

STAR: Study of Tsunami Aftermath & Recovery



Biomarker Update

Measure impacts of 2004 Indian Ocean tsunami

Baseline: pre-tsunami; **Follow-ups:** 2005, 06, 07, 08, 09, 15, 20; Extend bio/cog (subsample): 2017, 2023

Past

Post-tsunami waves:

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

2017 sub-sample added

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

Present: Biomarkers

- Anthropometry, body composition, BP
- Point of Care: Total, HDL chol, CRP, HbA1c, Hb
- Hair: Cortisol
- Lab: LDL, CMV, CBC, IL-6, creatinine, thyroid (FT3)
- DBS (stored)

Present: Cognitives

- Executive function
- Declarative memory, behavioral inhibition, implicit learning, reward-seeking (Tablet-based)
- Memory (olfactory, word recall, stories)
- Ravens, number series
- Indonesian MMSE, MCog

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