CURRENT TREATMENT FOR CHILDHOOD CANCER

Standard care involves prescribing treatment based on the location of the cancer.

same location = same treatment

PRECISION MEDICINE

Precision medicine involves providing personalised treatment based on patients’ genetic information.

Patients Population

Treatments take into account individual variation in genes.

Treatment A

Treatment B

Treatment C

Treatment D

The integration of advanced genetic technologies directly into clinical practice

BENEFITS OF PRECISION MEDICINE

- Improved treatments for high-risk cancers with extremely poor survival rates
- Reduction in the impact that aggressive, toxic treatments have on young children
- Better understanding of the genetic causes of cancer in children and young people

SO WHY NOW?

- The cost of gene sequencing has plummeted
- Precision medicine uses genetic data available in the USA and some parts of Europe
- Our understanding of the genetic factors in cancer has increased
- Survival has improved but has now plateaued

WHAT WE ARE FUNDING

£1.5m

TO DO

- 1. Translation of ‘high-risk’ and ‘low-risk’ genetic syndromes

IN THE FUTURE

- Transition to the NHS
- More clinical trials for next generation of treatments
- Even more increased tissue banking for researchers
- More understanding of causation