Clinical Guideline
Newborn Targeted CMV Screening Protocol
Newborn Nursery

Test ALL symptomatic infants:
• IUGR*
• Microcephaly*
• Hepatosplenomegaly
• Chorioretinitis
• Neonatal seizures, abnormal neuro exam
• Petechiae
• Jaundice at birth

Also consider other possible congenital infections
*see reverse side for additional info

Asymptomatic newborn fails hearing screen
Repeat hearing screen x2
If still fails, send urine CMV PCR and refer to Audiology prior to DC

CMV Positive
1. Audiology URGENT visit
2. Labs: CBC/Diff, CMP (LFTs and RF), blood CMV PCR
3. Schedule Head US
4. Ophtho referral
5. ID referral

If audiology confirms hearing loss:
1. Start valgancyclovir
2. Refer to ENT

CMV Negative
No further testing. Keep routine Audiology appointment.

Follow-up:
1. Labs (while on VGCV):
   ~ Weekly (first 2-4 weeks): CBC/diff, CMP
   ~ Monthly thereafter
2. Audiology: 3mo, 6 mos then Q 6mo until 3yo
3. Ophtho exam: 12 mos then Q 6mo (unless findings suggest shorter interval)
4. Careful neurodevelopmental exams at each WCC (referrals as indicated)
This guideline should not replace clinical judgment.

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**Symptomatic Infants:**
- IUGR = < 3%ile for weight
- Microcephaly = < 3%ile for head circumference

Positive CMV:
1. Urgent ID referral
   - Send Cerner message to Beth Marshall for ID appointment

2. Urgent Audiology evaluation
   - Send Cerner message to Sheri Stoots and Audiology-RMC-Messages
   - “Urgent Audiology referral needed for CMV positive infant”
   - Appointment will be made within the week

3. If fails repeat Audiology evaluation, urgent ENT referral:
   - Send Cerner message to Kelley Dodson and Lauren Riggs

4. Call CHoR Radiology to schedule head ultrasound
   - Place order in Cerner
   - Call: 628-4977 to schedule

5. Place Ophthalmology referral (usual process okay)

For questions concerning this guideline, contact: chorclinicalguidelines@vcuhealth.org

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Congenital Cytomegalovirus Guideline

Executive Summary

Children's Hospital of Richmond at VCU Congenital Cytomegalovirus Workgroup

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Approved (June 2020)

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References


Citation

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Example: