diagnose TB (79%). However, TB cytology is not specific and in particular, lymphoma cannot be excluded. However, despite early intervention with FNAC, there remains a relatively long duration before TB treatment is commenced.

P36 SCREENING FOR BLOOD-BORNE VIRUSES AND VITAMIN D DEFICIENCY IN PATIENTS WITH ACTIVE AND LATENT MYCOBACTERIUM TUBERCULOSIS (TB) INFECTION IN THE UK: A LONGITUDINAL COHORT STUDY

HM Chen, F Rabbani, N Clerk, K Young, E Lunn, S Kalam, G Antunes. *The James Cook University Hospital, Middlesbrough, UK*

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Introduction Routine Human Immunodeficiency Virus (HIV) and viral hepatitis screening for newly diagnosed active and latent TB infection (LTBI) respectively are recommended by NICE, but there is sparse data relating to screening for Vitamin D (Vit D) deficiency in both active and LTBI infection in the UK however.

Aims The assessment of the screening rates and prevalence of HIV, viral hepatitis (B and C) and Vit D deficiency in adults with newly diagnosed active and LTBI.

Methods A longitudinal prospective study conducted over a five year period in a tertiary hospital in the North East of England. Data were obtained from a specific service database and examined ethnicity; blood-borne viral status; Vit D levels; liver and kidney function at diagnosis.

Results A total of 259 patients were diagnosed with TB during the study period (92 active; 167 latent). The main ethnic groups were Black African (34%), Caucasian (32%), and Indian Subcontinent (19%).

HIV testing was performed in 87 (95%) of patients with active TB, while 141 (84%) were tested in the LTBI group. Four patients and a single individual were newly diagnosed with HIV infection in the active and LTBI groups, respectively.

Viral Hepatitis serology was performed in 62% and 82% of patients with active and LTBI respectively. Seven patients were newly diagnosed with Hepatitis B infection in the LTBI group.

Vit D levels were performed at baseline in 107 (41%) patients with a median level of 33nmol/L. 37 (35%) individuals had levels below 25nmol/L. Vit D levels were significantly lower in the active TB group ($p=0.0004$).

Chronic liver and renal disease were diagnosed pre-treatment in 5% and 2% respectively.

Conclusions Screening for HIV and viral Hepatitis infection remained high for both groups during this period with a small but significant number of new diagnoses. Although Vit D deficiency remains contentious, the study provides evidence to support routine screening but larger longitudinal studies where cost-effectiveness is assessed are warranted.

P37 MANAGING NON TUBERCULOUS MYCOBACTERIAL PULMONARY DISEASE – MISSED OPPORTUNITIES?

Y Maung Maung Myint, A Jacob, S Ananth, C Stavropoulos, A Hawkins, M Vidwans, P Nandasiri, A Jayaratnam. *West Hertfordshire Hospitals NHS Trust, Watford, UK*

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Introduction Non-tuberculous mycobacterium pulmonary disease (NTM-PD) can be a cause of significant pulmonary disease. Early diagnosis and treatment is important. In this review we studied the investigation, treatment and outcomes of patients who had microbiological confirmation of a non-tuberculous mycobacterium (NTM).

Methods A review of all patients from 2017 - 2019 with a single sputum or bronchial wash culture of NTM was undertaken with notes, microbiology and radiology review. Further analysis was done to review whether patients were managed according to the BTS guidelines.¹

Results Data for 135 patients was analysed, epidemiological and clinico-radiological findings are shown in table 1. 30 patients were treated for NTM-PD. 21 met the criteria for treatment.

17/30 had repeat sputum cultures at the end of the treatment. 13/30 achieved showed sputum conversion. 12/30 of treated patients showed improved outcomes at treatment completion. 2 were unchanged; 4 died (unrelated to NTM). The remainder, 12/30, remain under follow up.

105/135 of patients with single sputum isolates for AAFB were not treated. 32/105 had evidence of NTM-PD. Reasons for not treating are as follows – 11/32 had mild symptoms only, 8/32 had other significant co-morbidities causing symptoms, 3/32 refused treatment, 3/32 reason unclear, 3/32 not

Abstract P37 Table 1 Clinical parameters of the patients with positive NTM culture

Clinical Parameter	NTM Patients 2017-2019
BMI	24.9 ± 6.0
Cough (%)	60.0
Dyspnoea (%)	57.4
Weight Loss (%)	39.3
Lethargy (%)	70.5
HIV +ve (%)	0.8
Smokers (%)	52.9
Chronic respiratory conditions (%)	Bronchiectasis 29.7 COPD 25.0 Asthma 23.4 None 25.6
On immunosuppressants (%)	17.6
On inhaled antibiotics (%)	2.4
On ICS (%)	54.8
CXR Findings (%)	Consolidation 24.5 Cavitation 4.7 Normal 30.2
CT Findings (%)	Bronchiectasis 52.7 Consolidation 20.0 Cavitation 11.8 Normal 10.9
Sputum culture 1 (%)	Mycobacterium intracellulare 14.5 Mycobacterium avium 12.2 Mycobacterium chimaera 15.3 Negative 9.2 Not done 21.4
BAL (%)	Mycobacterium intracellulare 8.5 Mycobacterium avium 7.0 Mycobacterium chimaera 12.4 Negative 9.3 Not done 51.2

Values given as mean ± SD (unless stated otherwise)