

STAR: Study of Tsunami Aftermath & Recovery



Biomarker Update

Measure impacts of stresses of exposure to **2004 Indian Ocean tsunami**

Baseline: pre-tsunami; **Follow-ups:** 2005, 06, 07, 08, 09, 15, 20, (26); Enhanced bio/cog (subsample): 17, 24

Past

Post-tsunami waves:

- Anthropometry: (Height, weight, waist, hip), BP, Hb
- DBS (CRP)
- Cognition (Raven, word recall)

2017 sub-sample added

- Point of care (PoC): Total, HDL cholesterol, CRP, HbA1C
- Hair (cortisol)
- Body composition
- Cognition (IMMSE, Exec fn)

Present

- PoC: HbA1c, Hb
- Lab: Total and HDL Chol, hsCRP, CBC, CMV, IL-6, FSH, cys-C, creatinine, thyroid (FT3)
- Anthropometry, body composition, BP
- Memory: olfactory, explicit, word/picture recalls
- Cog: Indo MMSE, Exec fn, Ravens, num series, MCog

Future (*proposed*)

- DBS: CRP, mRNA (immune fn inflammation; ChaiBio), store
- Dried plasma spots: store
- Hair: cortisol
- PoC: HbA1c, Hb
- Anthropometry, body comp, BP
- Memory: olfactory, explicit
- Cog: IMMSE, exec fn, Ravens, lang fluency, num series, MCog

*Elizabeth Frankenberg, Ralph Lawton, Cecep Sumantri, Duncan Thomas
Steve Cole, Eileen Crimmins, Teresa Seeman, Margaret Sheridan*