

Pass/Fail Criteria for Wyoming Late Onset Hearing Loss Screening Components

1. Otoscopy

- **Pass** all children **except** those with drainage from or a foreign object in their outer ear canal.
- The presence of pressure equalization (PE) tubes and/or wax is not a fail.

2. Immittance

A. Ear Canal Volume (ECV) acceptable values by age:

- 9-24 months: less than 0.8 mL (cm³)
- 2-6 years: less than 1.0 mL (cm³)
- 6 years and older: 0.4 to 1.5 mL (cm³)

*Typically, the smaller the physical size of the child, the smaller the ECV

*Typically, the left and right ears will have similar ECV values. If they are not similar, ask "why"? (i.e. patent tube? Perforated tympanic membrane?)

B. Tympanic Membrane (TM) Compliance (TMC):

- Passing Criteria:
 - Greater than or equal to 0.2 mL (cm³)
 - 0.1 mL with an acoustic reflex (AR) present is a **pass**
- Failing Criteria:
 - 0.1 mL with no AR present is a **fail**
 - 0.0 mL
 - NP (No Pressure)

C. Middle Ear Pressure (MEP):

- Passing range: -250 to +100 daPa

* Order in which screening results appear may be different on your screening equipment than what appears above.

3. Otoacoustic Emissions (OAE)

- If the OAE screening equipment does not specifically show that the child passed bilaterally, it is a failed OAE screening.
- Attempted by incomplete screenings (malfunctioning equipment, poor screening technique, uncooperative child, etc.) are all **fails**.

4. Pure Tones

- A child must respond to all tones (1000, 2000, and 4000 Hz at 20 dB HL) in both ears to **pass**.
- If a child is unresponsive to one or more tones or responds at a louder level than 20 dB HL, in one or both ears, it is a **fail**.