CONCEPT DEVELOPMENT & IMPLEMENTATION

ATLANTA WIHS

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“I’ve got a research idea for WIHS. What do I do next?”

- Start with Atlanta WIHS website: http://www.wihs.emory.edu/science/new_concept.html
- Get in touch with Atlanta WIHS PD, Ms. Sara Sanford
- Schedule consultation meetings with appropriate WIHS staff
- **Develop a concept sheet (CS) & submit for Atlanta WIHS review**
  - Schedule concept implementation meeting after your CS is approved by national WIHS
- Don’t forget to submit your abstracts, manuscripts, datasets, publications to WIHS!
1. Start with a research topic/question of interest
2. Be prepared to spend some time learning WIHS
3. Find the right forms
   • There are a lot of options
   • Must review the available forms
4. Develop analyzable research question and analytic plan
   • Define derived variables
   • Similar concepts can be on different forms
   • Longitudinal data can be summarized

WIHS Concept Development staff can help but YOU are the content expert
Overview of WIHS Data

• “How do I make sense of WIHS data?”
  • Currently available (data freeze): 1995 – 2014, visits 1 – 41, 10 sites
  • Four recruitment waves: I (v1,2), II (v15,16), III (v33-37), IV (v39-42)
  • Interview, exam, and lab forms:
    • Forms/questions/form availability change over time
    • Baseline (ever) v. follow-up (past 6 months) forms
  • 308 forms with 16,397 variables; 14 summary files with 680 variables!!!
  • Each form has a separate dataset & codebook!!!
Overview of WIHS Data

WIHS in Numbers

• “Where did my sample go?”
  - 81,891 visits, 4,856 women
  - Median 14 visits (IQR 24)
  - 2,426 “active” women (≥1 visit since visit 39)

• Negative
  - 21,606 visits, 1264 women
  - Median 17 visits (IQR 24)

• Positive
  - 59,652 visits, 3567 women
  - Median 13 visits (IQR 24)

• Converters
  - 629 visits, 24 women
  - Median 26 visits (IQR 26)

• Converters at death
  - 4 visits, 1 woman
Overview of WIHS Data

WIHS in Numbers

- “I needed a certain baseline variable, where did my sample go?”
  - Wave 1: 1994-1995
    - 55,900 visits, 2623 women
    - Median visits 21 (IQR 32)
    - 798 “active” women
  - Wave 2: visits 15-16
    - 22,239 visits, 1143 women
    - Median visits 23 (IQR 12)
    - 603 “active” women
- Wave 3: visits 33-37
  - 2,380 visits, 371 women
  - Median visits 7 (IQR 3)
  - 306 “active” women
- Wave 4: visits 39-42
  - 1,372 visits, 719 women
  - Median visits 2 (IQR 2)
  - 719 “active” women
Overview of WIHS Data

• “How do I find WIHS variables and forms?”
  • Forms:  https://statepiaps.jhsph.edu/wihs/admin/visit-forms-moo/visit-forms-moo2.html
  • Overview of WIHS forms and data availability:
  • Codebooks:  https://statepiaps.jhsph.edu/wihs/admin/codebooks/codebooks.html
  • Variables overview:  https://statepiaps.jhsph.edu/wihs/admin/variable-index-files/variable-index-files.htm

N.B. Please, copy the links in your browser. In order to open the Internet links, you’ll need to have a login and password for the national WIHS admin website. For instructions on how to receive access to WIHS admin website, please, see section “Concept Development and Submission” on Atlanta WIHS website.
WIHS Data for Concept Development

• “How do I use WIHS data for concept development?”
  • Request a consultation on data availability
  • Search WIHS published manuscripts as well as current and approved concepts for overlap: https://statepiaps.jhsph.edu/wihs/admin/concept-sheet-info/concept-sheet-info.htm
  • Request statistics necessary for concept development
  • Include a list of key WIHS variables in your CS
“How do I make an effective data request?”

- Start with a “shopping list” of variables you are interested in
- Define the summary variables you’ll need for your analyses
- Study the forms and codebooks, select specific variables
- Take the time to fill out data request form; be specific!

<table>
<thead>
<tr>
<th>#</th>
<th>Variable name as used in CS</th>
<th>Baseline (Yes/No)</th>
<th>Follow-up (Yes/No)</th>
<th>Related WIHS forms</th>
<th>Variable name from WIHS codebooks</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Diabetes</td>
<td>Yes</td>
<td>No</td>
<td>F20</td>
<td>MCBSNR</td>
</tr>
<tr>
<td>2</td>
<td>STDs</td>
<td>No</td>
<td>Yes</td>
<td>F23</td>
<td>GONOOB/VSCYOB</td>
</tr>
</tbody>
</table>
Data Analyses Implementation Overview

• “How do you use WIHS data to answer my research question?”

1. All forms/variables merged together
   • Usually is the whole WIHS cohort

2. Implement eligibility criteria
   • Subset the data to those women/visits that qualify for concept

3. Create analytic dataset
   • Derived variables
   • Deduplicate
   • Restructure data if necessary

4. Concept analysis
Cautions

- Duplicates common
- Missing data
- Inconsistency in answers between visit
- Accepted concept not the same thing as an analyzable concept
- Unit of analysis: women or women/visit