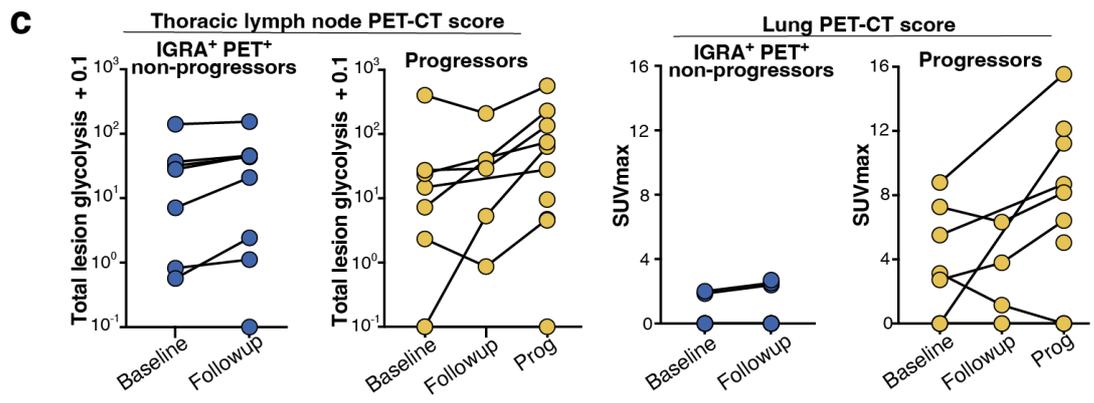


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| Household Contacts Progressing to TB | | | | | | | | Corresponding Pulmonary TB Index Cases - all clinically & microbiologically confirmed | | | | | |
|--------------------------------------|--|---|--|--|-------------------|----------|------------------------------------|---|-------------|---|---------------|----------------------------------|------------------|
| Progressor ID | Progressor diagnosis details | | | | Progressor PET-CT | | Progressor <i>Mtb</i> microbiology | | TB Index ID | TB index case <i>Mtb</i> microbiology | | | |
| | TB disease site | Basis of progression diagnosis | Symptoms | Response to treatment | Lung | LN | Culture | Xpert MTB/RIF Ultra | | Microbiological link: progressor to index case | Index lineage | Index time to culture positivity | Index Xpert load |
| 222 | Pleura | Symptoms, Radiological progression evident on CXR, Florid granulomatous inflammation on pleural biopsy, Lymphocytic pleural effusion. | Productive cough, Fever, Lethargy, Weight loss | Resolution on CT scan | No PET-CT scan | | Negative | Negative | 1079 | Progressor culture negative | 3 | 8 days | High |
| 78 | Lung | Microbiologically confirmed in BAL | None | Complete resolution on PET-CT | POSITIVE | POSITIVE | POSITIVE | POSITIVE | 1082 | Confirmed related | 4 | 10 days | High |
| 164 | Lung | Microbiologically confirmed in BAL | None | Partial resolution of inflammation as assessed in BAL. Subsequently lost to followup | POSITIVE | POSITIVE | POSITIVE | POSITIVE | 1018 | Confirmed related | 1 | 11 Days | Medium |
| 26 | Lung | Radiological progression evident on CXR | None | Complete resolution on PET-CT | POSITIVE | POSITIVE | Negative | Negative | 1008 | Progressor culture negative | 3 | 3 Days | Low |
| 13 | Lung | Symptoms, Radiological progression evident on CXR | Productive cough, Night sweats, Chest pain | Unconfirmed. Lost to followup | POSITIVE | Negative | Negative | Negative | 1004 | Progressor culture negative | 4 | 2 Days | High |
| 74 | Intrathoracic lymph node | Radiological progression evident on CXR, Microbiological and histological confirmation in ITLN | None | Significant improvement on PET-CT | Negative | POSITIVE | POSITIVE | POSITIVE | 1069 | Confirmed related from phenotypic drug susceptibility testing | 3 | 42 Days | High |
| 75 | Intrathoracic lymph node | Radiological progression evident on PET-CT, Microbiological and histological confirmation in ITLN | None | Complete resolution on PET-CT | Negative | POSITIVE | Positive | Negative | 1069 | Confirmed unrelated from phenotypic drug susceptibility testing | 3 | 42 Days | High |
| 77 | Lung | Radiological progression evident on CXR | None | Partial resolution on PET-CT | POSITIVE | POSITIVE | Negative | Negative | 1082 | Progressor culture negative | 4 | 10 days | High |
| 122 | Intrathoracic lymph node, extrathoracic lymph node, Lung | Symptoms, Radiological progression evident on PET-CT, Microbiological and histological confirmation in ITLN | Cough | Significant improvement on PET-CT scan | POSITIVE | POSITIVE | Negative | POSITIVE | 1086 | Progressor culture negative | 4 | 6 Days | High |
| 103 | Intrathoracic lymph node | Symptoms, Radiological progression evident on CXR, Microbiological and histological confirmation in ITLN | Cough, Weight loss, Lethargy, Night sweat | Complete resolution on PET-CT | Negative | POSITIVE | POSITIVE | POSITIVE | 1072 | Confirmed related | 3 | 5 Days | High |
| 225 | Lung | Radiological progression evident on CXR | None | Pending | POSITIVE | POSITIVE | Negative | Negative | 1079 | Progressor culture negative | 3 | 8 Days | High |



Extended Data Fig. 1.