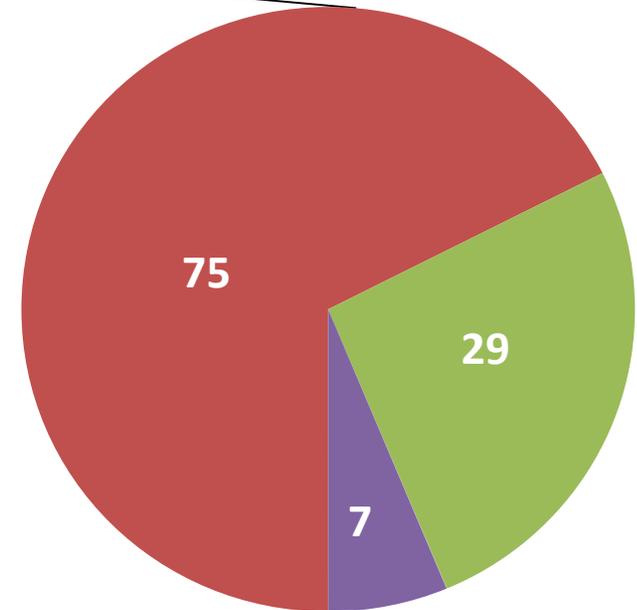


Chimeric Antigen Receptor (CAR) and T Cell Receptor (TCR) Trials Registered with OBA

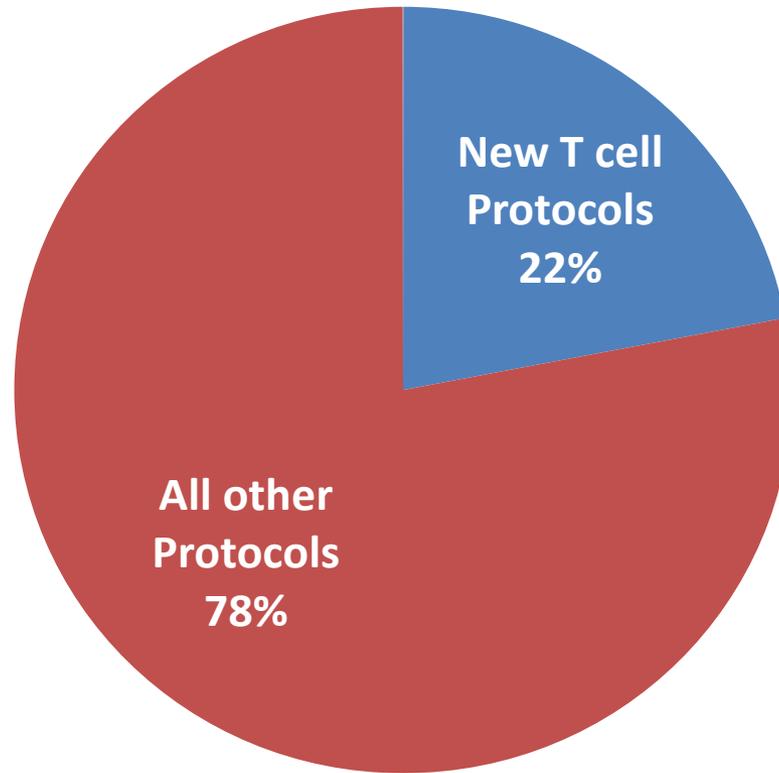
Total Protocols
Registered with
OBA = 111



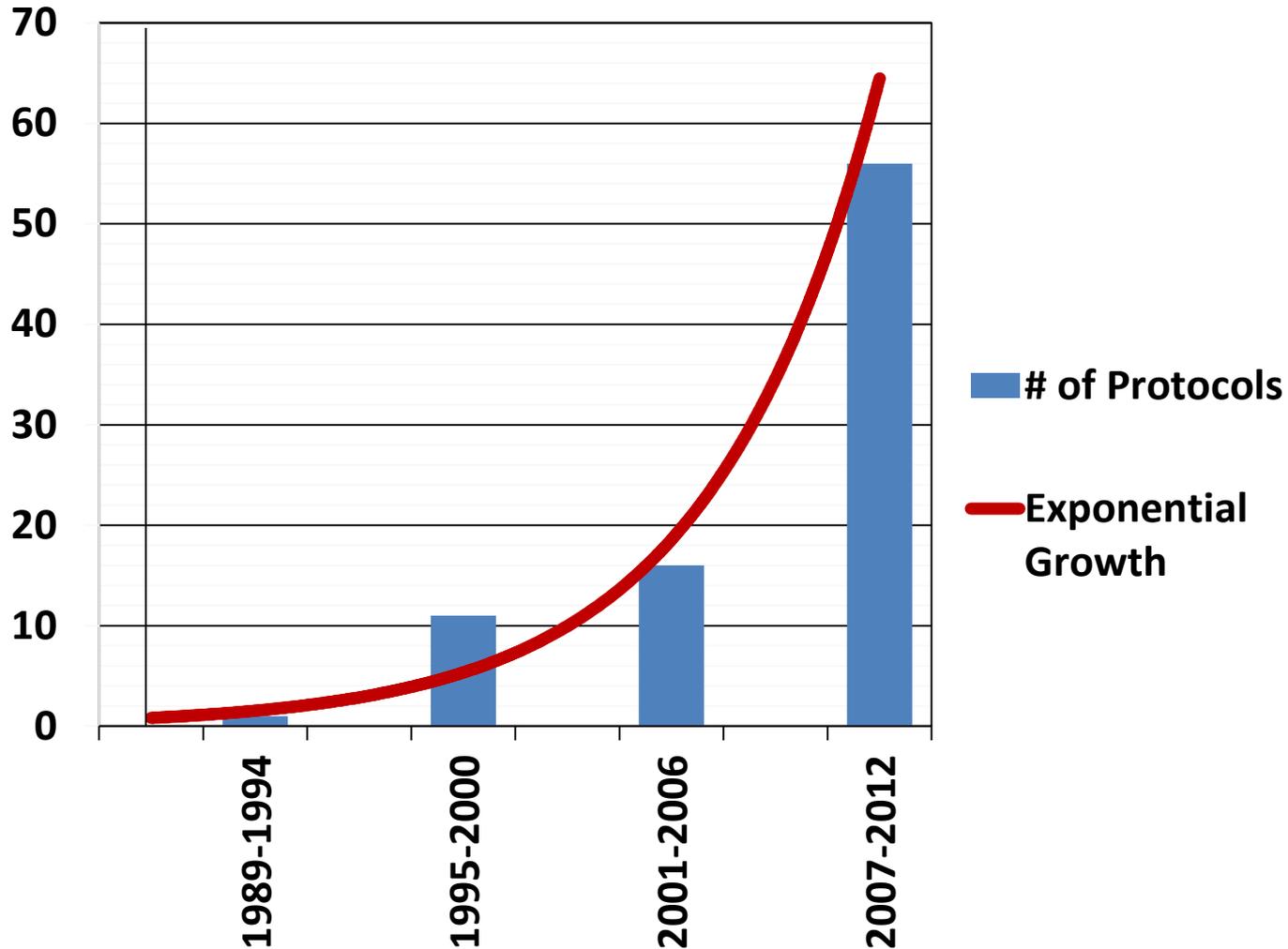
- Oncology CARs
- Oncology TCRs
- HIV Studies *

* Includes 1 TCR and 6 CARs

Gene Transfer Protocols Registered with OBA from 2010 – August 2013

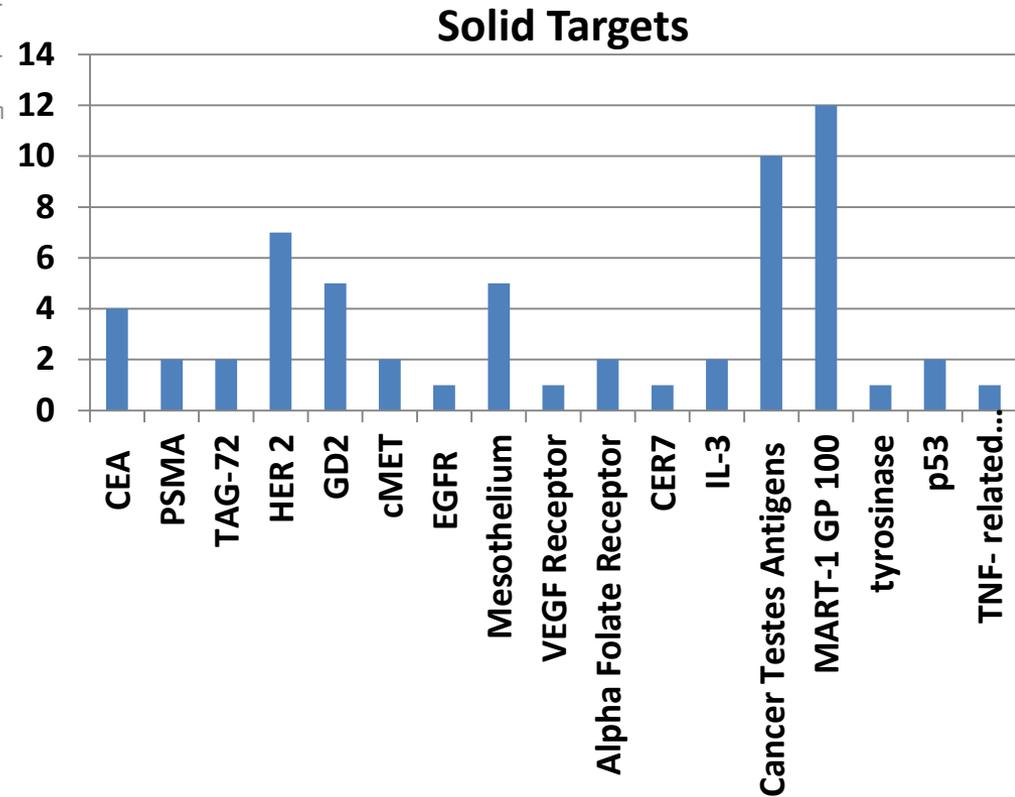
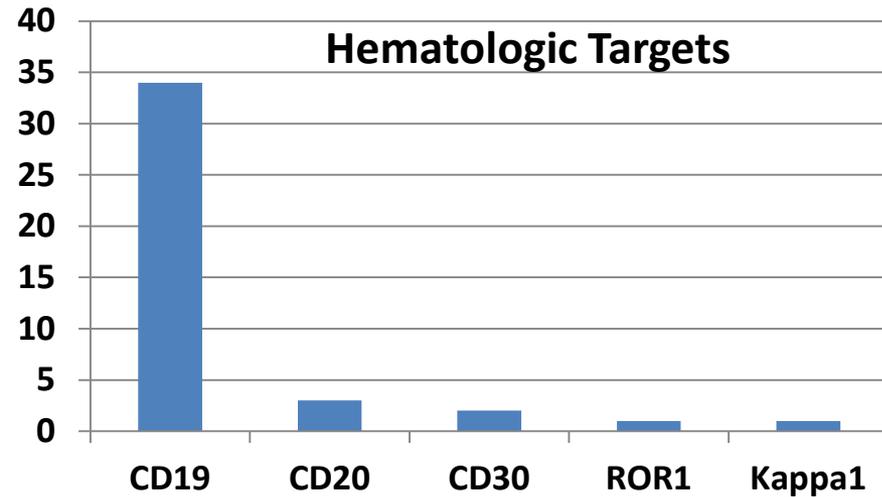


Increase in Protocols Using Gene-Modified T Cell Receptors

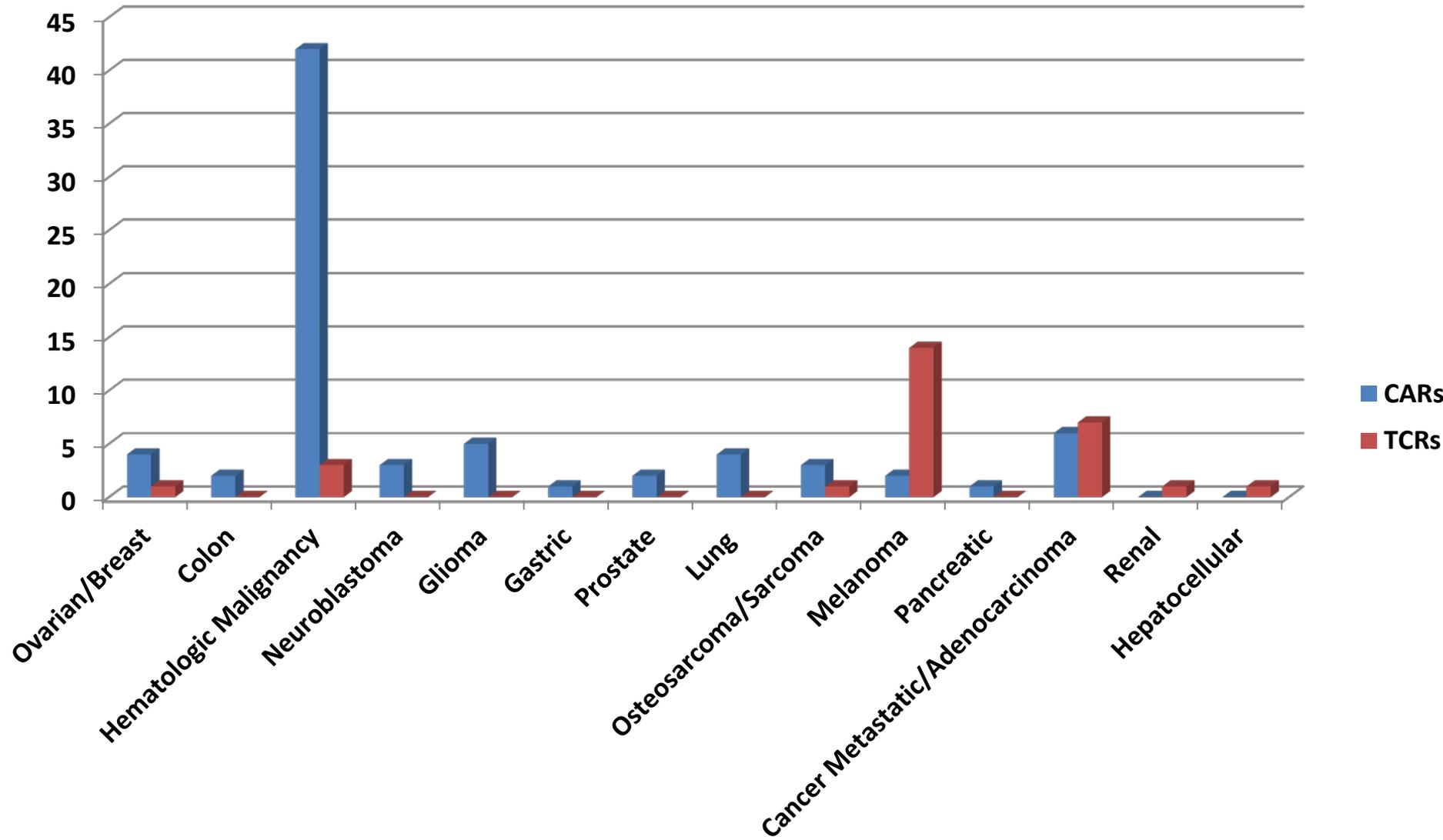


Oncology Protocols

Target Distribution (1995- present)

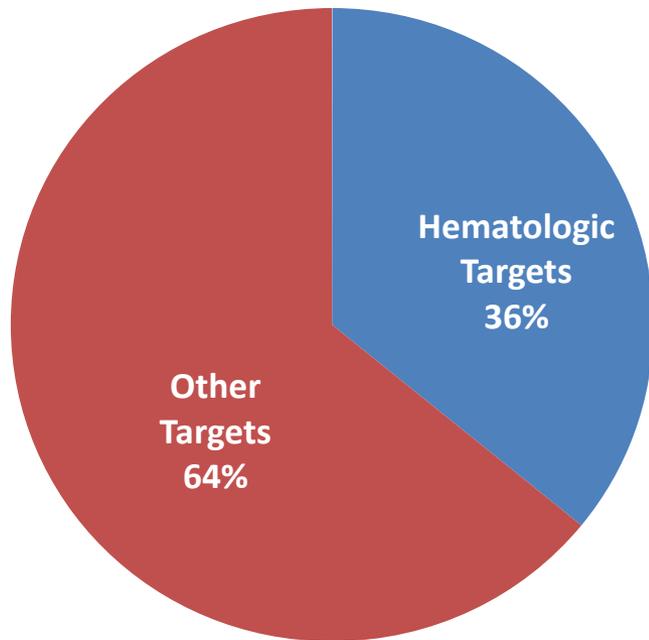


Disease Targets (1995- present)

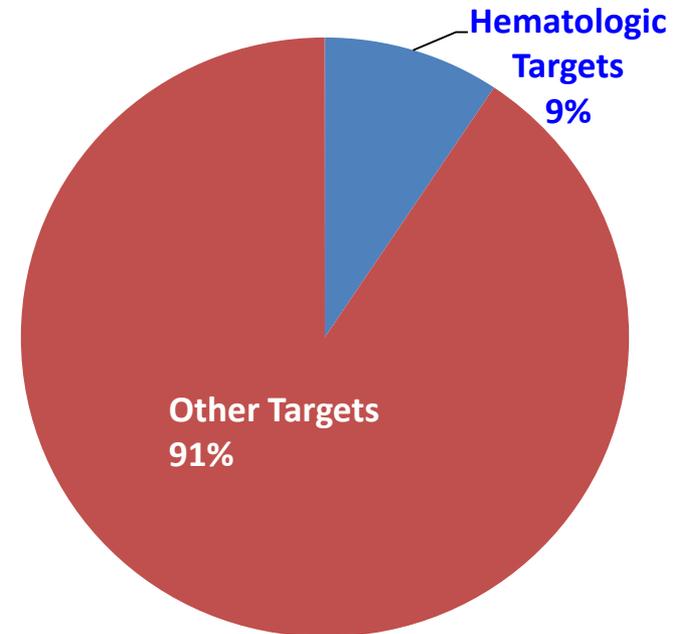


Hematologic Targets (1995 – present)

CARs

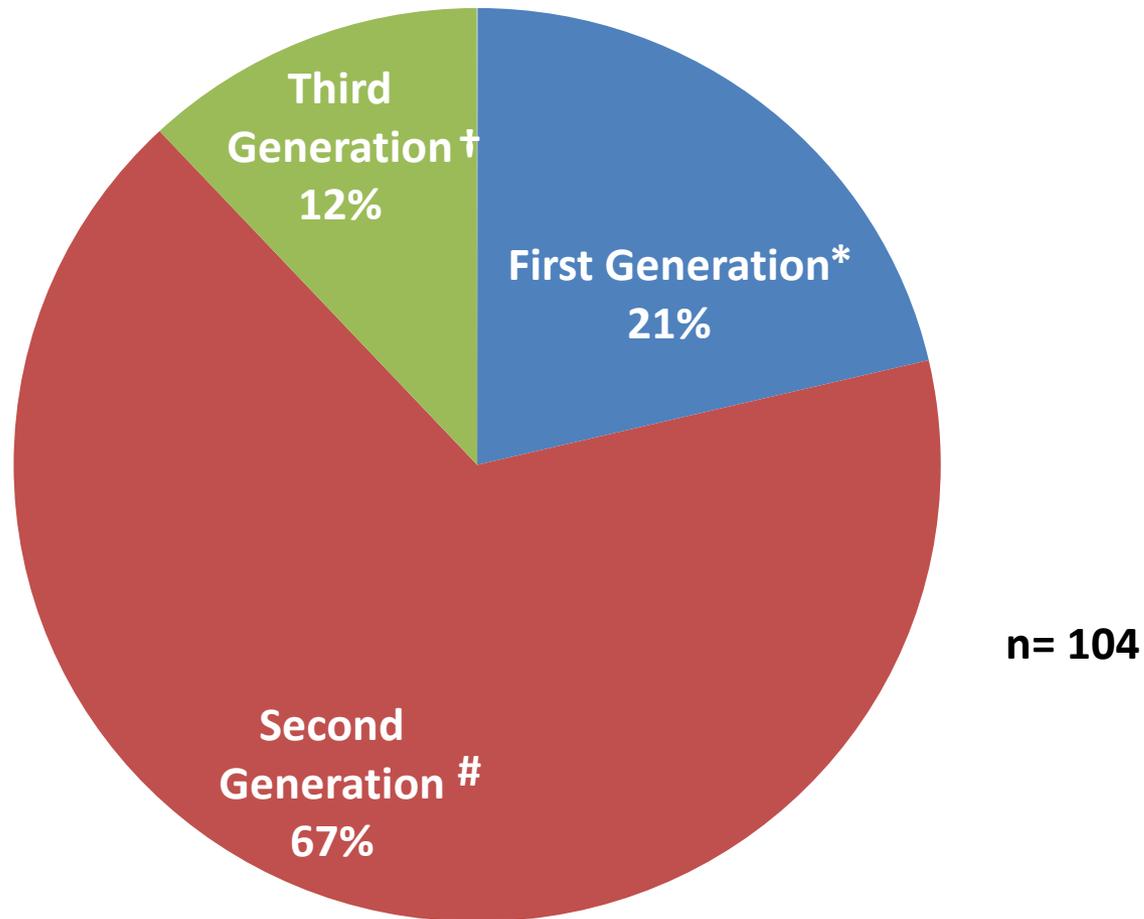


TCRs



n= 104

CAR Generations

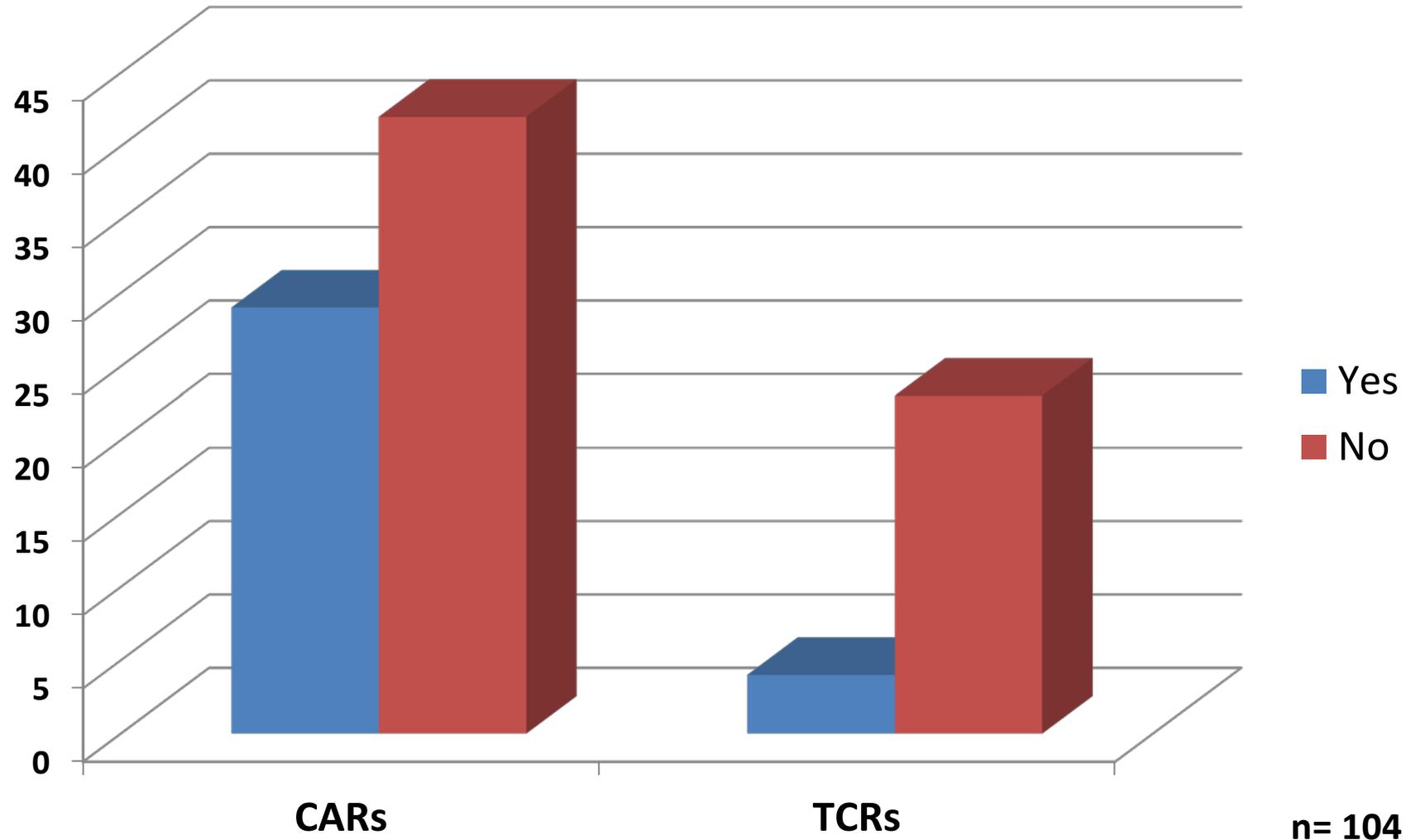


* signaling through CD3 zeta only

signaling through CD3 zeta and either CD28 or 4 1BB

† signaling through CD3 zeta/CD28 and 4 1BB or Ox40

Pediatric Subjects Eligible?



Number of Subjects Dosed (1995 – present)

