest contributor to neonatal death.
- Antimicrobial therapy should be chosen based on maternal history, bacterial profile, and antimicrobial susceptibility pattern in each NICU.

OBJECTIVE

To determine bacterial profile and antimicrobial susceptibility pattern in NICU dr. Kanujoso Djatiwibowo Hospital, Balikpapan, Indonesia

MATERIALS AND METHODS

- Descriptive observational study
- Neonatal sepsis patients with positive blood cultures
- January 1st 2012 to December 31st 2013.
- The data from medical records.

RESULTS

- 125 cases of neonatal sepsis (positive culture)
- Predominantly male (56,8%).
- Late onset sepsis in 64,8% of cases.
- T he leading cause: Gram-negative bacteria.
- Isolated bacterial pathogens were predominantly Serratia sp, Staphylococcus sp and Acinetobacter baumannii.
- Most of the gram-negative bacteria still have high susceptibility to Meropenem, except Acinetobacter baumannii.
- Staphylococcus sp has low susceptibility to first, second and third line antibiotics, but it has high susceptibility to Amikacin.
- In general, the bacterial pathogens have the highest susceptibility to Meropenem and the lowest susceptibility to Penicillins.

CONCLUSION

Serratia sp, Staphylococcus sp and Acinetobacter baumannii are the predominant bacterial pathogens. Most gram-negative bacteria, except Acinetobacter baumannii, have high susceptibility to Meropenem,. The bacterial pathogens have the highest susceptibility to Meropenem and the lowest susceptibility to Penicillins.