Conclusion In order to identify more rapidly a wide variety of mycobacteria, the PCR-restriction fragment length polymorphism analysis of ksp65 procedure was applied. The FRA test among NTM isolates indicated that the most frequent mycobacterial strains were M. kansasii, M. gordonae III, M. marinum, M. chelonae, M. scrofulaceum and M. gastri. Our results showed that this method in comparison with classical methods is rapid and accurate enough for the identification of mycobacterial species from LJ culture isolates.

273 MOLECULAR CHARACTERISTICS OF METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS ISOLATED FROM CHINESE CHILDREN

X Shen, Y Liu. Beijing Children's Hospital, Capital Medical University, Beijing, China

Objective The present study aimed to investigate the molecular characteristics of methicillin-resistant Staphylococcus aureus (MRSA) isolates from Chinese children in seven cities.

Method A total of 134 MRSA isolates were collected from eight hospitals. Multilocus sequence (MLST), staphylococcal chromosomal cassette mec (SCCmec) and spa typing were analyzed. The Panton-Valentine leukocidin (pvl) gene was also detected.

Results Overall, 16 sequence types (STs) were obtained, and CC59 (51.7%) was found to be the most prevalent, which included ST59 and ST338, followed by ST239 (16.4%). SCCmec type II, III, IV and V were identified in this study. SCCmec type IV was the most predominant type at 50.0%, followed by SCCmec type V at 29.3% and III at 25.9%. SCCmec subtypes IVa, IVc, and IVg were found among the SCCmec type IV strains, IVa was the main subtype at 77.6%. Twenty-six spa types were also identified, the predominant type was t457 (47.8%). The prevalence of pvl genes and the SCCmec type of the strain were relevant; the pvl gene positive rate was higher in SCCmecIV and V-type strains than in SCCmecII and III-type strains (58.6% vs. 14.3%, P<0.05); there was a significant difference between them. In the strains isolated from pneumonia and SSTIs, ST59-MRSA-Iva (t457) was the predominant clone.

Conclusion The results indicate that MRSA isolates in Chinese children are largely associated with the ST59-MRSA-IV (t457) and ST259-MRSA-III (t037) clone.

274 COLONIZATION OF METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS WITH HIGH-LEVEL RESISTANCE TO MUPIROCIN IN KOREAN CHILDREN

JH Lee, SJ Kim, J Lee, HS Lee, SY Kim, IK Sung. Department of Pediatrics, The Catholic University of Korea, Seoul, Republic of Korea

Increased mupirocin use has been considered as a major cause to develop mupirocin resistance among MRSA isolates. High-level mupirocin resistance (HLMR) is associated with decolonization failure, but fortunately most MRSA have shown low-level mupirocin resistance (LLMR). Recently, we became aware of markedly high mupirocin resistance (HLMR) and adult patients had 80 LLMR isolates were detected by polymerase chain reactions.

Failure, but fortunately most MRSA have showed low-level mupirocin resistance (HLMR) is associated with decolonization. Increased mupirocin use has been considered as a major cause to SSTIs, ST59-MRSA-Iva (t437) was the predominant clone.

275 EPIDEMIOLOGY OF POLIOMYELITIS AND MANAGEMENT OF ACUTE ASCENDING FLACCID PARALYSIS (AAFP) IN PAEDIATRIC INTENSIVE CARE UNIT (PICU) IN ALGERIA

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Background and Aims As part of the implementation of National plan for the eradication of poliomyelitis, disease surveillance and management of cases of AAFP are key strategies of this program.

The aim is participation in the national program for poliomyelitis, eradication and to determine the efficacy of intravenous immunoglobulin (IG) for treatment of AAFP.

Methods From September 1994 to February 2012, 176 cases of AAFP were identified and supported in our PICU. Since January 2008, 25 children were treated by IG. The parameter studied were: age, gender, autonomic disorders, albuminocytologic dissociation of CSF after lumbar puncture, artificial ventilation, average time of stay, and mortality.

Results In this series, no case of poliomyelitis has been diagnosed by the Pasteur Institute of Algeria. Since 2008, use of IG seems to improve the mortality. 85%in the overall series (n = 176) vs 4% in the group treated with immunoglobulins (n = 25). All deaths are related to the existence of severe neurovegetative disorders. The need in ventilation and the duration of stay does not appear to be influenced by the use of the “IG”.

Conclusion The eradication of poliomyelitis is a national goal to declare the Algeria zone free of polio by the WHO.

276 INFANT MORTALITY FROM INFECTION OVER 2 DECADES: LESS GBS AND MENINGOCOCCUS, BUT DOUBLING OF DEATHS IN VERY PRETERM INFANTS

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Background Infection is an important cause of neonatal/infant mortality. Antenatal care, neonatal intensive care and immunisation practices affect infectious mortality, but no good data show how these deaths have changed over time. Understanding this will help direct future medical priorities.

Objective To evaluate changes in neonatal/infant mortality from infection over 2 decades (1992–2008) in a geographical population.

Design and Methods We used a population database (Pernatal Mortality Survey, Northern region UK) and reviewed infant deaths coded as infection. Proportional contribution to deaths, pathogens identified and risk factors were analysed. To demonstrate changes over time, three 7-year epochs were created.

Results 625 deaths from infection were identified. Absolute numbers of deaths fell with time but the proportion from infection increased. Significantly preterm infants were increasingly represented in successive epochs.
Abstract 276 Table 1

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Abstract 276 Figure 1

Conclusions Despite better care and immunisations, the proportion of infant mortality from infections has increased. Term infants have benefited from changes in management but preterm infants have not, and deserve urgent prioritisation.

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