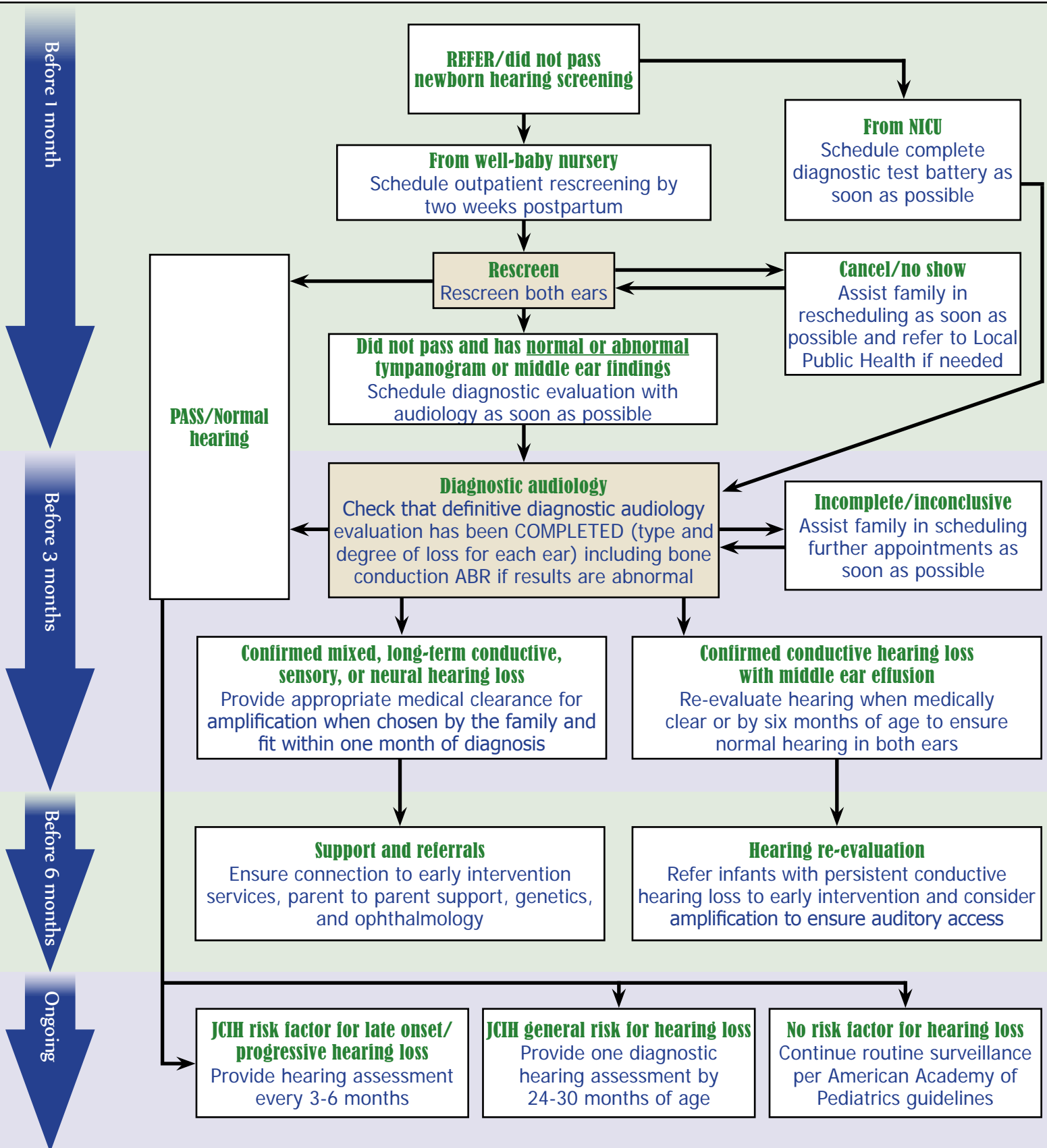


ENT Guide to the Newborn Hearing Diagnostic Process



myths vs. facts

OF EARLY HEARING DIAGNOSIS

no. 1 MYTH: There is no rush to identify hearing loss.

FACT: Infants identified with hearing loss before three months of age can begin early intervention and avoid delays in speech and language; those with late diagnosis and intervention may never catch up.

MYTH: Fluid prevents accurate completion of diagnostic ABR.

FACT: Use of bone conduction ABR (automated brainstem response) can and should be used as part of a complete test battery to rule out underlying sensory loss—even when fluid is present—as per MDH and American Academy of Audiology guidelines.

no. 2

MYTH: Abnormal OAEs along with flat tympanograms confirm conductive hearing loss.

no. 3 FACT: OAEs (otoacoustic emissions) and tympanograms do not measure hearing levels.

MYTH: It is not as important to complete diagnostic testing by three months of age for infants with a REFER result in just one ear.

no. 4

FACT: The rate of confirmed hearing loss is the same for Minnesota newborns with either unilateral or bilateral REFER results on the initial outpatient rescreen.

MYTH: Providers should wait to re-evaluate/rescreen infants with REFER results who have middle ear fluid until three months of age.

no. 5 FACT: OME (otitis media with effusion) clinical practice guidelines call for prompt and definitive evaluation of hearing for an infant with OME who is at risk (i.e., did not pass the hearing screen) for speech, language, or learning problems.

MYTH: Infants need to be sedated to complete ABR.

FACT: Younger infants (ideally between four to eight weeks of age) can typically be tested without sedation.

no. 6

no. 7 MYTH: There are too many referrals from hospitals to warrant a diagnostic ABR.

FACT: The REFER rate at hospital discharge in Minnesota is 4.2 percent. After the first outpatient rescreen, only about 1 percent of all newborns require diagnostic testing.

MYTH: Most infants who do not pass the first outpatient screening are eventually found to have normal hearing.

FACT: 30 to 50 percent of Minnesota infants who do not pass the initial outpatient screening have some type/degree of confirmed hearing loss.

no. 8

MYTH: Rescreening when fluid clears up will still allow time for a complete diagnosis by three months of age.

no. 9 FACT: Recent Minnesota data indicates that 60 percent of infants with delayed diagnosis had a history of middle ear fluid and multiple rescreens.

MYTH: Postponing ABR and continuing to rescreen is more cost-effective for the patient.

FACT: Minnesota infants followed in this manner frequently become lost to follow-up; those who continue follow-up often have up to four additional rescreens and still require ABR—which then requires sedation—at a significant cost increase above the best practice rate.

no. 10