Thalassaemia in Pakistan

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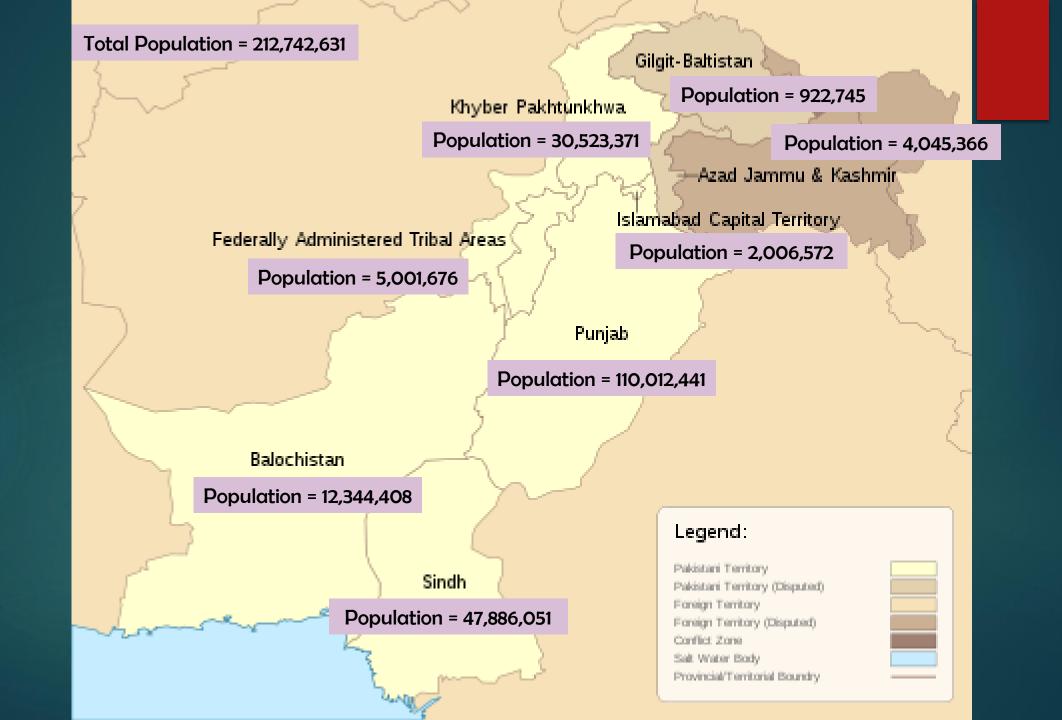


Outline

- Pakistan a glimpse
- Healthcare Systems in Pakistan
- Where do thalassaemics get their care?
- Prevention Programs in different provinces
- Legislations?







Healthcare systems in Pakistan

- Ranks 147 on the Human Development Index in 2016
- ► <1% of GNP spent on health
- Devolved to 8 federal units by 18th amendment in 2010
- Strategic planning is also a provincial responsibility
- Private sector widely used (70%) and government sector (30%)

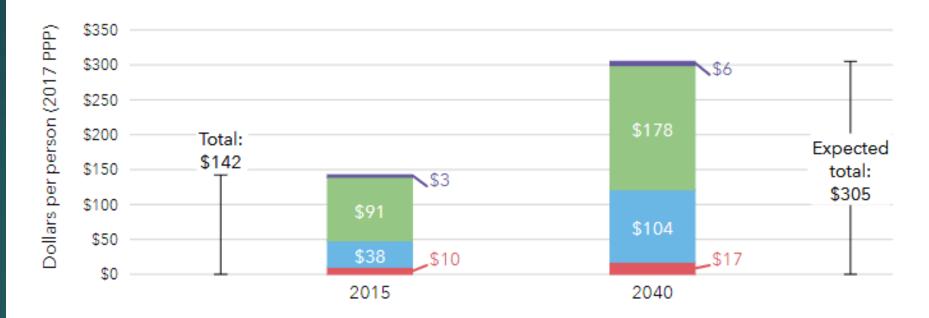
How much is spent on health -- now, and in the future -- and from which sources?

Prepaid private spending

Out-of-pocket spending

Government health spending

Development assistance for health



Source: Financing Global Health Database 2017

PPP = purchasing power parity

"Expected" is the future growth trajectory based on past growth.

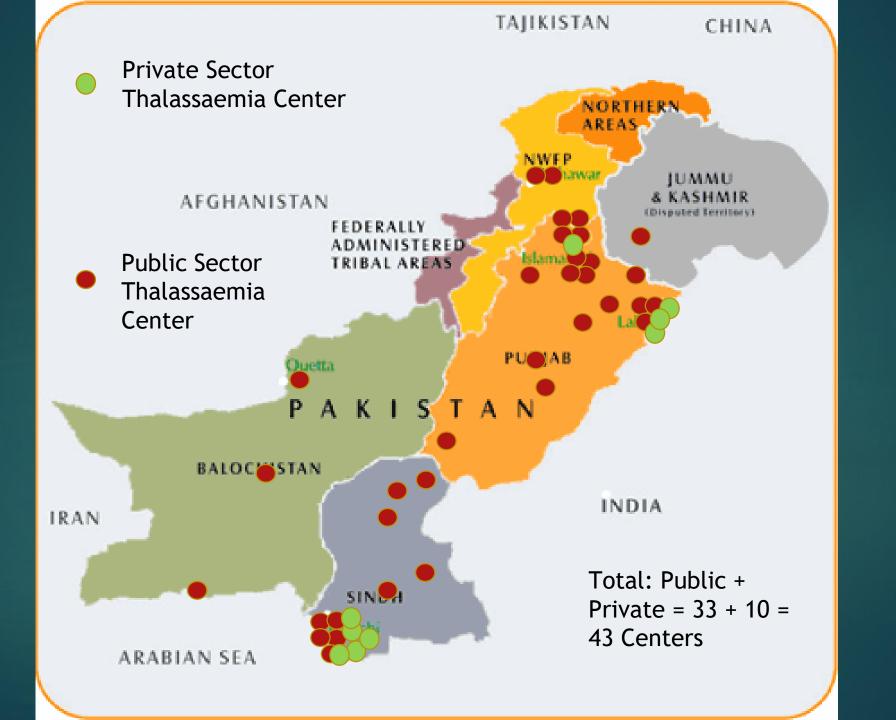
Disease Burden

- A population of over 200 million
- Calculated estimates with a gene frequency of 5 8% means approx. 10 million thalassaemia carriers across the country
- Calculated estimate of 7000 new births of B-thalassaemia
 Major each year
- Calculated estimate of over 100,000 Thalassaemia major patients across the country

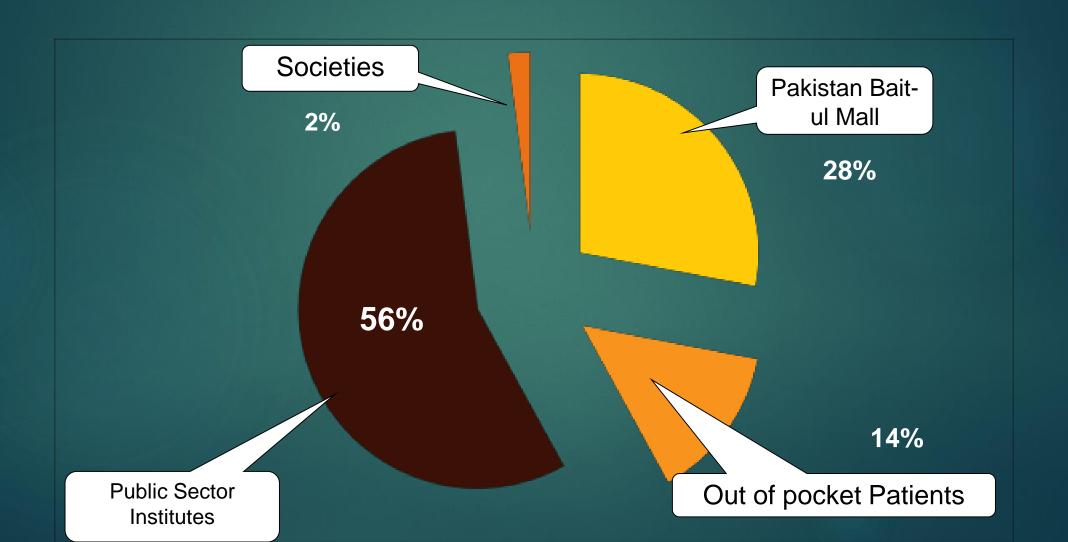
Thalassaemia care in Pakistan

Where do patients get their care in Pakistan?

- Traditionally NGO's 43
- Hospitals Private / Public = 10 / 33 = 43
- General practitioners
- Faith healers
- Homeopathic doctors



Who pays for the Medication??



How is medicine procured?



Prevention strategies in Pakistan

- Awareness seminars
- Carrier screening
 - Extended family,
 - Mandatory
 - Selective
- Prenatal diagnosis Termination of Pregnancy

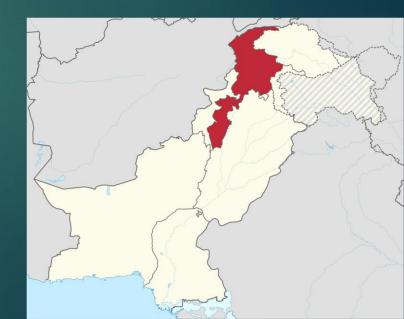
Prevention

- Prevention Programmes are running in 3 provinces.
 - ► KP Thalassaemia Prevention Programme
 - ▶ Sindh Thalassaemia Prevention Programme
 - ▶ Punjab Thalassaemia Prevention Programme

Khyber Pakhtunkhwa

- ▶ Initially started a Thalassaemia Prevention programme in 2005.
- ▶ Was involved in "War on Terror", thus could not really evolve.
- Restarted in 2015 with an aim to emulate the model of Punjab.





Sindh Thalassaemia Prevention Programme

- Currently only involved in legislation in the province.
- Most prevention efforts are head by NGO's and are limited.



Punjab Thalassaemia Prevention Programme

- Most robust thalassaemia prevention programme in the country.
- Based on extended family screening of index cases as well as voluntary screening
- Throughout all 36 districts of the province and possibly the largest prevention programme of its sort catering to a population of 110 million people.















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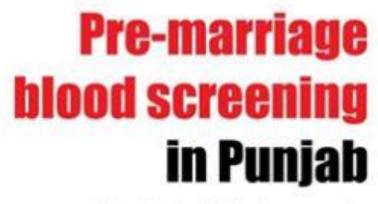
Legislations?

Mandatory screening of all couples prior to marriage?

Screening of all male members of the population and if a carrier then mandatory screening of the spouse

Concerns:

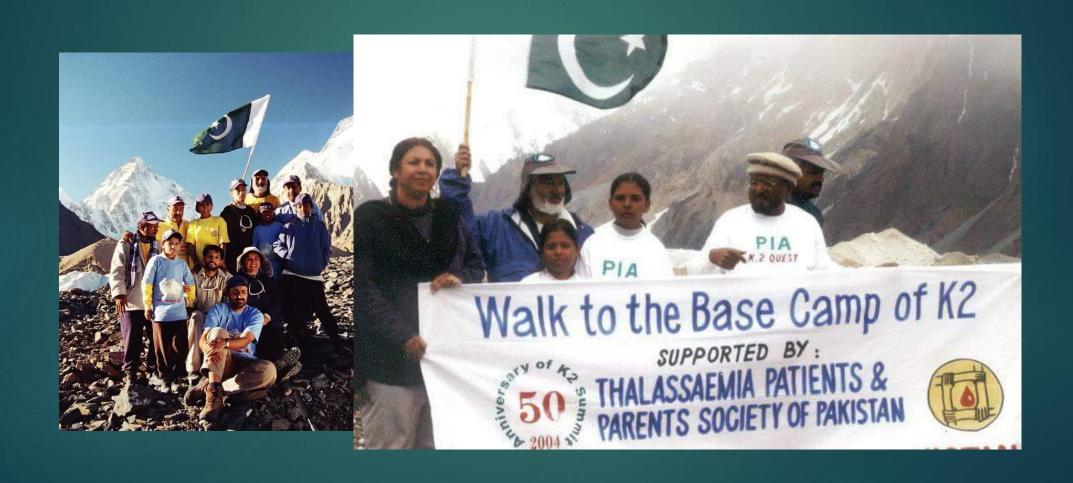
- Lack of healthcare facilities which can screen
- Individual rights infringement and stigmatization



The Punjab Thalassaemia Prevention and Treatment Programme (PTPP) has final-Thalassemia Test ised a draft bill to legislate compulsory pre-marriage blood screening of couples.

DAWN

https://www.dawn.com/news/1360317/draft-bill-finalised-for-pre-marriage-thalassaemia-test





Batool with me at Amina Bashir Memorial Trust, Misri Shah, Lahore



