VALUE BASED NEWBORN HEALTHCARE - MEASURING THE RESULTS OF TREATMENT THAT PATIENTS EXPERIENCE

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VALUE BASED NEWBORN HEALTHCARE

CASE:
- Pregnant mother @ 23\(^{3/7}\) wks (normal 40wks)
- Child weight estimated 400g
- Counsellinged for late abortion
- Parents demand active treatment

→ Transfer to level-III perinatal center hospital
NEONATAL MORTALITY AND MORBIDITY

% active treatment / % survival

- Severe impairment
- Mild or no impairment

Rysavi et al. NEJM 2015
VALUE BASED NEWBORN HEALTHCARE

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→ Outcome that matters to parents & children?
OUTCOMES THAT MATTER

DOCTORS

- death
- neuro-developmental impairment
- visual impairment
- hearing impairment
- score on developmental tests
- chronic lung disease ...
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PARENTS AND CHILDREN

- will my baby live?
- will my baby develop to be a happy child?
- will my child be able to enjoy life and communicate?
- will my child be able to live an independent life in society?
- how will my child be when I am gone?

Janvier A et al. Sem Perinat 2016
VARIATION IN HEALTH OUTCOMES

PERINATAL MORTALITY IN EUROPE;
(DEAD CHILDREN / 1000 LIVE BORN)

Eurostat 2017; WHO 2017
International Consortium for Health Outcomes Measurement

A Standard Set for Neonates

www.ichom.org
Outcome measurement drives value improvements for all stakeholders

**Key stakeholders**

- **Patients** will choose their provider based on expected outcomes and their share of the cost.
- **Clinicians** will improve quality of care by **comparing performance** and learning from each other.
- **Hospitals** will **differentiate** into areas where they deliver superior outcomes at competitive prices.
- **Payers** will **negotiate contracts** based on results, not volume, and encourage innovation to achieve those results.
- **Life science** will **market their products on value**, showing improved outcomes relative to costs.
VALUE BASED NEWBORN HEALTHCARE

- The fundamental **goal and purpose** of healthcare is to improve value for patients.

\[
\text{Value} = \frac{\text{Health outcomes that matter to patients}}{\text{Costs of delivering these outcomes}}
\]

- Value is the only goal that can **unite the interests** of all system participants.
- Value is created in caring for a patient's **medical condition** over the **full cycle of care**.

The most powerful single lever for reducing cost and improving value is **improving outcomes**.

Porter ME, NEJM 2010
Objectives of the ICHOM Preterm and Hospitalised Newborns project

AIM:
- We seek to balance a comprehensive view of measurements for evaluating preterm and hospitalised newborns with a feasible recommendation that providers can reliably implement.

DELIVERABLE:
- A minimum Standard Set which will enable outcome measurement in routine clinical practice to:
  - Improve decision making between providers and patients
  - Facilitate quality improvement
  - Allow for benchmarking across organizations
VALUE BASED NEWBORN HEALTHCARE

Preterm infants are a most valuable group of patients as any investment in their health results in lifelong sustainability for them, their families and the society.

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