# Protocol
## PPD Skin Testing in the Schools

TB Skin Testing

1. Done by school nurse trained in intradermal injection technique.
2. Available to employees of the EC Department/Preschool Programs at the request of their supervisor if they have not previously had a documented positive Mantoux skin test. (cost is covered by department requesting testing)
3. Available to students enrolled in the Health Occupations Class as a part of the Career and Tech Education program if they have not previously had a documented positive Mantoux skin test. (cost is covered by department requesting testing)
4. Use 0.1 cc of 5 TU Purified Protein Derivative (PPD) administered intradermally.
5. Reaction should be read in 48-72 hours and recorded in mm.
6. If a 2- step PPD is required, the minimal interval for the second PPD is one week from the first PPD, up to 3 weeks apart.
7. This testing is safe for pregnant employees and students.
8. Repeat screening is not necessary unless:
    - symptoms referable to tuberculosis are present
    - exposure to tuberculosis disease
    - A two step process is required by the clinical facility where students will be rotating.
9. Skin test should precede or accompany the administration of live virus vaccines, e.g. MMR and Varicella vaccines; otherwise, an interval of 4-6 weeks should elapse after live vaccine is given before skin test in done.

Interpretation

1. A reaction of ≥ 5mm induration is considered positive for:
    - close contacts to an individual with known or suspected infectious tuberculosis within the past 2 years
    - Those suspected of having active TB disease based on clinical and/or chest x-ray evidence
    - individuals with HIV infection
    - individuals with fibrotic changes on chest x-ray consistent with prior TB
    - Individual with organ transplants and other immunosuppressed persons, including those receiving ≥ 15mg per day of Prednisone for one month or longer or persons taking or considering taking tumor necrosis factor (TNF) inhibitors such as etanercept (Enbrel®), infliximab (Remicade®), adalimumab (Humira®) or anakinra (Kineret™)

2. A reaction of ≥ 10 mm induration is considered positive for:
    - children younger than 4 years of age
    - foreign-born individuals from high prevalence countries, e.g. Asia, Africa, Caribbean; Latin America, Mexico, South America, Pacific Islands or Eastern Europe.
    - HIV-negative individuals who inject illicit drugs or use crack cocaine
    - Individuals with medical conditions that have been reported to increase the risk of tuberculosis disease once infected:

  - diabetes mellitus
  - chronic malabsorption syndrome
  - chronic renal failure
  - leukemia, lymphomas, Hodgkin's disease
  - cancer of the head or neck
  - weight loss of ≥ 10% below ideal body weight
  - silicosis
  - gastrectomy, or jejunoileal bypass
- Residents and staff in long-term care facilities
- Health care workers
- Inmates in the Department of Corrections
- Staff with direct inmate contact in the Department of Corrections or Jails
- Employees of HIV/AIDS adult daycare centers
- Homeless shelter residents, employees and volunteers
- Individuals who increase their mm reading by 10mm or more within 2 years (converter)
- mycobacteriology lab personnel
- children and adolescents exposed to high-risk adults (homeless, substance abuse, incarcerated, HIV positive)
- persons who have traveled outside the US and stayed with a family and friends who live in high incidence areas, for greater than 1 month cumulatively

3. A reaction of ≥ 15mm induration is considered positive for:
   - individuals who do not have any of the above risk factors

Contact Investigation:

All positive results will be referred to Union County Health Department – Communicable Disease nurse for result evaluation, contact investigation and treatment as deemed necessary.

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Date

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