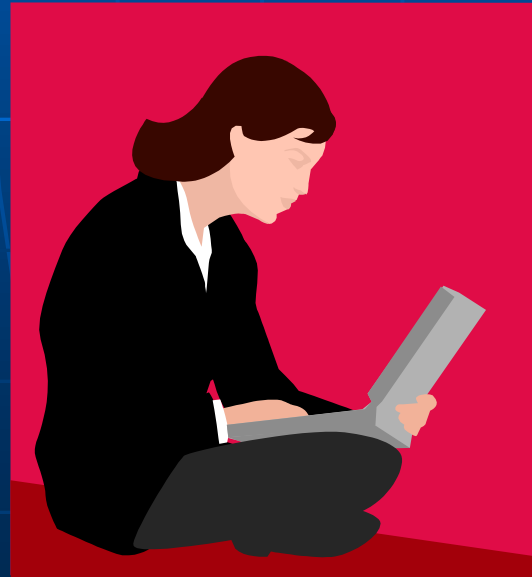
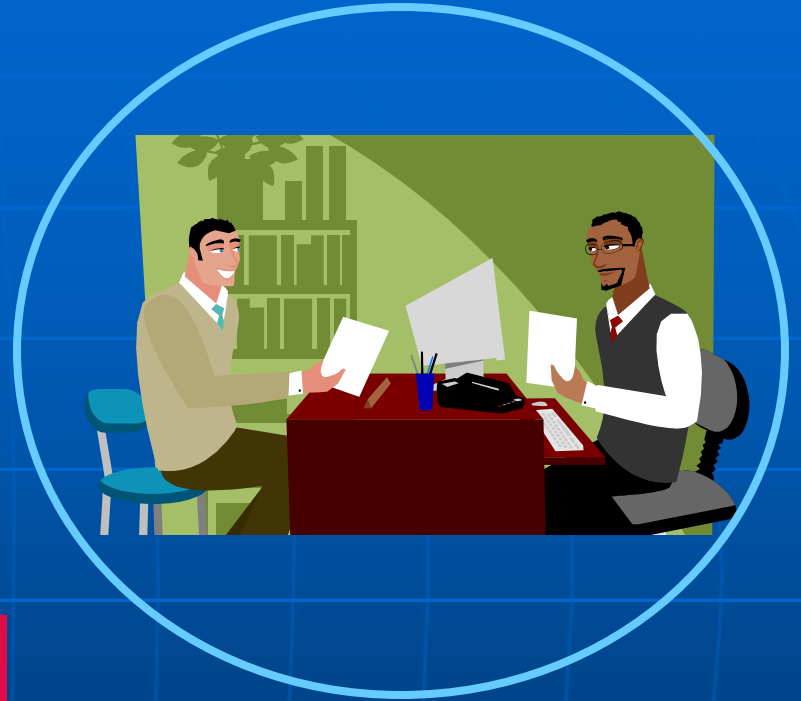


# **Distributed CAPI Interviewing with Blaise IS for the Web for the Adolescent Trials Network**

Rick Mitchell  
Westat

FEDCASIC – March 15, 2006

# Types of ACASIs/CAPIs



# A Different Operations Model

- “Without change, something sleeps inside us, and seldom awakens. The sleeper must awaken.”

-Frank Herbert

1. Shift from Blaise to Blaise IS
2. Shift from “household” model to “Web CAPI” model

# A Different Operations Model

## Laptops



## PCs / Web



# Introduction

- Welcome Blaise IS!
- ATN project - shift from “household” operations model to “Web CAPI” model
- Optimal study for this model
  - New ATN study consisted of only 5 sites
  - 2 users per site (10 total possible users)
  - Study took place in the clinic
  - Coordinator “at the helm”
  - Very reasonable development timeline
  - Limited “stress” on the system

# Topics to be Discussed

- What is the ATN?
- The ATN Survey
- Web CAPI - New Site Based Operations Model
- Accessing the CAPI via the Web
  - A Peek at the Web Survey
  - Feedback Report
  - Development Issues
  - Getting Started
  - Help Desk Support
- Conclusions

# What is the ATN?



- Adolescent Trials Network (ATN)
- HIV Treatment & Prevention
- Therapeutic & behavioral studies
- 15+ Clinical sites throughout the US
- “Adolescents” ages 12-24
- 5 sites chosen for CAPI protocol
- 5 previous ACASI projects used Blaise

# The ATN Survey



- Very long instrument (about 1 hour)
- Longitudinal (3 month follow-up visits)
- Questions covering alcohol, drugs, sex, etc.
- Interview conducted in the clinic
- Interviewer asks, then answers questions
- Need immediate "Feedback Report" after survey is completed



# The Web CAPI, A New Site Based Operations Model

- Luxury of own PC within office setting
- Different from community based model
- Benefits of Web CAPI to the ATN
  - Laptop Logistics
  - Data Transmission
  - Platform Updates

# Accessing the CAPI via the Web

- CAPI – 100 instruments in the field
- Web CAPI – 100 users for 1 instrument

## Blaise IS Requirements

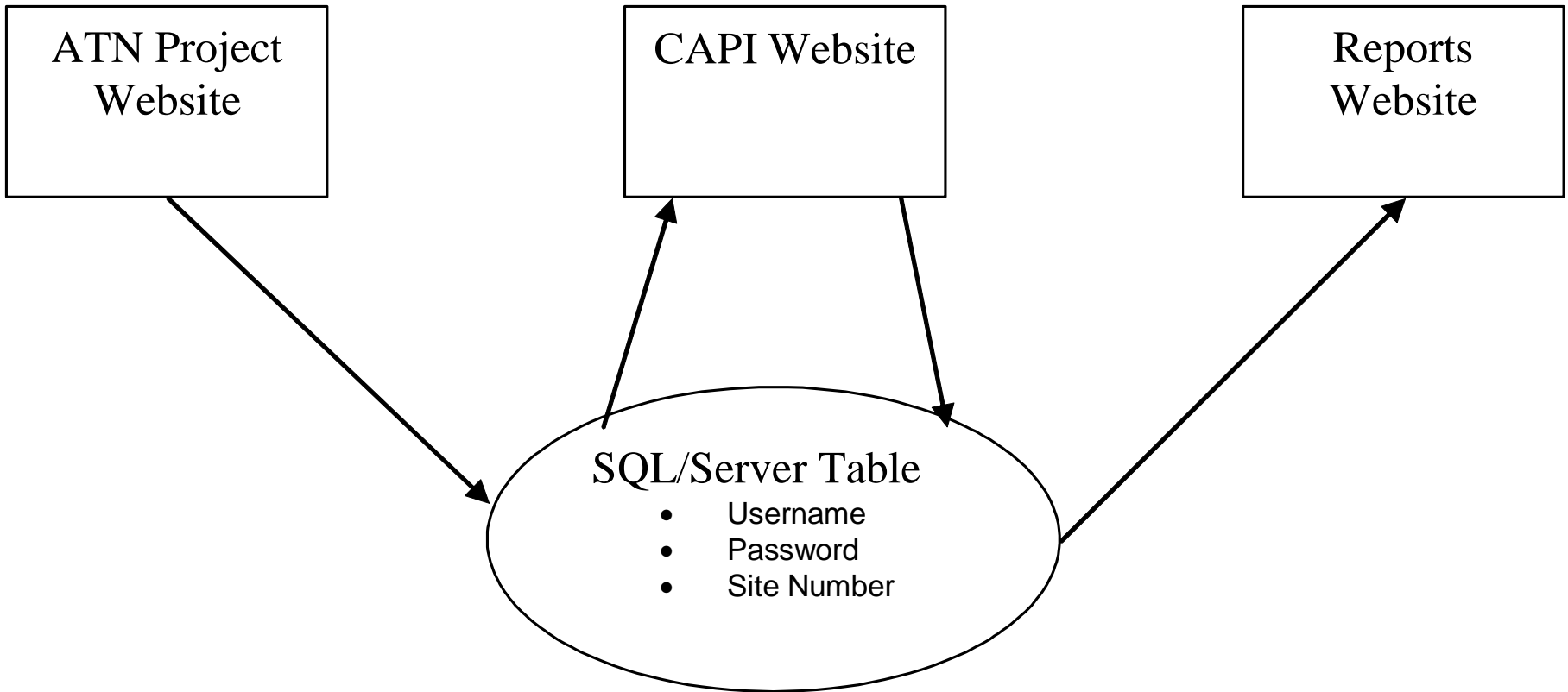
- Site needs a PC
- Site needs reliable internet access
- Site needs common, “up to date” browser

# Accessing the CAPI via the Web

- Enter CAPI through project website (ASP)
- CAPI/website access (SQL/Server database)
  - Website “passes” username
  - Website “passes” site number
  - User enters SID number
- Very basic CAPI interface
  - Same “look and feel” of project website
  - Limited functionality (keep it simple)
  - Main goal – collect quality survey data

# Accessing the CAPI via the Web

## Authenticating a User Across Websites



# A Peek at the Web Survey

## ■ Accessing the CAPI via the ATN Website

Join

Purpose

Collaboration

Publications

Youth

Acronyms

ATN home

My Profile

Log Off

Contact Us: [Webmaster](#)



Welcome to the Adolescent Trials Network (ATN)  
Collaborators/Network Members

[Members Log In](#)

[Remote Data Capture Link](#)

[Directory](#) [Organization Charts](#) [Supplies](#) [Protocols and Forms](#) [Links](#)

[Data Reports](#) [Approved Policies](#) [ATN News](#) [PACTG/ATN Collaboration](#) [ATN 004 CAPI](#)

### [ATN Protocol Query and Notification System](#)

This system is for all protocol queries including IRB issues, protocol-specific issues, toxicity notification, and subject or study management. Please check FAQs below first for non-toxicity and subject or study management issues. Responses will be sent within 48 hours. Click to begin.

[Protocol Query System](#)

[FAQ](#)

### [ATN Meetings](#)

2006 ATN Network Meetings

March 14-17

[Click here to Register for the  
March 2006  
Network Meeting!!!](#)

# A Peek at the Web Survey


- Accessing a Subject's Survey

ATN - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://www.atn004capidemo.com/ATNCAPI/ATN004ASP/StartATN004.asp> Go

Google Search Popups okay Check AutoLink AutoFill Links



**ADOLESCENT TRIALS NETWORK**  
**for HIV/AIDS Interventions**  
**Prevention and Care for Today's Youth**

Interviewer ID:

Site Code:

Enter SID Number:



Enter SID Number again to verify:

Done Local intranet

# A Peek at the Web Survey

- Multiple Questions/Responses

ATN - Microsoft Internet Explorer

 **ATN 004**  
Progress: 

**ATN**

104 - 113

In your life, which of the following substances have you ever used? (NON-MEDICAL USE ONLY)

|   | 1. Yes                           | 2. No                            | Don't know                       | Refused To Answer                |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Tobacco products (cigarettes, chewing tobacco, cigars, etc.)?   | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| Alcoholic beverages (beer, wine, spirits, etc.)?                | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| Cannabis (marijuana, pot, grass, hash, etc.)?                   | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| Cocaine (coke, crack, etc.)?                                    | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            |
| Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)? | <input type="radio"/>            | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/>            |
| Inhalants (nitrous, glue, petrol, paint thinner, etc.)?         | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            |
| Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)?  | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            |
| Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)?     | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            |
| Opioids (heroin, morphine, methadone, codeine, etc.)?           | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            | <input checked="" type="radio"/> |

# A Peek at the Web Survey

- Skip Patterns and the Progress Bar

ATN - Microsoft Internet Explorer

Blaise

**ATN 004**

Progress:

ATN

165 - 173

Have you ever tried and failed to control, cut down or stop using...

|   | 0. Never                         | 1. Yes, but not in the past 3 months | 2. Yes, in the past 3 months     | Don't know            | Refused To Answer     |
|---|----------------------------------|--------------------------------------|----------------------------------|-----------------------|-----------------------|
| Tobacco products (cigarettes, chewing tobacco, cigars, etc.)?   | <input checked="" type="radio"/> | <input type="radio"/>                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| Alcoholic beverages (beer, wine, spirits, etc.)?                | <input checked="" type="radio"/> | <input type="radio"/>                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| Cannabis (marijuana, pot, grass, hash, etc.)?                   | <input type="radio"/>            | <input type="radio"/>                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)? | <input type="radio"/>            | <input type="radio"/>                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
|   | <input type="radio"/>            | <input type="radio"/>                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
|   | <input type="radio"/>            | <input type="radio"/>                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

Previous Next Save and Exit

Progress Bar



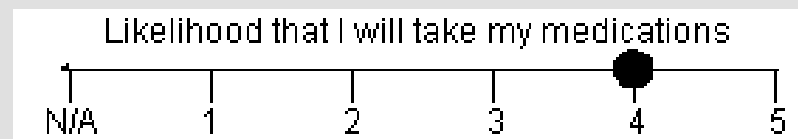
# Feedback Report

- Real-time reporting
- 17 page "Feedback Report"
- Interviewer/interviewee discussion
- Processing of data
  - Extract data from Blaise (hundreds of fields)
  - XML string sent to website SQL/Server database
  - SAS extracts XML string, converts, and processes data for report
  - HTML report created by SAS via project website

# Feedback Report

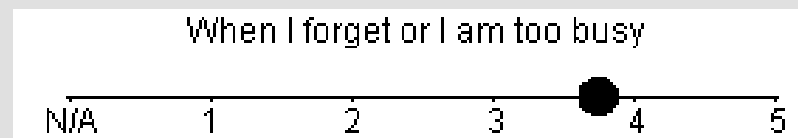
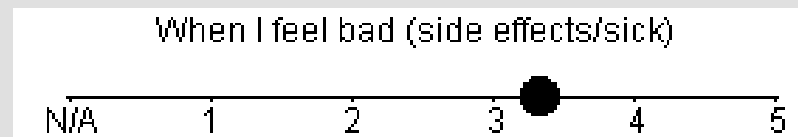
## 3. ATTITUDES ABOUT TAKING CARE OF YOUR HEALTH:

(1=very sure I cannot, 2=pretty sure I cannot, 3=not sure if I can or cannot, 4=pretty sure I can, 5=very sure I can)



## When you might be tempted to miss your medications

(1=not at all, 2=not very tempted, 3=moderately, 4=very, 5=extremely)



# Development Issues

- Very few “development” issues
- Speed – decreased as interview continued  
(this was resolved)
- Stress – no apparent problems
- Multiple releases during development
  - Software is quickly evolving
  - A few “bug” fixes
  - A few enhancements

# Getting Started

- Conducting webcast training session
- Including help desk/study staff in training
- Setting up demo area for practice
- Requiring users to complete practice cases
- Phasing in users by one site at a time

# Help Desk Support



- Support **NO** longer needed:
  - Laptop navigation and functionality
  - Power source
  - Battery replacements
  - Software updates and upgrades
  - Lost Data (e.g. stolen or damaged laptop)

# Help Desk Support

## ■ Support **STILL** needed:

- Survey navigation
- Remembering username and/or password
- Entering wrong ID number
- Trying to access expired ID number



# Help Desk Support



- Support needs that are **NEW**:
  - Pop-up blocker
  - Server down
  - Firewalls at the site
  - Trying to work "offline"
  - Old browser version
  - Non-compatible browser

# Conclusions

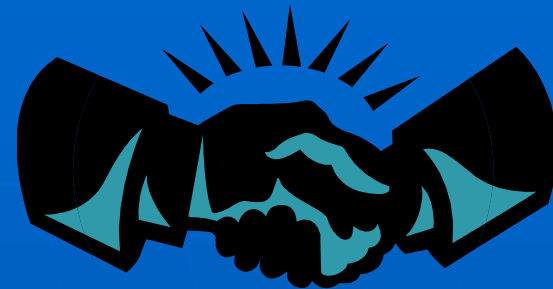
- Web CAPI – different operations model
- Some decreased complexity (laptops)
- Some increased complexity (web)
- Web - full control over data and application
- Interoperability of multiple websites
- Positive feedback from users
- Wealth of knowledge gained from experience



# Conclusions

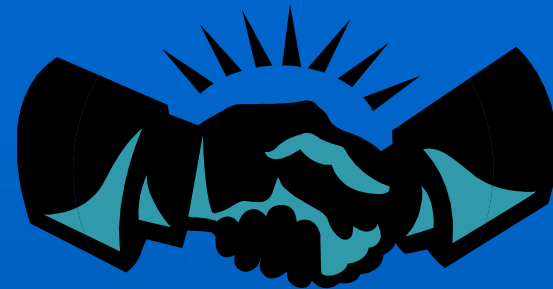
- Blaise IS – Ability to replace multiple instruments used by multiple users with only a single instrument used by multiple users.
- Web CAPI – Ideal for our ATN protocol
- Future CAPIs – Blaise or Blaise IS?
  - Evaluate carefully
  - Determine best operations model

# Acknowledgements



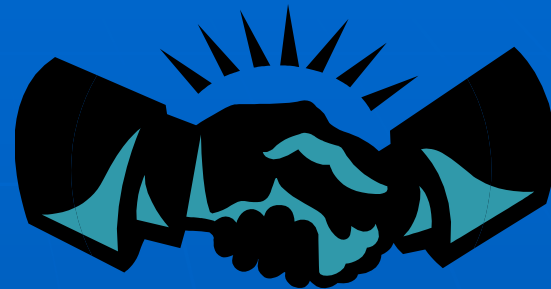
- Thanks to the terrific Blaise IS development team at Westat!
- Blaise® is a registered trademark of Statistics Netherlands.

# Acknowledgements



The Adolescent Medicine Trials Network for HIV/AIDS Interventions (ATN) is funded by grant No. U01 HD HD40474 to the ATN Data and Operations Center from the National Institutes of Health through the National Institute of Child Health and Human Development (A. Rogers, L. Serchuck), with supplemental funding from the National Institutes on Drug Abuse (N. Borek), Mental Health (A. Forsyth, P. Brouwers), and Alcohol Abuse and Alcoholism (K. Bryant).

# Acknowledgements



The ATN 004 study was scientifically reviewed by the ATN's Behavioral Leadership Group. Network scientific and logistical support was provided by the ATN Coordinating Center (C. Wilson, C. Partlow), at University of Alabama at Birmingham. Network operations and analytic support was provided by the ATN Data and Operations Center at Westat, Inc. that is funded by grant No. U01 HD HD40474 (J. Korelitz, B. Driver).

# About the Speaker

**Speaker**            **Rick Mitchell**  
**Senior Systems Analyst**

**Location of  
company**            **Westat**  
**1650 Research Blvd., WB 492**  
**Rockville, MD 20850**

**Telephone**            **(301) 251-4386**  
**Fax**                    **(301) 738-8379**

**E-Mail**                **[RickMitchell@Westat.com](mailto:RickMitchell@Westat.com)**