**G587(P)** MEASLES ANTIBODY LEVELS AMONG VACCINATED HIV-INFECTED AND HIV UNINFECTED CHILDREN IN NIGERIA

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**Background** Sub-Saharan African countries overwhelmingly bear the burden of global HIV infection and measles outbreaks in children. Despite the significant impact of this double burden in Nigeria, the effect of HIV infection on measles antibody levels among children is unknown. This study was therefore conducted to compare the measles antibody levels among HIV infected and uninfected children.

**Methods** The study was a descriptive comparative cross-sectional study among 180 HIV infected and uninfected children aged 2–10 years, recruited between August and December 2015 in a Tertiary Healthcare centre in Nigeria. Socio-demographic, clinical and anthropometric parameters were obtained. Blood samples were collected for haematologic evaluation (CD4+ cell count, full blood count) and serologic assay of measles antibody using IMMUNOLAB ELISA kit. Data was analyzed using SPSS version 20.

**Results** A total of 90 HIV infected subjects and 90 age and sex-matched HIV-negative controls were analyzed. There were 48 males and 42 females aged between 2 to 10 years with a Male: Female ratio of 1.1:1 in both groups. The mean age was 5.4 years.

While the seroprevalence of measles antibody was 46.7% among the HIV negative children, only 9% of the HIV infected subjects had positive antibody level. The antibody titre was also significantly lower among HIV infected subjects compared with controls with median measles antibody values of 3.3U/ml and 9.4U/ml respectively (p <0.001).

HIV infected subjects with more than one dose of measles vaccine had significantly higher seroprevalence of measles antibody than those with single dose (38.5% vs 5.2%, p <0.003).

**Conclusion** There was a low seroprevalence of measles antibody among vaccinated HIV infected children in Nigeria, with higher seroprevalence of measles antibody among children with more than one (1) dose of measles vaccine. It is therefore advocated that HIV infected children should be given additional dose(s) of measles vaccination.

**G588(P)** SCRUB TYPHUS: A SERIES OF CASES IN A TERTIARY CARE CENTRE FROM APRIL 2018 TO JULY 2019

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**Aim** Although Scrub Typhus is an endemic disease, it is grossly underdiagnosed owing to the nonspecific clinical presentation, lack of access to specific diagnostic facilities in most areas and low index of suspicion by the clinician. Our aim of the study is to increase the awareness of the disease amongst the clinicians.

**Methods** Seven patients with acute febrile illness diagnosed to have scrub typhus are reported here with varied presentations from April 2018 to July 2019. First case presented with fever, headache, cough with shortness of breath in the month of April 2018. Second case presented with fever with chills and rigors, cough, respiratory difficulty, passage of dark coloured urine in May 2018. Third case presented with fever, breathing difficulty, multiple eschars, two episodes of cardiac arrest and vomiting in Sept 2018. Fourth case presented with fever, pain abdomen, breathing difficulty, passage of black coloured stool in May 2019. Fifth case presented with fever with chills and rigors, cough, erythematous rashes over face, hands, legs and body and an eschar on left axillae in May 2019. Sixth case a six month old infant with fever and rashes all over the body, eschar on left leg and passage of loose stool in the month of June 2019. Seventh case presented with fever with breathing difficulty, yellowish discoloration of urine, generalized oedema, in the month of July 2019. To diagnose the cases we used immunochromatographic (IgM and IgG) study for scrub typhus. Due to resource constraints we couldn’t use Immunofluorescence Antibody (IFA) to confirm the diagnosis. Doxycycline with other supportive medications rapidly altered the clinical course without any sequelae.

**Results** All the patients responded well to Doxycycline and other supportive. Defervescence occurred in 24 to 48 hours of using first dose of Doxycycline.

**Conclusion** High index of suspicion, timely diagnosis and appropriate treatment can reduce the morbidity and mortality of Scrub Typhus.

**G589(P)** CHILDHOOD TUBERCULOSIS STILL A SIGNIFICANT BURDEN: EXPERIENCE OF A DISTRICT DEDICATED TUBERCULOSIS SERVICE

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**Aims** Evaluate our experience of a dedicated Tuberculosis service for children in a district general setting.

**Methods** Rates of Tuberculosis (TB) in our area in the South East are the second highest in England and our Trust covers areas of significant deprivation. There became a need to set up a dedicated service for childhood TB in partnership with our TB community nursing team and close liaison with adult respiratory colleagues. We started in 2005 to run a monthly clinic with 2 consultants with training in TB and a dedicated TB Nurse a unique service in the South. We analysed retrospectively our recent experience 2017 to 2018.

**Results** 10 cases of active TB were identified, age range 11 weeks to 16 years, 6 Caucasian, 2 Nepalese and 2 Eritrean. There were 37 cases latent TB age range 1 month to 16 years, 14 Caucasian, 15 Nepalese and 8 Indian. The active cases all had pulmonary TB with 100% cough, 50% haemoptysis, 30% fever, 20% night sweats, 20% weight loss. History of contact with smear positive adult in 70% and foreign travel 40%. Chest X Ray changes 70%: 2 RUL, 3 RLL, Pleural effusion, 1 hilar nodes. ESR raised 40%, Mantoux positive 90%, T Spot positive 70%, AAFBs or culture TB 20%. All HIV negative. All successfully treated using DOT and VOTs. Use of Latent TB government video for explaining latent TB was popular. All cases were discussed with Adult TB team and clinic visits always had TB nurse present.