performed on 16/21 samples. 63% (n=10) were culture positive. 4/6 culture negative samples that were sent for histopathology also demonstrated granulomas. The combined yield of fluid and biopsy culture in addition to fluid PCR was 57% in our cohort increasing to 65% when histology is included. 4 patients had a positive culture or PCR from another site. 15/51 (29%) of patients were treated empirically without positive TB cultures, positive TB PCR results, or granulomas on biopsy.

Conclusions This analysis demonstrates that the characteristics of our cohort are similar to previously reported cohorts; that TB PCR of pleural fluid has provided some diagnostic benefits, but that there remains diagnostic uncertainty in a significant proportion of patients. New tools are required to improve diagnostic accuracy of this difficult disease and we propose that NICE-approved analysis of fluid for adenosine deaminase may be a useful additional investigation for this patient group.

P6 OCULAR TUBERCULOSIS: A SURVEY OF UK CLINICAL PRACTICE

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Background Ophthalmic manifestations of tuberculosis (TB) are described as inflammatory events in one or both eyes involving the uvea, optic nerve or orbit. The diagnosis is almost always presumptive as mycobacterium are rarely cultured from ocular/periocular tissues. Ocular TB is rare in the developed world and there is a general lack of consensus regarding diagnosis and treatment duration. We surveyed UK specialists involved in the diagnosis and treatment of tuberculous uveitis to examine current clinical practice.

Method A previously validated survey based on two clinical cases (one more likely to have TB, one less likely to have TB) was used to examine diagnostic and treatment practices amongst consultants from three different specialities across different institutions in the UK: ophthalmologists with an interest in uveitis, respiratory, and infectious disease (ID) physicians with a TB interest.

Results Ten ophthalmologists, 24 ID and 29 respiratory physicians completed the survey. Responses varied greatly within the same specialty as well as between different specialities. For example, in a patient with chronic granulomatous panuveitis and a known TB risk factor, the pre-test likelihood of having ocular TB varied significantly within the groups: ophthalmologists (range 5%–95%), respiratory (range 20%–99%), ID (range 9%–90%). Similarly, for the same scenario, there was disagreement in the optimal duration of treatment. Whilst the majority of clinicians would treat for 6 months, 17 clinicians (24%) – ophthalmologists [3], respiratory [5], ID [9] – would treat for longer than 6 months. All 10 ophthalmologists (100%) would defer antibiotic treatment decisions to a TB specialist rather than initiate treatment themselves. All ID and respiratory physicians would screen for HIV if ocular TB was suspected, whereas only 6 (60%) of ophthalmologists would.

Conclusion Diagnosis of ocular TB is challenging due to lack of a gold standard test. Expert consensus is therefore important to ensure the right patients are treated appropriately. This is the first multidisciplinary survey within the UK capturing a

spectrum of opinions regarding ocular TB. The Results highlight a lack of consensus both within and between different specialties in the field. An open dialogue between relevant stakeholders is key to harmonising diagnostic and treatment strategies.

P7 TUBERCULOSIS IN DIFFERENTIAL DIAGNOSIS OF INTRATHORACIC LYMPHADENOPATHY IN A ENDEMIC COUNTRY – IS EBUS-TBNA A USEFUL TOOL?

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Background Tuberculosis (TB) remains a global public health concern.¹ It is one of intrathoracic lymphadenopathy (ITLN) numerous causes and must be taken into account in differential diagnosis, especially in endemic countries.² Diagnostic yield of EBUS-TBNA for mediastinal and hilar TB has been reported to be 80%.²

Aim To determine the prevalence of TB in patients with ITLN undergoing EBUS-TBNA and calculate diagnostic yield.

Methods Retrospective study of all patients undergoing EBUS-TBNA for ITLN, from August/2011 to March/2017. Clinical, laboratorial, histopathological and radiological data were assessed. We considered for diagnosis by EBUS-TBNA all cases with TB confirmed and granulomatous lymph node with TB confirmation by other methods.

Results 186 patients were included, mean age of 57 years (SD=14), 53.8% male. Granulomatous disease was diagnosed in 29% (n=54), 42.6% (n=23) with cancer diagnosis or suspicion at the time of procedure. Sarcoidosis was diagnosed in 15.6% (n=29), mycobacteriosis in 9.7% (n=18), fungal infection in 2.7% (n=5) and other granulomatosis in 1% (n=2). Mycobacteriosis was due to *M.tuberculosis* in 88.9% (n=16), *M.kansasii* in 5.55% (n=1) and *M.avium* in 5.55% (n=1). EBUS-TBNA established the diagnosis in 56.3% (n=9) of TB cases: 25% (n=4) caseous granuloma in cell block, 18.8% (n=3) positive acid-fast bacilli (AFB) and 12.5% (n=2) *M. Tuberculosis* in aspirated sample culture. In 37.5% (n=6) cell block from EBUS-TBNA showed granulomas but definite diagnosis was made by presence of caseous granuloma in biopsy (12.5%, n=2) or positive AFB (6.25%, n=1) in other organs, positive PCR of bronchoalveolar lavage in 6.25% (n=1) or pleural fluid in 6.25% (n=1), and sputum culture in 6.25% (n=1). One patient needed mediastinoscopy. 25% (n=4) of patients diagnosed with TB had cancer and 31.6% (n=5) was submitted to EBUS-TBNA for cancer suspicion. In our setting, the prevalence of TB was 8.6% and the diagnostic yield of EBUS-TBNA was 77.7%.

Conclusions Our study showed granulomatosis in 29% of patients with TB as second most frequent cause. Brazil belongs to the five countries that collectively account for about 50% of the world TB cases¹ and, despite lymphadenopathy is not a major form of TB, our study emphasises its importance in differential diagnosis of ITLN in endemic countries. EBUS-TBNA showed to be a useful diagnostic tool.

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