CHILDHOOD CANCER

& GENOMICS

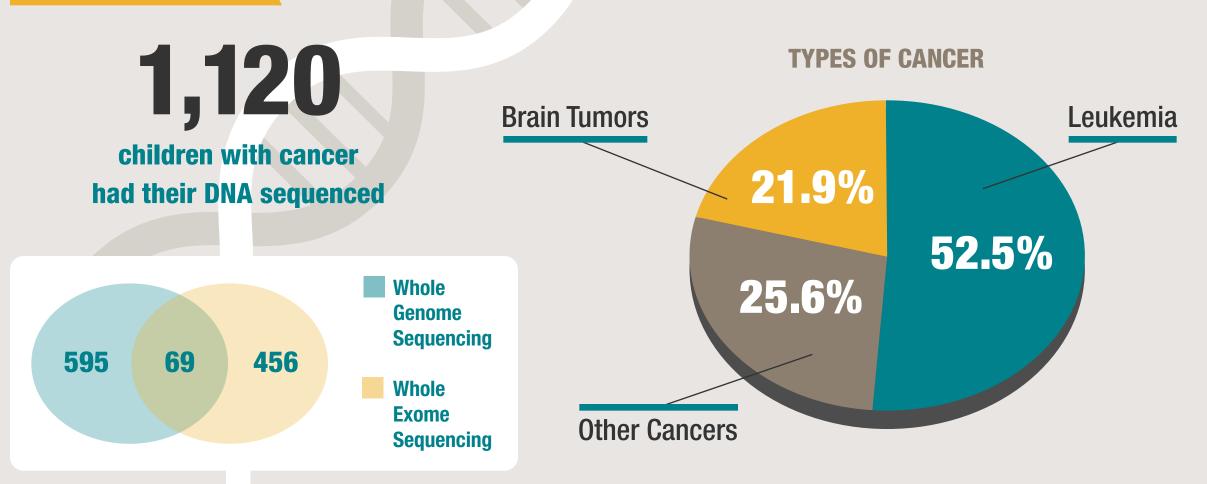
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IN 2010

the Pediatric Cancer Genome Project is launched as an unprecedented effort by St. Jude and Washington University in St. Louis to identify the genomic changes that give rise to some of the world's toughest childhood cancers.

IN 2015

a landmark study from the Pediatric Cancer Genome Project is published in the *New England Journal of Medicine*.





The paper completes the most comprehensive analysis yet of the role genes associated with cancer predisposition play in childhood cancer.

FINDINGS

>8.5%

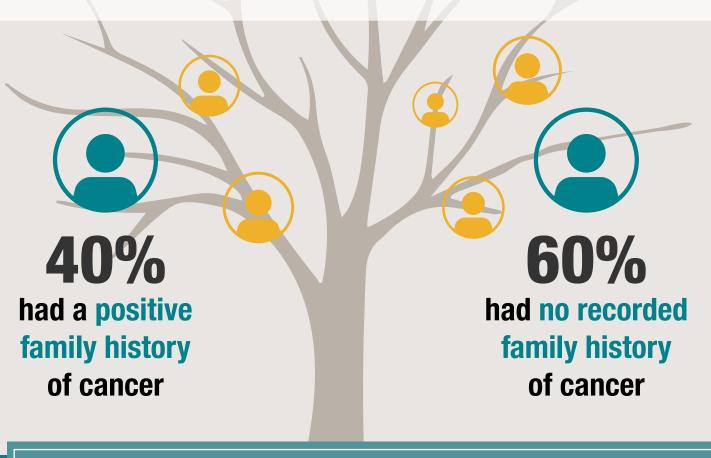
of patients carry a mutation in a gene that likely increases their cancer risk

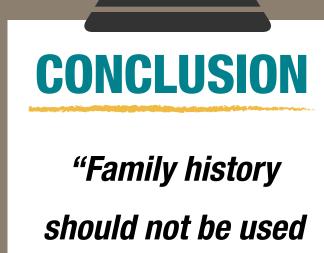
genetic predisposition:

An increased chance to develop a certain condition because a change (mutation) is present in one or more genes within the body's cells.

AND

Out of the 58 patients with a predisposing mutation and available family history





should not be used
as the sole indication
to guide the provision
of genetic testing."

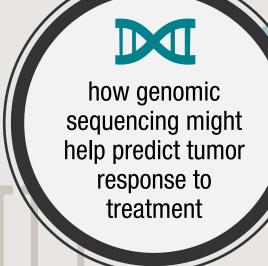
Next Steps

m 2015

St. Jude launched *Genomes for Kids*, a clinical research study looking at using genomic sequencing to understand the similarities and differences between tumor cells and healthy cells in children.

Researchers hope to learn:







IN 2015

the **St. Jude Hereditary Cancer Predisposition Clinic** continues to expand to help evaluate & care for children, and their families, who are at increased risk of cancer.

PSYCHOLOGISTS

The clinic team

DOCTORS

includes:

SOCIAL WORKERS

