Abstract P260 Table 1 Results by CURB score

Score	<1/ 16	1/ 16	1/ 32	1/64 (+ve)	1/128 (+ve)	Not detected (in urine)	Detected (in urine)	No result or comment	Total
CURB 0	65	5	5	0	0	17	0	12	104
CURB 1	57	5	5	1	0	19	0	9	96
CURB 2	72	13	2	0	0	20	0	13	120
CURB 3	62	12	3	0	0	15	0	11	103
CURB 4	14	0	2	0	0	5	0	3	24
CURB 5	3	0	0	0	0	0	0	0	3
Not recorded	305	49	15	2	1	86	1	61	520
Not in database	14	3	0	0	0	2	0	2	21
TOTAL	592	87	32	3	1	164	1	111	991

P261 DEVELOPMENT OF AN EXTENDED SPECIFICITY MULTIPLEX IMMUNOASSAY USING HUMAN MONOCLONAL ANTIBODIES FOR DETECTION OF STREPTOCOCCUS PNEUMONIAE SEROTYPE-SPECIFIC ANTIGEN IN URINE

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Streptococcus pneumoniae (pneumococcus) is a major cause of morbidity and mortality worldwide. To date 93 capsular serotypes of pneumococcus have been described, but many of these are rarely found in disease. Currently vaccines are targeted at between 7 and 23 of the most common circulating serotypes. However, with the uptake of any pneumococcal serotype based vaccine the risk of serotype-replacement and an increase in disease caused by non-vaccine serotypes remains. This highlights the importance of determination of the serotype responsible for the infection.

The diagnosis and subsequent serotype surveillance of pneumococcal infection relies heavily on culture techniques which are known to be insensitive, particularly in cases of non-invasive disease. There are, therefore, potentially many pneumococcal disease cases where an isolate for serotyping is never obtained. Urine antigen detection using methods such as BinaxNOW (Alere) can be used to confirm pneumococcal infection in the absence of an isolate, but does not give serotype information.

Previously described serotype-specific urine assays covering mainly conjugate vaccine serotypes, give no/very little information about circulating non-vaccine serotypes and are currently only available in one or two specialist laboratories.

Our laboratory has just completed initial development of an extended range antigen capture Luminex based assay to detect *S. pneumoniae* serotype specific antigen in urine samples using fully human human, full length monoclonal antibodies. The assay covers 24 different serotypes/groups plus C-polysaccharide, including all the currently available conjugate vaccine and 23-valent polysaccharide vaccine types plus some cross-reactive serotypes.

We have validated the assay for sensitivity, specificity and reproducibility using spiked urine samples and a panel of BinaxNOW tested clinical urine specimens, some of which were from

patients from whom a pneumococcal isolate was also cultured. The results for the validation will be presented.

This assay can be extended to testing other clinical samples such as cerebrospinal and pleural fluids and with development has the potential to greatly improve serotype-specific surveillance in the many cases of pneumococcal disease from which a culture is never obtained.

P262 THE RELATIONSHIP BETWEEN PENETRATION OR ASPIRATION OF ORAL INTAKE AND CHEST INFECTIONS IN ATAXIA TELANGIECTASIA PATIENTS

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Introduction and objectives As part of the care of Ataxia Telangiectasia Patients, a baseline swallow profile is obtained using a videofluoroscopy. It was observed that penetration or aspiration of oral intake did not appear to have a direct link to chest infections in these patients. The authors conducted a pilot study, analysing retrospective data to explore this observation further.

Methods All variant AT patients who attended a multi-disciplinary (MDT) annual review appointment between 01/2013–11/2015 and underwent a videofluoroscopy were included. The patient was ranked on the Penetration Aspiration Score (PAS) from the videofluoroscopy. Retrospective data of the frequency of chest infections requiring treatment with antibiotics in the last 12 months was collected from the annual assessment reports in the medical notes.

Initially, 37 patients were included, this was reduced to 30 as 7 videofluoroscopies were not sufficient for calculating the swallow trigger delay. Data was analysed using excel and xlstat (standard descriptive tests and Spearman's) to evaluate any correlation between aspiration or penetration and number of chest infections.

Results With a confidence interval of 95%, there was a negative correlation of rs 0.079 (p-value < 0.0001) indicating a very weak correlation. The number of chest infections data was significantly skewed at a result of 2.643. This may be due to the small sample size.

Conclusions This data suggests there is no correlation between aspiration or penetration and the chest infections experienced by AT Patients. However, this was a small sample due to the rarity of the genetic disorder. A larger sample either through increased length of time that the data is collected or an international study could help provide greater insights into the correlation between aspiration or penetration of oral intake and the number of chest infections experienced.

REFERENCE

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P263 DOES THE USE OF LACTATE IMPROVE THE CURB-65 SCORE IN COMMUNITY ACQUIRED PNEUMONIA PATIENTS ADMITTED TO A DISTRICT GENERAL HOSPITAL?

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