

# **Rapid Testing during Labor and Delivery**

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# **Mother Infant Rapid Intervention at Delivery (MIRIAD)**

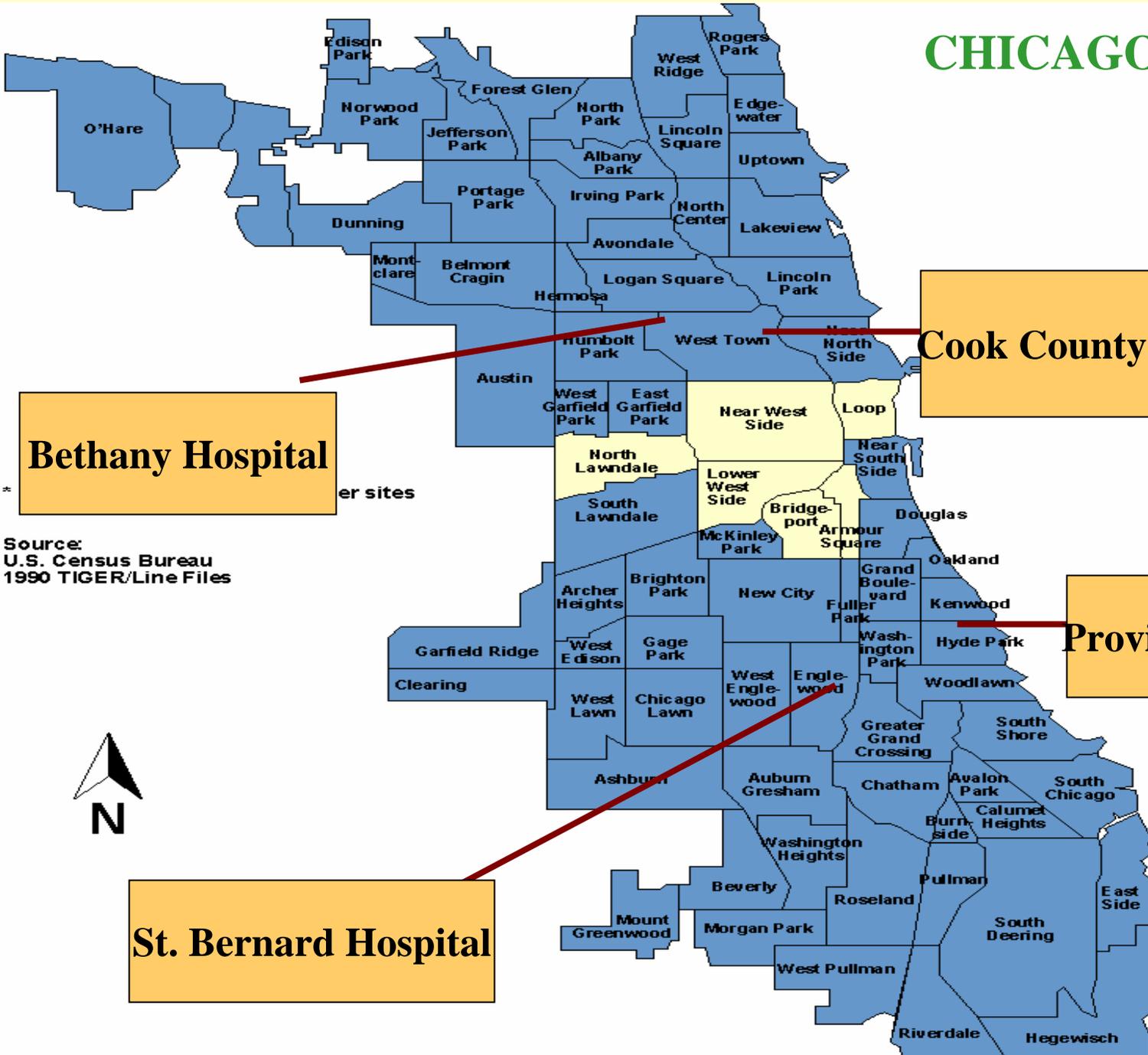
- Identify women not tested for HIV during their pregnancy
- Determine feasibility of rapid testing in labor and delivery settings
- Provide appropriate therapy to reduce perinatal transmission
- Facilitate follow up care

# Summary of Rapid Testing in MIRIAD

- 5 sites (Atlanta, Chicago, New Orleans, New York, Miami) performed 1254 OraQuick tests in Labor & Delivery units in 13 hospitals from 11/01 to present.
- No discrepant Oraquick vs Standard test results to date (one false positive SUDS assay reported from New Orleans).

Eight HIV positive women have been identified: 3 each in Chicago and Miami one each in New Orleans and New York

# CHICAGO



**Cook County Hospital**

**Bethany Hospital**

**Provident Hospital**

**St. Bernard Hospital**

Source:  
U.S. Census Bureau  
1990 TIGER/Line Files



# Rapid Testing in Chicago

## MIRIAD

- Point of care testing at 3 hospitals (Bethany, Cook County, Provident)
  - Informed consent after eligibility
  - Midwives, nurses, and physicians perform Rapid Tests and give results to participants
  - Confirmatory tests sent at same time
- Laboratory used at St. Bernard

# Chicago Total MIRIAD Enrollment

Month	Total # of Form 001	# Eligible	#PP enrolled 1st offer	#PP enrolled re-approach	Total # PP enrolled	#LP enrolled	Total enrolled	# Declined	# HIV +
Nov-Dec	609	94	46	12	58	13	71	20	
Jan	764	70	35	3	38	4	42	25	1
Feb	720	73	39	3	42	7	49	18	
Mar	842	71	37	5	42	7	49	17	
Apr	730	62	28	9	37	7	44	14	
May	803	66	42	5	47	9	56	10	
Jun	839	81	46	6	52	12	64	11	
Jul	955	93	61	5	66	12	78	9	2
2002 Totals	6262	610	334	48	382	71	453	124	3

# Why Point of Care Testing?

- To save time, have results easily available
- To ensure that those most responsible for women in labor participate
- Use existing staff on floor
  - Nurses, Midwives, Residents, Attendings
- Because it is easy to do and more effective than testing in laboratory

# Bethany Hospital

- Rapid test performed on Labor and Delivery unit.
- Eligible patients are determined here in the Labor and Delivery Triage area.



# Provident Hospital



- The rapid test is done on this counter, extra supplies are stored below.



- OB physicians and Midwives share MIRIAD testing at Provident.

# Cook County Hospital

- Clerks on each shift access HIV results from the computer system.
- Eligible patients are offered rapid testing and consented in the Triage area.





- Rapid testing and controls are done on this cart in Triage.



- Eligibility forms are located on wall next to Triage RN desk.

# Setting up Point of Care Testing

- Training Staff
- Hospital Point of Care Committee
- Confirmation Testing
- Training new staff

# Training L&D Staff

- Proficiency Panels (25 ) to be certified
- Level of previous training didn't determine ability to perform rapid test
- Staff need good vision--wear glasses
- Well lit space with flat surfaces
- Time consuming but worth it

# Training Concerns

- Provide set up (appropriate place to perform tests, refrigerate controls, report results)
- Use device stands
- Timers that can clip onto staff's clothing
- Retraining new staff
- Understand running controls

# Staff Feedback on Point of Care Testing

- Glad to be able to deliver results to their patients
- Liked the completeness of the task/work
- Felt like they made a difference
- Performing the test produced motivation

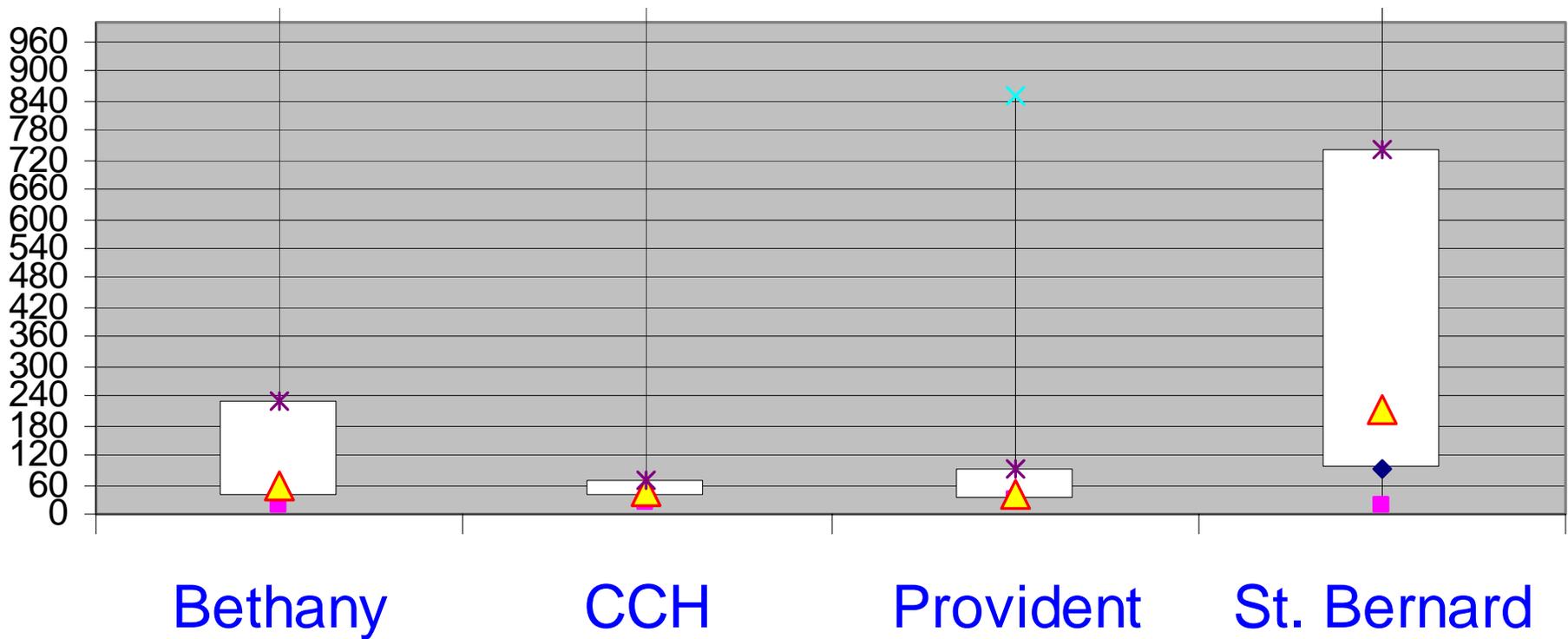
# Hospital Point of Care Committee

- Regulatory mandates for quality control of point of care testing
- Each hospital in Chicago MIRIAD had “Point of Care” Committee
- Application with explanation of need for point of care testing and QC of testing
- Laboratory support as needed

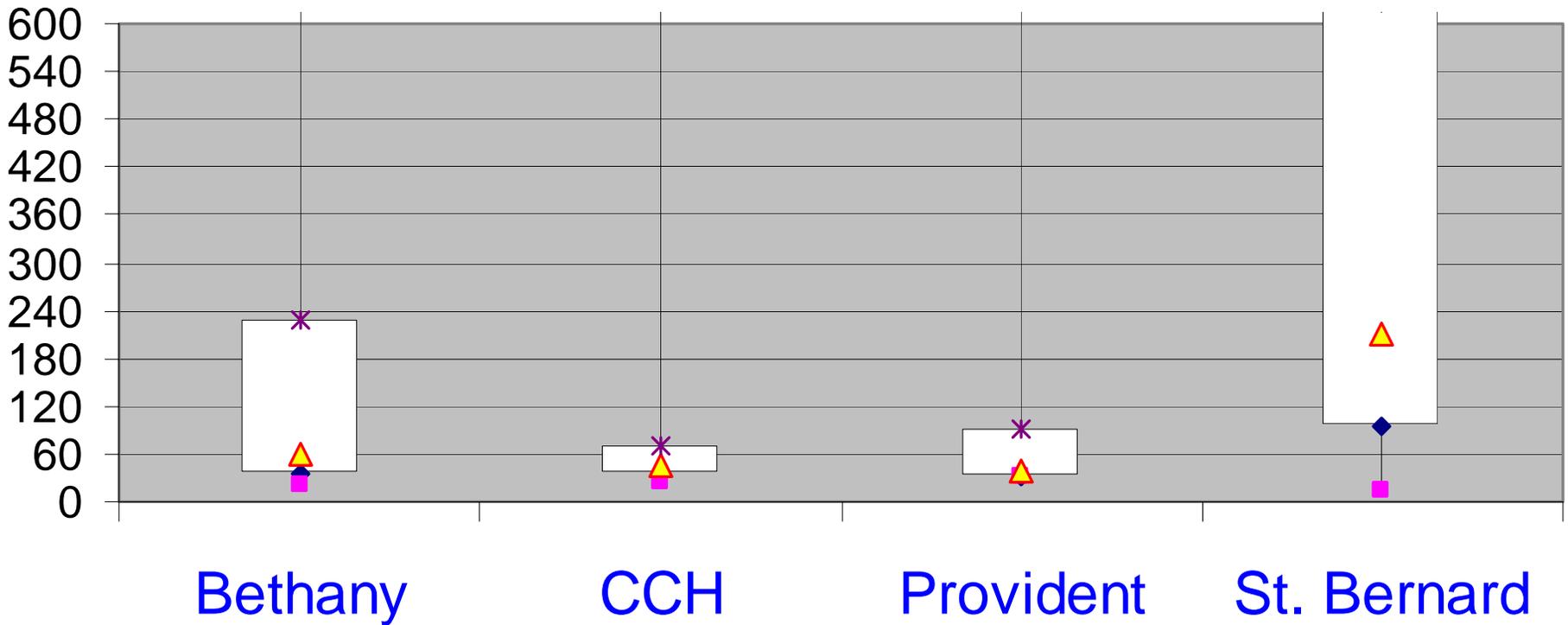
# **Point of care Testing Makes a Difference**

Examined the time from drawing the patient's blood until she received her results

# Boxplot of Turn Around Times



# Boxplot of Turn Around Times



# Reasons for Delay in Delivering Rapid Test Results

- Out of sight out of mind (when sent to lab)
- Shift change
- Patient sleeping
- Getting blood to the laboratory and getting result back

# Lessons Learned

- Be prepared to train staff using proficiency panels in appropriate space
- Use timers for staff performing the test and for those who send test to lab to retrieve results
- Point of care testing delivers faster results
- Point of care testing requires training more staff and continuous training of new staff