

## **Objectives of Study**

 To determine the most suitable method of data collection for the HBSS that would provide high quality data & good response rates

# Methodology

#### Methods

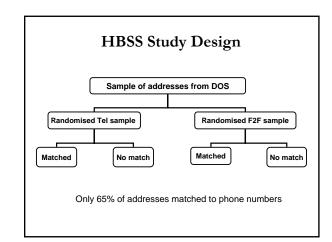
- \* Two modes of data collection
  - Face-to-face interviews
  - Telephone interviews
- \* Identical questionnaires for All
- \* Language: English, Mandarin & Malay

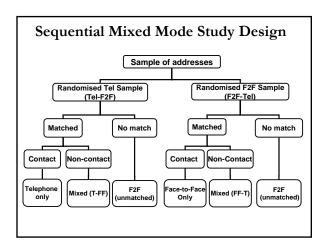
### **HBSS** Questionnaire

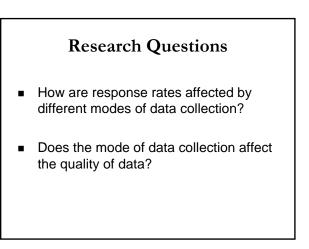
- General health
- Mental health
- Physical activity
- Nutrition
- Smoking
- Obesity
- STI/HIV
- Alcohol
- Demographics
- Health screening behaviours
  - hypertension
  - diabetes
  - cholesterol
    breast cancer
  - cervical cancer
  - colorectal cancer
  - oral health
- Osteoporosis
- Health service utilisation

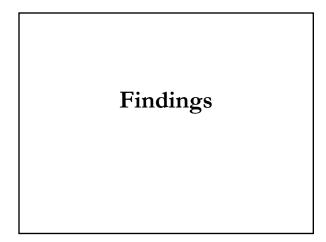
### Sampling

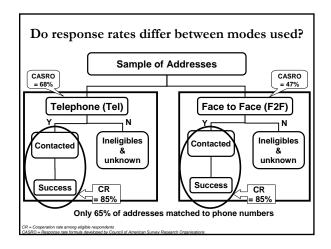
- Multi-stage stratified probability sample design
- Sampling frame : National Database of Dwellings from Dept of Statistics
- Issued sample : 3360 household addresses
- Randomise all addresses to modes (F2F or Tel)
- All addresses were matched to phone numbers by Yellow Pages
- All the sampled addresses were attempted, no replacement was allowed

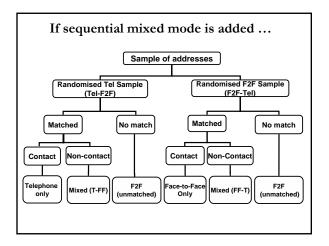


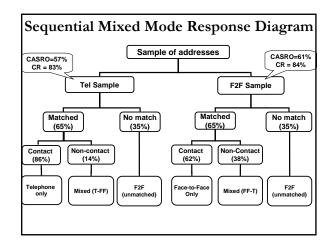






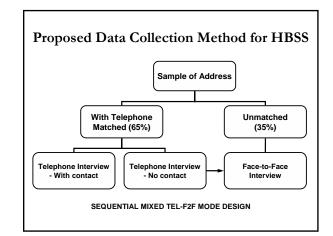






#### Findings on Effects of Mode of Collection

- Sequential mixed mode is necessary
  - Better coverage & reasonable response rate
  - Only slight effects on response rate
  - Cooperation rate remains at about 84% regardless of mode of collection
- Advantageous of using Tel as main mode
  - Tel interviews are cheaper & quicker than F2F
  - Ease of reaching out to difficult addresses
  - Better quality control & supervision



## **Research Question #2**

Does the mode of data collection affect the quality of data?

#### Effects of Mixed Mode on Data Quality

- Introduce measurement error
- Mode effects are likely to vary by type of question
  - Demographics factual, self-selection
  - Behavioural / knowledge questions preformed answer, social desirability
- Compare question responses for matched samples

#### Effects of Mixed Mode on Data Quality

- No association between response & mode for most questions.
- Calculation of 95% confidence interval

   no significance difference for almost all the point
   estimates
- More powerful statistical techniques will be used to adjust for mode effect when the HBSS dataset is available

# In conclusion...

#### Mode of Data Collection for HBSS: Mixed mode – Tel supplemented by F2F

- Good population coverage
- Reasonable response rate
- Lower cost compared to F2F-Tel
- Easier to reach population through phone
- Better quality control for interview process
- Little difference in the mode effect bet Tel & F2F
- Need to continue to monitor mode effect