

Worldwide Newborn Screening where are we now?

International Society for Neonatal Screening

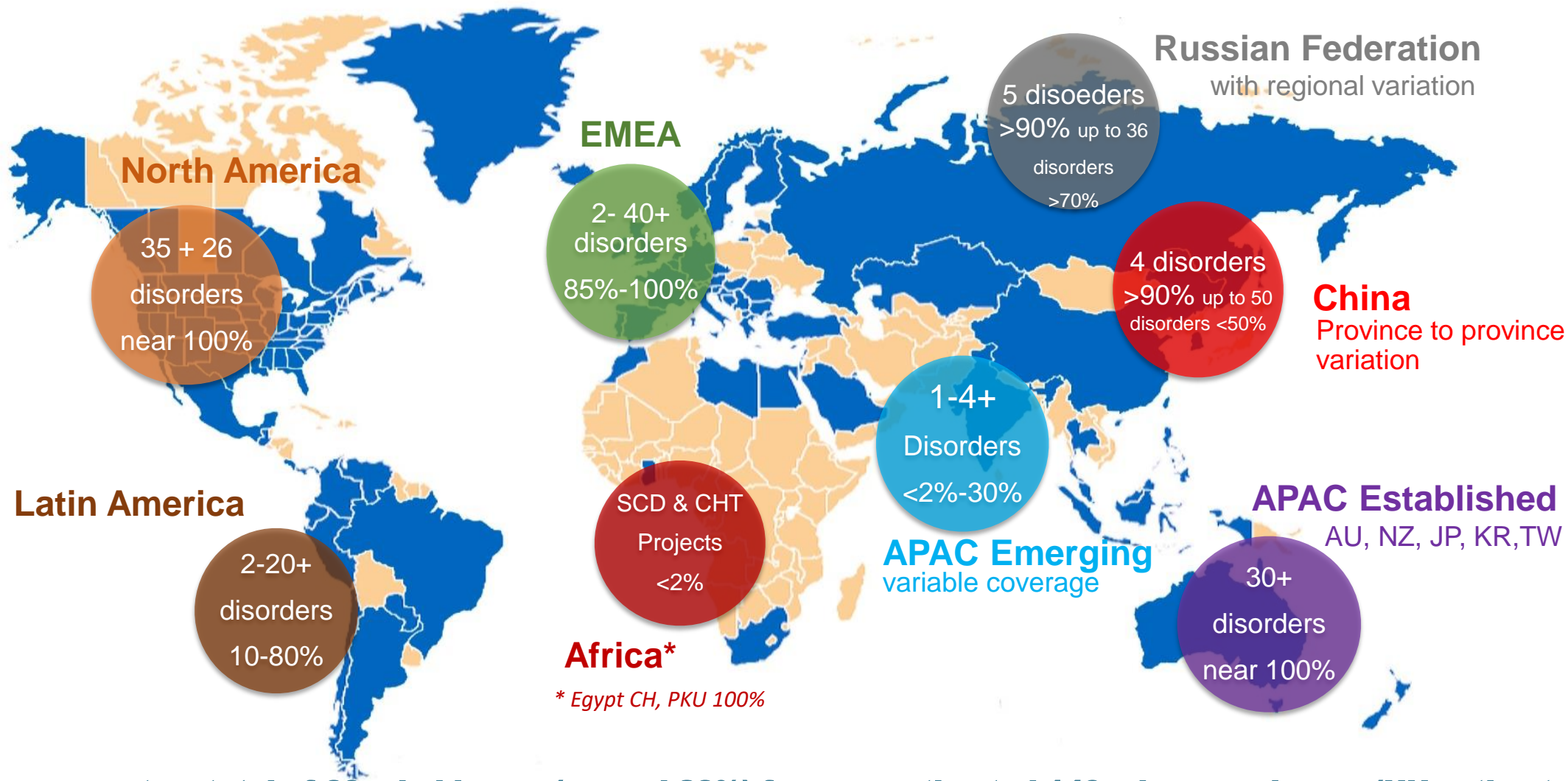


ISNS

International Society for Neonatal Screening

Prof James R Bonham

Where are we now around the world with screening - conditions and coverage?




This represents a total of 39m babies pa (around 28%) from an estimated 140m born each year (UN estimate)

Much to celebrate - Much to achieve!

In a little more detail

- In Europe all of the 4.2 m babies born each year receive some form of screening, although there are marked differences between member states: 2 – 48 conditions are included and aspects of screening practice varies
- In the US there are 3.7 m babies pa. Screening policy is more homogenous with a RUSP consisting of 35 core conditions and 26 secondary conditions. There is still some state to state variability.
- In China there were an estimated 12m births in 2020. There are 200 screening centres and coverage is > 90%. There is a minimum national panel and regions can add to this with many now using an expanded panel
- In Latin America, comprising 20 countries there are 11m births pa, 15 countries have newborn screening programmes and around 50% of all babies are offered some form of newborn screening. The disorders offered varies.
- In Asia Pacific including India around 5m babies are offered screening each year.
- In the Middle East approximately 7m babies are offered screening each year, almost 3m of these in Egypt.
- In Russia an estimated 1.5m babies are offered screening for 5 disorders >90% up to 36 conditions, coverage >70% (by end of 2023) with regional variation.
- In Africa around 30m babies are born each year but newborn screening is very limited, <1m each year.
- **This is a total of approximately 39m babies pa from an estimated 140m born each year (UN estimate) – around 28%. There is still much to achieve!**



Sickle cell disease is a global public health issue.
More than **300,000 babies** are born with sickle cell disease every year in Sub-Saharan Africa and between **50-90 percent** die by their 5th birthday.

