the performance of fluorescein di-acetate FDA vital staining, a microscopy-based test that shows viable bacilli, and Xpert threshold cycle value (Ct) changes when assessing culture conversion at the end of the intensive phase of RR-TB treatment. **Methods** Between December 2015 and April 2018, we prospectively followed patients with RR-TB during the 6-month intensive phase of a 21-month standardised WHO treatment regimen. Sputum was collected and tested monthly with Auramine, FDA, Xpert MTB/RIF, and culture (Manual MGIT). Culture was considered to have converted to negative when two consecutive cultures, taken at least 30 days apart, were negative, including at least one culture between 4–6 months of treatment. **Results** Forty-one patients were included in this study, 80% were male and 7% were HIV-co-infected. Conversion could not be assessed in 12 (29%) patients. Among the remaining 29 patients, 9 (31%) converted, and 11 (38%) did not convert. All 9 who converted on culture had a negative FDA, and most (6) had a Ct trend that showed a reduction of excreted DNA (increasing Ct trend). Three of these were still positive on Auramine (excretion of dead bacilli?). Of 11 patients with positive cultures, 8 tested negative on FDA, 5 tested ‘MTB not detected’ on Xpert MTB/RIF, and another 2 showed a reduction of excreted DNA. **Conclusion** Results from culture, FDA, and Xpert MTB/RIF provide similar results among converters but contrasting results among non-converters. Longer follow-up time is needed to assess the value of these tests to predict treatment outcome.

**Results** Eighty-eight per cent (88%; 2117/2384) of the total positives were bled for viral loads within the year; 78.3% (1658/2117) had viral suppression and 459/2117 had viral loads (VL) above 1000 copies per ml of blood. After attending the joint support groups with documented good adherence for at least three consecutive months, clients were bled for a repeat VL count, of which 84% (386/459) had suppressed. This increased the overall viral suppression from 78.3% to 93.8% (2044/2177). There was 73% risk of being viraemic if not attending a support group. **Conclusion** Differentiated care clients can work with viraemic clients to increase community viral load suppression.

**Introduction** Multimorbidity, coexistence of two or more chronic conditions, is becoming more common across different demographic groups in sub-Saharan Africa. We investigate the nature and prevalence of multimorbidity in fishing communities on Lake Victoria in Kenya. **Methods** We conducted a cross-sectional survey enrolling 679 participants in the fishing communities to establish the prevalence of HIV and non-communicable diseases (NCDs) and associated risk factors. The NCDs targeted included diabetes mellitus detected by random blood glucose (RBG) and kidney dysfunction detected by serum creatinine level and proteinuria. Hypertension was defined as systolic blood pressure ≥140 mmHg and/or diastolic blood pressure ≥90 mmHg. Diabetes mellitus was defined as RBG >7.8 mmol/L and renal dysfunction was defined as estimated glomerular filtration rate (eGFR) <60 mL/min or proteinuria. HIV was tested using rapid Determine assays and reactive results confirmed with UniGold assays. Additionally, participants were determined as having the condition if they reported being on medication for the condition. We analysed the results using descriptive statistics and used Chi-square test to discern if there were statistically significant differences by gender. **Results** Overall, HIV prevalence was 36% while 15%, 12% and 8% of the participants were suspected to have kidney dysfunction, hypertension and diabetes mellitus, respectively. Overall, 12% of the participants had multimorbidity. The most common multimorbidity among those with any of the four chronic conditions was HIV and kidney dysfunction (29%), followed by hypertension and kidney dysfunction (22%), HIV and hypertension (20%), HIV and diabetes (18%), diabetes and kidney disease (6%) and, lastly, diabetes and hypertension (5%). Apart from HIV, we observed no statistically significant gender differences for any of the NCDs or various multimorbidity conditions. **Conclusion** These fishing communities have a high burden of both HIV and NCDs resulting in high prevalence of different multimorbidities.