

Multiple Overlapping Waves – Challenges in Supporting Blaise Instruments Simultaneously for Four Waves of Data Collections

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Outline

- Introduction
- Overview of Work, Family and Health Study
- Challenges
- New and existing applications
- Conclusion

Introduction

- Longitudinal studies at RTI International



- Work, Family and Health Study (WFHS)

Wave 1 (Baseline: 2009 - 2011)

Wave 2 (6 months)

Wave 3 (12 months)

Wave 4 (18 months: 2011 - 2012)



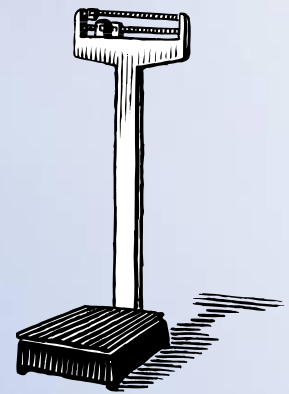
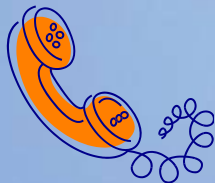
work, family & health study

Overview of Work, Family and Health Study

- Participating research teams:
 - Penn State University
 - Harvard University
 - University of Minnesota
 - Portland State University
 - Michigan State University
 - Kaiser Permanente's Center for Health Research
 - RTI International (Data Coordinating Center)
- Studied the impact of workplace programs and policies and how they affect employees' work, health and family members' health and well-being.

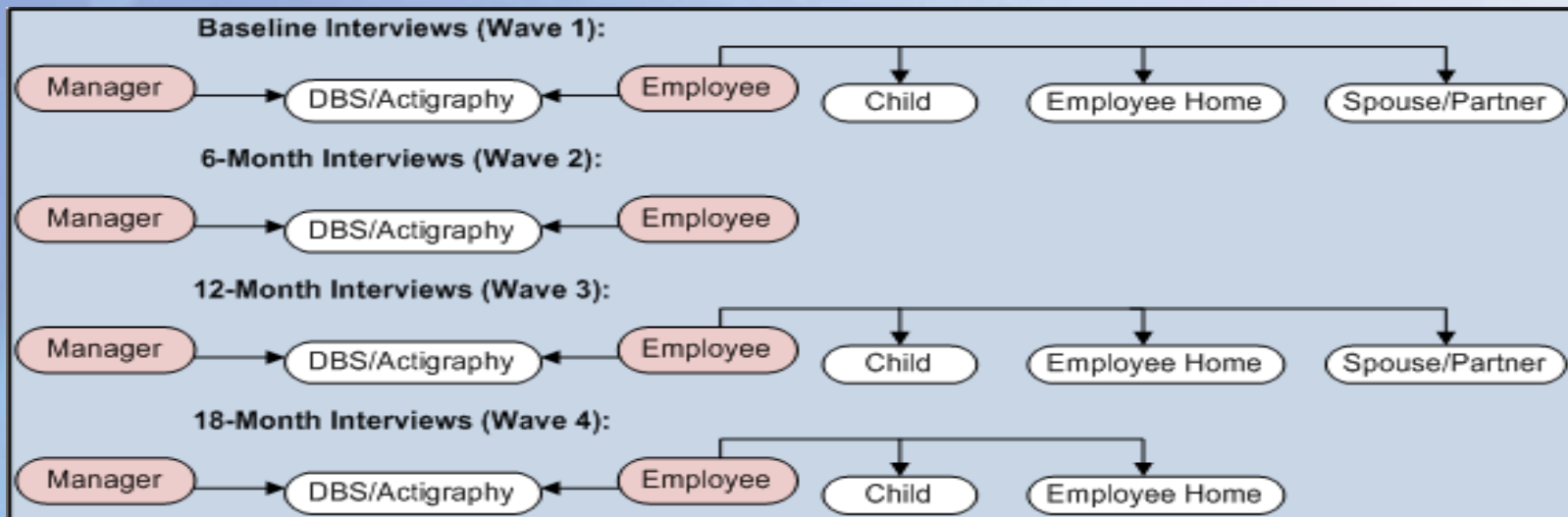
Data Collection Components

- Computer-assisted interviews in person and by phone
- Basic health measures
- DBS (dried blood spots)
- Actigraphy (measuring sleep quality via an actigraphy wrist watch)
- Saliva collection
- Telephone-based Daily Diary survey
- Qualitative interviews



Computer Assisted Interviews on Laptops

- 8 worksite interviews: “Employee” and “Manager”
- 4 worksite interviews: “DBS/Actigraphy”
- 6 home interviews: “Employee Home” and “Child”
- 2 telephone interviews: “Spouse/Partner”



Computer Assisted Telephone Interviews

- Verification interview with employees and managers to check the quality of interviewer work
- Attriter interview with employees and managers
 - Attriters – respondents who leave the workplace as of the 6, 12, or 18 month visit
 - Blaise instrument – one for up to three follow-up interviews



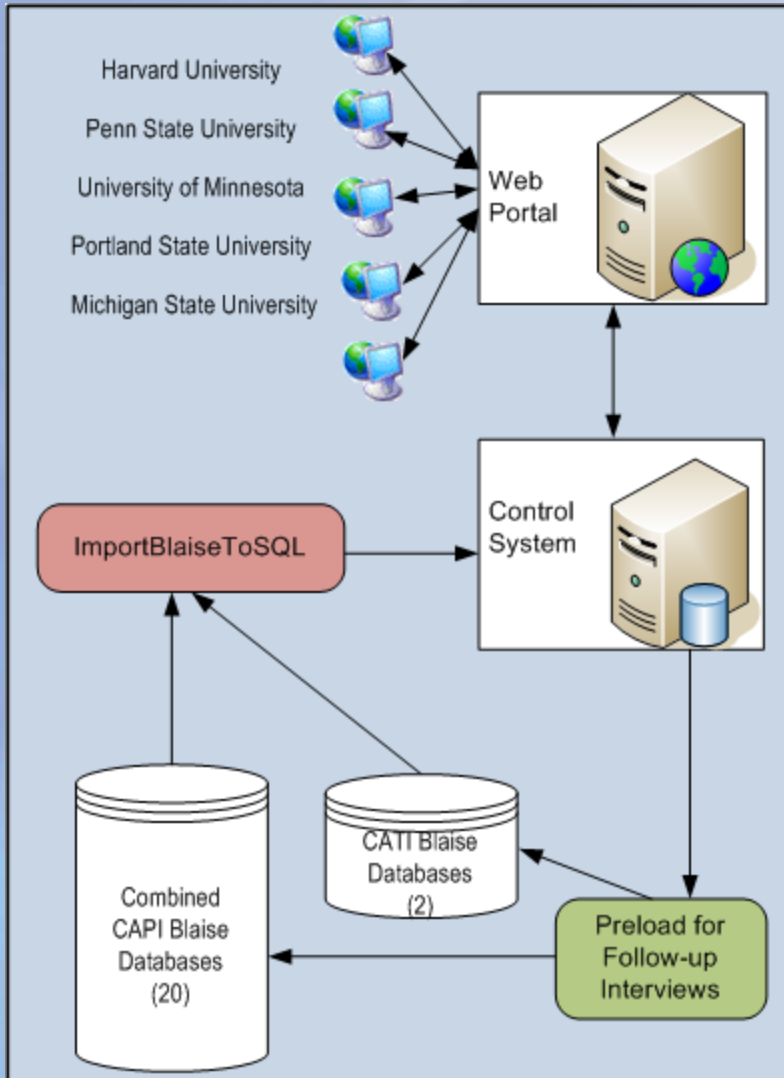
Challenges

- RTI Systems
 - Integrated Field Management System (IFMS)
 - General Survey Control System
 - Custom Reports
 - Interview Status reports split and/or combined
 - Health Measures, DBS, Daily Diary eligibility reports

- Web Portal
 - File and data exchange
 - Web pages for Data Entry



Blaise Data in SQL Server Tables



- Data needed for:
 - Status updates for reports
 - Data Entry
 - Follow-up interviews
- ImportBlaise2SQL application
 - Configuration table
 - Temporary tables with Blaise data
 - Stored procedure to set statuses
- Variables processed - 851 from 22 Blaise databases

Modifications to Integrated Field Management System

- More than 100 reports
 - Dynamically create a list of reports for a selected wave
- Summarized status report created by .Net program
 - New columns added when collection started for a new worksite
 - Expected final size of report – 58 rows x 243 columns

	A	B	C	ER	ES	ET	EU	EV	EW	EX	EY
1	03/31/2012	Overall		7.2_A		7.2_B		8.2_A		8.2_B	
2		#	%	#	%	#	%	#	%	#	%
10	Manager Completes	520	88.44%	7	100.00%	2	66.67%	3	100.00%	7	100.00%
11	Employee	5157		45		47		34		50	
14	Pending other	188		0		0		0		0	
15	Not eligible	326		2		4		3		2	
16	Final refusal	343	7.10%	0	0.00%	4	9.30%	1	3.23%	2	4.17%
17	Final other	38		0		1		0		0	
18	Employee Completes	4262	88.22%	43	100.00%	38	88.37%	30	96.77%	46	95.83%
26	DBS Completes	4482	96.41%	48	94.12%	40	100.00%	31	96.88%	53	100.00%
34	Actigraphy Completes	4036	86.81%	41	80.39%	36	90.00%	29	90.63%	48	90.57%
42	Spouse Completes	538	47.91%	5	83.33%	6	66.67%	3	60.00%	4	40.00%
50	Child Completes	481	64.56%	10	76.92%	6	60.00%	2	28.57%	13	81.25%
58	Emp Home Complete:	520	69.71%	10	76.92%	6	75.00%	2	28.57%	16	94.12%

Modifications to Control System



- 18 Custom reports
 - .Net application to call report URL to create an html file to post on the web portal
- Locator database
 - Contact information for the RTI Tracing Operations System
 - Updated information for CATI Attriter interviews

Public Web Portal

The screenshot shows the 'File Transfer - Minnesota' web portal. The navigation bar includes 'Home' and 'File Transfer'. Below the title, there are icons for Home, Go up, Refresh, Upload, and Copy. An 'Address:' field is present, followed by a 'Create new folder:' input field with a green arrow icon and a red 'X' icon. The main content area is divided into two columns. The left column shows a tree view under '~Home' with folders: From_Minnesota, Reports, Rosters, and To_Minnesota. The right column is a table with columns for checkboxes and file names: Name, From_Minnesota, Reports, Rosters, and To_Minnesota.

The screenshot shows the 'Data Entry - DBS' web portal. The navigation bar includes 'Home', 'Data Entry', 'File Transfer', and 'Reports'. Below the title, there are links for 'DBS' and 'Actiwatch'. A message says 'Please specify date range in MM/DD/YYYY format.' Below this, there are input fields for 'From: 12/1/2011' and 'to: 01/01/2012', and a 'Get Data' button. At the bottom, there is a table with the following columns: Sample ID, Date Sample taken, FI Blood Spots, # of punches, Full spots (> 80%), and Date Processed.

Sample ID	Date Sample taken	FI Blood Spots	# of punches	Full spots (> 80%)	Date Processed
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- File and data exchange
 - User authentication
 - Roles and permissions
 - Reports for a specific user

- Data Entry
 - Dried blood spots results
 - Status of Daily Diary and Saliva collections
 - Update Control System Reports

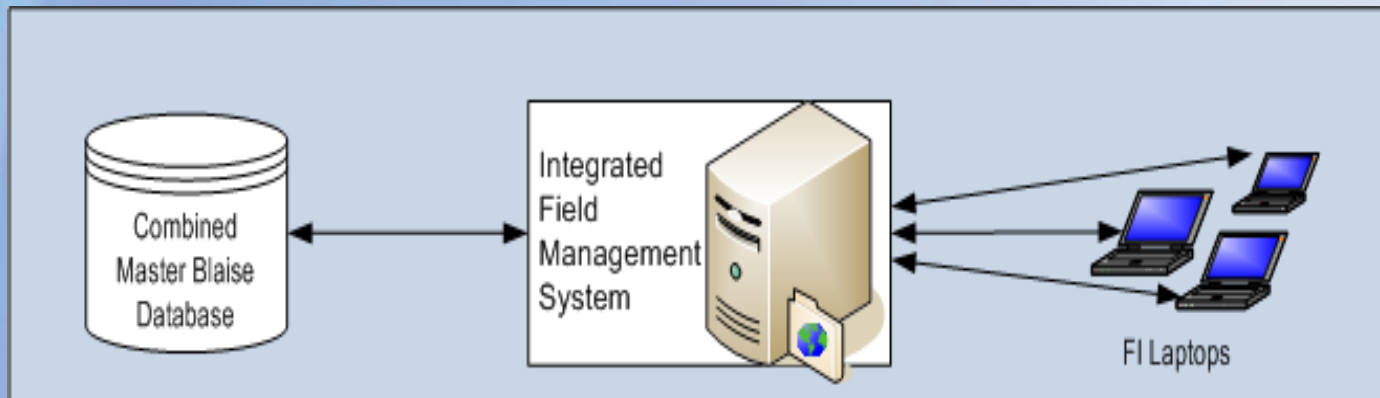
Blaise Instruments – Development

- Questionnaire Specification Database (QSD)
 - Simple creation of specs for follow-up interviews
 - Manageable tracking of changes
 - Quick development of Blaise instruments
 - Synchronized specs and Blaise code

The screenshot displays the 'Edit Questionnaire' application window. At the top, the 'Instrument' field is set to 'Employee 12-Months' and the 'Module' field is 'RD_12--Section 1: Respondent Demographics (12 Months)'. Action buttons include 'Add', 'Delete', 'Move', 'Module Flow', 'Print Specs', and 'Exit'. Below this, the 'Question' field is 'RD VERY1' with a 'Search' button. A row of buttons allows for language and logic editing: 'English', 'Spanish', 'Edit Skip Logic', 'Edit and Translate Question', 'Edit and Translate Type', and 'Edit and Translate Fills'. The 'English Text' section shows the question: 'First, I would like to double check some information. Your name is ^NAME. Is this correct?' followed by the interviewer instruction: 'INTERVIEWER: VERIFY SPELLING OF RESPONDENT'S NAME'. The 'Spanish Text' section shows the translated question: 'Primero, me gustaría revisar la información que tengo. Su nombre es ^NAME. ¿Es correcto?' and the instruction: 'ENTREVISTADOR: VERIFIQUE CÓMO SE DELETREA EL NOMBRE DEL PARTICIPANTE'. The 'Question Type' is 'TyesnoC'. At the bottom, there are 'Save' and 'Undo' buttons. The status bar at the very bottom shows 'Record: 1 of 59', a 'Filtered' indicator, and a search field.

Blaise Instruments – Support

- Follow-up interviews on field interviewer laptops
 - Remote installation of 14 Blaise instruments
 - Verification of instrument version
- Upgrade of Blaise Instrument
 - Master database at RTI
 - Database on FI laptops
 - Case database in transfer



Conclusion

- Status of the Work, Family and Health Study
 - Wave 1 and Wave 2 completed
 - More than 24,000 cases created to conduct interviews
 - Almost 20,000 interviews completed
 - Wave 3 and Wave 4 are in progress
- New, modified, and existing applications help make data collection successful!



Thank You!

Questions?

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