

Evaluation of Suspected Congenital Cytomegalovirus Infection (cCMV)

If any of the following present:

- 1) Mother positive for CMV infection during pregnancy
- 2) Abnormal head size (OFC <10th %ile OR >90th %ile at birth)
- 3) Intrauterine growth restriction (weight <10th %ile for gestational age)
- 4) Unexplained hydrops
- 5) Intracranial OR intraabdominal calcifications on first imaging exam
- 6) Unexplained hepatomegaly OR splenomegaly (>1 cm below the right or left costal margin)
- 7) AST or ALT >100 U/L OR unexplained direct bilirubin >1.0 mg/dL
- 8) Petechial rash or blueberry muffin rash at any time
- 9) Leukomalacia, polymicrogyria, lissencephaly, pachygyria, schizencephaly
- 10) Unexplained persistent thrombocytopenia (platelets < 100k/mm³)
- 11) Failed hearing screen

Send urine CMV PCR
(obtain by 21 days of life when possible)

If CMV + , perform the following tests: (If in WBN/SCN, consider neonatology consult)

- CBC with differential
- CMP
- Ophthalmology (inpatient or outpatient) within 2 weeks of + test
- Head Ultrasound
- Hearing: Diagnostic ABR, OAE (Tympanometry and Bone if indicated)
- Refer to Early Intervention
- EMAIL Utah Dept Health CMV@Utah.gov

ASYMPTOMATIC if all of the following:

- Normal Ophthalmology Exam
- Normal ABR *
- Normal Head US
- Normal Platelet Count
- No hepatosplenomegaly
- Normal Liver Function

* Normal ABR = 25 dBHL or less at all test frequencies (500, 1k, 2k, and 4k whenever possible) with present OAE

At 3mos of age:

- Follow up with Audiology & ENT

Isolated Sensorineural Hearing Loss

SYMPTOMATIC if one or more of the following:

- Thrombocytopenia
- Hepatomegaly
- Splenomegaly
- IUGR/SGA
- Sensorineural hearing loss (if also one or more of the above)
- Microcephaly
- Abnormal HUS
- Hepatitis

By 4 weeks of age:

- Consult **Pediatric ID** to discuss antiviral treatment
- Consult **Pediatric Neurology** if abnormal HUS or microcephaly

Evaluation in Multidisciplinary Congenital CMV Clinic Call (801) 662-1740 to schedule:

- Infectious Disease
- ENT
- Neurology