Tommy's

Pre-term birth impact report

THEN 2000



"I don't know why this has happened and I don't know if it will happen again"

Obstetrician to mother of pre-term babu



IVF:

Multiple embryos transferred resulting in more high risk multiple pregnancies



Obstetric practice potentially caused harm by delivering babies early

NOW 2017



Improved care: Identifying who is at risk

- Prior pre-term birth
- Underweight
- Smoker
- Uterine abnormality
- Cervical surgery
- Full dilation caesarean



Predictive tests (saves health and human cost by reassuring women they will go to full-term/focusses care to those in most need)

- Cervical length
- · Biomarkers such as fetal fibronectin
- · Decision making apps developed



Treatments

- Cervical stitches
- Arabin pessary
- Progesterone



Supporting parents and babies

- Magnesium sulphate to reduce the risk of cerebral palsy
- Targeted steroid to improve baby's lung function
- Better targeting of women to hospitals with neonatal care facilities improves the chances of the baby

Tommy's clinic

Established the first pre-term birth clinic in the UK, helping over 1300 new patients each year. Tommy's clinic model of care has been transferred throughout the UK to over 30 centres

Clinic outcomes:



Of 120 high risk women with multiple losses, referred from other hospitals, 90% have a healthy baby (expected reoccurrence 30-50%)



Hospital pre-term birth – reduction of 22%

2004 9.17% 2011 7.18%



Hospital pre-term birth <32 weeks —reduction of 20%

2004 3.47% 2011 2.79%



Dept. of Health Innovation Award

In 10 years pre-term birth reduced by 15% compared to surrounding hospital regions

Research pipeline

(projects in progress)



Raise national standards by implementation of guidance to reduce pre-term birth



Screening in early pregnancy



Refining interventions around personalised care