LTBI. LTBI detection in Russia

1. Screening of LTBI among children
   - Organized by Primary Health Care:
     • Providing of yearly testing by skin tests;
     • All children 1-7 years old age are covered by Mantoux tests with 2 TE;
     • All children and teenagers 8-17 years are covered by Diaskintests
2. TB contacts- children and adults;
3. Screening people from special populations
LTBI. Diaskintest for detection LTBI among adults from special populations (Moscow city example)

Who are tested by Diaskintest in Moscow city:

1. PLHIV – 1 test per 6 months;
2. Homeless – when they visit Health Care facility - 1 test;
3. Foreign citizen – from high TB burden countries – 1 test;
4. Ex-prisoners – 1 test per 6 months during 2 years;
5. During immune-suppressive therapy – 1 test per year;
6. People from contact with pregnant women and newborn – 1 test;
7. Regular screening of workers from special contingents (food industry, schools, kindergartens, etc.) – 1 test per year;
8. Patients from psychiatric hospitals
LTBI. Risk groups. Selection for observation
(Russian example)

Children: a) Children who had contact with TB patients (TB contacts);
   b) Children who were detected as TB infected (after screening
      by skin tests and additional clinical examination);

Medical examination: 1) Montoux test
                     2) Diaskintest
                     3) Clinical examination
                     4) X-ray examination (computer tomography)

Adults: People who had contact with TB patients (TB contacts) and from
special populations

Medical examination: 1) Clinical examination
                     2) Smear, culture examination
                     3) Diaskin test
                     4) X-ray examination
## LTBI. Diaskintest and MANTOUX-TEST

<table>
<thead>
<tr>
<th>Indicator of comparison</th>
<th>Diaskintest (standard dose)</th>
<th>Mantoux-test with 2 TE</th>
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</thead>
<tbody>
<tr>
<td>Sensitivity of test</td>
<td>98% - 100%</td>
<td>85% - 90%</td>
</tr>
<tr>
<td>Specificity of test</td>
<td>90% - 100%</td>
<td>40% - 60%</td>
</tr>
<tr>
<td>Positive reaction on BCG vaccination</td>
<td>No</td>
<td>До 50%</td>
</tr>
<tr>
<td>Nonspecific allergy</td>
<td>0.5 - 1%</td>
<td>До 10%</td>
</tr>
<tr>
<td>Positive reaction on BCG vaccination complication</td>
<td>negative</td>
<td>positive</td>
</tr>
</tbody>
</table>
LTBI. Observation of people with latent TB infection (Russian example)

Children with LTBI on observation in 2014 – 560,612 children

   Period of observation - up to 2 years

Adults with LTBI on observation in 2014 – 372,988 people

   Period of observation – during one year after contact with TB patients

**Medical activities:**
1) Planned visits to TB specialist and medical examination twice per year;
   
   2) Consultation by TB specialist in case of infection disease;

   3) Chemoprophylaxis;

   3) Sanatorium for adults and for children from vulnerable groups of population;
## LTBI management in Russia

<table>
<thead>
<tr>
<th>Detection of LTBI</th>
<th>Yes. Regulations in place. Protocol of screening in place.</th>
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<tbody>
<tr>
<td>Medical examination for LTBI</td>
<td>Yes. Regulations in place. Protocol of examination in place.</td>
</tr>
<tr>
<td>Observation of LTBI</td>
<td>Yes. Regulations in place. Protocol for observation in place.</td>
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<tr>
<td>Preventive treatment</td>
<td>Evidence based protocol for LTBI preventive therapy for countries with high spread of MDR-TB should be developed</td>
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</tbody>
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