Testing for Congenital Cytomegalovirus

**Urine or Saliva CMV PCR**
- **Yes** → **Child <6 months old**
  - **No** → **Serum CMV IgG**
  - **Yes** → **Likely Congenital CMV but verify with repeat urine PCR**

**<21 days old?**
- **Yes** → **Dried Blood Spot CMV PCR**
  - **Yes** → **Dried Blood spot available?**
    - **Yes** → **Congenital CMV confirmed**
    - **No** → **Congenital CMV cannot be confirmed**
    - **DBS PCR is roughly 70% sensitive, meaning that about 1/4 of true positives are missed. As such, a negative DBS does not completely rule out congenital CMV.**
  - **No** → **Test other specimens:**
    - **Yes** → **Consider presumptive clinical diagnosis:**
      - Based on the presence of clinical features at birth, present clinical features, neuroimaging etc. Rule out other causes of symptoms (e.g. genetic hearing loss).
    - **No** → **Not Congenital CMV**

**Not Congenital CMV**
- **No** → **<21 days old?**
  - **Yes** → **Not Congenital CMV**
  - **No** → **Likely Congenital CMV but verify with repeat urine PCR**

**Either Congenital CMV, postnatal exposure or maternal antibodies**
- **Hunter** → **Test other specimens:**
  - **Yes** → **Consider presumptive clinical diagnosis:**
    - Based on the presence of clinical features at birth, present clinical features, neuroimaging etc. Rule out other causes of symptoms (e.g. genetic hearing loss).