



Activities conducted at Haemoglobinopathies satellite centre

Mandate

To serve as a leader in research on haemoglobinopathies in the country and become a Centre of Excellence for Teaching, Innovative Research, Technology Development and translating this for the benefit of the patients

Inauguration of centre

- Inauguration of Haemoglobinopathies Satellite Centre at T.B, hospital campus, Chandrapur on 25th October' 2015.



Establishment of diagnostic facility

- Complete blood count
- High performance liquid chromatography
- Liver function test, Kidney function test
- Molecular confirmation of sickle cell, α and β -thalassemia



Community screening and awareness

- 1448 villagers were screened and counselled in 10 tribal villages for haemoglobinopathies.
- Stalls were set up in 3 community and health fairs where more than 300 individuals visited the stalls.
- More than 500 students in tribal hostels and colleges were screened for haemoglobinopathies.

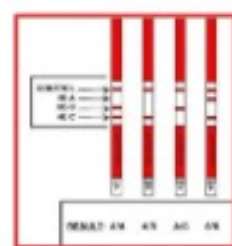


Validation of Point of care (POC) sickle cell diagnostic kits

- Sickle SCAN (POC) kit and Hemotype SC (POC) kit were validated for sickle cell diagnosis by testing of 300 adults and 500 newborns.
- Results of both kits were confirmed against paper electrophoresis, HPLC and molecular diagnosis.



Sickle SCAN kit



Hemotype SC kit

Training programmes

- Training programmes are annually conducted for DMLT and MSW students.
- Training programs of POC kits and HPLC test were conducted for NHM staffs of Chandrapur, Gadchiroli and Palghar districts.



Research publications

- M Mukherjee, R Colah, et al. Multicenter Evaluation of HemoTypeSC as a Point-of-Care Sickle Cell Disease Rapid Diagnostic Test for Newborns and Adults Across India, *American Journal of Clinical Pathology*, Vol 153, Issue 1, Jan' 20, Pg 82-87
- P Warang, T Homma, et al. Potential involvement of ubiquitin-proteasome system dysfunction associated with oxidative stress in the pathogenesis of sickle cell disease, *British journal of haematology*, Vol 182, Issue 4, Aug' 18, Pg 559-566