





Mot	tivation
<ul> <li>Hemoglobin (Hb) level is an important bio-marker for evaluating health condition.</li> <li>Thalassemia and sickle cell diseases are most common genetic diseases.</li> <li>Sickle cell patients and premature infants who have anemia need to check their hemoglobin level very frequently.</li> </ul>	<ul> <li>Current invasive Hb measurement technology does venipuncture.</li> <li>Blood tests need the blood sample in medical laboratories.</li> <li>It requires laboratory equipment and facilities, specific speciment of blood, cost and time.</li> <li>Spectrum analysis give higher accuracy level value.</li> <li>Small size spectrometer are available in the market.</li> </ul>





