

## Stability Study

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- CCNSW Biobank presently holds 20, 000 blood samples from individuals for research purposes.
- Our future plans include blood collection from 140, 000 45 & Up Study participants - making the CCNSW Biobank one of the 10 largest in the world.
  - There is some non-compliance for blood collection protocols. We do not know what effect protocol non-compliance will have on biomarkers.
  - We need to measure any potential effects of protocol non-compliance on our blood samples to ensure their integrity for future research.

### The Plan

**Aim:** Examine the effect of variations in temperature and time between blood collection and blood fractionation on biomarkers

**How:** Collect blood samples from 100 participants from CCNSW head office

**Measure:** Changes in levels of biomarkers in 4 tube types over time and at different temperatures

- Send aliquots for testing to partnering organisations



**Biomarker validation studies are critical to ensure the confident use of data for future research initiatives**