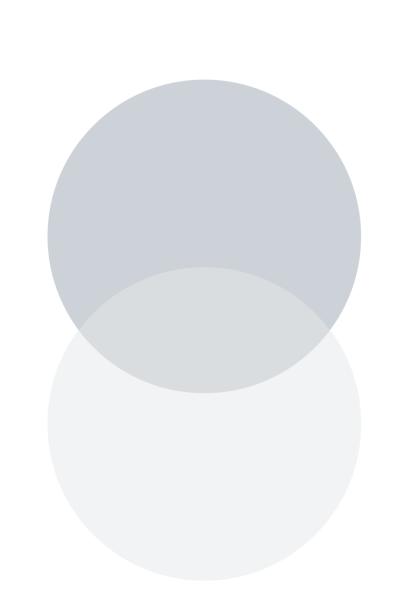
Viable CD34

History in the making?

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The Royal College of Pathologists of Australasia Quality Assurance Programs



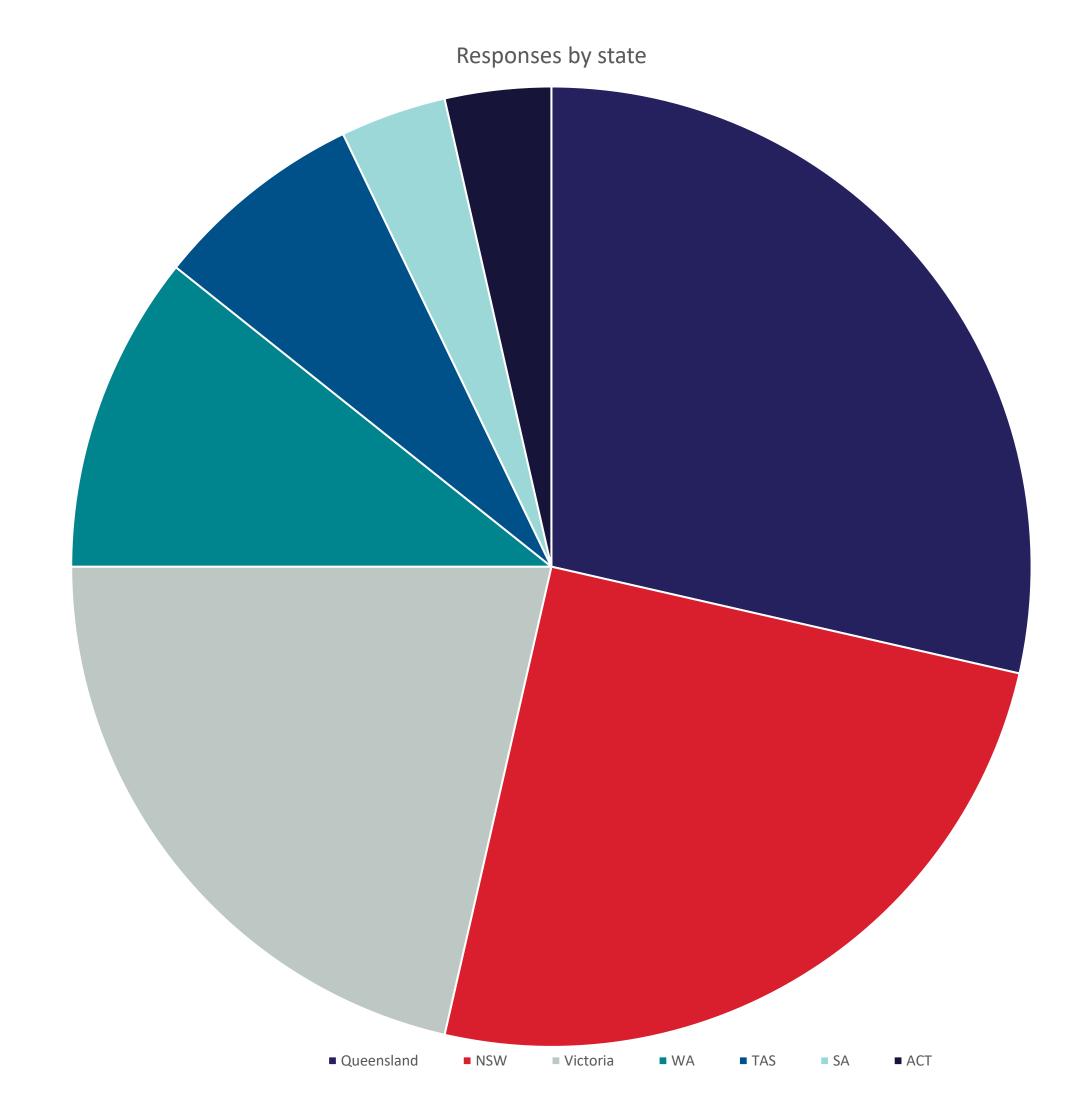
The beginnings

- Expressions of interest going back to 2009/2010
- Program development started in 2016
- More active progression between 2017-2019
- Eureka! Successful grant application by Professor Ma in 2021
- With co-investigators Dr Annabella Chang, Dr Scott Ragg and Dr Annette Trickett
- EOI sent August 2022 to labs currently enrolled in CD34 program
- Program development begins in 2023



Expression of Interest for Viable CD34 Feasibility study

- 28 responses received across all states
- When asked how many CD34 tests performed on cryopreserved samples
 - Ranging from 2-3 per month
 - Up to 50-100
 - Median around 10-25 per month





Methodology details from EOI

Thaw: all 37 – 40 degrees (except 1 at RT)

Diluent type:
Dextran/DAS/PBS/
Saline/with or
without
glucose/protein

Evenly split between IVD and in house enumeration/stain kits

All incubating at room temperature

Incubations times: 10 or 15 or 20 mins Evenly distributed between lyse and No lyse

Lyse reagents: various including as supplied in kit, most common was NH4Cl

No wash, no fixatives

Flow cytometer, same as current CD34 program

Only 1 specified Dual platform, 1 doing both

Even split between True ISHAGE and Modified ISHAGE Some testing for CD3, fewer also testing for CFU-GM



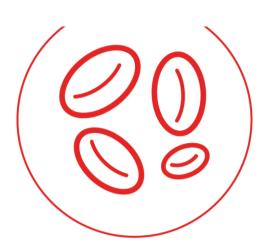
Whats next?

Program will be available to AU labs only

Dry ice shipments – we will check your storage and shipment delivery address Expect 1 delivery with samples for the year

Specific date for you to test the samples in each round

Waiting on ethics approval



We will let you know once the program is ready for enrolment

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Viable CD34 available in 2025

Description: Proficiency assessment of viable CD34 cells.

Frequency (No of surveys/year): 3

Cases/samples per survey: 1

Sample Type: Cryopreserved HPC

Sample volume: 0.5mL

Schedule: April, August, November

Measurand/Test: CD3, Total and viable CD45, CD3, CD34

Storage and Handling: Upon receipt store in liquid nitrogen

Dangerous Goods (UN1845) This survey material will be packed in compliance with IATA PI.954 for Dry Ice, UN 1845

Additional Comments: Samples are dispatched on dry Ice.
Participants will need to store samples in liquid nitrogen. Restricted to Australia only. 3 surveys per year (2 surveys with 1 sample, 1 survey with dot plot analysis)

