Symptomatic or at-risk infants

Failed NBHS or confirmed SNHL

Urine or saliva\(^\dagger\) CMV PCR testing

Positive at <21 days post-birth

Positive at >21 days post-birth

Postnatal versus cCMV

Request CMV PCR DBS

Positive DBS test

Negative DBS test\(^\dagger\)

cCMV confirmed

Complete severity assessment

Refer to ID specialist

Symptomatic cCMV or SNHL

Probable cCMV\(^\S\)

If highly specific findings (e.g., chorioretinitis or intracranial abnormalities \(\pm\) SNHL)

Inconclusive/ Possibly postnatal CMV

No CMV-specific findings

Isolated SNHL

No treatment consensus at this time*

Mild cCMV

No treatment

Moderate to severe cCMV

Treatment indicated

\(^\dagger\) Urine testing preferred. Saliva PCR should be confirmed with urine CMV testing when infant is breastfed

\(^\dagger\) A negative DBS cannot rule out cCMV

\(^\S\) Probable cCMV: Presence of highly specific findings PLUS urine CMV-positive >21 days

CMV Cytomegalovirus; cCMV Congenital cytomegalovirus; ID Infectious diseases; DBS Dried blood spot; NBHS Newborn hearing screen; SNHL Sensorineural hearing loss

*Management is individualized based on assessment of risk and benefit