# Illinois Institute of Technology IPRO 340

#### Improving Information Systems at ACCESS Health Network



## What is ACCESS all about?

#### MISSION

Provide high quality, cost effective, safe, and comprehensive health care in underserved Chicagoland communities

#### VISION

Participate in community life to promote health, well-being and economic development

#### VALUES

Access to care and strives to create opportunities for new and returning patients to obtain services

## Quick Facts about ACCESS

- Nation's largest network of Federally Qualified Health Centers
- Serves approximately 160,000 patients (450,000 annual visits)
- About 1 in 4 of ACCESS patients are uninsured
- About 43% of ACCESS patients are Medicaid beneficiaries
- Ranks in the top 10% for quality among community health centers in the nation

### IPRO 340 and ACCESS

#### Goal of Partnership

Improve information systems in accordance with ACCESS' mission

#### Current Objective

Help ACCESS prepare to adopt new information technology

# Current Project Timeline

Fall 2005	Spring 2006	Summer 2006
Researched Technology Adoption Barriers		
Employee Computer Skill Assessment		
	Employee Computer Skill Training	
	EMR Vendor Assessment	

### Current Project Objectives

Prepare ACCESS employees to adopt new information technology

 Assess ACCESS' Employee Computer Skills
Develop and Test Computer Skills Training Protocol to be rolled out over the summer

Evaluate EMR Vendors

#### Methodology

- Designed skills tests
- Administered tests at 12 health centers
- Assessed 110 ACCESS employees via internet or paper
- Scored tests and gathered data
- Analyzed data

- 12 health centers, 102 individuals assessed
  - Ashland (6)
  - Auburn-Gresham (4)
  - Booker (10)
  - Cabrini (6)
  - Grand Blvd. (1)
  - Humboldt Park (10)

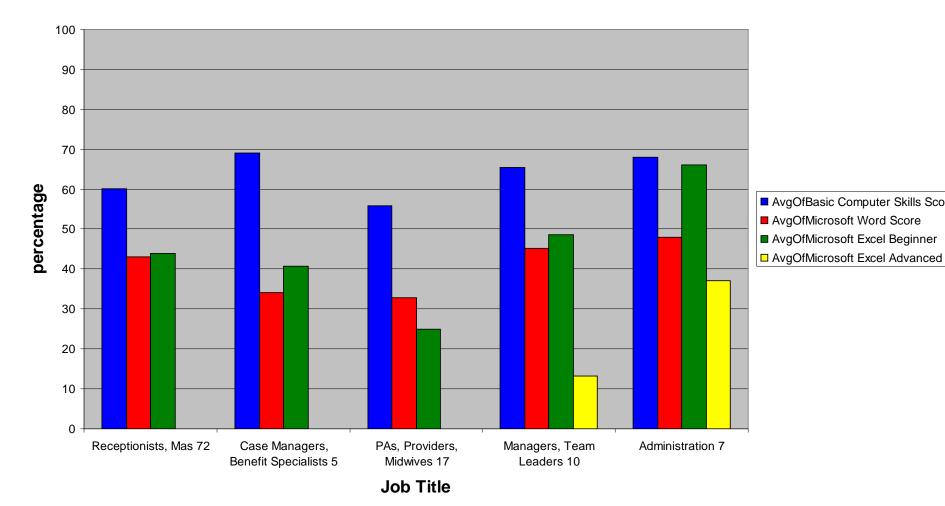
- Pilsen (11)
- Plaza (10)
- San Rafael (5)
- La Villita (29)
- South State (9)
- Taylor (1)

Obstacles encountered during Rollout

- Providers refused to take the tests
- Testing environment varied by health center
- Employees were very busy
- Initial tests needed modifications

# **Results by Job Description**

#### **Overall Average Scores of Employees**



- Analysis of Results
  - Extremely broad range in scores from all positions for all tests
  - Providers scored lower than all job categories for all tests
  - 18% scored ≥ 80% on the Basic Computer Knowledge Test
  - 7% scored  $\geq$  70% on the Microsoft Word Test
  - 7% scored  $\geq$  80% on the Microsoft Excel Test
  - 0% scored  $\geq$  50% on the Microsoft Excel Advanced Test

#### Conclusions

- Effective training needed
- Investing in more computers may make training process easier
- Implement a shift in attitude to increase compliance to training
- Get providers involved in training
- Training program should be flexible to accommodate busy schedules

Methodology

Selected Training Software Vendor
Customguide Software Chosen for Training Pilot

Designed Computer Training Model
Basic Computer Knowledge, Word, and Excel skills

Piloted 3 Training Programs at 6 Health Centers
Pilots varied in amount of support

Analyzed Results of Knowledge Gained from Training

### **Training Pilots**

	Survey	On-site Support	Walk through with Employees
Pilot 1	$\checkmark$		
Pilot 2	$\checkmark$	$\checkmark$	
Pilot 3	$\checkmark$	$\checkmark$	$\checkmark$

Problems Encountered

- Providers refused to participate
- Computer access was limited
- Technical difficulties encountered by the users
- Health Centers were unable to keep up with training schedule

What makes a training program successful?

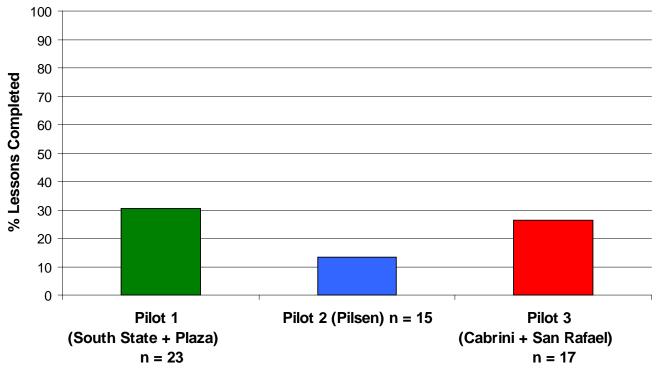
Enthusiastic and dedicated leadership

Continuous use of the knowledge obtained

 Positive reinforcement or consequences for negative behavior

# **Training Results**

% Completed by Pilots



Pilot Number



Conclusions from training

### EMR Vendor Evaluation

Purpose of Project

Help ACCESS narrow down the scope of the EMR vendors available

## EMR Vendor Evaluation Update

- ChartWare
- Logician
- NextGen
- PEARL
- EpicCare
- Physician Practice Solution
- PowerMed EMR
- PracticePartnerPatient Records
- Health Probe Patient Information Manager
- QD clinical
- SOAPware
- Clinical Works Module
- Physician Practice Solution (ASP)
- Welford Chart Notes
- NextGen(ASP)
- TopsChart (ASP)
- Electronic Healthcare Systems, Inc, (EHS)
- Business Computer Applications (BCA)
- Meditech

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- Logician

### Team Members

 Jacquelyn Lange (Team Leader)

#### Assessment Team

- Reshma Marri (Team leader)
- Sean Durkin
- Jack Calzaretta
- Evans Ogbebor
- Website
  - Jessica Li

#### Training team

- Annie Riaz (Team Leader)
- Maryum Riaz
- Kwandong Kim
- Deborah Hsu

#### EMR Evaluation

- Vadim Sinitsyn (Team Leader)
- Malwina Jaracz
- Josh Sammons
- Dheera Rajpal
- Jessica Li

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