

The evolving ANZTCT Registry

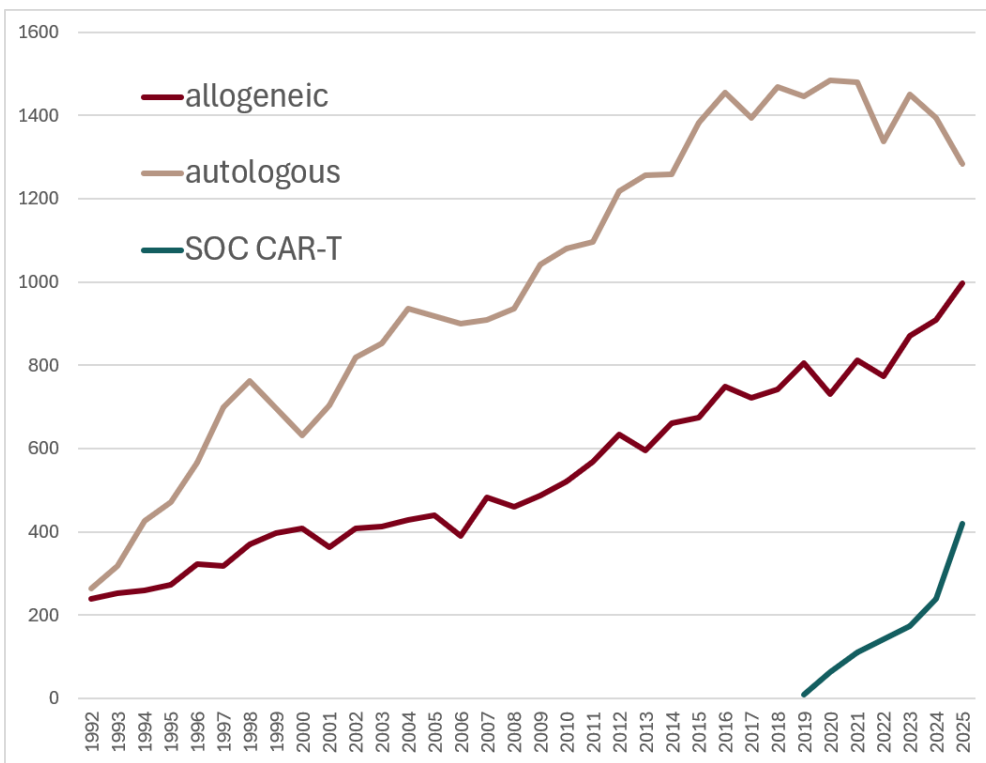
Leonie Wilcox

Annual accrual 1992-2025

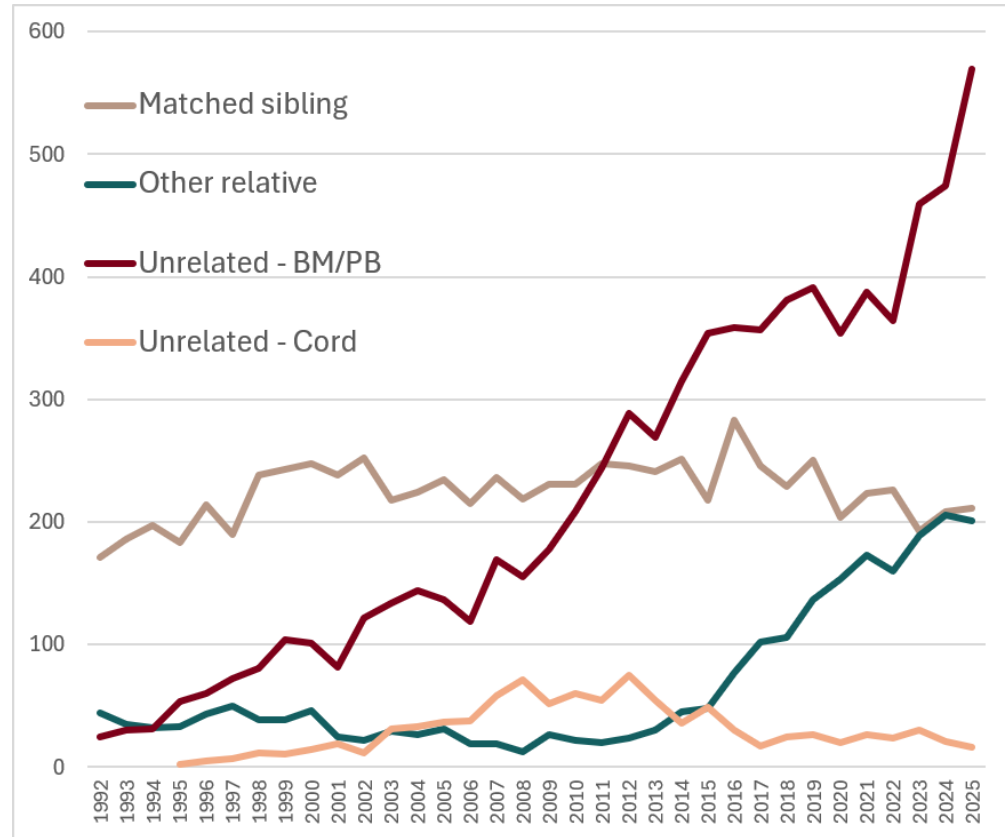
52,800 total transplants

- 18,500 allogeneic
- 34,300 autologous

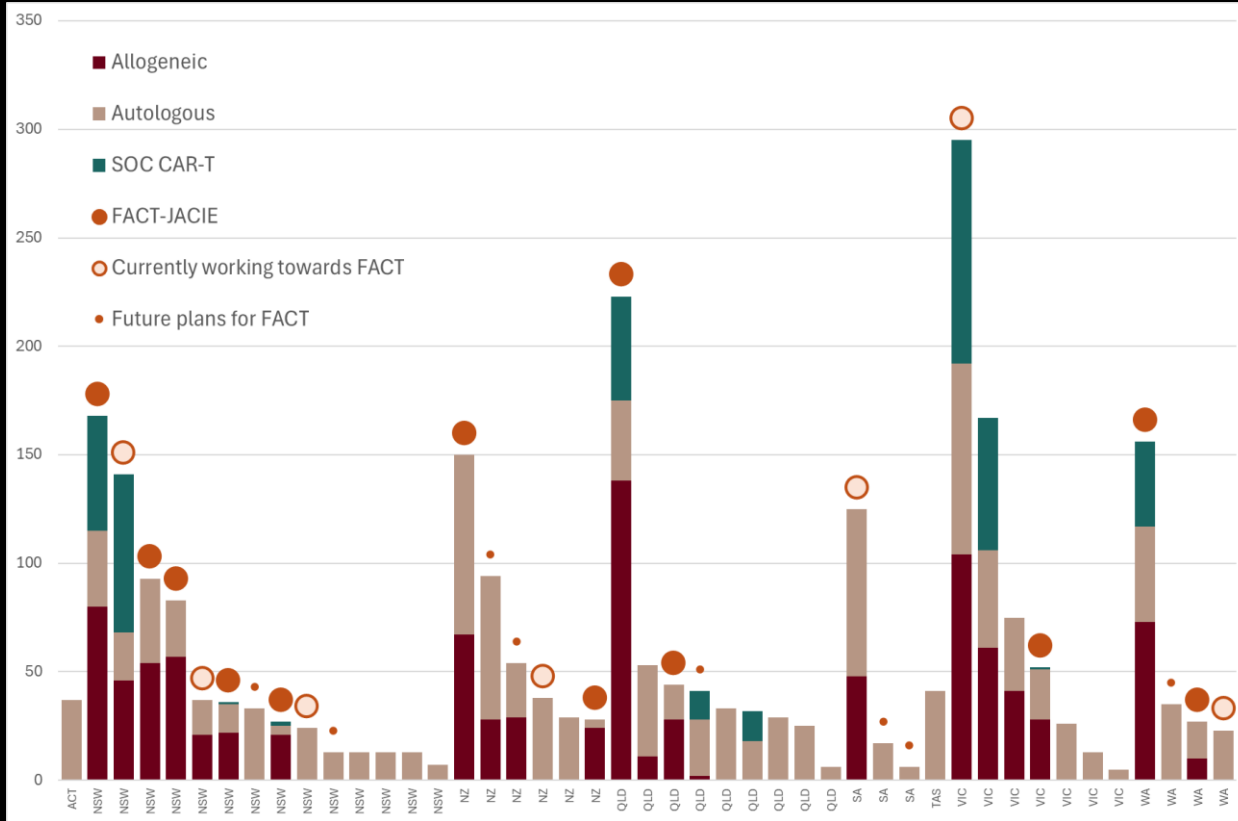
1,150 SOC CAR-T



Allogeneic donor source



2025 activity



45

centres

12

FACT-JACIE

7

actively working
towards FACT

993

allo transplants

1,279

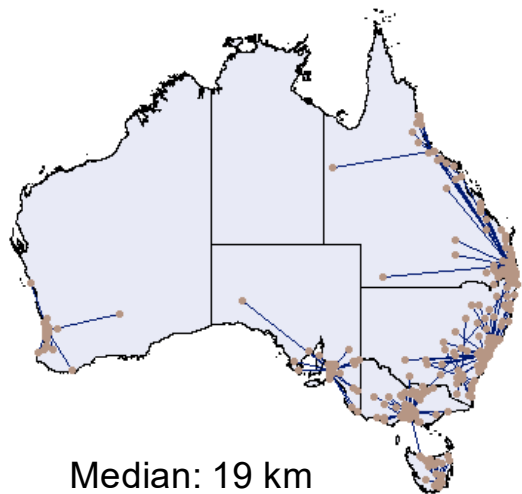
auto transplants

415

SOC CAR-T

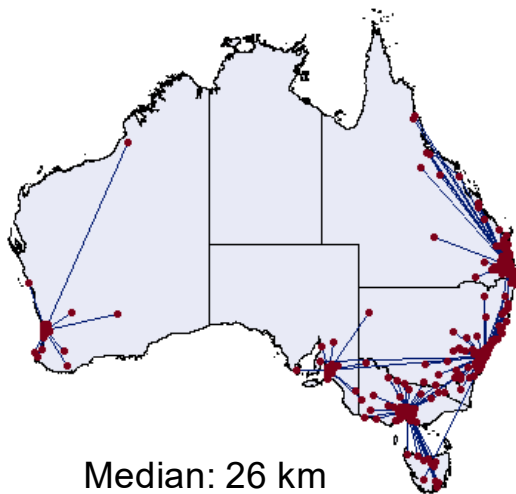
Travelling for treatment in Australia 2025

Autologous transplant



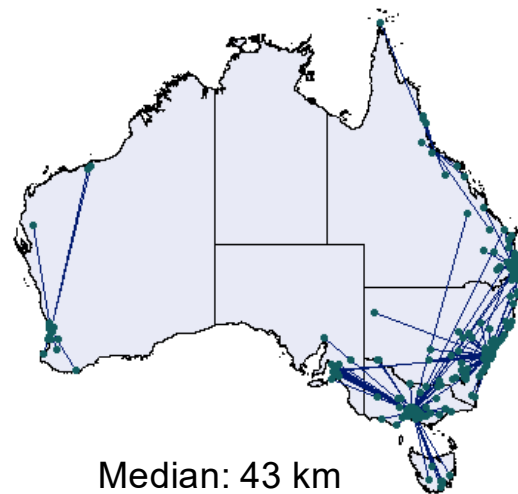
Median: 19 km
IQR [9, 81] km
Range: 1-1,268 km

Allogeneic transplant



Median: 26 km
IQR [12, 104] km
Range: 1-1,633 km

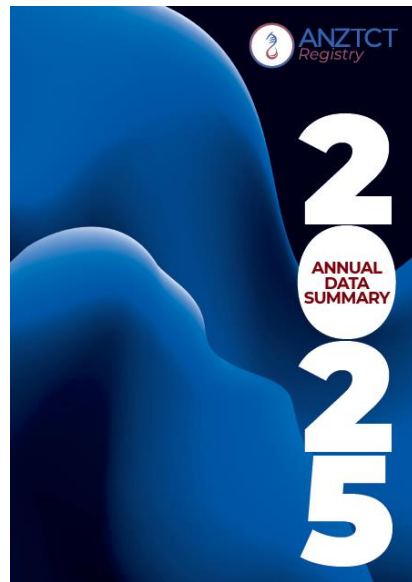
SOC CAR-T



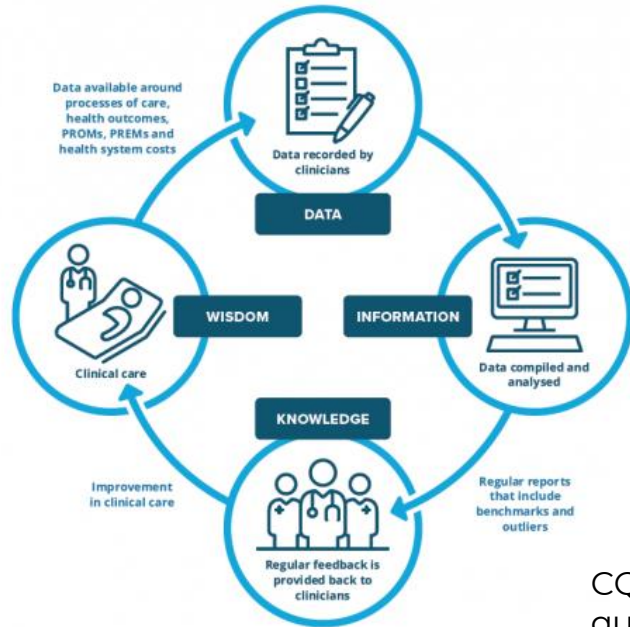
Median: 43 km
IQR [17, 226] km
Range: 1-1,615 km

Reports

- Quarterly data quality reports for each hospital
 - August, November, February, May
- Benchmarking for each hospital – May
- State reports
- Paediatric site reports and comparative analysis (TACTIC)
- Annual Data Summary 2025
- Pharma CAR-T reports for TGA – 7 due in September



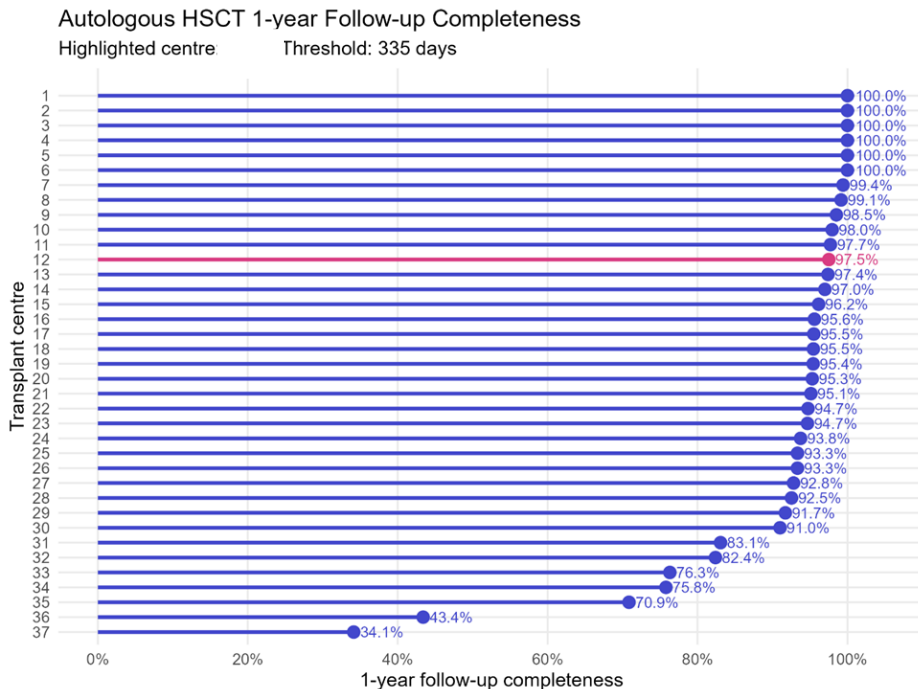
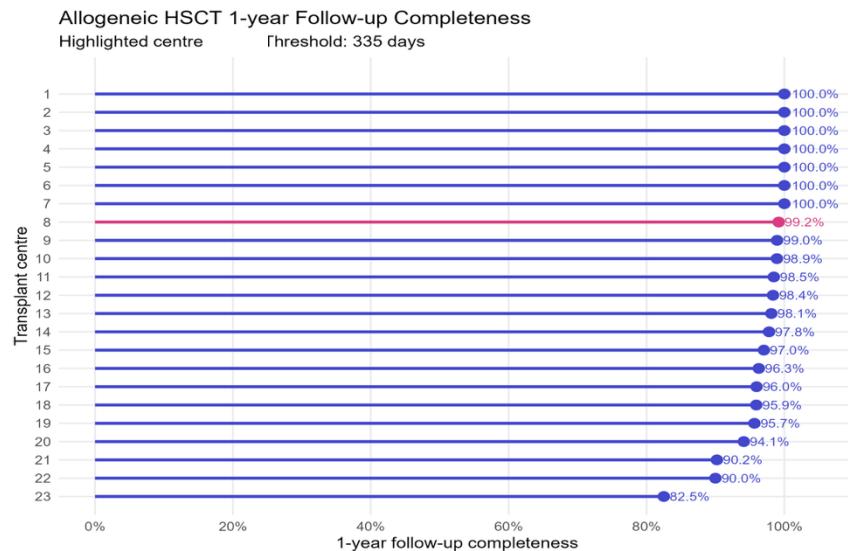
Benchmarking



- Comparative adjusted analysis is a core function of a Clinical Quality Registry
- Internal QA
- Hospital accreditation (FACT, NATA)
- State reports as part of CQR function

CQRs: <https://www.safetyandquality.gov.au/data-and-measurement/clinical-quality-registries#australian-register-of-clinical-registries>

Data quality

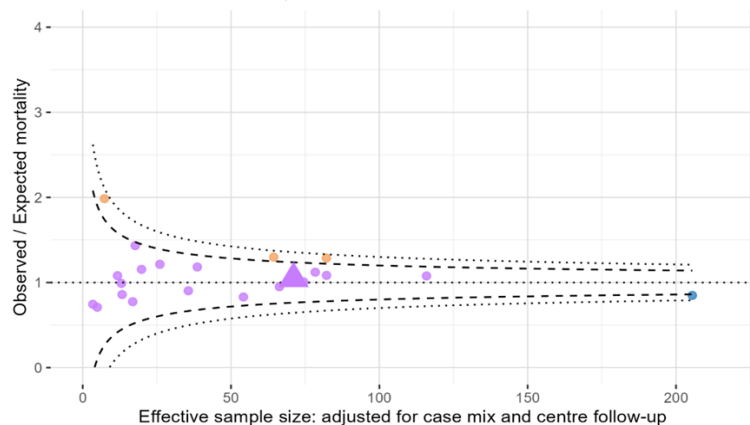


80% needed for benchmarking reports
(CIBMTR expects 90%)

One year allogeneic survival

One-year mortality/Allogeneic transplants

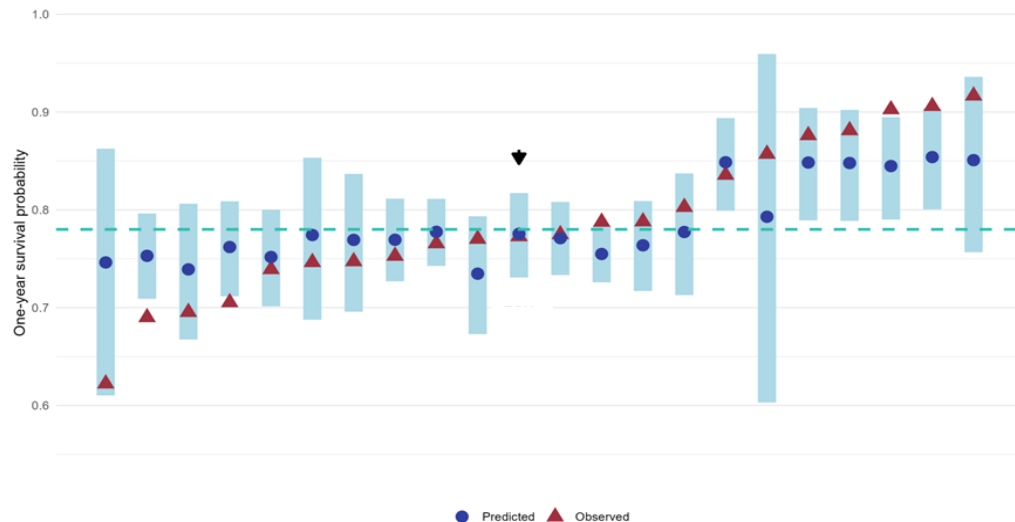
Dashed = 95% Control limits; Dotted = 99.8% Control limits



Performance

- Clearly better than expected
- Better than expected
- Same as expected
- Worse than expected
- Clearly worse than expected

Center-Specific Predicted vs Observed Survival with 95% Confidence Intervals

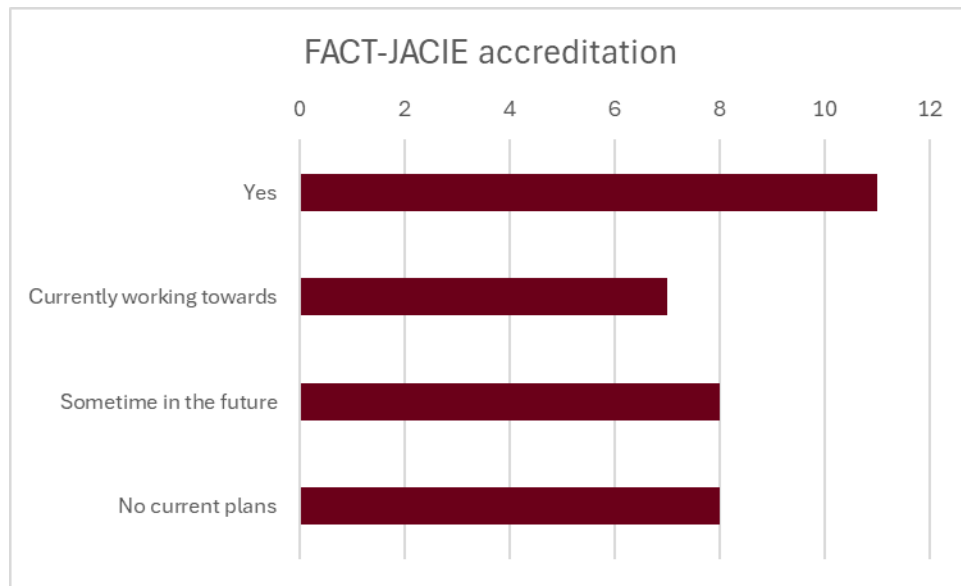


One year survival adjusted for patient sex, patient age, year, disease risk index (DRI), donor sex, donor type, Karnofsky, CMV status, prior autologous transplant and time from diagnosis to transplant

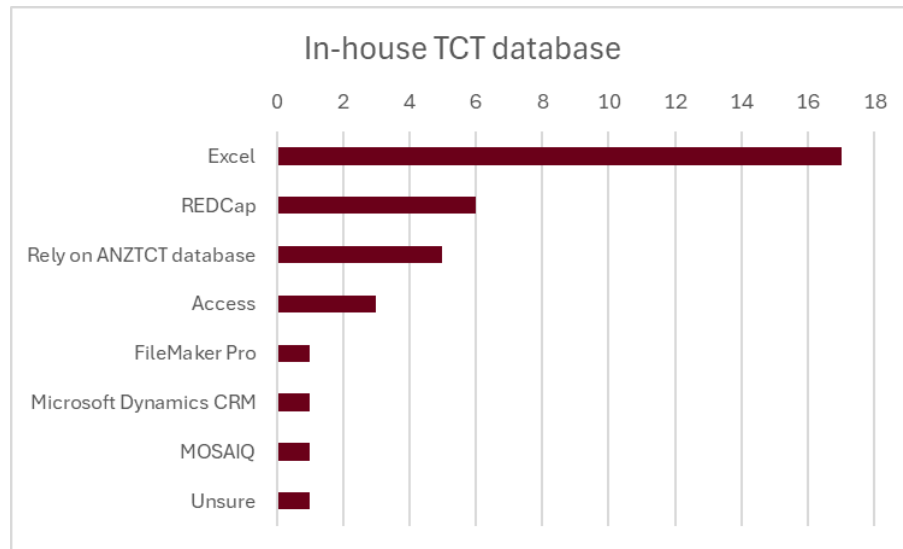
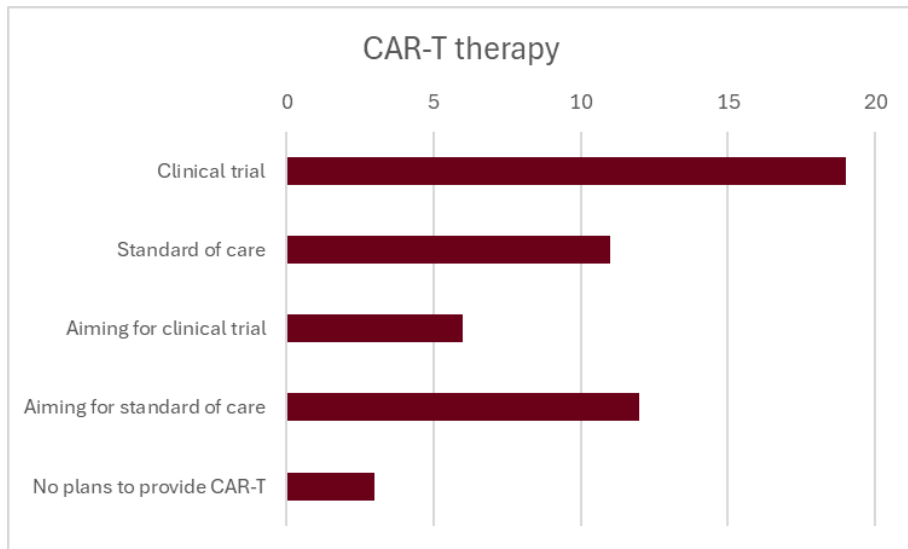
Heads of units survey

34/45 sites responded

- FACT-JACIE
- CAR-T
- EMR
- REDCap
- Local TCT data



Heads of units survey - results



IT infrastructure upgrade

Security upgrade

- MFA and Single Sign On via Microsoft ENTRA ID
- Penetration testing
- Working towards ISO 27001 certification

Registry platform

- Collate data from existing sources (ASTRO, REDCap, CIBMTR dbtc)
- Dashboard to support data management and data access
- Include additional data eg TBI, HLA, disease detail
- Linkage capability, secure research environment
- Longer term: ingestion from EMR

Thank you!

- ANZTCT Registry team
- Our data contributors from 50 hospitals around Australia and New Zealand
- Funding from Australian state and federal governments
- Pharma support for the cell therapy data collection
- Stem Cell Donors Australia for administering our business with the Commonwealth
- The Arrow Foundation for supporting the registry since 1992
- Our TCT patients – more than 50,000 so far!



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