



Control of Sickle cell & Thalassemia Disease in Odisha

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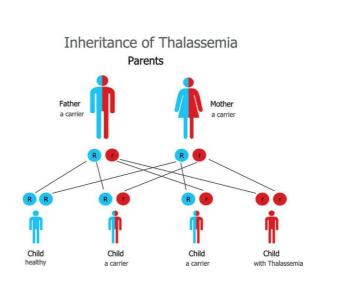
TLSHSRC, NHM & Nodal Officer Sickle cell and Thalassemia Project, Odisha



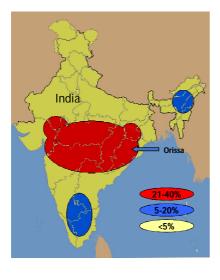
Definition of Sickle Cell Disease and Thalassemia

- Sickle Cell Disease is a genetic disorder in which red blood cells are converted to a sickle shape. The cells die early, leaving a shortage of healthy red blood cells and can block blood flow causing pain. It passes from parents to offspring.
- Thalassemia is an inherited blood disorder characterized by less oxygen carrying protein (Hemoglobin) and fewer red blood cells in the body than normal. It also passes from parents to offspring.

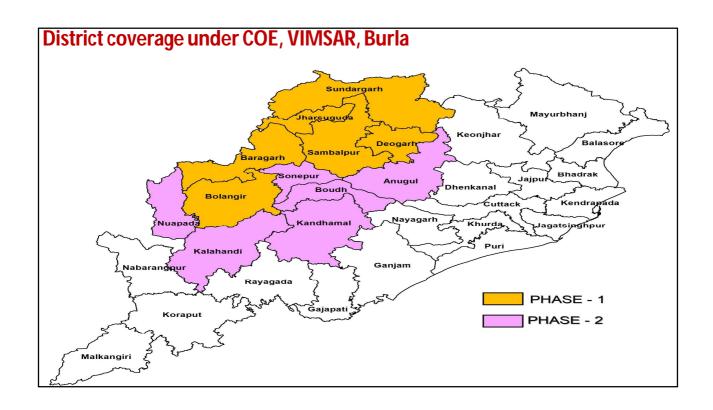
It is more prevalent because of endogamy and consanguineous marriage which is more happening in the tribal districts and western Odisha mostly seen in the Aghoria & Kulta families.

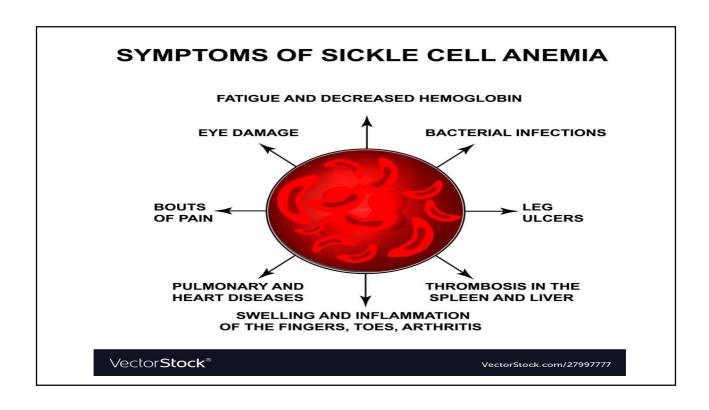


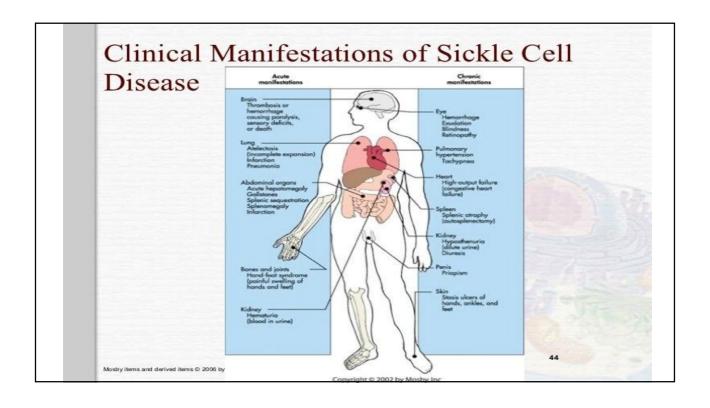
Prevalence of Sickle Cell gene in India

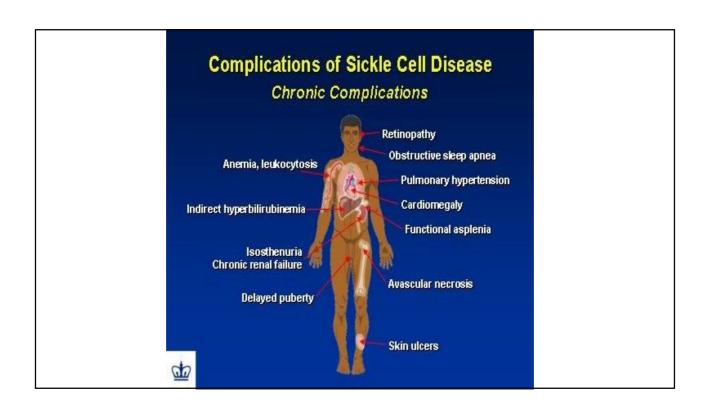


- States with high prevalence are Odisha,
 Jharkhand, Madhya Pradesh, Chhattisgarh,
 Maharashtra & Gujarat.
- ➤ The frequency varies between 5% to 40% in these high-risk states.
- ➤ The State of Orissa falls in the High prevalence zone (21-40%).
- ➤ Few caste groups in Odisha especially from western districts of the state have very high frequency of sickle cell disease due to preferential endogamy.



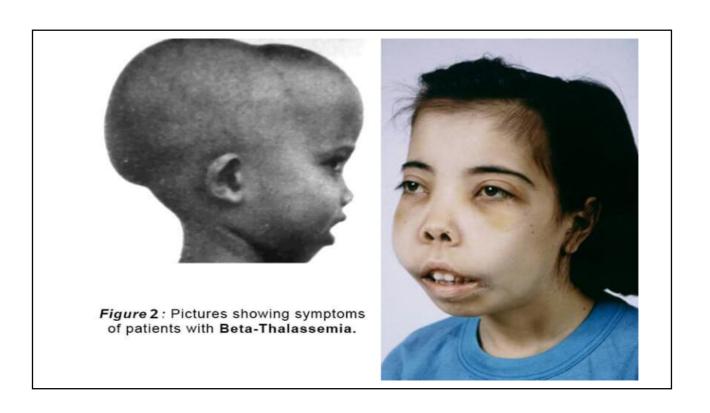












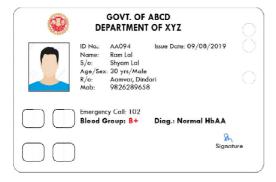
Sample collection during RI Session

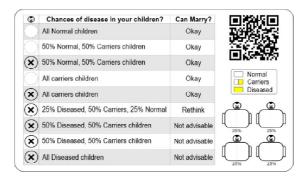


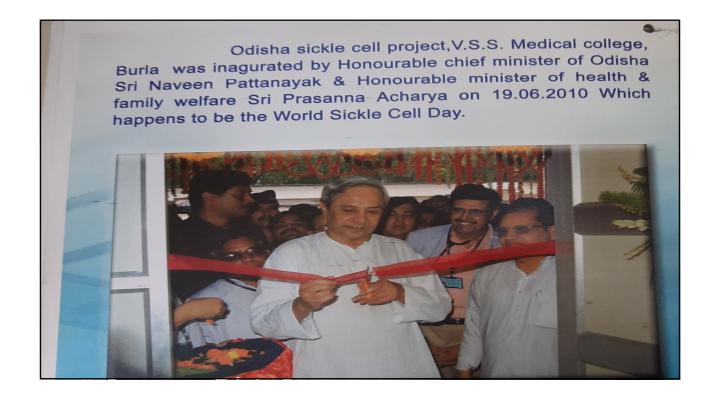




Sickle Cell ID Card







Signing of MoU

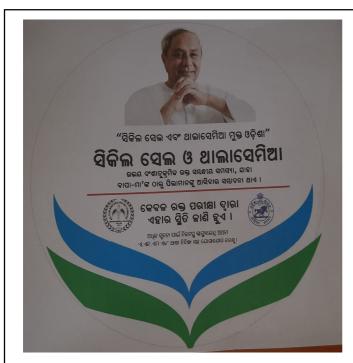


• MoU has been signed between the Govt. Of Odisha and CMC Vellore on 5.12.2017.

Newer Approach: a programme beyond screening

Complete life cycle approach for prevention

- 1- ANC
- 2- Spouse of HPLC +ve ANC
- 3- CVS for foetus in utero of couple both found HPLC +ve
- 4- School students std 8th and above screening



Appeal by Honourable CM, Odisha for awareness generation



Thank You