

Access to Personalized medicine & perspective from a Muslim country

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Top five diseases in Pakistan

- Acute respiratory infection (51%)
- Viral Hepatitis (7.5%)
- Malaria (16%)
- Diarrhea (15%)
- Dysentery (8%)



- 55 million people without potable water and 100 million without sanitary facilities (in 2000-2001)

National level Projects run by Ministry of Health

- National Programme for Prevention and Control of Hepatitis
 - National Maternal, Neonatal and Child Health Programme
 - Expanded Program on Immunization
 - Malaria Control Program
 - Polio Eradication Program
- Nearly 20 million people have no access to any form of health care

Quality of pharmacies in Pakistan

- Cross-sectional questionnaire survey conducted during July–September 2001, of 311 pharmacies out of 506
- 19.3% of the pharmacies met licensing requirements
- 22% were qualified pharmacist with formal education
- 76% had a refrigerator but only 10% had a temperature-monitoring device with 4% have an alternative power supply for refrigerators

- **Drugs sale irrespective of prescription!!!**
- **Greater propensity of Self medication**



With that facts in mind, what is the place of Personalized Medicine in Pakistan's health care system?

Personalized Medicine keeping Islam in background

Fate and destiny



Intention and
Action of
Human Being
towards a goal



Will of Allah
should be
included

Understanding of Islam

- Literacy rate in Pakistan

definition: age 15 and over can read and write

total population: 49.9%

male: 63%

female: 36% (2005 est.)



- National language: Urdu

- Language of Quran: Arabic

- Understanding of Quran????

Reaction of People to PM

- Acceptance from more educated strata
- Complacency
- Confusion
- Active Avoidance
- Fear

Conclusion

- Investing in Basic Health Structure and access to medication is a pre-requisite before introducing Personalized Medicine
- Education of the ordinary man before he can conceptualize, understand and accept PM

*If you want to go fast, go alone.
If you want to go far, go together.*

- old African Proverb