

## Blood Required for Pediatric Tubes for Different Tests and Test Combinations

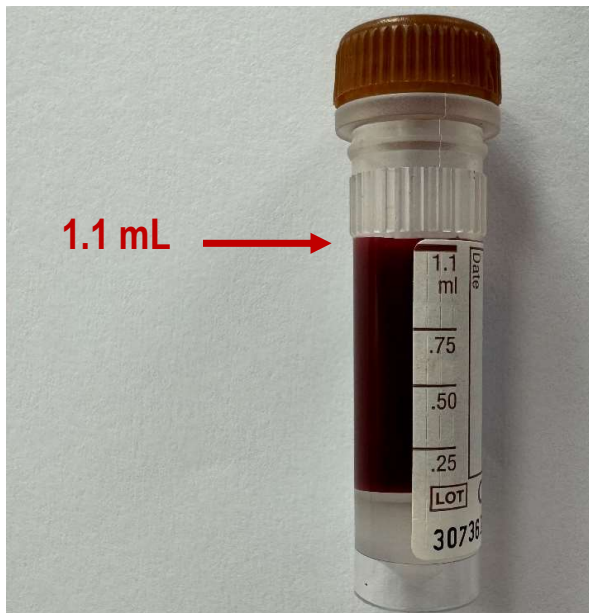
	<b>Blood volume (per bullet point)</b>	<b>Remarks</b>
Category A	0.5 mL	Half tube
Category B	1.1 mL	Min. 1 full tube
Category C	2.2 mL	2x full tubes

<b>Category A (0.5 mL / half tube per bullet point)</b>	
<ul style="list-style-type: none"> <li>• C-Reactive Protein (CRP)</li> <li>• Sodium (Na)</li> <li>• Potassium (K)</li> </ul>	<ul style="list-style-type: none"> <li>• Calcium (Ca)</li> <li>• Magnesium (Mg)</li> <li>• Phosphate (PO4)</li> </ul>

### DISCLAIMER:

- For tests not listed in this guide, please refer to eLab book.
- Sharing of tubes across different laboratories is not recommended. Please send separate tubes accordingly.
- Blood volume is calculated based on **60% PCV / HCT**, and min. serum height required according to manufacturer's criteria.  
*Note: volume of blood required for adult tube is different due to larger tube diameter.*
- If the patient has higher PCV / HCT (>60%), it may not be sufficient for a full tube to run Category B tests. It is recommended to draw **2 tubes** of blood.
- For samples with low volume (i.e. patients who are difficult to bleed), please send a memo to lab. Failure to do so will result in sample rejection.  
*Refer to eLab book > Special Instructions > Clinical Chemistry*

### Image of full tube (1.1 mL):



<b>Category B (1.1 mL / 1 full tube per bullet point)</b>	
<b>Profile test / Panel test</b>	
<ul style="list-style-type: none"> <li>• Renal Panel (RP)</li> <li>• Liver Function Test (LFT)</li> <li>• Lipid Panel</li> </ul>	<ul style="list-style-type: none"> <li>• Iron Panel</li> <li>• Thyroid Panel (Free T4 + TSH)</li> <li>• Hepatitis B Immunity Profile</li> </ul>
<b>Different common test combinations</b>	
<ul style="list-style-type: none"> <li>• RP + Glucose</li> <li>• RP + CRP</li> <li>• RP + CRP + Gentamicin</li> <li>• RP + CRP + Amikacin</li> <li>• RP + Ca + Mg + PO4 + Uric Acid</li> <li>• RP + Creatine Kinase</li> <li>• LFT + Amylase</li> <li>• LFT + Creatinine</li> <li>• LFT + Uric Acid</li> <li>• LFT + Ca + PO4</li> <li>• LFT + RP</li> <li>• LFT + RP + CRP</li> <li>• LFT + RP + Ca + Mg + PO4</li> </ul>	<ul style="list-style-type: none"> <li>• C3 + C4</li> <li>• IgA + IgG + IgM</li> <li>• IgA + IgG + IgM + LDH + Uric acid</li> <li>• IgA + IgG + IgM + Ca + Mg + PO4</li> <li>• LDH + Uric acid</li> <li>• Ca + Mg + PO4</li> <li>• CRP + Procalcitonin</li> <li>• AFP + <math>\beta</math>hCG</li> </ul>

<b>Category C (2.2 mL / 2x full tubes per bullet point)</b>	
<b>Different common test combinations</b>	
<ul style="list-style-type: none"> <li>• Cardiac Markers (CK + CKMB + Troponin I)</li> <li>• RP + CRP + Procalcitonin</li> <li>• Iron Panel + Vitamin B12 + Folate</li> </ul>	