

Clinical Assessment and Management Congenital Cytomegalovirus (cCMV)

Infants that fail their newborn hearing screen or exhibit symptoms of cCMV (see below for list)

- Follow standard procedure for reporting hearing screen to EHDI
- Follow standard procedure for referral for further hearing testing, if failed
- Obtain Saliva or Urine CMV PCR

Positive Saliva PCR

Obtain Urine PCR
(Hospital to complete if inpatient, Primary Care Provider if discharged)

Negative Saliva PCR

- No further cCMV workup required
- Report result to EHDI

Positive Urine PCR

- See below for recommended next steps
- Report result to EHDI

Negative Urine PCR

- No further cCMV workup required
- Report result to EHDI

If Positive Urine CMV PCR:

HOSPITALS AND PRIMARY CARE PROVIDERS SHOULD COLLABORATE TO PERFORM ALL THE FOLLOWING TESTS AND REFERRALS BEFORE 30 DAYS OF AGE TO EVALUATE FURTHER FOR EVIDENCE OR EXTENT OF CCMV DISEASE:

- Referral to Pediatric Infectious Disease
- CBC with differential
- Liver function panel with total and direct bilirubin
- Head Ultrasound
- Referral to Pediatric Ophthalmology for dilated retinal exam within 3 weeks of life
- Referral to Otolaryngology
- Referral to Pediatric Audiology for Diagnostic Auditory Brainstem Response (ABR) evaluation

Symptomatic if one or more of the following:

- Thrombocytopenia
- Hepatomegaly
- Splenomegaly
- Intrauterine Growth Restriction (IUGR) or Small for Gestational Age (SGA)
- Microcephaly
- Abnormal Head Ultrasound
- Hepatitis
- Sensorineural Hearing Loss

Asymptomatic if all of the following:

- Normal ophthalmology exam
- Normal ABR
- Normal Head Ultrasound
- Normal platelet count
- No hepatosplenomegaly
- Normal liver function

Routine and Long Term Monitoring

- Routine vision screening
- Monitor speech, language, and other developmental milestones
- Engagement with Early Intervention
- Diagnostic Audiologic Evaluations:
 - Every 3-6 months until 1 year
 - Every 6 months until 3 years
 - Annually until 6 years

ALL RESULTS SHOULD BE COMMUNICATED TO AND MANAGEMENT DECISIONS MADE IN COLLABORATION WITH THE FAMILY.