

Clinical Cancer Research

- The value of biomedical research is judged by its impact on our patients
- Clinical research measures the impact of new discoveries in patients
- Improvement in survival of children with cancer from 30% to 80% is the result of a commitment to clinical research

Clinical Research at CHOP

- Children's Oncology Group
 - Group Chair
 - Leading center for enrollments on treatment trials
 - Scientific leadership
- Disease and discipline consortia
- Institutional clinical research priorities
 - Immunotherapy and cellular therapies
 - Survivorship
 - Genomics
 - Developmental therapeutics and clinical pharmacology

Fertility Preservation

- Correlating function with prior therapy (Survivorship clinic and CCSS)
- Counseling patients and families
- Cryopreservation of ovarian and testicular tissue

Dosing Anticancer Drugs in Children

- Uniform dose based on body size results in highly variable drug exposure
- Drug exposure related to dose and rate of drug elimination
- Individualize dose based on markers of kidney and liver function
- Determine the optimal dose based on therapeutic drug effects instead of side effects (toxicity)

Clinical Research Mission

- Translation
- Collaboration
- Innovation
- Excellence
- Education