# A CROSS-SECTIONAL STUDY OF PREVALENCE AND RISK FACTORS FOR TB INFECTION AND DISEASE AMONG HOUSEHOLD CONTACTS OF TB PATIENTS IN RURAL DISTRICT IN SOUTH INDIA.

By DR. Niranjan Reddy B



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In partial fulfilment of the requirements for the degree of

#### DOCTOR OF MEDICINE IN PAEDIATRICS

Under the Guidance of

DR. Krishnappa J

PROFESSOR

DEPARTMENT OF PAEDIATRICS
SDUMC,TAMAKA, KOLAR-563101

**CO-GUIDE** 

DR. Jagmohan SV

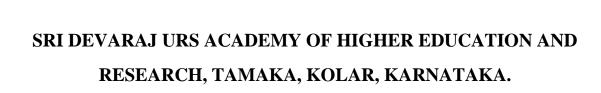
PROFESSOR AND HOD DEPARTMENT OF PULMONARY MEDICINE SDUMC,TAMAKA, KOLAR-563101



DEPARTMENT OF PAEDIATRICS
SRI DEVARAJ URS MEDICAL COLLEGE
TAMAKA, KOLAR-563101
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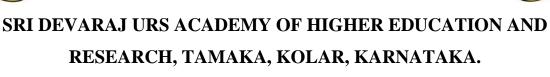
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DR. KRISHNAPPA J

**Professor** 

**Department of Paediatrics** 

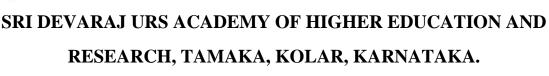
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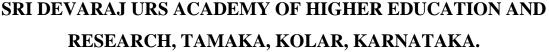
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Dr. SUDHA REDDY V.R.

**Professor and HOD** 

**Department of Paediatrics,** 

Sri Devaraj Urs Medical College,

Tamaka, Kolar

Dr. P.N. SREERAMULU,

Principal,

Sri Devaraj Urs Medical college

Tamaka, Kolar

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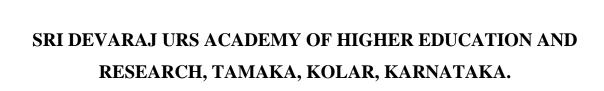
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GLOSSARY	ABBREVIATIONS		
ARTI	Annual Risk of Tuberculosis Infection		
BCG	Bacille calmette guerin		
CBC	Complete blood count		
CBNAAT	Cartridge- based nucleic acid amplification test		
CCM	Child contact management		
CNS	Central nervous system		
CXR	Chest x-ray		
DOTS	Directly Observed Treatment, Short-course		
ESR	Erythrocyte sedimentation rate		
HIV	Human immunodeficiency virus		
INH	Inhalation		
IQR	Interquartile range		
MDR	Multi drug-resistant		
MGIT	Mycobacterium growth indicator tube		
NTEP	National tuberculosis elimination program		
PTB	Pulmonary tuberculosis		
ТВ	Tuberculosis		
TST	Tuberculin skin test		
WHO	World health organization		
XDR-TB	Extensive drug resistant-tuberculosis		





#### **ABSTRACT**

**Background:** Tuberculosis is one among the ten major causes of mortality worldwide. India has a greater burden of the disease accounting for 24% of global cases and 21% of global tuberculosis-related deaths. Tuberculosis affects the lungs and various other organs of the body. But pulmonary tuberculosis is the main form of TB, which is transmitted to other individuals in contact as it is airborne. Early diagnosis, proper and complete treatment, awareness, and minimizing contact transmission are the main factors which help in lowering the burden of the disease.

**Materials and Methods:** This study was done on 94 tuberculosis index cases and 248 household contacts to determine the prevalence of tuberculosis infection and tuberculosis disease among pediatric household contacts aged <18 years which was helped in establishing the importance of contact management of children exposed to TB infection

**Results:** A total of 94 index cases and 248 responses were included in the analysis. Out of 248 residence responses, 11.29% were Suggestive of TB, and 46.77% were not tested for tuberculosis. Among the respondents found to be positive for tuberculosis infection (71.05%) were children under five years of age, (2.56%) were children in the age group of 6 to 15 years and (29.41%) were above 15 years of age.

**Conclusion:** The study concludes that a higher number of children, particularly children under five years of age in contact with adult TB patients, developed the infection, which shows the importance of child contact identification, screening, and initiation of prophylaxis treatment. Child contact management helps in controlling pediatric TB to a great extent.





### **INTRODUCTION**

#### **INTRODUCTION:**

Tuberculosis is one among ten major causes of mortality worldwide.<sup>1</sup> India has a greater burden of the disease accounting for 24% of global cases and 21% of global tuberculosis-related deaths.<sup>2</sup> National Tuberculosis Programme launched by the Government of India has not been able to achieve the desired outcome of reduction of a number of infections due to many factors, including the inability of sputum microscopy to detect drug resistance, inadequate notification by the private sector, different epidemiology of the disease in different parts of the country and drug resistance amplification.<sup>3</sup> Contact investigation is considered an effective strategy for the control of the disease. This involves screening of all household contacts, and in the case of paediatric tuberculosis patients, reverse contact tracing should be done.<sup>4</sup>

Tuberculosis affects the lungs and various other organs of the body. But pulmonary tuberculosis is the main form of TB, which is transmitted to other individuals in contact as it is airborne. Early diagnosis, proper and complete treatment, awareness, and minimizing contact transmission are the main factors which help in lowering the burden of the disease. Tuberculosis is found in all the countries of the world, but two-thirds of globally reported cases are contributed by eight developing countries, including India.<sup>3</sup>

Globally only 64% of estimated TB cases are reported, and the remaining 36% of cases are undiagnosed, untreated, or unreported. These missing cases are the main hindrance in reducing the burden of the disease. Completion of treatment is also essential for a successful reduction in a number of cases. Incomplete treatment has led to the emergence of drugresistant TB, which is of two types- multidrug-resistant TB and extensively drug-resistant TB. Multidrug-resistant TB cases are high in India.<sup>5</sup>

The risk of transmission of infection depends on the closeness of contacts, overcrowding, degree of infectiousness of index case. Screening and management of child contacts can help in the reduction of TB-related morbidity and mortality in children. It may also help in increasing case finding and reducing transmission by identification of suspected TB cases at an early stage, preventing progression of infection. 10 to 20% of total reported TB cases are contributed by children, and the risk of TB progression is high in children in comparison with adults. Child contact management is the best strategy to prevent TB in children, and this helps in reduction in overall burden and transmission of disease by early case detection and treatment. Child contact management involves identification, screening, and evaluating child contacts exposed to infectious TB and initiating and completing either preventive therapy or appropriate treatment depending on whether the infection is latent or active.

Rapid identification and management of exposed children in households with TB patients help in the prevention of TB to a great extent. TB in children usually occurs soon after exposure. Identifying children who are exposed and initiating TB preventive therapy may reduce the risk of infection in children.<sup>12</sup> TB in children is diagnosed based on a triad, including the positive history of contact with a TB case, clinical and radiological findings, and tuberculin skin test. Microbiological confirmation using sputum specimens is usually not done for children due to difficulty in obtaining a sputum specimen form children.<sup>13</sup> Diagnosis of TB in children is challenging because the clinical presentation of TB in children is non-specific during early stages and is similar to other childhood infections.<sup>14</sup> Though TB was considered a single infectious disease with a high rate of mortality in adults, it was not considered as a leading contributor to under-five mortalities until recently. This was mainly because of underreporting of TB-related mortality in children. Recent estimates by WHO indicate that TG is a significant contributor to under-five mortality, causing around 136,000

deaths annually.<sup>15</sup> Understanding the true burden of disease in all age groups around the world is important to identify the gaps in the diagnosis of cases and to estimate the resources that need to be allocated to reduce the burden. 16 Hence understanding the true burden of childhood TB is important. It can help in demonstration of the importance of TB as a cause for childhood morbidity and mortality. 17 26% of the global population and 43% of the population in low-income countries comprises of children, which makes it essential to estimate the incidence of TB in children to meet the TB goal of WHO. 18 Children under five are less likely to be diagnosed of TB as they do not show serious symptoms of TB, but it is estimated that 51.4% of all paediatric TB cases occur in children under five. 19 Exposure of a child to an adult with pulmonary TB is believed to increase mortality in children under five by 70%, and it increases by eight-fold when the mother is infected with TB.<sup>7</sup> The main risk factors for TB infection in children are younger age, birth in high TB prevalence country, HIV infection, and prolonged close contact with index case. <sup>20</sup> Among these risk factors, the one which can be avoided easily is contact with the index case, and this can be done with the implementation of an effective contact management strategy. <sup>21</sup> The potential infectiousness of a TB patient may depend on the patient's ability to aerosolize bacilli, on the number of bacilli that are aerosolized, and on the susceptibility of the exposed individual. Respiratory manoeuvres like talking, singing, coughing, and sneezing produces aerosols. The transmission rate depends on the physical force of manoeuvre, size, and the number of expelled droplets. The rate of transmission may be high when the number of droplets is more, and the size of droplets is small.<sup>22</sup> The frequency of respiratory events like coughing also determined the rate of transmission. The maximum risk of a child getting infected with TB is more between 1 to 4 years of age. Under the National Tuberculosis Elimination Program, more importance is being given to paediatric TB and contact management of exposed children. With increased tracing and identification of contact cases of children, the number of paediatric TB cases being registered has increased from 5.6% in 2005 to 7% in 2011.<sup>23</sup> The main source of infection in children is infected adults in their surroundings. 40% of children under one year age, 24% of children between one and 10 years of age, 16% of children between 11 and 15 years of age infected with TB, if left untreated, may develop lymphadenopathy or segmental lesions.<sup>24</sup> This study aims to determine the prevalence of tuberculosis infection and tuberculosis disease among paediatric household contacts aged <18 years of adult tuberculosis patients and to assess the risk factors associated with occurrence of tuberculosis infection and disease among these paediatric contacts aged <18 years.

#### **NEED OF THE STUDY:**

TB in children till recently was not considered as a major public health problem as the transmission from children is less and the symptoms shown by children are non-specific. But it has been recognized that it is important to identify children at risk of infection as pediatric TB is an emerging epidemic which requires due attention. Measurement is the first step for control, and hence measuring the burden of contact transmission in children will help in developing adequate control measures for the reduction of TB in children. To meet the global goal of eliminating TB by 2030, attention must be given to TB in children. Diagnosis of TB in children is challenging, which leaves many children with TB undiagnosed. The under-five mortalities associated with TB are preventable with timely diagnosis and treatment. This study which aims to determine the prevalence of tuberculosis infection and tuberculosis disease among paediatric household contacts aged <18 years of adult tuberculosis patients and to assess the risk factors associated with the occurrence of tuberculosis infection and disease among these paediatric contacts aged <18 years, helped in establishing the importance of contact management of children exposed to TB infection.

### AIMS & OBJECTIVES

#### **AIMS AND OBJECTIVES:**

#### **PRIMARY OBJECTIVE:**

- To determine the prevalence of tuberculosis infection and tuberculosis disease among paediatric household contacts aged <18 years of adult tuberculosis patients.
- To assess the risk factors associated with the occurrence of tuberculosis infection and disease among these paediatric contacts aged <18 years.</li>

#### **SECONDARY OBJECTIVE:**

• To treat tubercular infection and tubercular disease identified among household contacts of TB patients.

# REVIEW OF LITERATURE

#### **REVIEW OF LITERATURE:**

Tuberculosis is caused by Mycobacterium tuberculosis which is an alcohol and acid-fast bacillus.

#### **Epidemiology:**

Globally, TB is more prevalent in developing countries of Asia, Africa, Latin, and central America. The burden of TB in developed countries is mainly associated with HIV infection. There were around 8.6 million reported TB cases globally in 2012, of which 58% cases were from Asia, and 27% were from Africa. Among different countries of the world, India has the highest incidence of TB cases, followed by China. A gradual decline in global TB incidence was observed from 1997 to 2001. In 2001 there was an increase in the number of cases due to the rising number of cases among HIV-infected patients. After that, an average 1.3% reduction rate was observed from 2002, which reached 2.2% in 2010. The incidence rate of TB widely varies among different countries, with the lowest rates being reported in high-income countries of Western Europe, Canada, the USA, Australia, New Zealand. The same trend is observed even in the number of TB deaths per 100,000 population. Less than one TB death per 100,000 population is reported in high-income countries, and more than 40 deaths per 100,000 population are reported in countries of Asia and Africa. The same are ported in countries of Asia and Africa.

In 2012, an estimated 530,000 (510,000–550,000) children (aged 15 or less) fell ill with TB representing 6% of the global burden and there were 74,000 (59,000–90,000) deaths among HIV-negative children. Out of the 350,000 TB notifications among children, 70% had pulmonary TB; 80% of these cases were diagnosed without bacteriological confirmation.<sup>28</sup> The emergence of drug-resistant TB poses a major threat to global TB control.<sup>29</sup> Estimating an exact number of pediatric TB cases may help in obtaining a valuable epidemiological

perspective as they reflect ongoing transmission in communities. The development of multidrug-resistant (MDR)-TB in child contacts of infectious adult cases presents confirmation that clinical MDR strains are transmissible and cause disease.<sup>30</sup> The estimated incidence (new TB cases per year) is 2.8 million cases in 2015. The death toll from tuberculosis is estimated to be 480,000. Co-morbidity with HIV affects about 5% of incident TB cases, though this percentage fluctuates depending on the incidence of HIV in the population. India, on the other hand, has a diverse TB epidemiology. According to data from the 7 subnational prevalence surveys, the subnational and district-level prevalence of infection surveys, and analysis of programme notification data on TB, MDR TB, and TB HIV, the country's epidemiology varies from very high to very low TB prevalence, high and low TB/HIV coinfection, and DR-TB, depending on state/region. There is a general epidemiological difference between urban and rural locations, with urban areas having a lower prevalence and a greater Annual Risk of Tuberculosis Infection (ARTI), whereas rural areas have a higher prevalence and a lower ARTI.<sup>31</sup>

Table 1: The following table shows major differences between tuberculosis in adults and children.

ASPECT	ADULTS	CHILDREN	
Epidemiology	There is a massive burden globally which is well quantified. <sup>32</sup>	There is a massive burden which is underreported and poorly quantified. <sup>32</sup>	
TB control	Recognized as priority	Not recognized as a priority	
Pathogenesis	Lung disease	Extra pulmonary TB is more common	
Rate or transmission	Multibacillary with high infection rate. 32	Paucibacillary with low infection rate. <sup>32</sup>	
Drug resistance	Difficulty to differentiate as acquired from primary drug resistance. <sup>32</sup>	Always from primary drug resistance. <sup>32</sup>	
Exposure history	Important but neglected.	The basis for diagnosis but neglected	
Risk of progression to disease	Low	Highly variable	
Preventive therapy	Limited value	Definite value	
Imaging requirement	Chest radiographs. <sup>32</sup>	Chest X-ray. <sup>32</sup>	
Treatment	With four drugs in intensive phase. 32	Three or four drugs depending on case severity. <sup>32</sup>	
Prognosis	The excellent outcome with timely, appropriate and complete treatment. <sup>32</sup>	The excellent outcome with timely, appropriate and complete treatment, delayed diagnosis may lead to grave outcomes. <sup>32</sup>	

#### **Risk factors for tuberculosis:**

There are two stages in the development of TB as a disease. In the first stage, there is the development of infection after exposure, and in the second stage, there is a progression of infection to disease.<sup>33</sup>

The risk of infection after exposure depends on exogenous factors, including infectiousness of source case, proximity to contact, and social and behavioral risk factors like smoking, alcohol consumption, and indoor pollution.<sup>33</sup>

Factors that influence the progression of infection to disease are endogenous, mainly depending on the immunity status of the exposed individual.<sup>33</sup>

Risk factors include factors related to the index cases and factors related to the exposed individuals.

#### **Factors related to index case:**

**Bacillary load:** The concentration of bacilli in the sputum from a TB case is positively correlated with the infectivity of the TB patient.<sup>34</sup>

**Proximity:** Close connections of infectious tuberculosis cases, such as household contacts and care givers/health care personnel, are more likely to contract Mycobacterium tuberculosis and develop primary active tuberculosis.<sup>35</sup>

#### Factors related to an exposed individual:

**Immunosuppressive conditions:** HIV coinfection is the most potent immunosuppressive risk factor for developing active TB disease.<sup>36</sup>

**Malnutrition:** HIV coinfection is the most potent immunosuppressive risk factor for developing active TB disease.<sup>37</sup>

**Young age:** Children are at higher risk of contracting TB infection and disease. Many studies have established that around 60 to 80% of children exposed to sputum smear-positive cases become infected, whereas only 30 to 40% of children exposed to sputum smear-negative sources become infected.<sup>38</sup> Majority of the children less than 2 years of age get infected from

the household source case, whereas, with children more than 2 years of age, the majority of them became infected in the community. Household sputum positive source case is the single most important risk factor for children and remained an important contributor to infection up to 5–10 years of age.<sup>39</sup>

**Diabetes Miletus:** Diabetes has been shown to increase the risk of active TB disease.<sup>39</sup> It is estimated that 70% of people with diabetes develop TB in low and middle-income countries, and this number is slowly increasing in countries like India.<sup>40</sup>

Socioeconomic and behavioral factors:

These include

- Rapid urbanization leading to overcrowding
- Smoking
- Alcohol consumption
- Indoor air pollution.

**Demographic factors:** Aborigines have a higher-than-average prevalence of predisposing risk factors for TB, such as renal failure, diabetes, alcohol abuse, and smoking. In addition, socioeconomic factors such as overcrowding and poverty are known contributors to this burden.<sup>41</sup>

#### Types, clinical presentation, and diagnosis:

#### **Pulmonary Tuberculosis:**

TB of lung parenchyma and tracheobronchial tree only is called pulmonary TB. Primary pulmonary TB usually occurs in childhood in countries with high TB prevalence. The main

clinical features of pulmonary TB are chronic cough, sputum production, appetite loss, weight loss, fever, night sweats, and hemoptysis. 42 On chest radiography, Ghon focus is seen, which is granulomatous inflammation in the periphery of the lung accompanied by an ipsilateral lymph node. The disease usually is asymptomatic or can present as an acute lower respiratory tract infection. 43

Primary pulmonary TB may be followed by post-primary pulmonary TB, which can occur many years after exposure to infectious TB.<sup>44</sup>

Pulmonary TB in children has a diverse spectrum of presentation with complications including local parenchymal destruction with cavity formation causing broncho pneumonic consolidation.<sup>45</sup>

#### **Extrapulmonary tuberculosis:**

TB affecting any site other than the lung is called extrapulmonary tuberculosis. Any organ of the body can be affected with TB infection. There will be systemic features and also symptoms related to involved organs.<sup>46</sup>

#### Lymph node TB:

**Intrathoracic lymph node TB:** This is more common in children than in adults. Visible as mediastinal enlargement in the chest radiograph. Complicated lymph node disease usually is reported in children less than five years of age due to exuberant lymph node responses and small-caliber airways.<sup>47</sup> Clinical presentation is partial airway obstruction with alveolar collapse. There may be penetration to adjacent anatomical structures involving phrenic nerve

with unilateral diaphragmatic palsy, oesophagus with broncho or tracheoesophageal fistula formation, or thoracic duct with unilateral chylothorax formation.

#### **Extra thoracic Lymph node TB:**

This occurs more commonly in adults than in children involving cervical or supraclavicular lymph nodes or axillary or inguinal lymph nodes.

#### **Tuberculosis pleurisy:**

This is more commonly found in young adults with clinical features of pleuritic chest pain and breathlessness. Pleural effusion due to TB can be diagnosed using nucleic acid amplification and detection, markers of specific and non-specific immune response. Isolated pleural effusions due to TB are rare in children, and they usually develop after primary infection.

#### **Disseminated disease:**

Dissemination represents a condition of infinite gradation. Occult dissemination is common following primary infection; however, it rarely progresses to disseminated disease except in very young and immune-compromised children. Typical radiologic signs include the presence of even-sized miliary lesions of less than 2 mm that are distributed bilaterally into the very periphery of the lung.

**Extra thoracic TB:** cervical lymphadenitis having matted nodes with peri adenitis is common in children.

**Tuberculosis meningitis:** This is a severe form of manifestation of TB in children. Symptoms include fever, listlessness, apathy, anorexia, and headache. If not treated promptly, the disease will progress to localizing neurological signs with or without consciousness or convulsions.<sup>49</sup>

**Perinatal TB:** Newborn babies may acquire TB congenitally via placenta or during birth by aspiration of infected amniotic fluid or by inhaling bacillus from infectious close contacts after delivery.

**Bone or joint TB:** TB affecting bone or joints is more common in adults. Spine TB is more common, which starts with inflammation of the intervertebral disk in the lower thoracic and upper lumbar vertebrae and later involves two adjacent vertebrae and intervertebral disk.<sup>50</sup> Back pain is the first symptom which might be associated with abdominal pain. Paraplegia may occur in later stages due to nerve root compression.

**Genitourinary TB:** This includes TB of kidney, ureter, bladder, and genital tract.<sup>51</sup> Urological TB causes the destruction of the involved kidney. It is usually unilateral. TB of the female genital system causes pelvic pain and may cause infertility.

**Abdominal TB:** This includes peritoneum with ascites or any intra-abdominal organ.<sup>52</sup> Symptoms are abdominal pain, small bowel obstruction, or gastrointestinal bleeding.

**Central nervous system TB:** Tuberculosis of CNS includes meningitis and encephalitis with or without cerebral tuberculomas. Headache is a common symptom. There may be decreased consciousness, seizures, neck stiffness, and vomiting.<sup>52</sup>

**Management:** Treatment is usually with first-line TB drugs, which have very few adverse effects in children.

Risk factors associated with the occurrence of tuberculosis infection and disease among these paediatric contacts aged <18 years:

Risk factors for drug-susceptible TB can be exogenous or endogenous.

Exogenous factors include

- Infectiousness of source case.
- Intensity and duration of contact of source case and child contact. Source cases who live in close physical proximity to child contacts are more likely to infect children, and the greater the daily interaction and the longer the duration of interaction, the greater the risk of infection.<sup>53</sup>
- Source cases with extensive lung involvement are more infectious.<sup>54</sup>
- Smear-positive cases are more infectious than smear-negative cases. 55
- Duration of cough of source case.<sup>55</sup>
- The presence of smokers in the house increases transmission. <sup>56</sup>
- Poor household ventilation.<sup>57</sup>
- Overcrowding.<sup>58</sup>

Risk factors for the progression of infection to disease are endogenous and are as follows:

- Virulence of mycobacteria.<sup>59</sup>
- Mycobacterial load.<sup>60</sup>
- Age of child. Risk lowers with an increase in age.<sup>47</sup>
- Host immune response

- There is a 50% lifetime risk for infants infected with TG to progress to disease, and this risk decreases with age.<sup>47</sup> Young children also have an increased risk of severe forms of disease such as miliary TB and TB meningitis.<sup>47</sup>
- HIV-positive infants are more than twenty times as likely to develop TB as those who are HIV-negative.<sup>61</sup>
- Malnourished children are more likely to progress to TB than those better nourished.<sup>55</sup>

# Management of Tubercular infection and tubercular disease among household contacts of TB patients

#### **Household contact:**

Management of tuberculosis disease among household contacts of tuberculosis patients: The following are the steps to be followed for management:

**Initiating contact investigation**: Contact investigation must be initiated when there are factors predicting the likelihood of transmission, including

- Anatomical site of infection: Patients with pulmonary or laryngeal tuberculosis only can transmit infection.
- Sputum bacteriology: Positive sputum results are associated with the transmission of infection.
- The sociability of the index patient
- Age: Transmission from children below 10 years is rare.
- HIV status
- Administration of effective treatment.<sup>62</sup>

Initiating contact Investigation: when the above-mentioned factors which indicate transmission are present, then contact investigation must be initiated.<sup>62</sup>

**Investigating index patient and sites of transmission**: The disease characteristics, onset period of illness, names of contacts, exposure locations, and current medical considerations of the index patient must all be explored (e.g., initiation of effective treatment and drug susceptibility results).

Contacts' priorities are assigned as follows: Contacts should be prioritized, and resources supplied to complete all investigative processes for high- and medium-priority contacts. Priorities are set depending on the risk of infection and the potential dangers to individuals who come into touch with it if they become ill. The priority scheme allocates resources to contacts with secondary cases of tuberculosis disease, recent M. tuberculosis infection and thus are most likely to benefit from treatment, and are most likely to develop TB disease if infected (i.e., susceptible contacts) or who could suffer severe morbidity if they have TB disease.<sup>62</sup>

Contacts' diagnostic and public health evaluation: All contacts whose induration diameter in a skin test reaction is more than 5 mm.<sup>62</sup>

Treatment of contacts with latent tuberculosis infection: Contacts identified as having a positive TST result is regarded as recently infected with M. tuberculosis, which puts them at heightened risk for TB disease.

Expanding contact investigation: contact investigation must be expanded considering the following factors:

- Achieving programme goals through high- and medium-priority contacts.
- The recent extent of transmission, as shown by an unexpectedly high rate of infection or tuberculosis illness in high-priority contacts (e.g., 10 percent or at least twice the rate of a similar population without recent exposure, whichever is greater).
- Evidence of secondary transmission (i.e., from TB patients who became infected after being exposed to the source patient), TB disease in any low-priority contacts, infection of children under the age of five, and contacts who changed their skin test status from negative to positive between their first and second TST.<sup>62</sup>

#### Communicating through media

Data management and evaluation of contact investigation

Confidentiality and consent in contact investigation

Staffing and training for contact investigation.<sup>62</sup>

#### **Relevant studies:**

Geetika Srivastava. et al.<sup>63</sup> did a study to find out the prevalence of tuberculosis and tubercular infection in children living with sputum smear-positive adult patients receiving DOTS at recruitment and to find out the incidence of tubercular infection and disease in these children on follow up. About half the children were either suffering from TB or tubercular infection on recruitment. During 9 months follow up 22 unaffected children developed the disease and 43acquired infections.

Martinez, L. et al. 12 assessed the risk of tuberculosis in children after close exposure. When newborns and young children are exposed to tuberculosis, the chance of developing tuberculosis is extremely high. The majority of cases occurred within weeks after the start of the contact inquiry and may not be avoidable with prophylaxis. Alternative preventative techniques, such as the earlier beginning of preventive therapy by a fast diagnosis of adult cases or community-wide screening approaches, appear to be necessary. When newborns and young children are exposed to tuberculosis, the chance of developing tuberculosis is extremely high. The majority of cases occurred within weeks after the start of the contact inquiry and may not be avoidable with prophylaxis.

Rina Triasih. et al.<sup>64</sup> summarized published data of the prevalence of TB infection and disease among child contacts in South East Asia. TB infection is common among children that are household contacts of TB cases in South East Asia. Novel approaches to child contact screening and management that improve implementation in South East Asia need to be further evaluated.

Singh, M. et al.<sup>65</sup> studied the prevalence of tuberculosis infection among children in household contact with adults having pulmonary tuberculosis and identified the possible risk factors. The prevalence of tuberculosis infection and clinical disease among children in household contact with adult patients is higher than in the general population, and risk is significantly increased by contact with sputum-positive adults.

Sinfield, R. et al.<sup>6</sup> assessed the prevalence of infection and disease amongst children aged  $\leq 5$  yrs in household contact with smear-positive TB. A high prevalence of TB infection and disease in child contacts was found.

Gomes, V, F et al.<sup>7</sup> assessed mortality related to exposure to tuberculosis (TB) at home among children in urban areas of Guinea-Bissau. Intimate family contact with a TB case represents a significant risk factor for child mortality in a low-income country.

Correa, A, G., et al.<sup>66</sup> studied unique concepts of pediatric tuberculosis. There are three basic stages of tuberculosis in children-exposure, infection, and disease. Exposure implies that the child has had significant contact with an adolescent or adult with suspected or confirmed contagious pulmonary tuberculosis. The most frequent setting for exposure is the household but, occasionally, it is a school, day care center, or other Environment.

Guwatudde, D. et al.<sup>67</sup> determined the host and environmental factors responsible for tuberculosis in African households. The study concluded that tuberculosis is common among household contacts of index cases in Africa, especially among young children and HIV-infected contacts. Host risk factors cannot, however, be completely distinguished from the effects of environmental risk factors, suggesting that a household may represent a complex system of interacting risks for disease.

Antonio, C, L.et al.<sup>68</sup> determined the risk of infection among household contacts. Household contacts of AFB-positive tuberculosis patients have a very high prevalence and risk of tuberculosis infection. TB preventive or therapeutic measures directed towards this group should be implemented in Brazil.

Dhanaraj, B. et al. <sup>69</sup> measured the community prevalence and risk factors of adult pulmonary tuberculosis (PTB) in Chennai city. The study found that TB is a major public health problem in this urban area of south India and supports the use of intensified case finding in high-risk groups. Undernutrition, slum dwelling, indoor air pollution, and alcohol intake are modifiable risk factors for TB disease.

Adane, A. et al.<sup>70</sup> assessed the prevalence and associated factors of tuberculosis among adult household contacts of smear-positive pulmonary tuberculosis. The study found the prevalence of tuberculosis among adult household contacts of smear-positive pulmonary tuberculosis is high. Eating meals less than three times per day, drinking raw milk, living in poor ventilated houses, and inadequate sizes of the rooms were identified as contributing factors.

### **LACUNAE OF LITERATURE:**

The major gaps in the management of pediatric tuberculosis are found to be contact investigation for rapid identification of active tuberculosis and initiation of preventive therapy. Pediatric TB caseload is very high than estimated in high burden countries like India, and 43.6% of TB-related deaths of children under five occur due to undetected and untreated cases. This study aims to highlight the importance of contact investigation of children exposed to infectious TB patients, which helps them in the near correct estimation of Pediatric TB cases and initiate appropriate therapy to avoid TB-related deaths in children.

# MATERIALS & METHODS

## **MATERIALS AND METHODS:**

**Study site:** This study was conducted in the Department of Paediatrics at Sri Devaraj Urs Medical College, Tamaka, Kolar – 563101.

**Study population:** All the eligible children of less than 18 years who are staying with confirmed TB patients and studied in the Department of Paediatrics at Sri Devaraj Urs Medical College were considered as the study population.

**Study design:** The current study was a cross-sectional study

**Sample size:** Sample size for household contacts was calculated based on the one-group precision formula. According to the previous prevalence of TB among household contacts of index TB cases estimated to be 20.3, a type I error of 5%, and a precision of 5%, at least 242 household contacts were required.

$$n = Z_{1}^2 a_{/2} P(1-P)/d^2$$
, where,  
 $n = sample size$   
 $Z_{1}^2 a_{/2} = confidence interval$   
 $P = estimated proportion$   
 $d = desired precision$ 

**Sampling method:** All the eligible subjects were recruited into the study consecutively by convenient sampling till the sample size is reached.

**Study duration:** The data collection for the study was done between January 2020 to January 2021 for a period of 12 months.

# **Inclusion Criteria:**

• Children less than 18 years, who are household contacts of adult TB patients, who have been receiving treatment under the NTEP.

### **Exclusion criteria:**

 Children who are contacts of temporary residents, unconfirmed cases based on laboratory testing, those who were not registered in NTEP, and those treated at a private hospital or clinic are excluded from the study.

**Ethical considerations:** The study was approved by the institutional human ethics committee. Informed written consent was obtained from all the study participants, and only those participants willing to sign the informed consent were included in the study. The risks and benefits involved in the study and the voluntary nature of participation were explained to the participants before obtaining consent. The confidentiality of the study participants was maintained.

**Data collection tools:** All the relevant parameters were documented in a structured study proforma.

## **Methodology:**

- Household contacts are defined as children who share the same kitchen, sleeping in
  the same area, for more than 3 months with index adult TB patients, both drugsensitive and multi-drug resistant TB patients who are taking treatment for TB.
- MDR-TB: Was defined as a strain of M. tuberculosis resistant to at least two of the most effective first-line drugs (Isoniazid and rifampicin), the most effectiveness ant-TB drug.
- Extensive Drug Resistant-Tuberculosis (XDR-TB): This was defined as TB caused by the strain of M. Tuberculosis that is resistant to at least two first-line drugs and

second-line fluoroquinolone and among second-line injectable drugs either (Amikacin, kanamycin, or capreomycin).

# **Study sampling:**

- The list of index TB cases receiving treatment for at least 6 months, was obtained from the district TB registrar, Kolar, and department of chest disease, SDUMC.
- From this list, the number of index TB cases was estimated in order to obtain a sufficient number of household contacts by simple random sampling.
- The index TB cases and their household contacts were then informed about the study, including all investigations required, and those who were willing to participate in the study were asked to sign a consent form independently and separately.
- The index TB cases and their respective household contacts were then interviewed for background and health-related characteristics by face-to-face/tele interviews.
- Eligible household contacts who agreed to participate in the study were requested to
  visit R L JALAPPA HOSPITAL, TAMAKA/TB Center, KOLAR for radiological and
  other investigations in the Paediatric department and TB and chest department, Kolar.
   Participation in this study was on voluntary basis. All household contacts were
  informed about the study.
- Written informed consent was obtained from all the participants who were willing and confirmed before the enrolment of the study.
- In the case of children, parental consent was obtained. After admission to the
  paediatric ward, contacts were subjected for routine investigation and special
  investigation to diagnose TB.
- If the cases are diagnosed TB positive clinically, they were referred to the Department of TB and Chest disease-Kolar, to initiate for further treatment and were followed.

- The prevalence of tuberculosis disease in paediatric household contacts was calculated. The proportion of diseased subjects with respect to multiple factors (age, gender, relationship with index case, nutritional status, BCG immunisation, socioeconomic status) was done using the Z test
- The Association of variables for occurrence of tuberculosis infection was calculated using bivariate regression analysis.
- Odds ratio and p-value was calculated to see the association of each variable with respect to TB infection
- The study population was children less than 18 years of age who were house hold contacts of adult TB patients were subjected to detailed history taking, physical examination including BCG immunisation status, nutritional status, tuberculosis skin test (Mantoux test), X-Ray chest, gastric aspirate for CBNAAT.
- Information regarding risk factors like age, gender, relation to the index case, BCG status, nutritional status, socioeconomic status was specifically included while taking history.

### **STATISTICAL METHODS:**

Tuberculosis disease and infection were considered as the primary outcome variable. Demographic profile (age, gender, locality, socioeconomic status, etc.) clinical parameters of household contacts was considered as Primary explanatory variables.

Descriptive analysis was carried out by mean and standard deviation for quantitative variables, frequency, and proportion for categorical variables. Non-normally distributed quantitative variables were summarized by the median and interquartile range (IQR). Data was also represented using appropriate diagrams like bar diagrams, pie diagrams.

All Quantitative variables were checked for normal distribution within each category of an explanatory variable by using visual inspection of histograms and normality Q-Q plots. Shapiro- Wilk test was also conducted to assess normal distribution. Shapiro Wilk test p-value of >0.05 was considered as a normal distribution.

The association between explanatory variables and categorical outcomes was assessed by cross-tabulation and comparison of percentages. The Chi-square test was used to test statistical significance. Univariate binary logistic regression analysis was performed to test the association between the explanatory variables and outcome variables. An unadjusted Odds ratio along with 95% CI is presented. Variables with statistical significance in univariate analysis were used to compute multivariate regression analysis. Adjusted odds ratio along with their 95% CI is presented.

P-value < 0.05 was considered statistically significant. Data were analyzed by using SPSS software, V.22.<sup>71</sup>

# OBSERVATIONS AND RESULTS

# **RESULTS:**

94 index cases with 248 household contacts were included in the final analysis.

**Table 2: Demographic details of the index cases (N=94)** 

Parameter	Index cases	Percentage	
Age Group			
<=20	19	20.21%	
21 to 35	39	41.49%	
36 to 50	12	12.77%	
>50	24	25.53%	
Gender			
Male	42	44.68%	
Female	52	55.32%	
Locality			
Rural	74	78.72%	
Urban	20	21.28%	
Socioeconomic Status			
Above Poverty Line	13	13.83%	
Below Poverty Line	81	86.17%	

The mean age was  $35.29 \pm 15.7$  years. Among the study population, 19 (20.21%) participants were aged up to 20 years, 39 (41.49%) were aged between 21 to 35 years, 12 (12.77%) were aged between 36 to 50 years, and 24 (25.53%) were aged 50 years and above. Out of 94 index cases, 42 (44.68%) were male, and 52 (55.32%) were female. Among the index cases, 74 (78.72%) participants were living in a rural area, and 20 (21.28%) participants were living in an urban area. Among the index cases, 13 (13.83%) participants were above the poverty line, and 81 (86.17) participants were below the poverty line. (Table 2 & Figure 1)

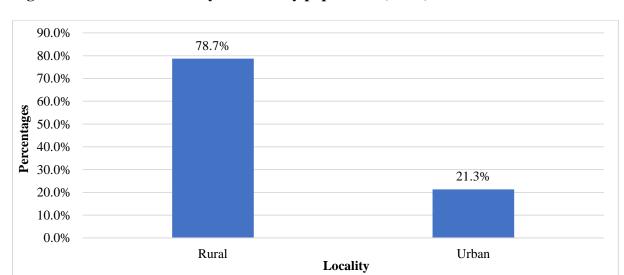


Figure 1: Bar chart of locality in the study population (N=94)

Table 3: Descriptive analysis of the type of patient and diagnosis of the index cases (N=94)

TYPE OF PATIENT	Index cases	Percentage	
New	82	87.23%	
Treatment after failure/lost to follow-up/died/cured	12	12.77%	
DIAGNOSIS OF THE INDEX CASE			
Drug-resistant	9	9.57%	
Drug sensitive	85	90.43%	

Out of 94 index cases, 82 (87.23%) were new patients, and 12 (12.77%) were treatment after failure.

Out of 94 index cases, 85 (90.43%) are drug sensitive & 9 (9.57%) are drug resistant. (Table 3)

Table 4: Descriptive analysis of the site of disease and case definition of the index cases (N=94)

Site of disease	Index cases	Percentages
Extra pulmonary	32	34.04%
Pulmonary	62	65.96%
Case Definition	Index cases	Percentages
Clinically diagnosed	16	17.02%
Microbiologically confirmed	78	47.87%

Out of 94 index cases, 32 (34.04%) participants had extra pulmonary, and 62 (65.96%) had Pulmonary.

Among the index cases, 16 (17.02%) participants were reported clinically diagnosed, 45 (47.87%) were reported as Microbiologically confirmed, and 78 (82.98%). (Table 4)

Table 5: Descriptive analysis of diabetic status, HIV status, and smoking status in the index cases (N=94)

Diabetic Status	Index cases	Percentages
Diabetic	16	17.02%
Non-diabetic	78	82.98%
HIV Status	Index cases	Percentages
Reactive	11	11.70%
Non-reactive	83	88.30%
Smoking Status	Index cases	Percentages
Yes	18	19.15%
No	76	80.85%

Out of 94 index cases, 16 (17.02%) had diabetic.

Out of 94 index cases, 11 (11.70%) were reported reactive HIV.

Out of 94 index cases, 18 (19.15%) were smokers. (Table 5)

Table 6: Descriptive analysis of the number of children <18 years of age in the family of index case residence (N=94)

Number of children <18 years of age in the family of index case residence	Index cases	Percentages
1	20	21.28%
2	36	38.30%
3	17	18.09%
4	12	12.77%
5	3	3.19%
7	6	6.38%

Out of 94 index cases, a number of children <18 years of age in the family are 1 child in 20 (21.28%) index families, 2 children in 36 (38.30%) index families, 3 children in 17 (18.09%) index families, 4 children in 12 (12.77%) index families, 5 children in 3 (3.19%) index families, 7 children in 6 (6.38%) index families. (Table 6)

# **Household Contacts:**

Table 7: Demographic details among household contacts (N=248)

Demographic variables	household contacts	Percentages
Children Age Group		
<= 5 years	114	45.97%
6 to 15 years	117	47.18%
>15 years	17	6.85%
Gender	household contacts	Percentage
Male	116	46.77%
Female	132	53.23%
Locality	household contacts	Percentage
Rural	207	83.47%
Urban	41	16.53%
Socioeconomic Status	household contacts	Percentage
Above Poverty Line	32	12.90%
Below Poverty Line	216	87.10%
<b>Duration of contact with the index case</b>	household contacts	Percentage
<3 month	135	55.10%
3 to 6 months	88	35.92%
>6 months to 2 years	22	8.98%
Relationship with index case	household contacts	Percentage
Parents	116	46.77%
Others	132	53.23%
Household Contact Sleeping in The Same Bedroom of Index Case >3 Days Per Week	household contacts	Percentage
Yes	185	74.60%
No	63	25.40%
Exposure to cigarette smoking	household contacts	Percentage
Yes	59	23.79%
No	189	76.21%

Among the house hold contacts, 114 (45.97%) participants were aged <=5 years, 117 (47.18%) were aged between 6 to 15 years and 17 (6.85%) were aged >15 years. Out of 248 house hold cases 116 (46.77%) were male and 132 (53.23%) were female. Among the house hold contacts, 207 (83.47%) participants were living in rural area and 41 (16.53%) participants were living in urban area. Among the house hold contacts, 32 (12.90%) participants were above poverty line and 216 (87.10%) participants were below poverty line. Out of 248 house hold contacts with Duration of contact with the index case. 135 (55.10%) were <3 months, 88 (35.92%) were 3 to 6 months and 22 (8.98%) were >6 months to 2 years duration. Among the house hold contacts, 116 (46.77%) were relationship with parents and 132 (53.23%) were relationship with others. Out of 248 house hold contacts, 59 (23.79%) were exposure to cigarette and smoking. (Table 7 & Figure 2, 3)

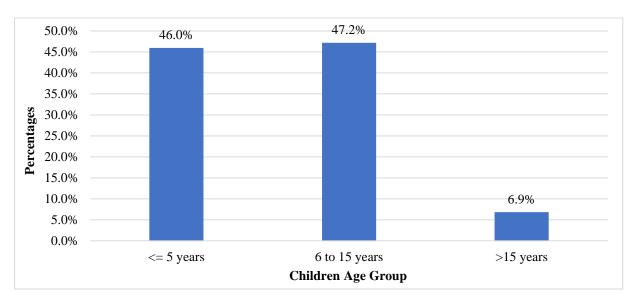
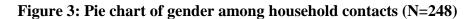


Figure 2: Bar chart of children age group among household contacts (N=248)



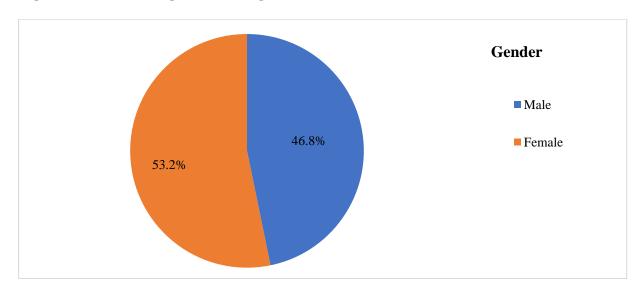


Table 8: Descriptive analysis of BCG vaccination & scar among household contacts (N=248)

BCG	household contacts	Percentages
Vaccination		
Done	248	100%
Scar		
Present	248	100%

All of them 100% house hold contacts were done vaccination and scar present. (Table 8)

Table 9: Descriptive analysis of clinical profile among household contacts (N=248)

Symptoms	household contacts	Percentage
Present	59	23.79%
Absent	189	76.20%
Fever (Persistent/ Unexplained for >2 weeks)		
Present	26	10.48%
Absent	222	89.52%
Cough (unremitting/ intermittent for >2 weeks)		
Present	22	8.87%
Absent	226	91.13%
Failure to thrive/ loss of weight (>5% weight loss in	the past 3 months?	
Present	50	20.16%
Absent	198	79.84%
Swelling/lumps on your neck/arms/pits/groin?		
Present	12	4.84%
Absent	236	95.16%
Symptoms of Meningitis during the illness?		
Present	8	3.23%
Absent	240	96.77%
Loss of appetite?		
Present	61	24.60%
Absent	187	75.40%

Out of 248 household contacts, 75 (30.24%) had symptoms, 26 (10.48%) had a fever, 22 (6.45%) had a cough, 50 (20.16%) were reported failure to thrive/ loss of weight, 12 (4.84%) were reported Swelling/lumps on your neck/arms/pits/groin, 8 (3.23%) participants had meningitis and 61 (24.60%) were reported loss of appetite. (Table 9 & Figure 4)



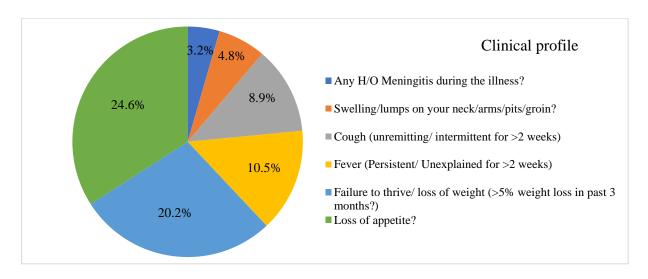


Table 10: Descriptive analysis of Mantoux test result among household contacts (N=248)

Mantoux Test Result	household contacts	Percentage
Positive	37	14.91%
Negative	211	85.08%

Out of 248 household contacts, 30 (12.10%) had Mantoux positive. (Table 10 & Figure 5)

Figure 5: Bar chart of Mantoux test result among household contacts (N=248)

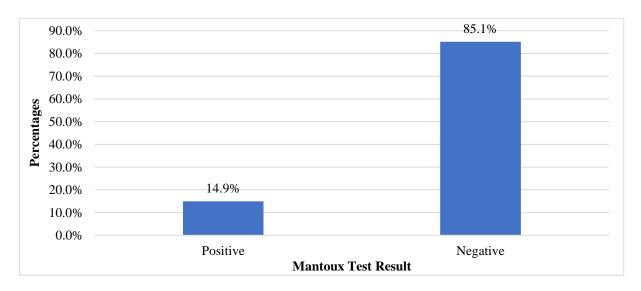
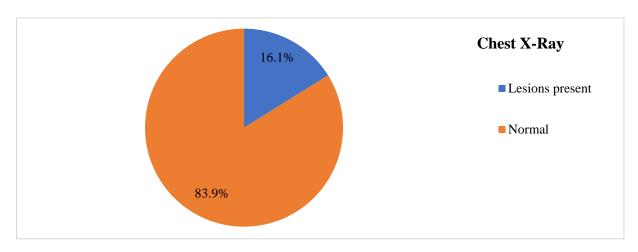


Table 11: Descriptive analysis of chest X-Ray among household contacts (N=248)

Chest X-Ray	household contacts	Percentages
Radiological signs present	40	16.13%
Normal	208	83.87%

Out of 248 house hold contacts, 40 (16.13%) were reported chest x-ray lesions present. (Table 11 & Figure 6)

Figure 6: Chest X-Ray among household contacts (N=248)



# Microbiological study:

Table 12: Descriptive analysis of CBC and ESR among household contacts (N=248)

CBC And ESR	household contacts	Percentages
ESR normal	2	0.81%
Leukopenia	3	1.21%
ESR raised	5	2.02%
Anaemia	6	2.42%
Leukocytosis	6	2.42%
Normal	88	35.48%
Not done	138	55.65%

Out of 248 household contacts, 6 (2.42%) participants had Leucocytosis and Anaemia for each, respectively. ESR raised was 5 (2.02%), and 2 (0.81%) were reported ESR normal. (Table 12)

Table 13: Descriptive analysis of Zn smear (induced sputum/gastric aspirate) among household contacts (N=248)

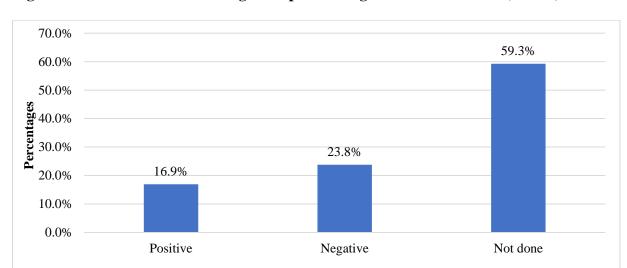
Zn Smear (Induced Sputum/Gastric Aspirate)	household contacts	Percentages
Positive	17	6.85%
Negative	11	4.44%
Not done	220	88.71%

Out of 248 household contacts 17 (6.85%) had Zn smear (induced sputum/gastric aspirate) positive. (Table 13)

Table 14: Descriptive analysis of CBNAAT/gene expert among household contacts (N=248)

CB NAAT/Gene Expert	household contacts	Percentages
Positive	42	16.94%
Negative	59	23.79%
Not done	147	59.27%

Out of 248 household contacts, 42 (16.94%) had CB NAAT/gene expert positive. (Table 14 & Figure 7)



**CB NAAT/Gene Expert** 

Figure 7: Bar chart of CBNAAT/gene expert among household contacts (N=248)

Table 15: Descriptive analysis of culture/MGIT among household contacts (N=248)

Culture/MGIT	Frequency	Percentages
Positive	17	6.85%
Negative	47	18.95%
Not done	184	74.19%

Out of 248 household contacts 17 (6.85%) had culture/MGIT positive. (Table 15)

Table 16: Descriptive analysis of line probe assay among household contacts (N=248)

Line Probe Assay	household contacts	Percentages	
Positive	1	0.40%	
Negative	9	3.63%	
Not done	238	95.97%	

Out of 248 household contacts, only 1 (0.40%) had line probe assay positive. (Table 16)

Table 17: Descriptive analysis of tuberculosis in the household contacts (N=248)

Tuberculosis	household contacts	Percentages	
Positive	89	35.89%	
Negative	159	64.11%	

Out of 248 household contacts, 89 (35.89%) had positive tuberculosis. (Table 17 & Figure 8)

Figure 8: Pie chart of tuberculosis in the household contacts (N=248)

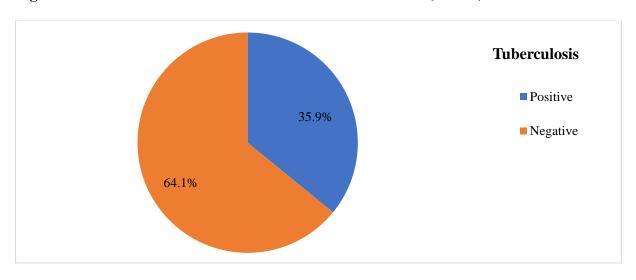


Table 18: Descriptive analysis of INH prophylaxis received in household contacts (N=248)

INH Prophylaxis Received	household contacts	Percentages
Yes	30	12.09%
No	218	98.90%

Out of 248 household contacts, 14 (5.65%) had INH prophylaxis received. (Table 18 & Figure 9)

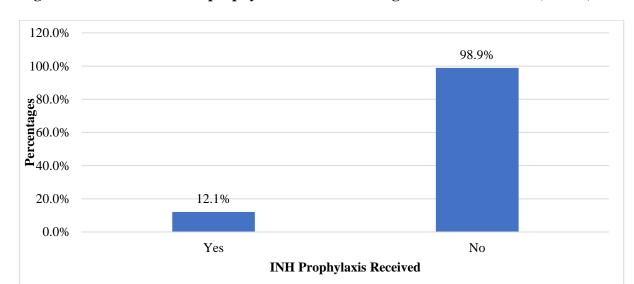


Figure 9: Bar chart of INH prophylaxis received among household contacts (N=248)

Table 19: Comparison of CXR, Mantoux chest, and CBNAAT test result (N=248)

CXR	Mantoux Test	Mantoux Test CBNAAT	
Lesions present	Positive	Positive	3
Normal	Positive	Negative	4
Normal	Negative	Positive	9

There were 3 people who reported as lesions present according to CXR, Mantoux positive and CBNAT positive, in normal CXR people who reported Mantoux test as positive and CB as negative were 4, where Mantoux test negative and CBNAT positive were 9. (Table 19)

Table 20: Analysis of Active cases and latent TB cases in household contacts (N=248)

Parameter	Symptom's present	CB NAAT Positive	Mantoux test positive
Total TB disease	59	39	7
	No symptoms	CB NAAT Negative	Mantoux test positive
Total Latent TB cases	189	38	30

Among 59 TB diseased cases who reported as symptomatic only 39 were positive as per CBNAAT among these 39 cases 7 only positive according to Mantoux test. In asymptomatic

latent cases 189, CBNAAT negative were 38 and among these 30 reported positive Mantoux test results. (Table 20 & Figure 10, 11)

Figure 10: Bar chart of TB disease cases (N=248)

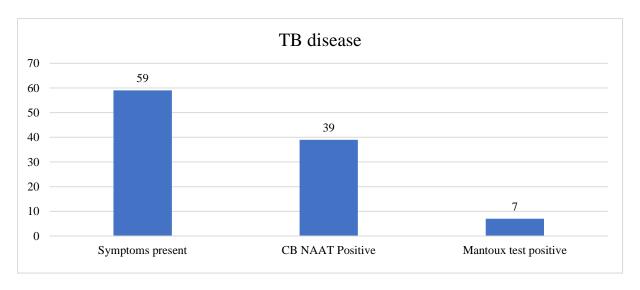


Figure 11: Bar chart of latent TB cases (N=248)

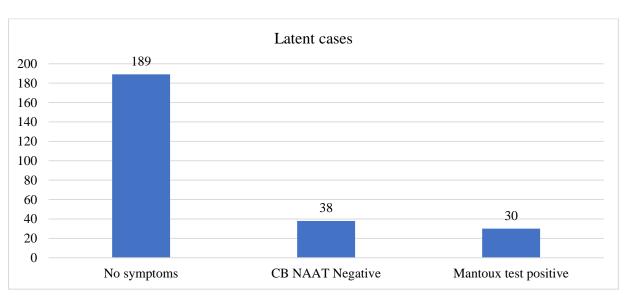


Table 21: Univariate analysis of risk factors associates with tuberculosis status (N=248)

П	Tuberculosis		Odds ratio	P	
Factors	Positive	Negative	(95% CI)	value	
Children age group					
<= 5 Years (N=114)	81 (71.05%)	33 (28.95%)	5.9 (1.93 to18.04)	0.002	
6 To 15 Years (N=117)	3 (2.56%)	114 (97.44%)	0.07 (0.02 to 0.3)	<0.001	
>15 Years (N=17)	5 (29.41%)	12 (70.59%)	(Baseline)		
Gender					
Male (N=116)	35 (30.17%)	81 (69.83%)	(Baseline)		
Female (N=132)	54 (40.91%)	78 (59.09%)	1.062 (0.946 to 2.713)	0.079	
Locality					
Rural (N=207)	83 (40.1%)	124 (59.9%)	3.91 (1.58 to 9.7)	0.003	
Urban (N=41)	6 (14.63%)	35 (85.37%)	(Baseline)		
Socioeconomic Status					
APL (N=32)	3 (9.38%)	29 (90.63%)	(Baseline)		
BPL (N=216)	86 (39.81%)	130 (60.19%)	6.4 (1.89 to21.65)	0.003	
<b>Duration of contact with index</b>	case (N=245)				
<3 Month (N=135)	51 (37.78%)	84 (62.22%)	2.07 (0.72 to 5.94)	0.179	
3 To 6 Months (N=88)	33 (37.5%)	55 (62.5%)	2.04 (0.69 to6.05)	0.198	
>6 Months (N=22)	5 (22.73%)	17 (77.27%)	(Baseline)		
Mantoux test result (N=86)					
Positive (N=30)	37 (100%)	0 (0%)	4353567855	0.998	
Negative (N=218)	55 (27.06%)	156(72.94%)	(Baseline)		
Chest X-Ray					
Lesions Present (N=40)	40 (100%)	0 (0%)	5424051091	0.997	
Normal (N=208)	49 (23.56%)	159 (76.44%)	(Baseline)		
Relationship with the index case					
Parents (N=116)	47 (40.52%)	69 (59.48%)	1.460 (0.867 to 2.458)	0.155	

Others (N=132)	42 (31.82%)	90 (68.18%)	(Baseline)		
Household contact sleeping in the same bedroom of index case >3 days per week					
Yes (N=185)	84 (45.41%)	101 (54.59%)	9.648 (3.70 to 25.15)	<0.001	
No (N=63)	5 (7.94%)	58 (92.06%)	(Baseline)		

The univariate logistic regression analysis had shown a statistically significant association with tuberculosis with many explanatory factors as presented in table 21.

# **DISCUSSION**

# **DISCUSSION:**

India accounts for 20% of new TB cases reported world-wide annually.<sup>72</sup> The high burden of TB prevalent in India is identified, but the actual burden of TB in children, particularly under five years of age in not known because diagnosis and treatment of children in TB in children are challenging. It is estimated that childhood TB constitutes 10 to 20% of all TB cases in high burden countries like India, accounting for 8 to 20% of TB-related deaths.<sup>32</sup> In 2016 76,745 childhood TB cases were reported in India, which accounts for only 5% of total notified TB cases in the country. This shows the amount of under-reporting or missed pediatric TB cases in the country 9. A paper in Infectious Disease Clinics of North America Journal published in 2010 states that TB is an emerging epidemic in areas having a high prevalence of adult TB. 47 The clinical and radiographic manifestations of TB are less specific in children in comparison with adults as they resemble bacterial pneumonia. Microbiologic confirmation is difficult due to the paucibacillary nature of TB in children. 73 TB, which is a major threat to child health, is a preventable condition requiring coordinated systemic efforts for prevention.<sup>74</sup> It is estimated that if left untreated, 40% of children under one year of age, 24% of children in the age group of one to ten years, and 16% of children in the age group of 11 to 15 years with latent TB infection may develop active disease. 75 Exposure of a child to an adult with pulmonary TB is found to increase mortality by 70% in children under five years of age in high burden countries and by eight-fold when the mother is infected.<sup>7</sup> The main risk factors for infection of TB in children are younger age, birth in a country with a high TB burden, and prolonged close contact with the index case. In children who are already infected, the risk of progression of disease increases with exposure to TB infection. The pretest probability of disease and positive predictive value of TB diagnostic tests may be modified with knowledge regarding the child's exposure intensity to index case.<sup>32</sup> The increased morbidity and mortality associated with TB in children mainly come from children under 2 years of age. The diagnosis of TB is based on two main tests, namely tuberculin skin test (TST) and interferon- γ release assays. These two tests have low sensitivity in infants and young children, and they do not differentiate latent infection from active disease. The estimated rate of diagnostic confirmation was only 19.2% in children in 2009. The collection of sputum samples is difficult in children under 10 years of age, and even if samples are collected, there were more false-negative results because of the paucibacillary nature of the disease in children.<sup>76</sup> It is recognized that there are three challenges in controlling TB globally, which include identification, diagnosis, and treatment of cases, particularly in children, the requirement of better, shorter treatment regimes, and the development of vaccines providing long-lasting protection. Improvements in the above-mentioned challenges will help in achieving the STOP TB goal by 2050.77 Because of the high prevalence of tuberculosis in young children and the ongoing difficulty in child TB diagnoses, the implementation of child contact management (CCM) is a critical upstream strategy for TB prevention in children. CCM also allows for early detection and treatment of cases. House hold contacts are defined as 'a person or group of people, related or unrelated, living together sharing a common source of food. 78 The child contact management cascade starts with the identification of all exposed children. The failure of identification leads to the first loss in the child contact management cascade. This paper aims to focus on the first challenge in the elimination of TB by determining the prevalence of tuberculosis infection and tuberculosis disease among paediatric household contacts aged <18 years of adult tuberculosis patients and by assessing the risk factors associated with occurrence of tuberculosis infection and disease among these paediatric contacts aged <18 years which may help in establishing the importance of contact management of children exposed to TB infection.

Tuberculosis was considered the primary outcome variable. Demographic profile (age, gender, locality, socioeconomic status, etc.) clinical parameters were considered as Primary explanatory variables. A total of 94 subjects and 248 contact responses were included in the final analysis. The mean age of 94 subjects who are infected was 35.29 ± 15.7 years. Among the study population, (7.66%) participants were aged up to 20 years, (15.73%) were aged between 21 to 35 years, (4.84%) were aged between 36 to 50 years, and (71.77%) were aged 50 years and above. Out of 94 participants (44.68%) were male, and (55.32%) were female. Out of 94 participants (90.43%) were index cases on Anti Tuberculosis Treatment (ATT). Out of 94 participants (34.04%), participants had extra pulmonary and (65.96%) had Pulmonary. This observation of the majority of them having pulmonary tuberculosis increases the risk of infection to household contacts because pulmonary tuberculosis is the main form of TB, which is transmitted to other individuals in contact as it is airborne.

Among the study participants, the economic status of 86.17% participants was below the poverty line. It was also noted that the majority of female participants were house wives and the participants involved in some kind of occupation also might have very low educational status as they were mainly performing agriculture and other occupations which require less education. This low socioeconomic status have a considerable effect on the infection rate of house hold contacts, particularly children. The transmission of TB depends on many epidemiological factors like time spent with the index case, proximity, the living conditions of the household, the number of rooms, etc. <sup>79</sup> Various factors which increase the risk of infection to household contacts due to low socio-economic status are small house, lack of nutrition, and above all, lack of awareness of contact transmission. In a review by Daria, S. et al. <sup>80</sup> on child contact management in high tuberculosis burden countries, lack of awareness was noted as one of the challenges in the implementation of child contact management. It was noted that

caregivers were uninformed about the need for child contact screening and the importance of isoniazid prophylaxis. Despite instruction about the importance of tuberculosis prevention, caregivers were hesitant to have child contacts screened or started on IPT. The most common reason was that child contacts were healthy and asymptomatic; therefore, caregivers did not perceive the need for tuberculosis screening or the initiation of prophylactic treatment with isoniazid. Out of 248 residence responses (35.89%) had Isoniazid prophylaxis received. Isoniazid prophylaxis has a proven role in the prevention of TB in child contacts of sputum smear-positive patients. 82

Out of 248 residence responses, 11.29% were Suggestive of TB, and 46.77% were not tested for tuberculosis. Among the contact respondents, 34.27% were found to have symptoms which shows that the actual percentage of respondents having TB may be higher than the reported 11.29%. This percentage of prevalence of TB in contact cases was almost similar to that reported in three similar studies. In a study by Devan Jaganath. et al. 83 10% prevalence of active tuberculosis in child contacts aged <15 years was reported, in a study by Htet, K. et al.84 percentage of TB cases detected among the household contacts was 13.8%, and in a study by Emerson, C. et al. 13.5% child contacts were diagnosed with TB. In another similar study by Geetika Srivastava. et al.<sup>63</sup> which evaluated the prevalence of TB in child contacts for a period of 9 years, showed that 21.1% of children were suffering from TB at the time of contact survey, and the number rose to 37.7% at 9 months. During the same time, 23.4% and 74.5% of children were detected to have a tubercular infection on the basis of positive TST. This observation was higher than that reported in a review of similar studies by Fox, G, J., et al. 85 in which the prevalence of TB among household contacts, both adult and children, was reported to be 3.1%; however, this study also reported a higher prevalence of TB among child contacts compared with adults. The high prevalence of TB in child contacts may be because of their immune susceptibility or due to their close proximity with index cases, particularly if the index case is their mother as they are primary care givers for children.

Among the respondents found to be positive for tuberculosis infection (71.05%) were children under five years of age, (2.56%) were children in the age group of 6 to 15 years and (29.41%) were above 15 years of age. This observation of the majority of child contacts developing infection being below 5 years of age correlates with the fact that children under five years are more vulnerable to TB infection because of their immune status, which is shown in the study by Geetika Srivastava. et al.<sup>63</sup> in which the prevalence of TB at recruitment was 1.76 times higher (29.1%) in children aged <6 years compared to children between 6 and 14 years (16.5%). It is also noted that around 38% of children under five developed the infection by a contact duration of less than 3 months with the index case.

Among study participants (19.15%) were smokers and out of 248 residents (23.79%) reported exposure to cigarette smoke. It has been established that smoking increases the risk of tuberculosis infection though the exact mechanism of increased risk is not known; smoking has been shown to reduce natural killer cytotoxic activity, to suppress T cell function in both lung and blood, to impair mucociliary clearance of particles, and to increase numbers of alveolar macrophages in the lower respiratory tract. Cells of the macrophage-phagocytic group influence immediate or innate immunity through their handling and elimination of mycobacteria, and products of cigarette smoke may therefore favor persistence and/or replication of ingested mycobacteria by impairing the macrophage or dendritic cell function.<sup>86</sup>

Among 94 adult participants with TB (9.57%) had drug-resistant and (90.43%) had drug-sensitive TB. This is inconsistent with the fact that MDR TB is reported to be low, with 2.2% among new cases and 15% among retreatment cases. So Since the drug-resistant TB in study participants was low, there is a very low chance of child contacts developing drug-resistant TB. In consistence with this observation, out of 248 residence responses (0.40%) had line probe assay positive, (9.68%) had CB NAAT/Gene expert positive, and (6.85%) had culture/mgit positive. CBNAAT provides a robust and promising role in the early diagnosis of TB in the head and neck, as well as other cases of smear-negative TB such as TB-HIV and MDR TB. Non-radiometric liquid culture methods called Mycobacterium Growth Indicator Tube (MGIT; Becton Dickinson) system has been introduced for better recovery of Mycobacterium. This MGIT 960 system is fully automated, non-radiometric, and used to incubate and monitor 960 samples at a time with an automated result-reporting system. The method is designed to shorten turnaround time with good recovery rate than conventional solid TB culture system.

# **SUMMARY**

## **SUMMARY:**

Rapid identification and management of exposed children in households with TB patients help in the prevention of TB to a great extent. TB in children usually occurs soon after exposure. Identifying children who are exposed and initiating TB preventive therapy will reduce the risk of infection in children. Though TB was considered a single infectious disease with a high rate of mortality in adults, it was not considered as a leading contributor to underfive mortalities until recently. This was mainly because of underreporting of TB-related mortality in children. Recent estimates by WHO indicate that TG is a significant contributor to under-five mortality, causing around 136,000 deaths annually. Understanding the true burden of disease in all age groups around the world is important to identify the gaps in the diagnosis of cases and to estimate the resources that need to be allocated to reduce the burden. Hence understanding the true burden of childhood TB is important. It helps in demonstration of the importance of TB as a cause for childhood morbidity and mortality. This study aimed to determine the prevalence of tuberculosis infection and tuberculosis disease among paediatric household contacts aged <18 years of adult tuberculosis patients and to assess the risk factors associated with the occurrence of tuberculosis infection and disease among these paediatric contacts aged <18 years which helps in establishing the importance of contact management of children exposed to TB infection. The study concludes that higher number of children, particularly children under five years of age in contact with adult TB patients develop the infection and this shows the importance of child contact identification, screening, and initiation of prophylaxis treatment. Child contact management can help in controlling paediatric TB.

# **CONCLUSIONS**

### **CONCLUSIONS:**

This study concludes that a higher number of children, particularly children under five years of age in contact with adult TB patients, living in rural area with below poverty line, sharing same bedroom, developed the infection, which shows the importance of child contact identification, screening, and initiation of prophylaxis treatment. Child contact management helps in controlling pediatric TB to a great extent.

#### **LIMITATIONS:**

This study included very small sample size, and hence generalization of results requires support from other similar large studies. The burden of TB infection reported in child contacts in the study might be higher than that reported because some children were not tested for TB, and there was no follow-up screening. Due to COVID 19 pandemic and country lockdown, face to face interviews were not possible for some cases.

### **RECOMMENDATIONS:**

This study recommends screening of all household child contacts of adult TB patients and initiation of isoniazid prophylaxis for prevention of development of TB infection in children.

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# **ANNEXURES**

A CROSS-SECTIONAL STUDY OF PREVALENCE AND RISK FACTORS FOR TB INFECTION AND DISEASE AMONG HOUSEHOLD CONTACTS OF TB PATIENTS WHO ARE AGED LESS THEN 18 YEARS OF AGE IN RURAL DISTRICT IN SOUTH INDIA.

Investigators: Dr J KRISHNAPPA / DR JAG MOHAN / DR NIRANJAN REDDY

InformedConsent
Form_
Date:
Age group: <7years I,(parent of/guardian of) aged, after being explained in my own vernacular language about the purpose of the study and the risks and complications of the procedure, hereby give my valid written informed consent without any force or prejudice for taking sputum sample, chest X-ray, gastric aspirate for CBNAAT and tuberculin skin test. The nature and risks involved have been explained to me to my satisfaction. I have been explained in detail about the study being conducted. I have read the patient information sheet and I have had the opportunity to ask any question. Any question that I have asked, has been answered to my satisfaction. I consent voluntarily to participate as a participant in this research. I hereby give consent to provide my history, undergo physical examination, undergo the procedure, undergo investigations and provide its results and documents etc to the doctor / institute etc. For academic and scientific purpose the procedure, etc may be video graphed or photographed. All the data may be published or used for any academic purpose. I will not hold the doctors / institute etc responsible for any untoward consequences during the procedure / study.  A copy of this Informed Consent Form and Patient Information Sheet has been provided to the participant.
(Signature & Name of Pt. Attendant) (Signature/Thumb impression & Name of Patient/Guardian) (Relation with patient)
Witness 1:
Witness 2:
(Signature & Name of Research person
/doctor)

#### **INFORMED CONSENT**

A CROSS-SECTIONAL STUDY OF PREVALENCE AND RISK FACTORS FOR TB INFECTION AND DISEASE AMONG HOUSEHOLD CONTACTS OF TB PATIENTS WHO ARE AGED LESS THEN 18 YEARS OF AGE IN RURAL DISTRICT IN SOUTH INDIA.

Investigators: Dr J KRISHNAPPA / DR JAG MOHAN / DR NIRANJAN REDDY

InformedConsent
<u>Form</u> D
ate:
Age group: 7-12years
I,(parent of/guardian of) aged, after being explained in my own vernacular language about the purpose of the study and the risks and complications of the procedure, hereby give my valid written informed consent without any force or prejudice for taking sputum sample, chest X-ray, gastric aspirate for CBNAAT and tuberculin skin test. The nature and risks involved have been explained to me to my satisfaction. I have been explained in detail about the study being conducted. I have read the patient information sheet and I have had the opportunity to ask any question. Any question that I have asked, has been answered to my satisfaction. It consent voluntarily to participate as a participant in this research. I hereby give consent to provide my history, undergo physical examination, undergo the procedure, undergo investigations and provide its results and documents etc to the doctor / institute etc. For academic and scientific purpose the procedure, etc may be video graphed or photographed. All the data may be published or used for any academic purpose. I will not hold the doctors / institute etc responsible for any untoward consequences during the procedure / study.  A copy of this Informed Consent Form and Patient Information Sheet has been provided to the participant.
(Signature & Name of Pt. Attendant) (Signature/Thumb impression & Name of Patient/Guardian) (Relation with patient)
Witness 1:
Witness 2:
(Signature & Name of Research person /doctor)
Witness 1: Witness 2:

### **INFORMED CONSENT**

# A CROSS-SECTIONAL STUDY OF PREVALENCE AND RISK FACTORS FOR TB INFECTION AND DISEASE AMONG HOUSEHOLD CONTACTS OF TB PATIENTS WHO ARE AGED LESS THEN 18 YEARS OF AGE IN RURAL DISTRICT IN SOUTH INDIA.

Investigators: Dr J KRISHNAPPA / DR JAG MOHAN / DR NIRANJAN REDDY

InformedConsent_
Form_
Date:
Age group: >12years
I,(parent of/guardian of) aged, after being explained in my own vernacular language about the purpose of the study and the risks and complications of the procedure, hereby give my valid written informed consent without any force or prejudice for taking sputum sample, chest X-ray, gastric aspirate for CBNAAT and tuberculin skin test. The nature and risks involved have been explained to me to my satisfaction. I have been explained in detail about the study being conducted. I have read the patient information sheet and I have had the opportunity to ask any question. Any question that I have asked, has been answered to my satisfaction. I consent voluntarily to participate as a participant in this research. I hereby give consent to provide my history, undergo physical examination, undergo the procedure, undergo investigations and provide its results and documents etc to the doctor / institute etc. For academic and scientific purpose the procedure, etc may be video graphed or photographed. All the data may be published or used for any academic purpose. I will not hold the doctors / institute etc responsible for any untoward consequences during the procedure / study.  A copy of this Informed Consent Form and Patient Information Sheet has been provided to
the participant.
(Signature & Name of Pt. Attendant) (Signature/Thumb impression & Name of Patient/Guardian) (Relation with patient)
(signature and name of the child)
Witness 1:
Witness 2:
(Signature & Name of Research person /doctor)

PATIENT INFORMATION SHEET

Study: A CROSS-SECTIONAL STUDY OF PREVALENCE AND RISK FACTORS FOR

TB INFECTION AND DISEASE AMONG HOUSEHOLD CONTACTS OF TB PATIENTS

WHO ARE AGED LESS THEN 18 YEARS OF AGE IN RURAL DISTRICT IN SOUTH

INDIA.

Investigators: Dr J KRISHNAPPA / DR JAG MOHAN / DR NIRANJAN REDDY

Study location: PAEDIATRIC DEPARTMENT, TB AND CHEST DEPARTMENT OF R L

JALAPPA HOSPITAL, TAMAKA

Details -

This study was aimed to determine the prevalence and associated factors with TB

transmission among household contacts of index cases in one of the district tuberculosis unit

in South India.

Please read the information and discuss with your family members. You can ask any question

regarding the study. If you agree to participate in the study we will collect information.

Relevant history will be taken. This information collected will be used only for dissertation

and publication.

All information collected from you will be kept confidential and will not be disclosed to any

outsider. Your identity will not be revealed. There is no compulsion to agree to this study.

The care you will get will not change if you don't wish to participate. You are required to

sign/ provide thumb impression only if you voluntarily agree to participate in this study.

For further information contact

Dr. Niranjan Reddy.B

Post graduate

Dept of PEDIATRICS, SDUMC Kolar

Mobile no: 9959372288

nirubommareddy@gmail.com

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### STUDY PRO-FORMA

STUDITRO-TORMA	
DETAILS OF INDEX CASE:	
NAME:	
AGE:	
GENDER:	
ADDRESS(URBAN/RURAL):	
MOBILE NUMBER:	
DATE OF INTERVIEW:	
OCCUPATION:	
SOCIOECONOMIC STATUS(APL/BPL):	
TYPE OF PATIENT (NEW/RECURRENT/ TRANSFERRED	IN/ TREATMENT AFTER
FAILURE):	
DIAGNOSIS OF INDEX CASE (DRUG SENSITIVE/ DRUG F	· ·
SITE OF DISEASE: i) PULMONARY ii) EXTRA PULMO	
CASE DEFINITION: i) MICROBIOLOGICALLY CONFIRM	ED
ii) CLINICALLY DIAGNOSED TB WEATHER INDEX CASE ON ATT:	
DURATION OF ATT:	
NIKSHAY ID/ UHID:	
WAS THE PATIENT SCREENED FOR TB IN THE HOUSEH	OLD? (YES/NO)
DATE OF INITIATION OF TREATMENT:	(122/1(0)
HIV STATUS: i) UNKNOWN ii) REACTIVE	iii) NON REACTIVE
DIABETIC STATUS: i) UNKNOWN ii) DIABET	
DIABETIC	
SMOKING: i) YES ii) NO	
NUMBER OF CHILDREN LESS THAN 18 YEARS OF A	AGE IN THE FAMILY OF
INDEX CASE RESIDENCE:	
HOUSEHOLD CONTACTS	
NAME GENDER	AGE
NAME	AOL

Duration of contact with index case:
CLINICAL PARAMETERS:
I) Fever (Persistent Unexplained)?Duration
Ii) Cough(Persistent Unremitting)?Duration
Iii) Failure To Thrive/ Loss Of Weight (>5% Weight Loss In Past 3 Months?
Iv) Swelling/Lumps On Your Neck/Arms/Pits/Groin?
V) Any H/O Meningitis?
Vi)Loss Of Appetite?
Vii) Exposure To Cigarette Smoke?
Viii) Present History Suggestive Of Meningitis?
If Yes,
INDEX CASE INVESTIGATIONS:
Investigations of the contact:
CBC, ESR:
MANTOUX TEST RESULT:
CXR:
I.V. ANTIBIOTICS RECEIVED:
USG:
CT CHEST:
ZN SMEAR: (INDUCED SPUTUM/ GASTRIC ASPIRATE):
CBNAAT/ GENE EXPERT:
CULTURE/ MGIT
LINE PROBE ASSAY:
LAMP:
BCG VACCINATION:
BSG SCAR:
PROPHYLAXIS RECEIVED FOR PREVENTION FOR TR

### MASTER SHEET

٧١	Sno	Age	Age group	Gender	Locality	Socioeconomic status aplbpl	Date of interview	Occupation	Type of patient new recurrent transferred in treatment after fa	Diagnosis of index case drug sensitive drug resistant	Site of disease pulmonary extrapulmonary	Case definition microbiologically confirmed clinically diagnose
1	1	7	<=20	Female	Rural	BPL	44171	Student	New	Drug sensitive	Pulmonary	Clinically diagnosed
2	2	17	<=20	Female	Rural	BPL	44146	Student	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
3	3	17	<=20	Female	Rural	APL	14/10/20	Student	New	Drug sensitive	Pulmonary	Both
4				Female	Rural	APL						
5	4	43	36 to 50	Male	Rural	BPL	43924	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
6	5	20	<=20	Female	Urban	BPL	18/2/21	House wife	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
7	6	16	<=20	Female	Rural	BPL	14/10/20	Student	New	Drug sensitive	Pulmonary	Microbiologically confirmed
8	7	16	<=20	Female	Urban	BPL	44171	Student	New	Drug sensitive	Pulmonary	Microbiologically confirmed
9	8	33	21 to 35	Male	Rural	BPL	18/2/21	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
10	9	45	36 to 50	Male	Rural	BPL	44171	Vendor	New	Drug sensitive	Pulmonary	Clinically diagnosed
11	10	45	36 to 50	Female	Rural	BPL	44171	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
12				Female	Rural	BPL						
13	11	28	21 to 35	Female	Urban	BPL	25/2/20	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
14				Female	Urban	BPL						
15				Female	Urban	BPL						
16	12	3	<=20	Female	Urban	APL	25/2/20	Workers not reporting occupation	New	Drug sensitive	Extra pulmonary	Both
17				Female	Urban	APL						
18	13	35	21 to 35	Female	Rural	BPL	25/2/20	Labourer	New	Drug sensitive	Pulmonary	Microbiologically confirmed
19	14	17	<=20	Female	Rural	BPL	25/2/20	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
20	15	25	21 to 35	Female	Rural	BPL	25/2/20	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
21				Female	Rural	BPL						

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22	16	34	21 to 35	Female	Rural	APL	44171	House wife	New	Drug sensitive	Extra pulmonary	Both
23				Female	Rural	APL						
24	17	23	21 to 35	Female	Urban	BPL	18/2/21	House wife	New	Drug resistant	Pulmonary	Both
25				Female	Urban	BPL						
26				Female	Urban	BPL						
27	18	29	21 to 35	Male	Urban	APL	14/10/20	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
28				Male	Urban	APL						
29	19	55	>50	Female	Urban	BPL	44171	House wife	New	Drug sensitive	Pulmonary	Both
30				Female	Urban	BPL						
31	20	55	>50	Female	Rural	BPL	23/12/20	House wife	New	Drug sensitive	Pulmonary	Both
32				Female	Rural	BPL						
33	21	29	21 to 35	Male	Rural	BPL	23/12/20	Miner	New	Drug sensitive	Pulmonary	Microbiologically confirmed
34				Male	Rural	BPL						
35				Male	Rural	BPL						
36				Male	Rural	BPL						
37				Male	Rural	BPL						
38	22	56	>50	Male	Rural	BPL	23/12/20	Miner	New	Drug sensitive	Pulmonary	Microbiologically confirmed
39				Male	Rural	BPL						
40	23	25	21 to 35	Male	Rural	BPL	18/2/21	Student	New	Drug sensitive	Pulmonary	Microbiologically confirmed
41				Male	Rural	BPL						<u> </u>
42				Male	Rural	BPL						
43	24	53	>50	Male	Rural	BPL	18/2/21	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Microbiologically confirmed
44				Male	Rural	BPL		, , , , , , , , , , , , , , , , , , , ,		. J		
45				Male	Rural	BPL						
46	25	32	21 to 35	Female	Rural	BPL	18/2/21	House wife	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
47		- 02	2.1000	Female	Rural	BPL	10/2/21			2.ug conomic	zana pamienary	omnouny alagnooda
48	26	43	36 to 50	Male	Rural	BPL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
49			20 10 00	Male	Rural	BPL	20/12/20	7.g. os. caro, nonory rotated tabout		2.39 00101110	. a.monary	
50				Male	Rural	BPL						
51	27	65	>50	Male	Rural	BPL	23/12/20	Agriculture, fishery related labour	New	Drug consitive	Pulmonary	Both
	21	65	>00				23/12/20	Agriculture, listlery related labour	INEW	Drug sensitive	Fulfilonary	DUIII
52				Male	Rural	BPL					1	

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53				Male	Rural	BPL						
54				Male	Rural	BPL						
55	28	60	>50	Male	Urban	BPL	23/12/2020	Drivers and mobile plant operators	New	Drug sensitive	Pulmonary	Both
56				Male	Urban	BPL						
57	29	20	<=20	Female	Rural	BPL	44171	Student	Treatment after failure	Drug sensitive	Pulmonary	Microbiologically confirmed
58				Female	Rural	BPL						
59	30	30	21 to 35	Male	Rural	APL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Microbiologically confirmed
60				Male	Rural	APL						
61				Male	Rural	APL						
62				Male	Rural	APL						
63	31	53	>50	Male	Rural	BPL	44053	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
64				Male	Rural	BPL						
65				Male	Rural	BPL						
66				Male	Rural	BPL						
67	32	27	21 to 35	Female	Rural	BPL	23/12/20	House wife	Treatment after failure	Drug resistant	Pulmonary	Microbiologically confirmed
68				Female	Rural	BPL					,,	The state of the s
69				Female	Rural	BPL						
70	33	35	21 to 35	Female	Rural	BPL	44053	House wife	New	Drug sensitive	Pulmonary	Both
71	33	- 33	21 10 33	Female	Rural	BPL	44000	House wife	New	Drug serisitive	Fullionary	Dotti
	0.4		20.4- 50				44474	A minute on fish and related laboration	Name	Davis a sa siti sa	Fotos audores and	Missabislasiasllussastissassa
72	34	50	36 to 50	Male	Rural	BPL	44171	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
73				Male	Rural	BPL						
74				Male	Rural	BPL						
75				Male	Rural	BPL						
76	35	23	21 to 35	Female	Rural	BPL	44171	House wife	Treatment after failure	Drug sensitive	Extra pulmonary	Microbiologically confirmed
77				Female	Rural	BPL						
78				Female	Rural	BPL				1		
79				Female	Rural	BPL						
80				Female	Rural	BPL						
81				Female	Rural	BPL				1		
82				Female	Rural	BPL				1		
83	36	55	>50	Male	Rural	BPL	18/8/20	Agriculture, fishery related labour	Treatment after failure	Drug resistant	Pulmonary	Microbiologically confirmed

1 1	1					1		1		I	I	1
84				Male	Rural	BPL						
85				Male	Rural	BPL						
86				Male	Rural	BPL						
87				Male	Rural	BPL						
88				Male	Rural	BPL						
89				Male	Rural	BPL						
90	37	9	<=20	Female	Rural	BPL	18/2/21	Student	New	Drug sensitive	Pulmonary	Clinically diagnosed
91	38	17	<=20	Female	Rural	BPL	44146	Student	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
92	39	17	<=20	Female	Rural	APL	14/10/20	Student	New	Drug sensitive	Pulmonary	Both
93				Female	Rural	APL						
94	40	43	36 to 50	Male	Rural	BPL	43924	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
95	41	20	<=20	Female	Urban	BPL	18/2/21	House wife	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
96	42	16	<=20	Female	Rural	BPL	14/10/20	Student	New	Drug sensitive	Pulmonary	Microbiologically confirmed
97	43	16	<=20	Female	Urban	BPL	44171	Student	New	Drug sensitive	Pulmonary	Microbiologically confirmed
98	44	33	21 to 35	Male	Rural	BPL	18/2/21	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
99	45	45	36 to 50	Male	Rural	BPL	44171	Vendor	New	Drug sensitive	Pulmonary	Clinically diagnosed
100	46	45	36 to 50	Female	Rural	BPL	44171	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
101				Female	Rural	BPL						
102	47	28	21 to 35	Female	Urban	BPL	25/2/20	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
103				Female	Urban	BPL						
104				Female	Urban	BPL						
105	48	3	<=20	Female	Urban	APL	25/2/20	Workers not reporting occupation	New	Drug sensitive	Extra pulmonary	Both
106				Female	Urban	APL						
107	49	35	21 to 35	Female	Rural	BPL	25/2/20	Labourer	New	Drug sensitive	Pulmonary	Microbiologically confirmed
108	50	17	<=20	Female	Rural	BPL	25/2/20	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
109	51	25	21 to 35	Female	Rural	BPL	25/2/20	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
110			_	Female	Rural	BPL						
111	52	34	21 to 35	Female	Rural	APL	44171	House wife	New	Drug sensitive	Extra pulmonary	Both
112				Female	Rural	APL			_		. ,	
113	53	23	21 to 35	Female	Urban	BPL	18/2/21	House wife	New	Drug resistant	Pulmonary	Both
114				Female	Urban	BPL						

115				Female	Urban	BPL					1	
116	54	29	21 to 35	Male	Urban	APL	14/10/20	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
117				Male	Urban	APL			-			
118	55	55	>50	Female	Urban	BPL	44171	House wife	New	Drug sensitive	Pulmonary	Both
119				Female	Urban	BPL					,	
120	56	55	>50	Female	Rural	BPL	23/12/20	House wife	New	Drug sensitive	Pulmonary	Both
121				Female	Rural	BPL						
122	57	29	21 to 35	Male	Rural	BPL	23/12/20	Miner	New	Drug sensitive	Pulmonary	Microbiologically confirmed
123				Male	Rural	BPL						
124				Male	Rural	BPL						
125				Male	Rural	BPL						
126				Male	Rural	BPL						
127	58	56	>50	Male	Rural	BPL	23/12/20	Miner	New	Drug sensitive	Pulmonary	Microbiologically confirmed
128				Male	Rural	BPL						
129	59	25	21 to 35	Male	Rural	BPL	18/2/21	Student	New	Drug sensitive	Pulmonary	Microbiologically confirmed
130				Male	Rural	BPL						
131				Male	Rural	BPL						
132	60	53	>50	Male	Rural	BPL	18/2/21	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Microbiologically confirmed
133				Male	Rural	BPL						
134				Male	Rural	BPL						
135	61	32	21 to 35	Female	Rural	BPL	18/2/21	House wife	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
136				Female	Rural	BPL						
137	62	43	36 to 50	Male	Rural	BPL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
138				Male	Rural	BPL						
139				Male	Rural	BPL						
140	63	65	>50	Male	Rural	BPL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
141				Male	Rural	BPL						
142				Male	Rural	BPL						
143				Male	Rural	BPL						
144	64	60	>50	Male	Urban	BPL	23/12/2020	Drivers and mobile plant operators	New	Drug sensitive	Pulmonary	Both
145				Male	Urban	BPL						

146	65	20	<=20	Female	Rural	BPL	44171	Student	Treatment after failure	Drug sensitive	Pulmonary	Microbiologically confirmed
147	65	20	<=20	Female	Rural	BPL	44171	Student	Treatment after failure	Drug serisitive	Fullionary	Microbiologically confirmed
	66	30	21 to 35	Male	Rural	APL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Microbiologically confirmed
148	00	30	21 10 33				23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Fullionary	Microbiologically confirmed
149				Male	Rural	APL						
150				Male	Rural	APL						
151				Male	Rural	APL			1	5		5.4
152	67	53	>50	Male	Rural	BPL	44053	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
153				Male	Rural	BPL						
154				Male	Rural	BPL						
155				Male	Rural	BPL						
156	68	27	21 to 35	Female	Rural	BPL	23/12/20	House wife	Treatment after failure	Drug resistant	Pulmonary	Microbiologically confirmed
157				Female	Rural	BPL						
158				Female	Rural	BPL						
159	69	35	21 to 35	Female	Rural	BPL	44053	House wife	New	Drug sensitive	Pulmonary	Both
160				Female	Rural	BPL						
161	70	50	36 to 50	Male	Rural	BPL	44171	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
162				Male	Rural	BPL						
163				Male	Rural	BPL						
164				Male	Rural	BPL						
165	71	23	21 to 35	Female	Rural	BPL	44171	House wife	Treatment after failure	Drug sensitive	Extra pulmonary	Microbiologically confirmed
166				Female	Rural	BPL						
167				Female	Rural	BPL						
168				Female	Rural	BPL						
169				Female	Rural	BPL						
170				Female	Rural	BPL						
171				Female	Rural	BPL				-		
172	72	55	>50	Male	Rural	BPL	18/8/20	Agriculture, fishery related labour	Treatment after failure	Drug resistant	Pulmonary	Microbiologically confirmed
173				Male	Rural	BPL						
174				Male	Rural	BPL						
175				Male	Rural	BPL						
176				Male	Rural	BPL						

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177				Male	Rural	BPL						
178				Male	Rural	BPL						
179	73	25	21 to 35	Female	Rural	BPL	25/2/20	House wife	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
180				Female	Rural	BPL						
181	74	34	21 to 35	Female	Rural	APL	44171	House wife	New	Drug sensitive	Extra pulmonary	Both
182				Female	Rural	APL						
183	75	23	21 to 35	Female	Urban	BPL	18/2/21	House wife	New	Drug resistant	Pulmonary	Both
184				Female	Urban	BPL						
185				Female	Urban	BPL						
186	76	29	21 to 35	Male	Urban	APL	14/10/20	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
187				Male	Urban	APL						, ,
188	77	55	>50	Female	Urban	BPL	44171	House wife	New	Drug sensitive	Pulmonary	Both
189				Female	Urban	BPL						
190	78	55	>50	Female	Rural	BPL	23/12/20	House wife	New	Drug sensitive	Pulmonary	Both
191	70	- 55	200	Female	Rural	BPL	20/12/20	Flouse wife	New	Drug scrisitive	runnonary	Bour
192	79	29	21 to 35	Male	Rural	BPL	23/12/20	Miner	New	Drug sensitive	Pulmonary	Microbiologically confirmed
193	13	23	211033	Male	Rural	BPL	23/12/20	IVIIIIEI	New	Drug serisitive	Fullifoliary	wilcrobiologically confirmed
194				Male	Rural	BPL						
195				Male	Rural	BPL						
196				Male	Rural	BPL						
197	80	56	>50	Male	Rural	BPL	23/12/20	Miner	New	Drug sensitive	Pulmonary	Microbiologically confirmed
198				Male	Rural	BPL						
199	81	25	21 to 35	Male	Rural	BPL	18/2/21	Student	New	Drug sensitive	Pulmonary	Microbiologically confirmed
200				Male	Rural	BPL						
201				Male	Rural	BPL						
202	82	53	>50	Male	Rural	BPL	18/2/21	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Microbiologically confirmed
203				Male	Rural	BPL						
204				Male	Rural	BPL						
205	83	32	21 to 35	Female	Rural	BPL	18/2/21	House wife	New	Drug sensitive	Extra pulmonary	Clinically diagnosed
206				Female	Rural	BPL						
207	84	43	36 to 50	Male	Rural	BPL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both

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208				Male	Rural	BPL				+		
209				Male	Rural	BPL						
210	85	65	>50	Male	Rural	BPL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
211				Male	Rural	BPL				-		
212				Male	Rural	BPL						
213				Male	Rural	BPL						
214	86	60	>50	Male	Urban	BPL	23/12/2020	Drivers and mobile plant operators	New	Drug sensitive	Pulmonary	Both
215				Male	Urban	BPL						
216	87	20	<=20	Female	Rural	BPL	44171	Student	Treatment after failure	Drug sensitive	Pulmonary	Microbiologically confirmed
217				Female	Rural	BPL						
218	88	30	21 to 35	Male	Rural	APL	23/12/20	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Microbiologically confirmed
219				Male	Rural	APL						
220				Male	Rural	APL						
221				Male	Rural	APL						
222	89	53	>50	Male	Rural	BPL	44053	Agriculture, fishery related labour	New	Drug sensitive	Pulmonary	Both
223				Male	Rural	BPL						
224				Male	Rural	BPL						
225				Male	Rural	BPL						
226	90	27	21 to 35	Female	Rural	BPL	23/12/20	House wife	Treatment after failure	Drug resistant	Pulmonary	Microbiologically confirmed
227				Female	Rural	BPL						
228				Female	Rural	BPL						
229	91	35	21 to 35	Female	Rural	BPL	44053	House wife	New	Drug sensitive	Pulmonary	Both
230				Female	Rural	BPL						
231	92	50	36 to 50	Male	Rural	BPL	44171	Agriculture, fishery related labour	New	Drug sensitive	Extra pulmonary	Microbiologically confirmed
232				Male	Rural	BPL		- gramma, name, name, name				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
233				Male	Rural	BPL						
234				Male	Rural	BPL						
235	93	23	21 to 35	Female	Rural	BPL	44171	House wife	Treatment after failure	Drug sensitive	Extra pulmonary	Microbiologically confirmed
236	33	23	211033	Female	Rural	BPL	-171//	LIOUSE WILE	Treatment after failure	Drug serisitive	Extra pulliforiary	whorobiologically collillined
										1		
237				Female	Rural	BPL						
238		l		Female	Rural	BPL						

239				Female	Rural	BPL						
240				Female	Rural	BPL						
241				Female	Rural	BPL						
242	94	55	>50	Male	Rural	BPL	18/8/20	Agriculture, fishery related labour	Treatment after failure	Drug resistant	Pulmonary	Microbiologically confirmed
243				Male	Rural	BPL						
244				Male	Rural	BPL						
245				Male	Rural	BPL						
246				Male	Rural	BPL						
247				Male	Rural	BPL						
248				Male	Rural	BPL						

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1	2	No	Non reactive	Non diabetic	No		1.0	1	9 years	9.00	6 to 15 years	Negative
2	1	No	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	2	12 years	12.00	6 to 15 years	Negative
3	2	No	Non reactive	Non diabetic	No	CBC,esr, cxr, cbnaat, ZN stain	2.0	3	14 years	14.00	6 to 15 years	Negative
4								4	12 years	12.00	6 to 15 years	Negative
5	2	No	Non reactive	Diabetic	No	CBC,esr, cxr, cbnaat, ZN stain	1.0	5	17 years	17.00	>15 years	Positive
6	4	Yes	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	6	11 months	0.92	<= 5 years	Negative
7	3	No	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	7	13 years	13.00	6 to 15 years	Negative
8	2	No	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	8	8 years	8.00	6 to 15 years	Negative
9	4	No	Non reactive	Non diabetic	No	CBC, cxr, esr, cbnaat	1.0	9	3 years	3.00	<= 5 years	Negative
10	4	No	Reactive	Diabetic	No	CBC, ZN stain, cxr, esr, CT chest	1.0	10	17 years	17.00	>15 years	Negative
11	3	No	Non reactive	Non diabetic	No	CBC, esr, cxr	2.0	11	17 years	17.00	>15 years	Negative
12								12	14 years	14.00	6 to 15 years	Negative
13	6	No	Non reactive	Non diabetic	No	CBC, esr, cxr	3.0	13	11 years	11.00	6 to 15 years	Negative
14								14	14 years	14.00	6 to 15 years	Negative
15								15	17 years	17.00	>15 years	Negative
16	6	No	Non reactive	Non diabetic	No	CBC, esr, cxr	2.0	16	5 years	5.00	<= 5 years	Negative
17								17	9 years	9.00	6 to 15 years	Negative
18	6	No	Reactive	Non diabetic	No	CBC, esr, cxr, cbnaat	1.0	18	10 years	10.00	6 to 15 years	Negative
19	4	No	Reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, ZN stain, culture	1.0	19	13 years	13.00	6 to 15 years	Negative
20	1	No	Reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, culture	2.0	20	4 years	4.00	<= 5 years	Negative
21								21	2 years	2.00	<= 5 years	Negative
22	4	No	Non reactive	Non diabetic	No	CBC, esr,cxr,microscopy,	2.0	22	8 years	8.00	6 to 15 years	Negative
23								23	3 years	3.00	<= 5 years	Negative
24	4	No	Non reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, Lpa, culture	3.0	24	9 years	9.00	6 to 15 years	Negative

25								25	6 years	6.00	6 to 15 years	Negative
26								26	4 years	4.00	<= 5 years	Positive
27	3	No	Non reactive	Non diabetic	No	Cxr, cbc, esr	2.0	27	3 years	3.00	<= 5 years	Negative
28								28	10 months	0.83	<= 5 years	Negative
29	6	Yes	Non reactive	Non diabetic	No	CBC, ZN stain	2.0	29	16 years	16.00	>15 years	Positive
30								30	11 years	11.00	6 to 15 years	Negative
31	2	No	Non reactive	Diabetic	No	CBC, esr, cbnaat, ZN microscopy	2.0	31	2 years	2.00	<= 5 years	Positive
32								32	4 years	4.00	<= 5 years	Positive
33	2	No	Non reactive	Diabetic	No	Cbnaat, cxr, ZN microscopy	5.0	33	2 years	2.00	<= 5 years	Positive
34								34	3 years	3.00	<= 5 years	Positive
35								35	1 year 2 months	1.17	<= 5 years	Positive
36								36	8 years	8.00	6 to 15 years	Negative
37								37	7 years	7.00	6 to 15 years	Negative
38	2	Yes	Non reactive	Diabetic	Yes	Cbnaat	2.0	38	4 years	4.00	<= 5 years	Positive
39								39	2 years	2.00	<= 5 years	Positive
40	4	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	3.0	40	4 years	4.00	<= 5 years	Positive
41								41	3 years	3.00	<= 5 years	Positive
42								42	2 years	2.00	<= 5 years	Positive
43	4	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy, Lpa	3.0	43	1 year	1.00	<= 5 years	Positive
44								44	3 years	3.00	<= 5 years	Positive
45								45	2 years	2.00	<= 5 years	Positive
46	3	No	Non reactive	Non diabetic	No	CBC, esr, cxr	2.0	46	12 years	12.00	6 to 15 years	Negative
47								47	8 years	8.00	6 to 15 years	Negative
48	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	3.0	48	11 years	11.00	6 to 15 years	Negative
49								49	13 years	13.00	6 to 15 years	Negative
50								50	7 years	7.00	6 to 15 years	Positive
51	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	4.0	51	2 years	2.00	<= 5 years	Positive
52								52	3 years	3.00	<= 5 years	Positive
53								53	7 years	7.00	6 to 15 years	Negative
54								54	8 years	8.00	6 to 15 years	Negative
55	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy, Line probe assay	2.0	55	8 years	8.00	6 to 15 years	Negative
56								56	10 years	10.00	6 to 15 years	Negative

57	3	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	2.0	57	11 years	11.00	6 to 15 years	Negative
58								58	16 years	16.00	>15 years	Negative
59	3	No	Non reactive	Non diabetic	No	Cbnaat	4.0	59	9 years	9.00	6 to 15 years	Negative
60								60	7 years	7.00	6 to 15 years	Negative
61								61	6 years	6.00	6 to 15 years	Negative
62								62	1 year 10 months	1.83	<= 5 years	Positive
63	2	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy, Culture	4.0	63	2 years 9 months	2.75	<= 5 years	Positive
64								64	1 year 7 months	1.58	<= 5 years	Positive
65								65	8 years	8.00	6 to 15 years	Negative
66								66	9 years	9.00	6 to 15 years	Negative
67	3	No	Non reactive	Non diabetic	No	Cbnaat	3.0	67	3 years	3.00	<= 5 years	Positive
68								68	2 years 6 months	2.50	<= 5 years	Positive
69								69	1 year 3 months	1.25	<= 5 years	Positive
70	4	No	Non reactive	Non diabetic	No	Cbnaat	2.0	70	9 years	9.00	6 to 15 years	Negative
71								71	7 years	7.00	6 to 15 years	Negative
72	1	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	4.0	72	11 years	11.00	6 to 15 years	Negative
73								73	7 years	7.00	6 to 15 years	Negative
74								74	5 years	5.00	<= 5 years	Positive
75								75	3 years	3.00	<= 5 years	Positive
76	1	Yes	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	7.0	76	16 years	16.00	>15 years	Negative
77								77	14 years	14.00	6 to 15 years	Negative
78								78	13 years	13.00	6 to 15 years	Negative
79								79	9 years	9.00	6 to 15 years	Negative
80								80	6 years	6.00	6 to 15 years	Negative
81								81	4 years	4.00	<= 5 years	Negative
82								82	3 years	3.00	<= 5 years	Negative
83	2	Yes	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy, culture	7.0	83	1 year 6 months	1.50	<= 5 years	Positive
84								84	1 year 3 months	1.25	<= 5 years	Positive
85								85	1 year	1.00	<= 5 years	Positive
86								86	4 years	4.00	<= 5 years	Negative
87								87	5 years	5.00	<= 5 years	Negative
88								88	7 years	7.00	6 to 15 years	Negative

89								89	8 years	8.00	6 to 15 years	Negative
90	2	No	Non reactive	Non diabetic	No	CBC, esr, cxr	1.0	90	9 years	9.00	6 to 15 years	Negative
91	1	No	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	91	12 years	12.00	6 to 15 years	Negative
92	2	No	Non reactive	Non diabetic	No	CBC,esr, cxr, cbnaat, ZN stain	2.0	92	14 years	14.00	6 to 15 years	Negative
93								93	12 years	12.00	6 to 15 years	Negative
94	2	No	Non reactive	Diabetic	No	CBC,esr, cxr, cbnaat, ZN stain	1.0	94	17 years	17.00	>15 years	Positive
95	4	Yes	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	95	11 months	0.92	<= 5 years	Negative
96	3	No	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	96	13 years	13.00	6 to 15 years	Negative
97	2	No	Non reactive	Non diabetic	No	cbc, esr, mantoux, cxr, cbnaat	1.0	97	8 years	8.00	6 to 15 years	Negative
98	4	No	Non reactive	Non diabetic	No	CBC, cxr, esr, cbnaat	1.0	98	3 years	3.00	<= 5 years	Negative
99	4	No	Reactive	Diabetic	No	CBC, ZN stain, cxr, esr, CT chest	1.0	99	17 years	17.00	>15 years	Negative
100	3	No	Non reactive	Non diabetic	No	CBC, esr, cxr	2.0	100	17 years	17.00	>15 years	Negative
101								101	14 years	14.00	6 to 15 years	Negative
102	6	No	Non reactive	Non diabetic	No	CBC, esr, cxr	3.0	102	11 years	11.00	6 to 15 years	Negative
103								103	14 years	14.00	6 to 15 years	Negative
104								104	17 years	17.00	>15 years	Negative
105	6	No	Non reactive	Non diabetic	No	CBC, esr, cxr	2.0	105	5 years	5.00	<= 5 years	Negative
106								106	9 years	9.00	6 to 15 years	Negative
107	6	No	Reactive	Non diabetic	No	CBC, esr, cxr, cbnaat	1.0	107	10 years	10.00	6 to 15 years	Negative
108	4	No	Reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, ZN stain, culture	1.0	108	13 years	13.00	6 to 15 years	Negative
109	1	No	Reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, culture	2.0	109	4 years	4.00	<= 5 years	Negative
110								110	2 years	2.00	<= 5 years	Negative
111	4	No	Non reactive	Non diabetic	No	CBC, esr,cxr,microscopy,	2.0	111	8 years	8.00	6 to 15 years	Negative
112								112	3 years	3.00	<= 5 years	Negative
113	4	No	Non reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, Lpa, culture	3.0	113	9 years	9.00	6 to 15 years	Negative
114								114	6 years	6.00	6 to 15 years	Negative
115								115	4 years	4.00	<= 5 years	Positive
116	3	No	Non reactive	Non diabetic	No	Cxr, cbc, esr	2.0	116	3 years	3.00	<= 5 years	Negative
117								117	10 months	0.83	<= 5 years	Negative
118	6	Yes	Non reactive	Non diabetic	No	CBC, ZN stain	2.0	118	16 years	16.00	>15 years	Positive
119						-		119	11 years	11.00	6 to 15 years	Negative
120	2	No	Non reactive	Diabetic	No	CBC, esr, cbnaat, ZN microscopy	2.0	120	2 years	2.00	<= 5 years	Positive

121								121	4 years	4.00	<= 5 years	Positive
122	2	No	Non reactive	Diabetic	No	Cbnaat, cxr, ZN microscopy	5.0	122	2 years	2.00	<= 5 years	Positive
123								123	3 years	3.00	<= 5 years	Positive
124								124	1 year 2 months	1.17	<= 5 years	Positive
125								125	8 years	8.00	6 to 15 years	Negative
126								126	7 years	7.00	6 to 15 years	Negative
127	2	Yes	Non reactive	Diabetic	Yes	Cbnaat	2.0	127	4 years	4.00	<= 5 years	Positive
128								128	2 years	2.00	<= 5 years	Positive
129	4	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	3.0	129	4 years	4.00	<= 5 years	Positive
130								130	3 years	3.00	<= 5 years	Positive
131								131	2 years	2.00	<= 5 years	Positive
132	4	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy, Lpa	3.0	132	1 year	1.00	<= 5 years	Positive
133								133	3 years	3.00	<= 5 years	Positive
134								134	2 years	2.00	<= 5 years	Positive
135	3	No	Non reactive	Non diabetic	No	CBC, esr, cxr	2.0	135	12 years	12.00	6 to 15 years	Negative
136								136	8 years	8.00	6 to 15 years	Negative
137	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	3.0	137	11 years	11.00	6 to 15 years	Negative
138								138	13 years	13.00	6 to 15 years	Negative
139								139	7 years	7.00	6 to 15 years	Positive
140	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	4.0	140	2 years	2.00	<= 5 years	Positive
141								141	3 years	3.00	<= 5 years	Positive
142								142	7 years	7.00	6 to 15 years	Negative
143								143	8 years	8.00	6 to 15 years	Negative
144	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy, Line probe assay	2.0	144	8 years	8.00	6 to 15 years	Negative
145								145	10 years	10.00	6 to 15 years	Negative
146	3	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	2.0	146	11 years	11.00	6 to 15 years	Negative
147								147	16 years	16.00	>15 years	Negative
148	3	No	Non reactive	Non diabetic	No	Cbnaat	4.0	148	9 years	9.00	6 to 15 years	Negative
149								149	7 years	7.00	6 to 15 years	Negative
150								150	6 years	6.00	6 to 15 years	Negative
151								151	1 year 10 months	1.83	<= 5 years	Positive
152	2	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy, Culture	4.0	152	2 years 9 months	2.75	<= 5 years	Positive

153								153	1 year 7 months	1.58	<= 5 years	Positive
154								154	8 years	8.00	6 to 15 years	Negative
155								155	9 years	9.00	6 to 15 years	Negative
156	3	No	Non reactive	Non diabetic	No	Cbnaat	3.0	156	3 years	3.00	<= 5 years	Positive
157								157	2 years 6 months	2.50	<= 5 years	Positive
158								158	1 year 3 months	1.25	<= 5 years	Positive
159	4	No	Non reactive	Non diabetic	No	Cbnaat	2.0	159	9 years	9.00	6 to 15 years	Negative
160								160	7 years	7.00	6 to 15 years	Negative
161	1	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	4.0	161	11 years	11.00	6 to 15 years	Negative
162								162	7 years	7.00	6 to 15 years	Negative
163								163	5 years	5.00	<= 5 years	Positive
164								164	3 years	3.00	<= 5 years	Positive
165	1	Yes	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	7.0	165	16 years	16.00	>15 years	Negative
166								166	14 years	14.00	6 to 15 years	Negative
167								167	13 years	13.00	6 to 15 years	Negative
168								168	9 years	9.00	6 to 15 years	Negative
169								169	6 years	6.00	6 to 15 years	Negative
170								170	4 years	4.00	<= 5 years	Negative
171								171	3 years	3.00	<= 5 years	Negative
172	2	Yes	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy, culture	7.0	172	1 year 6 months	1.50	<= 5 years	Positive
173								173	1 year 3 months	1.25	<= 5 years	Positive
174								174	1 year	1.00	<= 5 years	Positive
175								175	4 years	4.00	<= 5 years	Negative
176								176	5 years	5.00	<= 5 years	Negative
177								177	7 years	7.00	6 to 15 years	Negative
178								178	8 years	8.00	6 to 15 years	Negative
179	1	No	Reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, culture	2.0	179	4 years	4.00	<= 5 years	Negative
180								180	2 years	2.00	<= 5 years	Negative
181	4	No	Non reactive	Non diabetic	No	CBC, esr,cxr,microscopy,	2.0	181	8 years	8.00	6 to 15 years	Negative
182								182	3 years	3.00	<= 5 years	Negative
183	4	No	Non reactive	Non diabetic	No	CBC, esr, cxr, cbnaat, Lpa, culture	3.0	183	9 years	9.00	6 to 15 years	Negative
184								184	6 years	6.00	6 to 15 years	Negative

185								185	4 years	4.00	<= 5 years	Positive
186	3	No	Non reactive	Non diabetic	No	Cxr, cbc, esr	2.0	186	3 years	3.00	<= 5 years	Negative
187								187	10 months	0.83	<= 5 years	Negative
188	6	Yes	Non reactive	Non diabetic	No	CBC, ZN stain	2.0	188	16 years	16.00	>15 years	Positive
189								189	11 years	11.00	6 to 15 years	Negative
190	2	No	Non reactive	Diabetic	No	CBC, esr, cbnaat, ZN microscopy	2.0	190	2 years	2.00	<= 5 years	Positive
191								191	4 years	4.00	<= 5 years	Positive
192	2	No	Non reactive	Diabetic	No	Cbnaat, cxr, ZN microscopy	5.0	192	2 years	2.00	<= 5 years	Positive
193								193	3 years	3.00	<= 5 years	Positive
194								194	1 year 2 months	1.17	<= 5 years	Positive
195								195	8 years	8.00	6 to 15 years	Negative
196								196	7 years	7.00	6 to 15 years	Negative
197	2	Yes	Non reactive	Diabetic	Yes	Cbnaat	2.0	197	4 years	4.00	<= 5 years	Positive
198								198	2 years	2.00	<= 5 years	Positive
199	4	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	3.0	199	4 years	4.00	<= 5 years	Positive
200								200	3 years	3.00	<= 5 years	Positive
201								201	2 years	2.00	<= 5 years	Positive
202	4	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy, Lpa	3.0	202	1 year	1.00	<= 5 years	Positive
203								203	3 years	3.00	<= 5 years	Positive
204								204	2 years	2.00	<= 5 years	Positive
205	3	No	Non reactive	Non diabetic	No	CBC, esr, cxr	2.0	205	12 years	12.00	6 to 15 years	Negative
206								206	8 years	8.00	6 to 15 years	Negative
207	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	3.0	207	11 years	11.00	6 to 15 years	Negative
208								208	13 years	13.00	6 to 15 years	Negative
209								209	7 years	7.00	6 to 15 years	Positive
210	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	4.0	210	2 years	2.00	<= 5 years	Positive
211								211	3 years	3.00	<= 5 years	Positive
212								212	7 years	7.00	6 to 15 years	Negative
213								213	8 years	8.00	6 to 15 years	Negative
214	2	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy, Line probe assay	2.0	214	8 years	8.00	6 to 15 years	Negative
215								215	10 years	10.00	6 to 15 years	Negative
216	3	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	2.0	216	11 years	11.00	6 to 15 years	Negative

217								217	16 years	16.00	>15 years	Negative
218	3	No	Non reactive	Non diabetic	No	Cbnaat	4.0	218	9 years	9.00	6 to 15 years	Negative
219								219	7 years	7.00	6 to 15 years	Negative
220								220	6 years	6.00	6 to 15 years	Negative
221								221	1 year 10 months	1.83	<= 5 years	Positive
222	2	No	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy, Culture	4.0	222	2 years 9 months	2.75	<= 5 years	Positive
223								223	1 year 7 months	1.58	<= 5 years	Positive
224								224	8 years	8.00	6 to 15 years	Negative
225								225	9 years	9.00	6 to 15 years	Negative
226	3	No	Non reactive	Non diabetic	No	Cbnaat	3.0	226	3 years	3.00	<= 5 years	Positive
227								227	2 years 6 months	2.50	<= 5 years	Positive
228								228	1 year 3 months	1.25	<= 5 years	Positive
229	4	No	Non reactive	Non diabetic	No	Cbnaat	2.0	229	9 years	9.00	6 to 15 years	Negative
230								230	7 years	7.00	6 to 15 years	Negative
231	1	Yes	Non reactive	Non diabetic	Yes	Cbnaat, ZN microscopy	4.0	231	11 years	11.00	6 to 15 years	Negative
232								232	7 years	7.00	6 to 15 years	Negative
233								233	5 years	5.00	<= 5 years	Positive
234								234	3 years	3.00	<= 5 years	Positive
235	1	Yes	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy	7.0	235	16 years	16.00	>15 years	Negative
236								236	14 years	14.00	6 to 15 years	Negative
237								237	13 years	13.00	6 to 15 years	Negative
238								238	9 years	9.00	6 to 15 years	Negative
239								239	6 years	6.00	6 to 15 years	Negative
240								240	4 years	4.00	<= 5 years	Negative
241								241	3 years	3.00	<= 5 years	Negative
242	2	Yes	Non reactive	Non diabetic	No	Cbnaat, ZN microscopy, culture	7.0	242	1 year 6 months	1.50	<= 5 years	Positive
243								243	1 year 3 months	1.25	<= 5 years	Positive
244								244	1 year	1.00	<= 5 years	Positive
245								245	4 years	4.00	<= 5 years	Negative
246								246	5 years	5.00	<= 5 years	Negative
247								247	7 years	7.00	6 to 15 years	Negative
248								248	8 years	8.00	6 to 15 years	Negative

٧١	Duration_of_contact	INHProphylaxisreceivedyesno	FeverPersistentUnexplained	CoughPersistentUnremittingYesnoduration	FailureToThriveLossOfWeight5WeightLossInPa st3Mon	SwellingLumpsOnYourNeckArmsPitsGroinYesn o	AnyHOMeningitis	LossOfAppetite	Symptoms	Feverdurationindays	Coughduration	AnyHOMeasles	ExposureToCigaretteSmoke	Mantouxtestresuit	TB
1	3 to 6 months	No	No	No	No	No	No	No	No			No	Yes	Negative	Negative
2	<3 month	No	No	No	No	No	No	No	No			No	No	Negative	Negative
3	<3 month	No	Yes	No	No	No	No	Yes	Yes	5		No	No	Negative	Negative
4	<3 month	No	No	Yes	No	No	No	No	Yes		5	No	No	Negative	Negative
5	>6 months	Yes	Yes	Yes	No	No	No	Yes	Yes	10	12	No	No	Positive	Positive
6	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
7	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
8	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
9	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
10	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
11	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
12	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
13	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
14	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
15	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
16	>6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
17	>6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
18	>6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
19	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
20		No	No	No	No	No	No	No	No			No	No	Not done	Negative
21	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
22	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative

23	3 to 6 months	No	No	No	No	No	No	No	No	]		No	No	Not done	Negative
24	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
25	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
26	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Positive	Positive
27	3 to 6 months	No	Yes	No	No	No	No	No	Yes	4		No	No	Not done	Negative
28	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
29	>6 months	Yes	No	Yes	Yes	No	No	Yes	Yes		20	No	Yes	Positive	Positive
30	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
31	<3 month	Yes	Yes	No	No	No	No	Yes	Yes			No	No	Negative	Positive
32	<3 month	Yes	No	Yes	Yes	No	No	Yes	Yes			No	No	Positive	Positive
33	<3 month	Yes	No	No	Yes	Yes	No	Yes	Yes			No	No	Negative	Positive
34	<3 month	Yes	Yes	No	No	No	No	Yes	Yes			No	No	Negative	Positive
35	<3 month	Yes	No	No	Yes	Yes	No	No	Yes			No	No	Positive	Positive
36	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
37	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
38	<3 month	Yes	No	Yes	Yes	No	No	Yes	Yes			No	Yes	Negative	Positive
39	<3 month	Yes	No	Yes	Yes	Yes	No	Yes	Yes			No	Yes	Negative	Positive
40	3 to 6 months	Yes	No	No	Yes	No	No	No	Yes			No	No	Positive	Positive
41	3 to 6 months	Yes	Yes	Yes	No	Yes	No	Yes	Yes		12	No	No	Negative	Positive
42	3 to 6 months	Yes	Yes	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive
43	3 to 6 months	Yes	Yes	Yes	Yes	No	No	Yes	Yes			No	Yes	Negative	Positive
44	3 to 6 months	Yes	No	No	No	No	No	No	No			No	Yes	Positive	Positive
45	3 to 6 months	Yes	No	No	Yes	Yes	No	Yes	Yes			No	Yes	Negative	Positive
46	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
47	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
48	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
49	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
50	<3 month	Yes	No	Yes	No	No	No	No	Yes			No	Yes	Positive	Positive
51	<3 month	Yes	Yes	Yes	Yes	No	No	Yes	Yes			No	Yes	Negative	Positive
52	<3 month	Yes	No	No	No	No	Yes	No	Yes			No	Yes	Negative	Positive
53	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
54	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
55	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative

56	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
57	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
58	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
59	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
60	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
61	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
62	3 to 6 months	Yes	Yes	No	Yes	No	No	No	Yes			No	No	Negative	Positive
63	<3 month	Yes	No	No	No	No	No	Yes	Yes			No	No	Negative	Positive
64	<3 month	Yes	No	No	Yes	No	No	No	Yes			No	No	Negative	Positive
65	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
66	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
67	3 to 6 months	Yes	Yes	Yes	No	No	No	Yes	Yes		12	No	No	Negative	Positive
68	3 to 6 months	Yes	Yes	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive
69	3 to 6 months	Yes	No	No	No	Yes	No	No	Yes			No	No	Positive	Positive
70	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
71	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
72	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
73	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
74	<3 month	Yes	Yes	Yes	Yes	No	No	No	Yes	14	6	No	Yes	Negative	Positive
75	<3 month	Yes	No	No	No	No	Yes	No	Yes			No	Yes	Positive	Positive
76	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
77	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
78	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
79	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
80	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
81	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
82	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
83	<3 month	Yes	No	No	Yes	No	No	No	Yes			No	No	Negative	Positive
84	<3 month	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Positive	Positive
85	<3 month	Yes	No	No	No	No	No	No	No			No	No	Positive	Positive
86	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
87	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
88	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative

89	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
90	3 to 6 months	No	No	No	No	No	No	No	No			No	Yes	Negative	Negative
91	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
92	<3 month	No	Yes	No	No	No	No	Yes	Yes	5		No	No	Negative	Negative
93	<3 month	No	No	Yes	No	No	No	No	Yes		5	No	No	Negative	Negative
94	>6 months	Yes	Yes	Yes	No	Yes	No	Yes	Yes	10	12	No	No	Positive	Positive
95	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
96	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
97	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
98	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
99	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
100	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
101	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
102	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
103	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
104	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
105	>6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
106	>6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
107	>6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
108	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
109		No	No	No	No	No	No	No	No			No	No	Not done	Negative
110	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
111	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
112	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
113	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
114	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
115	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive
116	3 to 6 months	No	Yes	No	No	No	No	No	Yes	4		No	No	Not done	Negative
117	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
118	>6 months	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes		20	No	Yes	Negative	Positive
119	>6 months	No	No	No	No	No	No	No	No			No	No	Negative	Negative
120	<3 month	Yes	No	No	No	No	No	Yes	Yes			No	No	Positive	Positive
121	<3 month	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive

122	<3 month	Yes	No	No	Yes	No	No	Yes	Yes		No	No	Negative	Positive
123	<3 month	Yes	No	No	No	No	No	Yes	Yes		No	No	Negative	Positive
124	<3 month	Yes	Yes	No	Yes	No	No	No	Yes		No	No	Negative	Positive
125	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
126	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
127	<3 month	Yes	No	No	No	No	No	Yes	Yes		No	Yes	Negative	Positive
128	<3 month	Yes	No	No	Yes	No	No	Yes	Yes		No	Yes	Positive	Positive
129	3 to 6 months	Yes	Yes	No	Yes	No	No	Yes	Yes		No	No	Negative	Positive
130	3 to 6 months	Yes	No	Yes	No	No	No	No	Yes	12	No	No	Negative	Positive
131	3 to 6 months	Yes	Yes	No	Yes	Yes	No	Yes	Yes		No	No	Positive	Positive
132	3 to 6 months	Yes	No	No	Yes	No	No	No	Yes		No	Yes	Negative	Positive
133	3 to 6 months	Yes	No	No	No	No	No	No	No		No	Yes	Positive	Positive
134	3 to 6 months	Yes	Yes	No	Yes	No	Yes	Yes	Yes		No	Yes	Negative	Positive
135	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
136	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
137	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
138	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
139	<3 month	Yes	No	No	No	No	No	Yes	Yes		No	Yes	Negative	Positive
140	<3 month	Yes	Yes	No	Yes	No	No	Yes	Yes		No	Yes	Positive	Positive
141	<3 month	Yes	No	No	No	Yes	No	No	Yes		No	Yes	Negative	Positive
142	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
143	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
144	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
145	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
146	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
147	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
148	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
149	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
150	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
151	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes		No	No	Positive	Positive
152	<3 month	Yes	No	No	No	No	No	No	No		No	No	Positive	Positive
153	<3 month	Yes	No	No	Yes	No	No	Yes	Yes		No	No	Negative	Positive
154	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative

155	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
156	3 to 6 months	Yes	Yes	Yes	No	No	No	Yes	Yes		12	No	No	Positive	Positive
157	3 to 6 months	Yes	No	No	Yes	No	Yes	Yes	Yes			No	No	Positive	Positive
158	3 to 6 months	Yes	No	No	No	No	No	No	No			No	No	Negative	Positive
159	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
160	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
161	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
162	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
163	<3 month	Yes	Yes	Yes	No	No	No	Yes	Yes	14	6	No	Yes	Positive	Positive
164	<3 month	Yes	No	No	Yes	No	Yes	No	Yes			No	Yes	Negative	Positive
165	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
166	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
167	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
168	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
169	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
170	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
171	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
172	<3 month	Yes	No	No	No	No	No	No	No			No	No	Positive	Positive
173	<3 month	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive
174	<3 month	Yes	No	No	No	No	No	No	No			No	No	Positive	Positive
175	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
176	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
177	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
178	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
179		No	No	No	No	No	No	No	No			No	No	Not done	Negative
180	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
181	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
182	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
183	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
184	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
185	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive
186	3 to 6 months	No	Yes	No	No	No	No	No	Yes	4		No	No	Not done	Negative
187	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative

188	>6 months	Yes	No	Yes	Yes	Yes	No	Yes	Yes	20	No	Yes	Positive	Positive
189	>6 months	No	No	No	No	No	No	No	No		No	No	Negative	Negative
190	<3 month	Yes	No	No	Yes	No	No	Yes	Yes		No	No	Positive	Positive
191	<3 month	Yes	No	No	Yes	No	Yes	Yes	Yes		No	No	Negative	Positive
192	<3 month	Yes	No	No	Yes	No	No	Yes	Yes		No	No	Positive	Positive
193	<3 month	Yes	No	No	No	No	No	Yes	Yes		No	No	Positive	Positive
194	<3 month	Yes	No	No	Yes	Yes	No	No	Yes		No	No	Negative	Positive
195	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
196	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
197	<3 month	Yes	No	No	No	No	No	Yes	Yes		No	Yes	Negative	Positive
198	<3 month	Yes	No	No	Yes	No	No	Yes	Yes		No	Yes	Negative	Positive
199	3 to 6 months	Yes	No	No	Yes	Yes	No	Yes	Yes		No	No	Negative	Positive
200	3 to 6 months	Yes	No	Yes	No	No	No	No	Yes	12	No	No	Negative	Positive
201	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes		No	No	Negative	Positive
202	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes		No	Yes	Negative	Positive
203	3 to 6 months	Yes	No	No	No	No	No	No	No		No	Yes	Positive	Positive
204	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes		No	Yes	Negative	Positive
205	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
206	<3 month	No	No	No	No	No	No	No	No		No	No	Not done	Negative
207	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
208	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
209	<3 month	Yes	No	No	No	No	Yes	Yes	Yes		No	Yes	Negative	Positive
210	<3 month	Yes	No	No	Yes	No	No	Yes	Yes		No	Yes	Negative	Positive
211	<3 month	Yes	No	No	No	No	No	No	No		No	Yes	Negative	Positive
212	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
213	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
214	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
215	<3 month	No	No	No	No	No	No	No	No		No	Yes	Not done	Negative
216	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
217	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
218	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
219	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative
220	3 to 6 months	No	No	No	No	No	No	No	No		No	No	Not done	Negative

221	3 to 6 months	Yes	No	No	No	No	No	Yes	Yes			No	No	Negative	Positive
222	<3 month	Yes	No	No	Yes	No	No	No	Yes			No	No	Negative	Positive
223	<3 month	Yes	No	No	No	No	No	Yes	Yes			No	No	Negative	Positive
224	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
225	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
226	3 to 6 months	Yes	No	Yes	No	No	No	No	Yes		12	No	No	Negative	Positive
227	3 to 6 months	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive
228	3 to 6 months	Yes	No	No	No	No	No	No	No			No	No	Negative	Positive
229	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
230	3 to 6 months	No	No	No	No	No	No	No	No			No	No	Not done	Negative
231	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
232	<3 month	No	No	No	No	No	No	No	No			No	Yes	Not done	Negative
233	<3 month	Yes	Yes	Yes	Yes	No	No	Yes	Yes	14	6	No	Yes	Negative	Positive
234	<3 month	Yes	No	No	No	No	No	No	No			No	Yes	Negative	Positive
235	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
236	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
237	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
238	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
239	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
240	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
241	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
242	<3 month	Yes	No	No	No	No	No	Yes	Yes			No	No	Negative	Positive
243	<3 month	Yes	No	No	Yes	No	No	Yes	Yes			No	No	Negative	Positive
244	<3 month	Yes	No	No	No	No	No	Yes	Yes			No	No	Negative	Positive
245	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
246	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
247	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative
248	<3 month	No	No	No	No	No	No	No	No			No	No	Not done	Negative

^	CXr	Ivantibioticsreceivedyesno	nse	CTchest	ZNsmearinducedsputumgastricaspirate	Cbnaatgeneexpert	Culturemgit	Lineprobeassay	Lamp	BCGvaccination	BCGscar	Gender of HHC	Relationship with index case	Household contact sleeping in the same bedroom of Index case >3 days per week
1	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
2	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Male	Others	No
3	Normal	Yes	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Parents	No
4	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
5	Lesions present	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	yes	Present	Male	Parents	No
6	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	yes	Present	Male	Others	Yes
7	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	yes	Present	Male	Others	No
8	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
9	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
10	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Parents	No
11	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
12	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
13	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
14	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
15	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	No
16	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
17	Normal	No	Not done	Not done	Not done	Not done	Positive	Not done	Not done	Yes	Present	Male	Others	Yes
18	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
19	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	No
20	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
21	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes

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22	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
23	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
24	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
25	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
26	Normal	Yes	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
27	Normal	Yes	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
28	Normal	No	Not done	Not done	Not done	Not done	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
29	Lesions present	No	Not done	Not done	Positive	Positive	Positive	Positive	Positive	Yes	Present	Female	Parents	No
30	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Parents	No
31	Normal	No	Not done	Not done	Not done	Positive	Negative	Not done	Not done	Yes	Present	Female	Parents	Yes
32	Normal	No	Not done	Not done	Positive	Positive	Positive	Not done	Not done	Yes	Present	Female	Parents	Yes
33	Normal	No	Not done	Not done	Not done	Positive	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
34	Normal	No	Not done	Not done	Negative	Negative	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
35	Lesions present	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
36	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
37	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
38	Normal	No	Not done	Not done	Positive	Positive	Positive	Not done	Not done	Yes	Present	Female	Parents	Yes
39	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Female	Parents	Yes
40	Normal	No	Not done	Not done	Not done	Positive	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
41	Lesions present	Yes	Not done	Not done	Positive	Positive	Positive	Not done	Not done	Yes	Present	Male	Others	Yes
42	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
43	Normal	No	Not done	Not done	Positive	Negative	Not done	Negative	Not done	Yes	Present	Male	Parents	Yes
44	Lesions present	No	Not done	Not done	Not done	Positive	Not done	Negative	Not done	Yes	Present	Male	Others	Yes
45	Lesions present	No	Not done	Not done	Not done	Negative	Not done	Negative	Not done	Yes	Present	Female	Others	Yes
46	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
47	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
48	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
49	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
50	Normal	No	Not done	Not done	Positive	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
51	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
52	Lesions present	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
53	Normal	No	Not done	Not done	Not done	Not done		Not done	Not done	Yes	Present		Others	Yes
<u>53</u> 54	Normal	No	Not done	Not done	Not done	Not done	Not done  Not done	Not done	Not done	Yes	Present	Female Male	Others	Yes

55	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
56	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	No
57	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	No
58	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
59	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
60	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
61	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
62	Lesions present	Yes	Not done	Not done	Positive	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
63	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
64	Lesions present	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
65	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
66	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
67	Normal	No	Not done	Not done	Positive	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
68	Lesions present	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
69	Normal	No	Not done	Not done	Positive	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
70	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Positive	Yes	Present	Male	Parents	Yes
71	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
72	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
73	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
74	Lesions present	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
75	Normal	Yes	Not done	Not done	Positive	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
76	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	No
77	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
78	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
79	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
80	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
81	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
82	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
83	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
84	Lesions present	No	Not done	Not done	Positive	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
85	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
86	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
87	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes

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88	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
89	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
90	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
91	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Male	Others	No
92	Normal	Yes	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	No
93	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Male	Others	No
94	Lesions present	No	Not done	Not done	Positive	Not done	Not done	Not done	Not done	yes	Present	Male	Parents	No
95	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	yes	Present	Male	Others	Yes
96	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	yes	Present	Male	Others	No
97	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
98	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
99	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Parents	No
100	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
101	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
102	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
103	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
104	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	No
105	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
106	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
107	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
108	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	No
109	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
110	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
111	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
112	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
113	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
114	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
115	Lesions present	Yes	Not done	Not done	Not done	Positive	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
116	Normal	Yes	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
117	Normal	No	Not done	Not done	Not done	Not done	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
118	Lesions present	Yes	Not done	Not done	Positive	Positive	Positive	Not done	Positive	Yes	Present	Female	Parents	No
119	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Parents	No
120	Normal	No	Not done	Not done	Not done	Positive	Negative	Not done	Not done	Yes	Present	Female	Parents	Yes
120	Homai	110	1401 00116	140LUUIIC	1401 UUITE	1 03111146	ricyalive	140LUUIIC	1401 UUITE	163	1 1030111	i ciliale	i aiciilo	103

121 Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   No	1	1	I	1	1	I	I	1	I	ı	I	I	I	1	1 1
123   Lesions present   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   No	121	Normal	No	Not done	Not done	Not done	Positive	Positive	Not done	Not done	Yes	Present	Female	Parents	Yes
124 Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   No	122	Normal	No	Not done	Not done	Positive	Positive	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
125   Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done	123	Lesions present	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
126   Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done	124	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
127 Normal No Not done Not done Positive Positive Positive Not done Not done Ves Present Female Parents Yes Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done No	125	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
128   Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Positive   Positive   Not done   Not done   Not done   Yes   Present   Female   Others   Yes	126	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
129 Normal   No Not done   Not done   Positive   Positive   Positive   Positive   Positive   Positive   Positive   Positive   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not	127	Normal	No	Not done	Not done	Positive	Positive	Positive	Not done	Not done	Yes	Present	Female	Parents	Yes
130 Lesions present Yes Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not do	128	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Female	Parents	Yes
131 Normal   No Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not	129	Normal	No	Not done	Not done	Positive	Positive	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
132 Lesions present No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not don	130	Lesions present	Yes	Not done	Not done	Negative	Positive	Positive	Not done	Not done	Yes	Present	Male	Others	Yes
133 Normal No Not done Not done Not done Not done Positive Not done Negative Not done Yes Present Male Parents Yes 136 Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done	131	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
134 Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not don	132	Lesions present	No	Not done	Not done	Not done	Negative	Positive	Negative	Not done	Yes	Present	Male	Parents	Yes
Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done No	133	Normal	No	Not done	Not done	Not done	Positive	Not done	Negative	Not done	Yes	Present	Male	Parents	Yes
Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not do	134	Normal	No	Not done	Not done	Not done	Negative	Positive	Negative	Not done	Yes	Present	Female	Parents	Yes
Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Yes   Present   Female   Parents   No	135	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
138 Normal   No Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not	136	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
139 Normal Yes Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not do	137	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
Normal   No Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Yes   Present   Male   Others   Yes	138	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
141 Lesions present No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not don	139	Normal	Yes	Not done	Not done	Negative	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done No	140	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
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144NormalNoNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot	142	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done		Present	Female	Others	Yes
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147NormalNoNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot	146		No	Not done	Not done	Not done	Not done	Not done	Not done		Yes	Present		Others	No
148NormalNoNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot	147	Normal	No								Yes				No
149NormalNoNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot															
150NormalNoNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot															
151     Normal     Yes     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Present     Female     Parents     Yes															
152 Lesions present No Not done Not done Not done Not done Not done Not done Not done Yes Present Female Parents Yes															
	153	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes

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154	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
155	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	No
156	Normal	Yes	Not done	Not done	Negative	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
157	Lesions present	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
158	Lesions present	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
159	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Positive	Yes	Present	Male	Parents	No
160	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
161	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
162	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
163	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
164	Lesions present	No	Not done	Not done	Negative	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
165	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	No
166	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
167	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
168	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
169	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
170	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
171	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
172	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
173	Normal	Yes	Not done	Not done	Negative	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
174	Lesions present	No	Not done	Not done	Negative	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
175	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
176	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
177	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
178	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
179	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
180	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
181	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
182	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
183	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Male	Others	No
184	Normal	No	Not done	Not done	Not done	Negative	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
185	Normal	Yes	Not done	Not done	Not done		Negative	Not done	Not done	Yes	Present	Male	Others	Yes
						Negative								
186	Normal	Yes	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes

187   Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done	1 1		I	i	I	I	I	Ī	I	Ī	I	I	İ	Ī	1 1
190   Normal   No   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done   Not done	187	Normal	No	Not done	Not done	Not done	Not done	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
190   Normal   No   Not done   Not done   Not done   Positive   Positive   Not done   Not done   Ves   Present   Female   Parents   Ves	188	Lesions present	No	Not done	Not done	Positive	Positive	Positive	Not done	Not done	Yes	Present	Female	Parents	No
191	189	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Parents	No
192   Normal   No   Not done   Not done   Negative   Positive   Negative   Not done   Not done   Ves   Present   Female   Others   Ves	190	Normal	No	Not done	Not done	Not done	Positive	Negative	Not done	Not done	Yes	Present	Female	Parents	Yes
193   Normal   No	191	Lesions present	No	Not done	Not done	Not done	Positive	Positive	Not done	Not done	Yes	Present	Female	Parents	Yes
194         Lesions present         No         Not done         Not done         Not done         Negative         Not done         Not done         Yes         Present         Male         Others         Yes           195         Normal         No         Not done         Yes         196           196         Normal         No         Not done	192	Normal	No	Not done	Not done	Negative	Positive	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
195         Normal         No         Not done         Not done         Negative         Nogative         Not done         Vot done         Yes         Present         Male         Others         Yes           196         Normal         No         Not done         Not done         Negative         Not done         Not done         Yes         Present         Male         Others         Yes           197         Normal         No         Not done         Not	193	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
196 Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not don	194	Lesions present	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
197 Normal No Not done Not done Not done Not done Positive Positive Not done Not done Yes Present Female Parents Yes Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done No	195	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
198 Lesions present No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not don	196	Normal	No	Not done	Not done	Not done	Negative	Negative	Not done	Not done	Yes	Present	Male	Others	Yes
199         Normal         No         Not done         Not done         Positive         Negative         Not done         Yes         Present         Female         Others         Yes           200         Lesions present         Yes         Not done         Not don	197	Normal	No	Not done	Not done	Not done	Positive	Positive	Not done	Not done	Yes	Present	Female	Parents	Yes
200         Lesions present         Yes         Not done         Not done         Positive         Positive         Yes         Present         Male         Others         Yes           201         Normal         No         Not done         Not done         Negative         Negative         Not done         Not done         Yes         Present         Female         Others         Yes           202         Normal         No         Not done         Not done         Negative         Positive         Negative         Not done         Yes         Present         Male         Others         Yes           203         Normal         No         Not done         Not	198	Lesions present	No	Not done	Not done	Negative	Negative	Negative	Not done	Not done	Yes	Present	Female	Parents	Yes
201         Normal         No         Not done         Not done         Negative         Negative         Not done         Not done         Yes         Present         Female         Others         Yes           202         Normal         No         Not done         Yes         Present         Male         Others         Yes           203         Normal         No         Not done         No	199	Normal	No	Not done	Not done	Not done	Positive	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
202         Normal         No         Not done         Not done         Negative         Positive         Negative         Not done         Yes         Present         Male         Others         Yes           203         Normal         No         Not done         Not done         Not done         Not done         Not done         Not done         Yes           204         Normal         No         Not done	200	Lesions present	Yes	Not done	Not done	Not done	Positive	Positive	Not done	Positive	Yes	Present	Male	Others	Yes
Normal No Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done Not done No	201	Normal	No	Not done	Not done	Negative	Negative	Negative	Not done	Not done	Yes	Present	Female	Others	Yes
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211NormalNoNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot doneNot	210	Normal	Yes								Yes	Present	Male		Yes
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217     Normal     No     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Not done     Yes     Present     Male     Others     Yes															
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	219	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes

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220	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
221	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
222	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
223	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
224	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
225	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
226	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
227	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
228	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
229	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
230	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
231	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	No
232	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
233	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
234	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
235	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	No
236	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
237	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	No
238	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
239	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Others	Yes
240	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Others	Yes
241	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Positive	Yes	Present	Female	Others	Yes
242	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
243	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
244	Normal	Yes	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
245	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Female	Parents	Yes
246	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
247	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes
248	Normal	No	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Yes	Present	Male	Parents	Yes