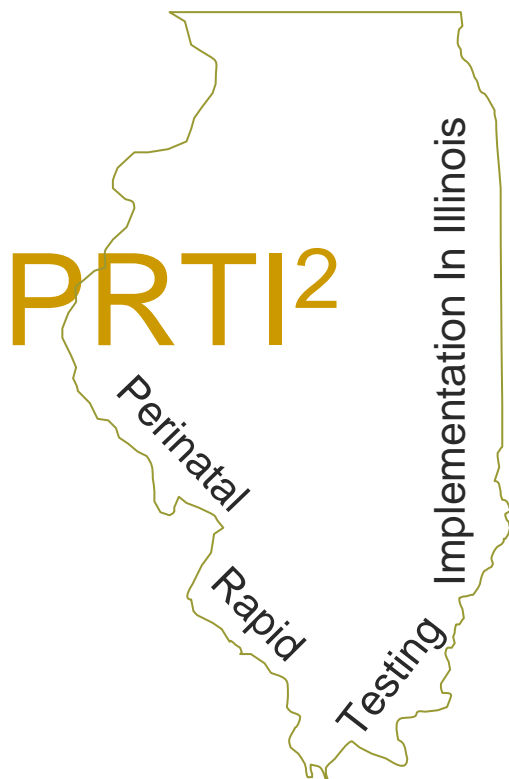


Statewide Perinatal Rapid Testing Implementation in Illinois



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Pediatric AIDS Chicago Prevention Initiative³

Core Center, Cook County Bureau of Health Services, Chicago, Illinois⁴

Perinatal HIV Prevention Grantees Meeting
June 15, 2005 Atlanta, GA

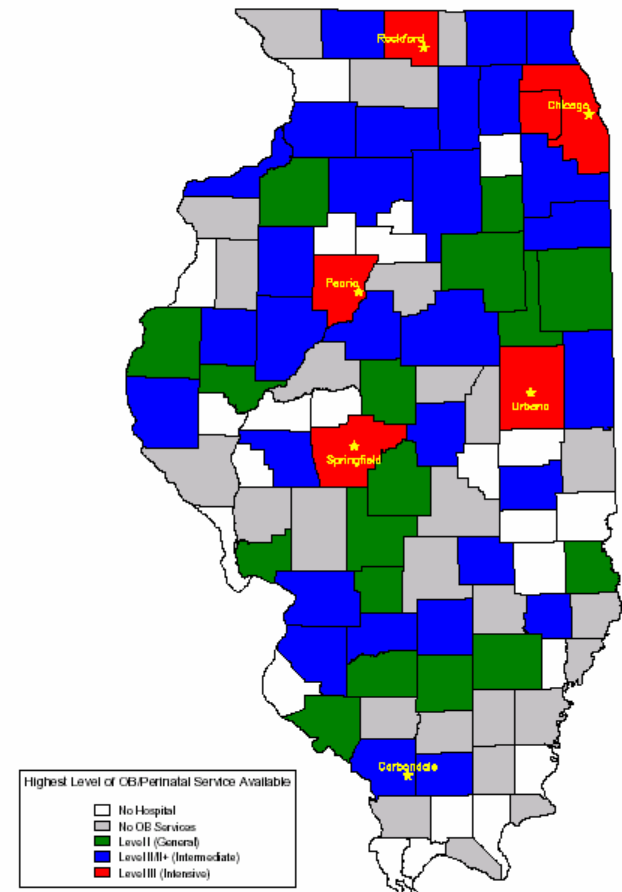
An Opportunity: Illinois Perinatal HIV Prevention Act August 2003

- All pregnant women in Illinois will be counseled and offered an HIV test as early in pregnancy as possible
- HIV test results will be documented in prenatal, L&D and newborn pediatric chart.
- If there is no documented maternal HIV status on arrival to L&D, the patient will be offered a Rapid HIV test (**opt-in**).
- If maternal status not known at delivery, newborn will be given rapid HIV test unless mother declines (**opt-out**).

Perinatal Rapid Testing Implementation in Illinois PRTI²

- PRTI² initiative formed to implement rapid HIV testing in every L&D and newborn nursery unit in Illinois by July 2005

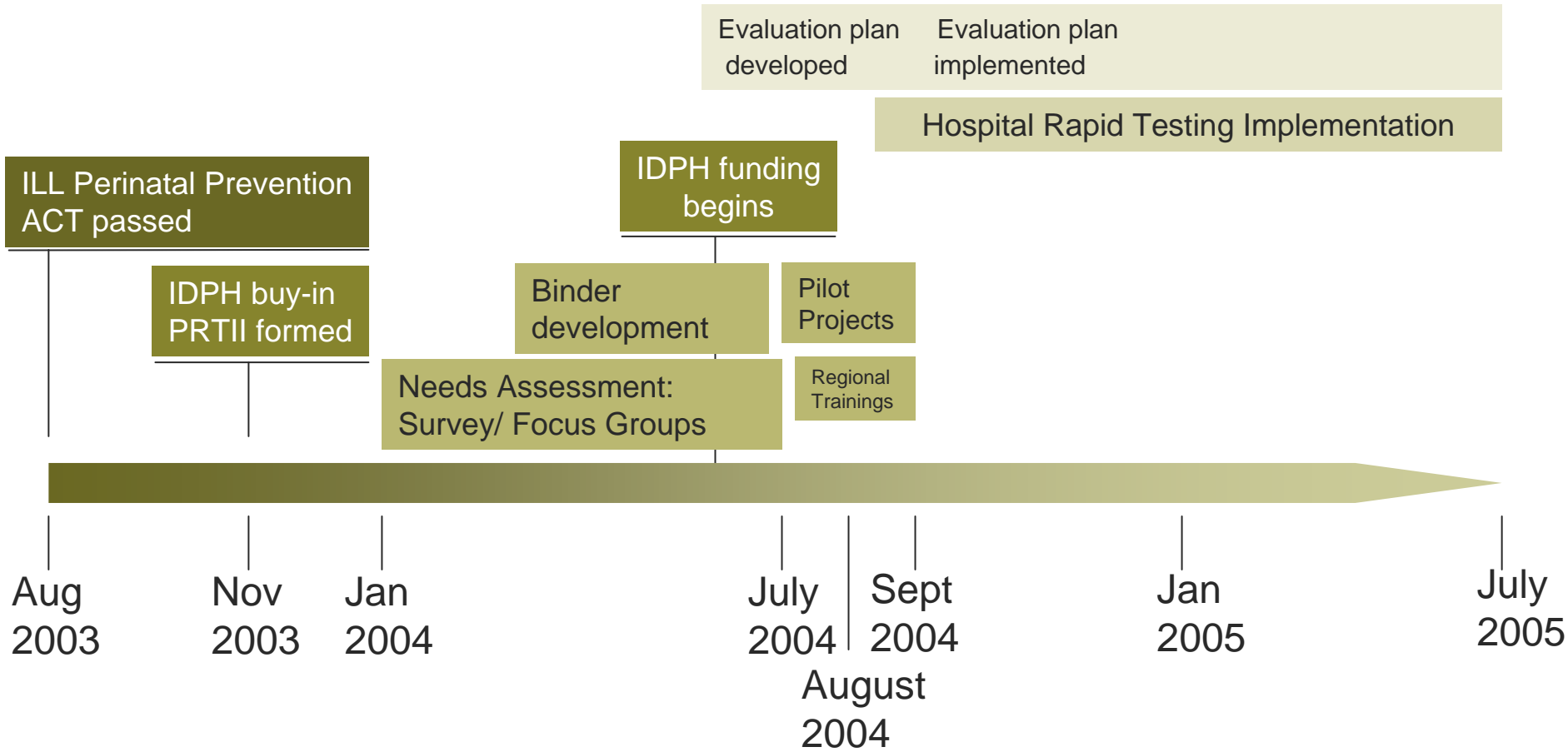
Availability of Obstetric Services by County



PRTI² Strategy

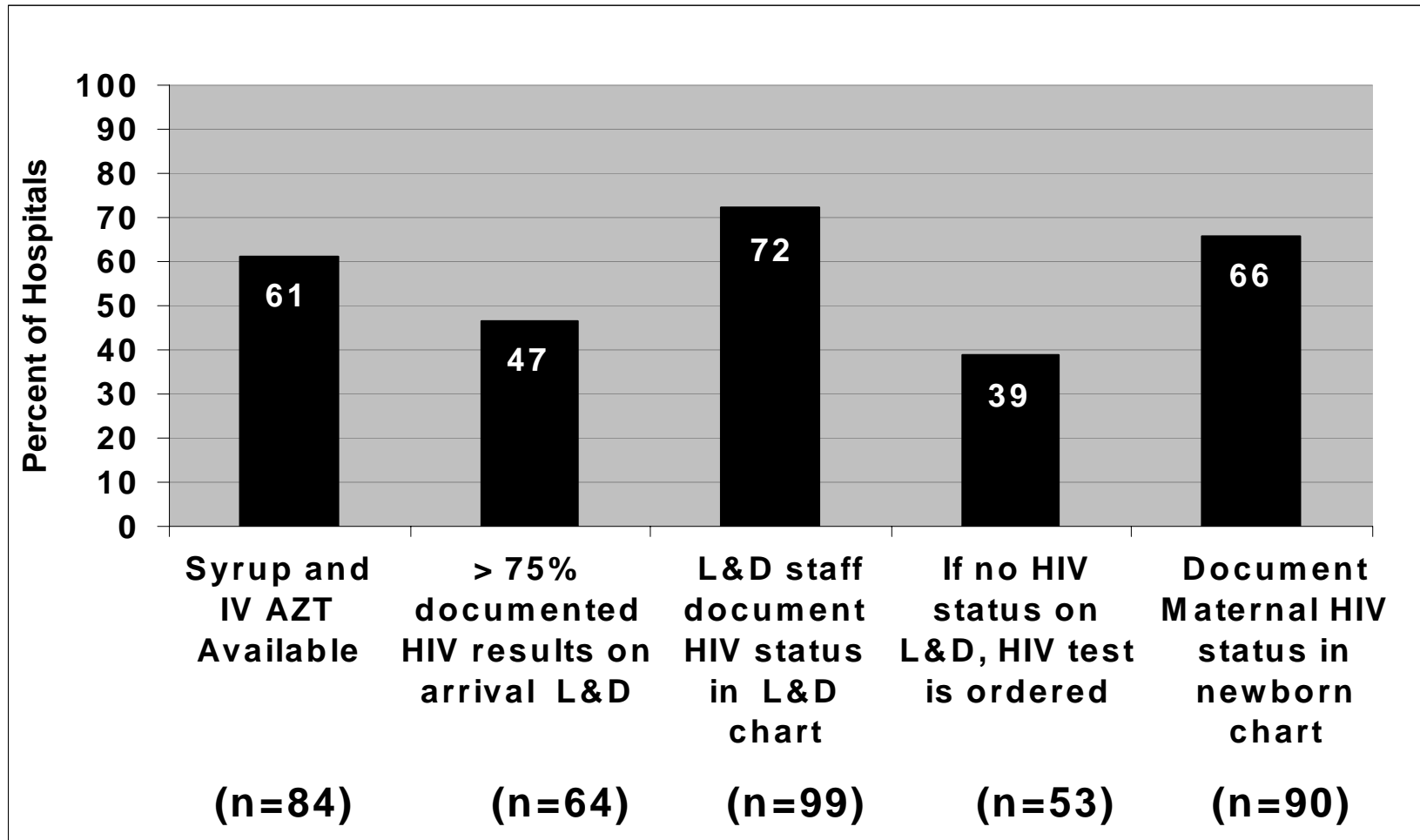
- **Statewide assessment of need**
 - Hospital survey, focus groups, pilot project
- **Implementation**
 - **Training:** Regional, Hospital Specific, Leave-Behind
 - **Tools:** counseling flipchart, implementation manual, template policies and consents **[PRTII BINDER]**
 - **Regional coordinators:** facilitated hospital-specific implementation process
 - **24/7 Illinois Perinatal HIV Hotline:** clinical info, referral and F/U via enhanced case management
- **Development of ongoing surveillance**
 - Evaluation of implementation and outcomes

[PRTI² Timeline]

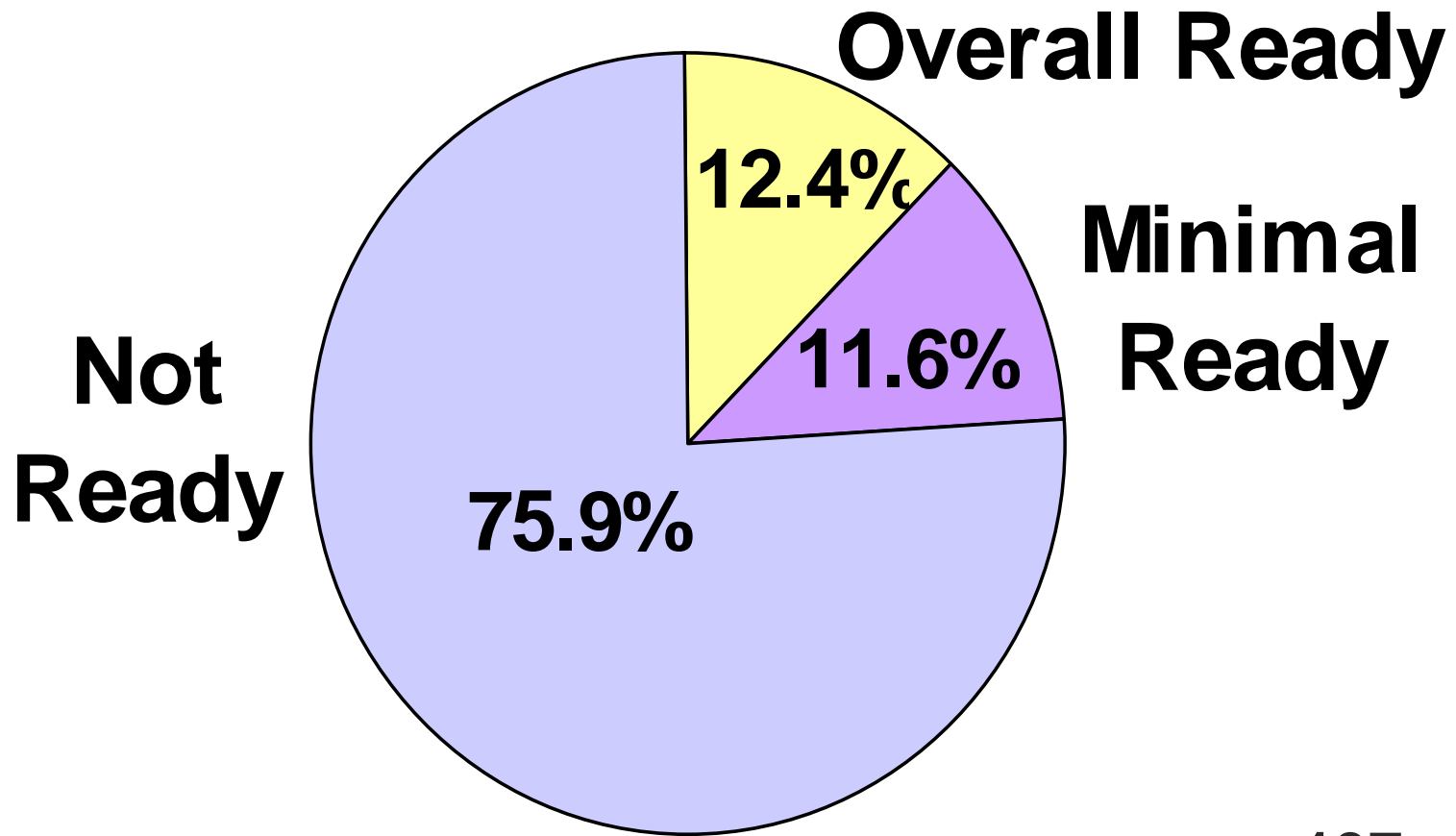


****Legislative and regulatory constraints****

Components of Hospital Readiness to Prevent Perinatal HIV



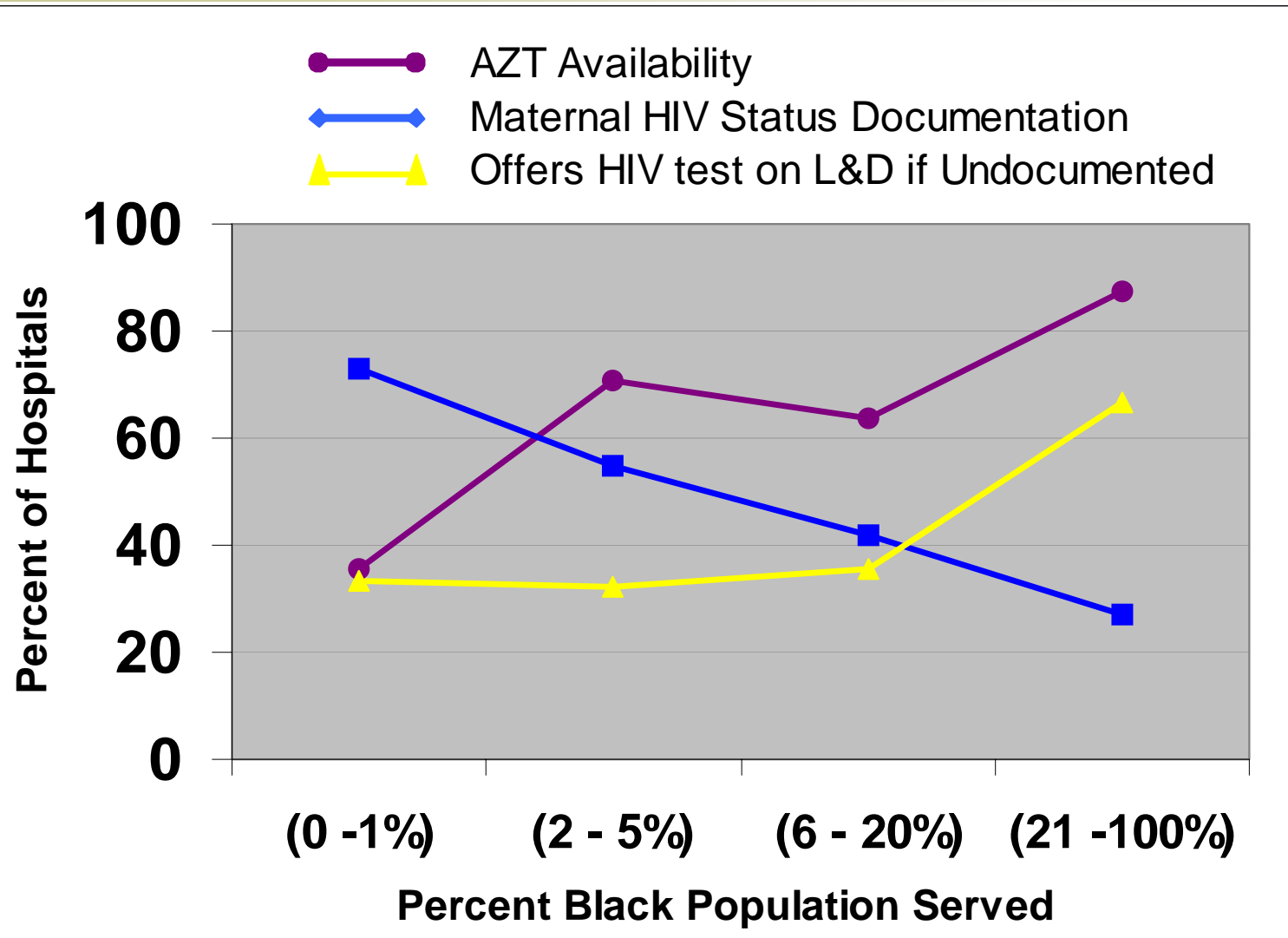
Overall Readiness to Prevent Perinatal HIV Transmission



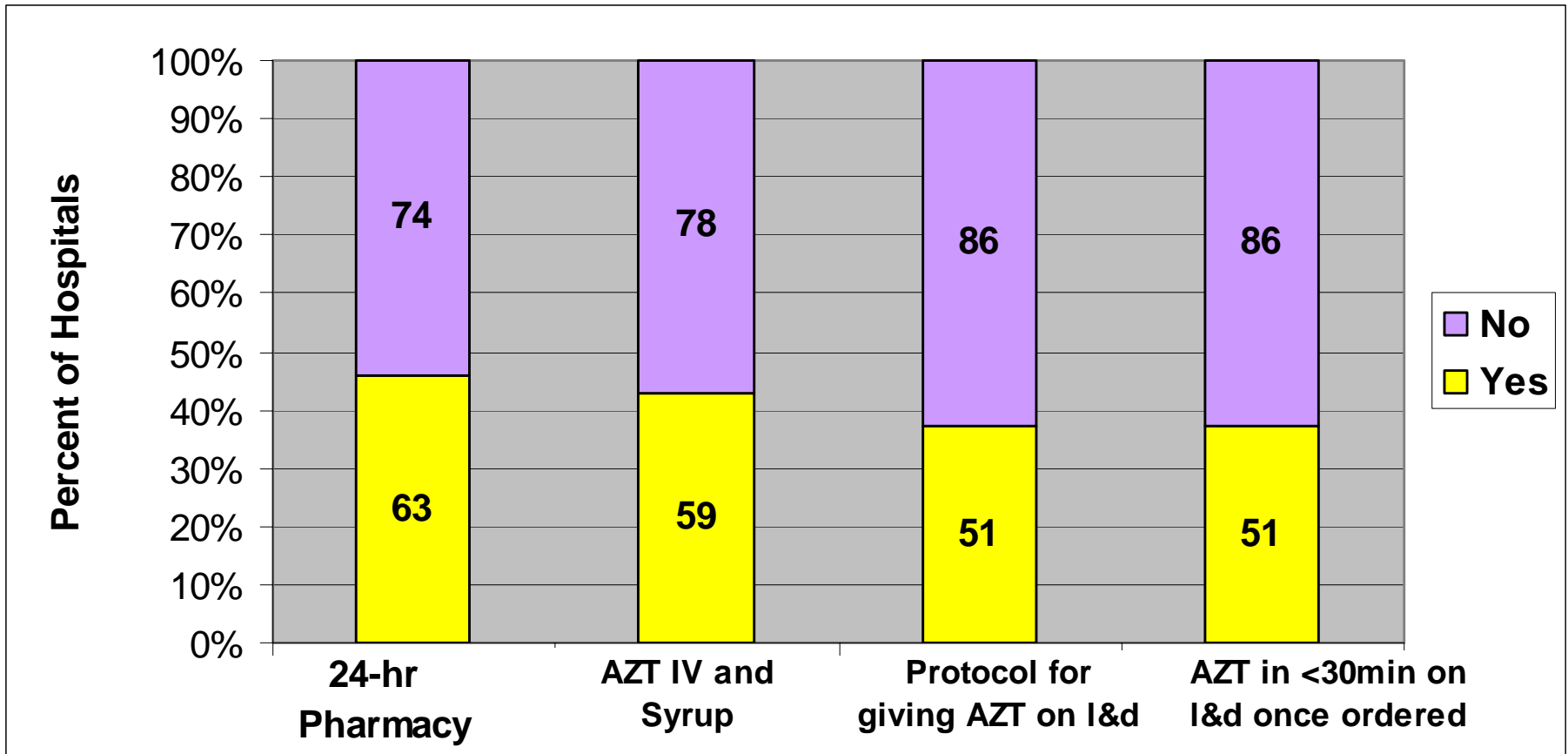
IL Birthing Hospitals

n = 137

IL Birthing Hospitals by % Black Population Served



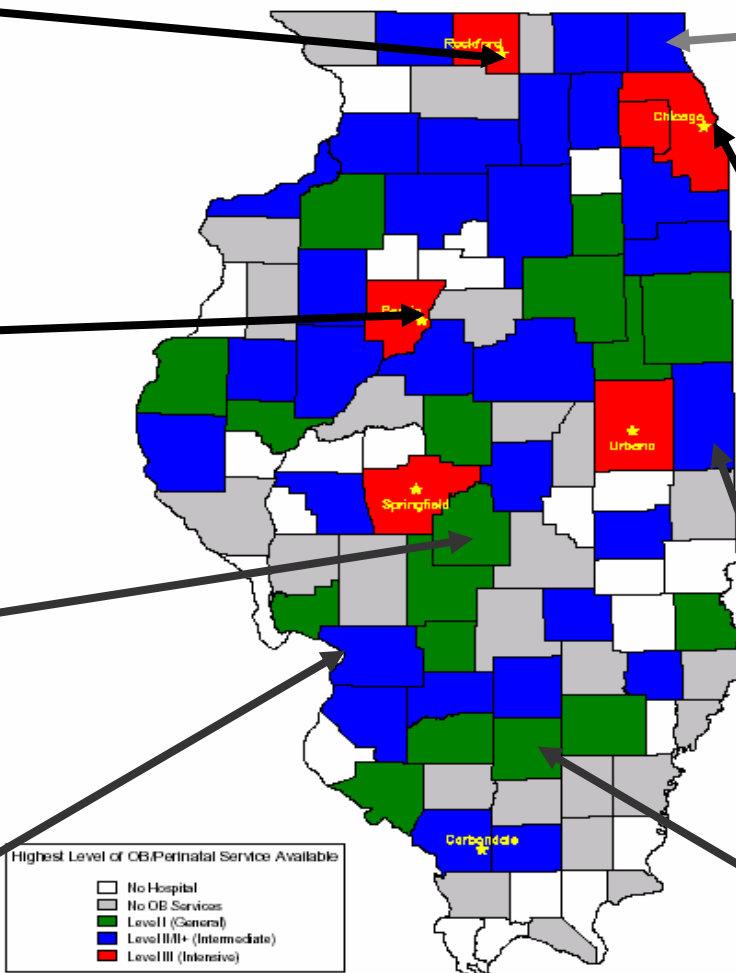
AZT Availability in Illinois



Feb '04 Birthing Hospital Pharmacy Phone Interview (n=133)

Focus Group Hospitals

Availability of Obstetric Services by County



Highest Level of OB/Perinatal Service Available

- No Hospital
- No OB Services
- Level I (General)
- Level III+ (Intermediate)
- Level III (Intensive)

Source: Illinois Department of Public Health

Rockford Memorial Hospital, Rockford (6/2/04)

Level III, 2023 births

St. Francis Medical Center, Peoria (5/13/05)

Level III, 2417 births

St. Francis Hospital, Litchfield (5/12/04)

Level I, 277 births

Touchette Regional Hospital, East St. Louis (4/23/04)

Level II, 668 births

Vista-Victory Memorial Hospital, Waukegan (5/19/04)

Level II, 2288 births

Northwestern Memorial, Chicago (4/16/04)

Level III, 8993 births

Provena-United Samaritans Medical Center, Danville (5/27/04)

Level II, 860 births

St. Mary's Good Sam., Mt Vernon (5/12/04)

Level I, 677 births

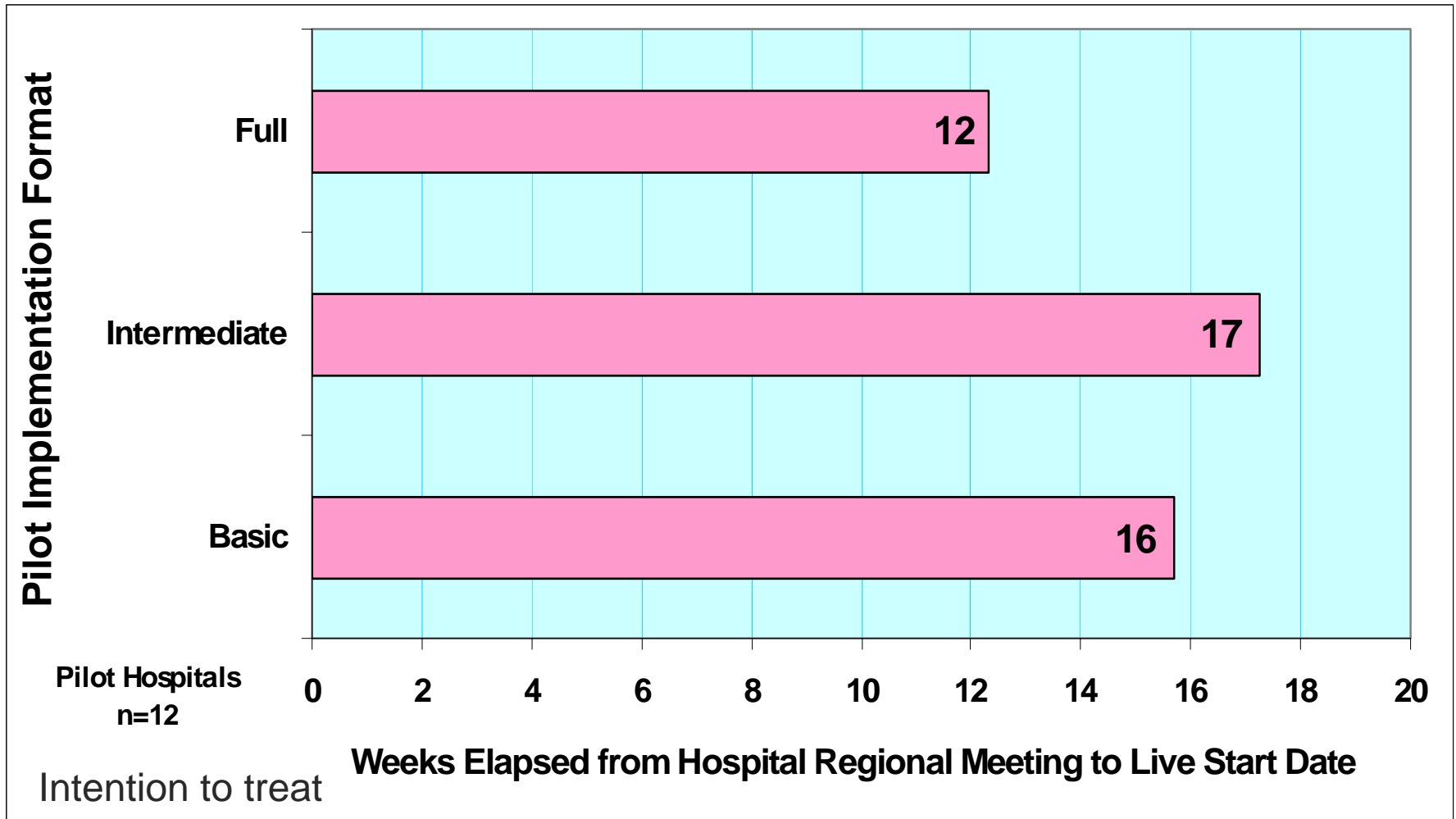
Supported by HRET, AHA

Pilot Projects: 12 Sites

- Aim to assess level of intervention needed for implementation
 - Full
 - Intermediate
 - key player meeting, but no in hospital trainings
 - Basic Intervention
 - only materials and regional training
- Selected for # births, urban vs rural and rate of HIV status documentation
- Given option to opt-out to full implementation if unable to move forward with basic or intermed.
 - 2/4 basic converted to full
 - 2/4 intermediate converted to full

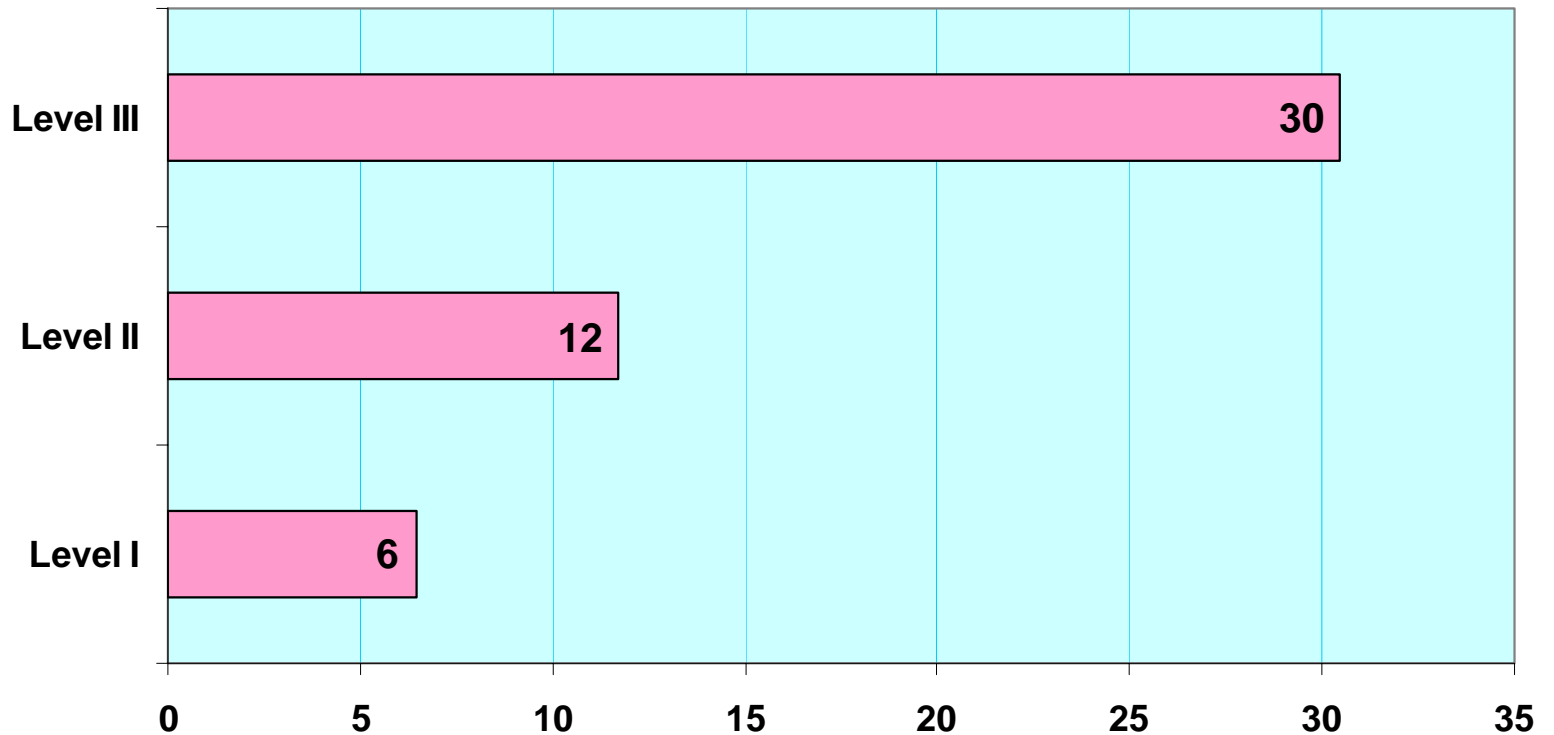
Pilot Hospitals Time to Live Start by Implementation Model

true full = 7 weeks, true intermed = 28 wks, true basic = 26 wks



Pilots Time to Live Start by Perinatal Level

Pilot Implementation Format



Pilot Hospitals n=12

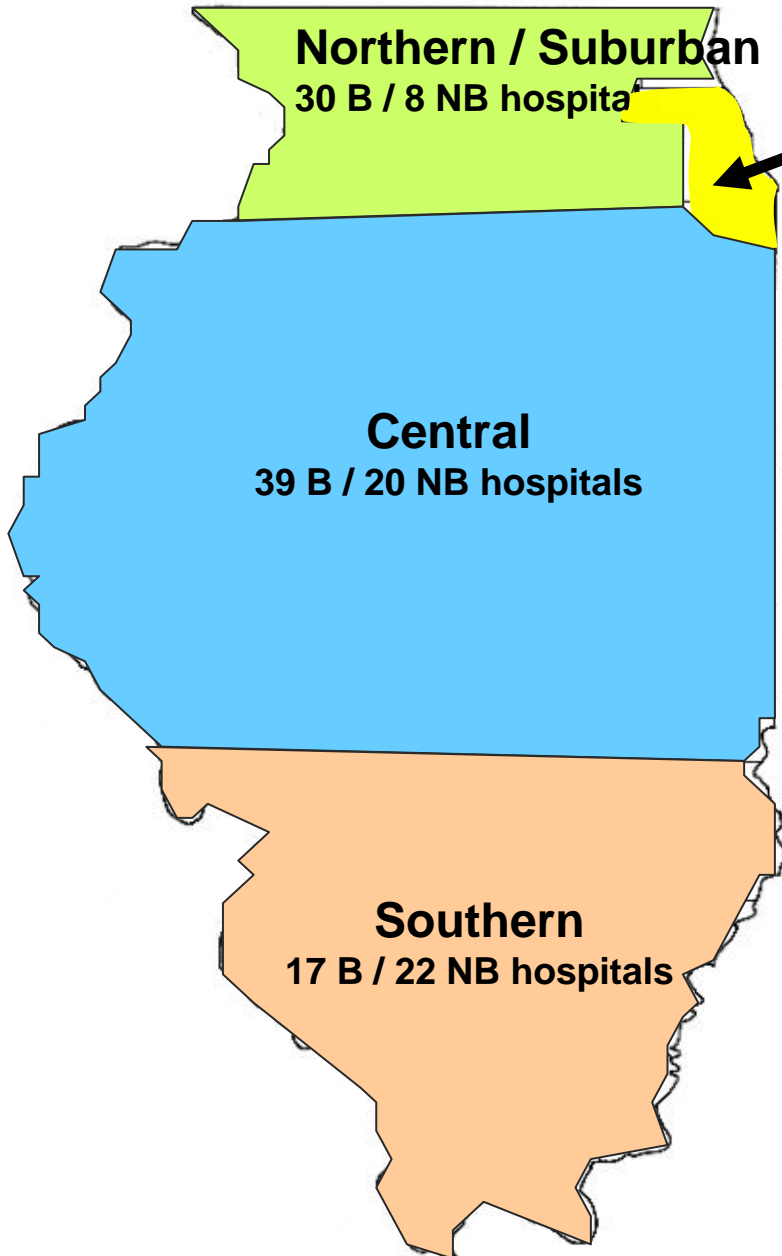
Weeks Elapsed from Hospital Regional Meeting to Live Start Date

Rapid Testing Implementation Illinois Model

- Statewide framework
 - Regionalized perinatal network system used
- Regional trainings (10 networks)
 - All nurse managers trained / materials given
- Hospital specific implementation and training (133 hospitals)
 - Key Players Meeting
 - L&D / nursery nurses rapid test training

Statewide Framework

- 5 regional coordinators

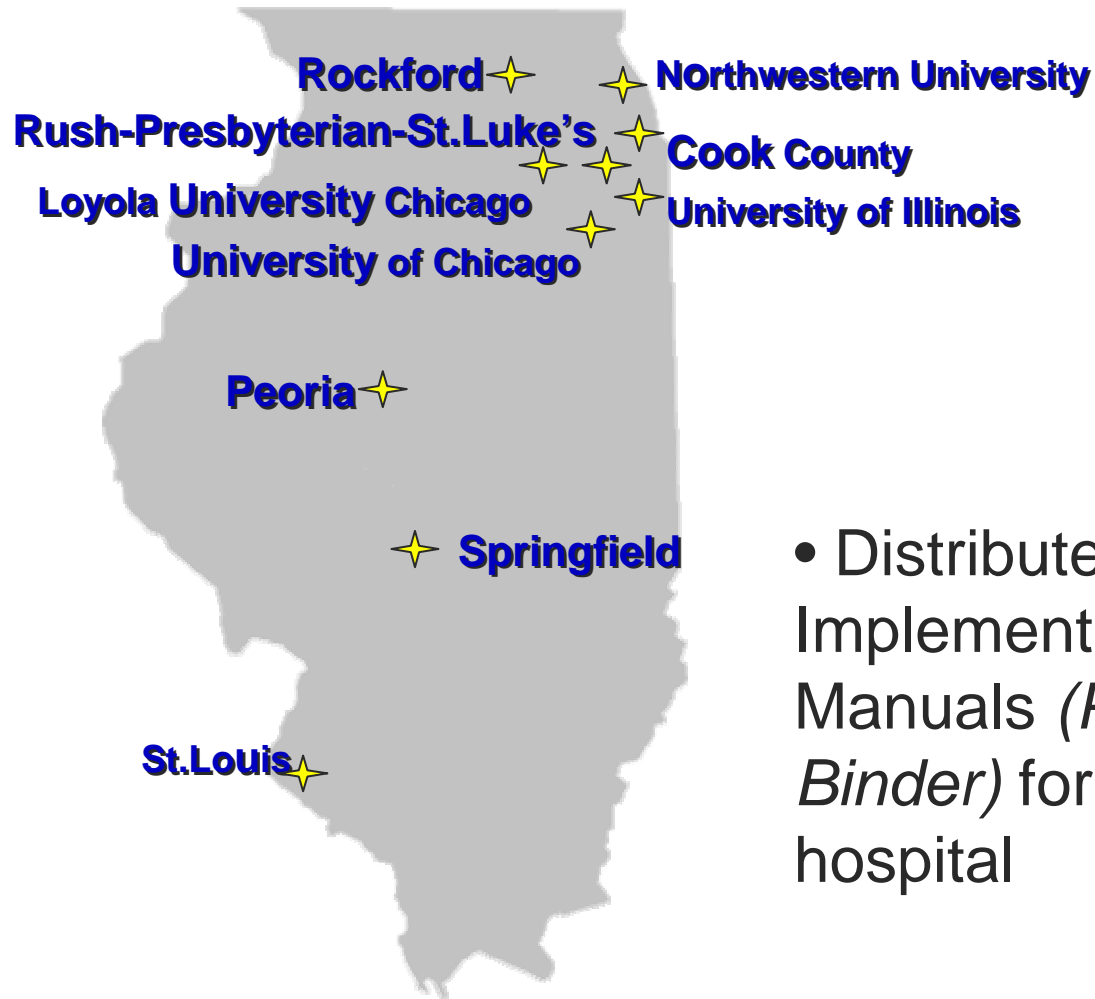


Chicago
66 B / 10 NB hospitals

Network	Birthing hospitals	Non-birthing hospitals
University of Chicago	10	1
Cook County Hospital	8	0
Northwestern	13	5
University of Illinois	12	1
Loyola	6	1
Rush	17	2
Suburban Combined*	(18)	(2)
Rockford	12	6
Peoria	27	7
Springfield	12	13
St. Louis	17	22
Totals	133	58

Regional Perinatal Network Trainings

10 trainings



- Train all nurse managers on POC rapid testing and implementation steps

- Distribute RT Implementation Manuals (*PRTII Binder*) for each hospital

Hospital Specific Implementation & Training

- Buy in from Hospitals and Providers key
 - Introductory packet sent to hospital CEO's, Chief OB, Chief Pediatrics from PRTII / IDPH
 - Explain rationale and key steps needed
- Regional Coordinators assist hospital implementation
 - Key players meeting
 - Review protocols and make appropriate changes
 - Institute HIV status identification (on arrival L&D)
 - Conduct rapid testing trainings for staff (2 each hospital)
 - Provide support on rapid testing "goes live" date
 - Ensure data collection and surveillance

Evaluation

- Implementation Tracking
 - RC's turn in weekly updates of implementation
 - Key players completed, training completed, live starts

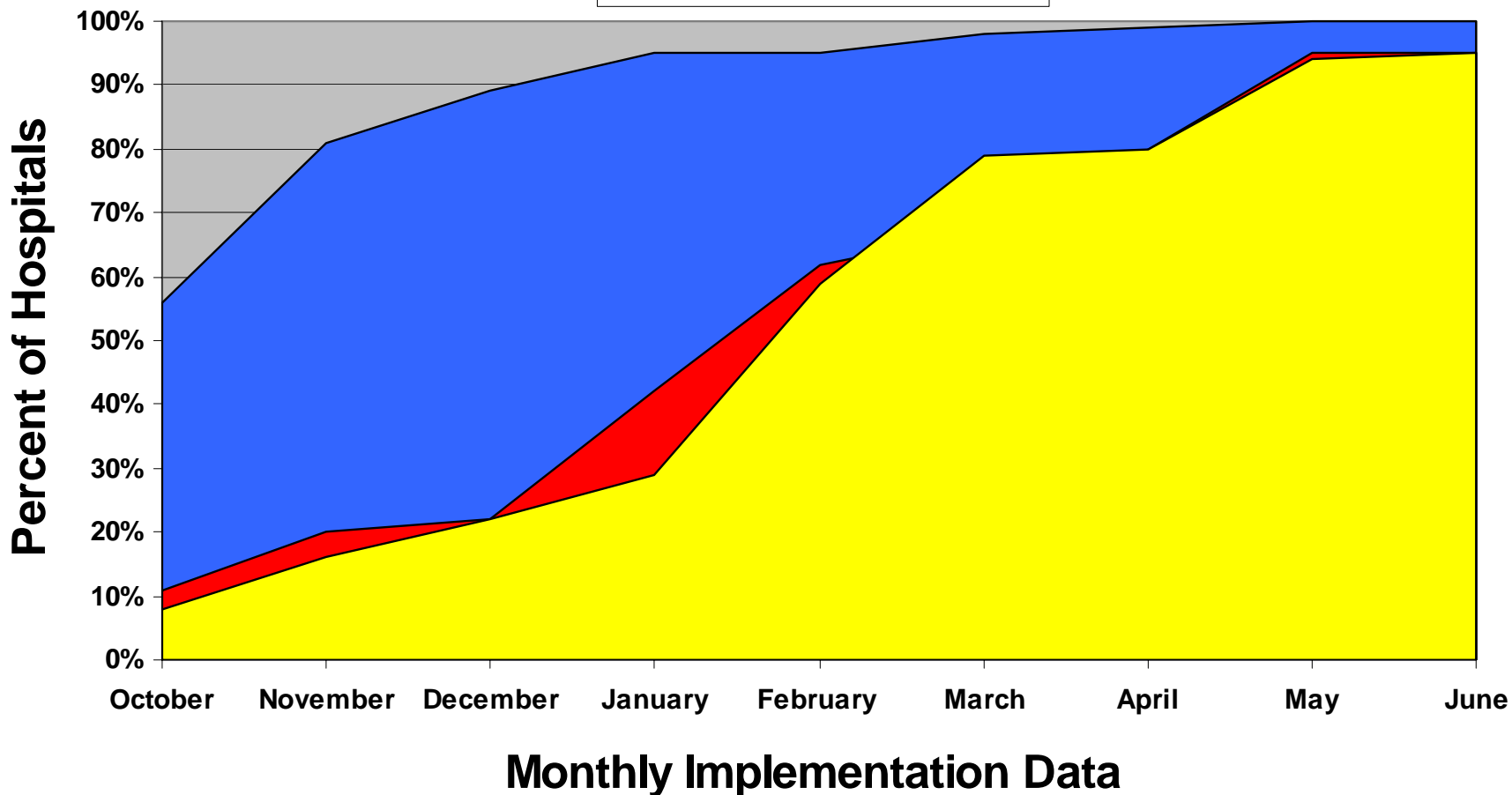
- Monthly Outcomes Data by Hospital
 - Rapid Testing Log Book on every L&D
 - Monthly Data Collection form summarizes log book reported from every "live" birthing hospital

- Preliminary Positive Data
 - Data form completed for every positive rapid test

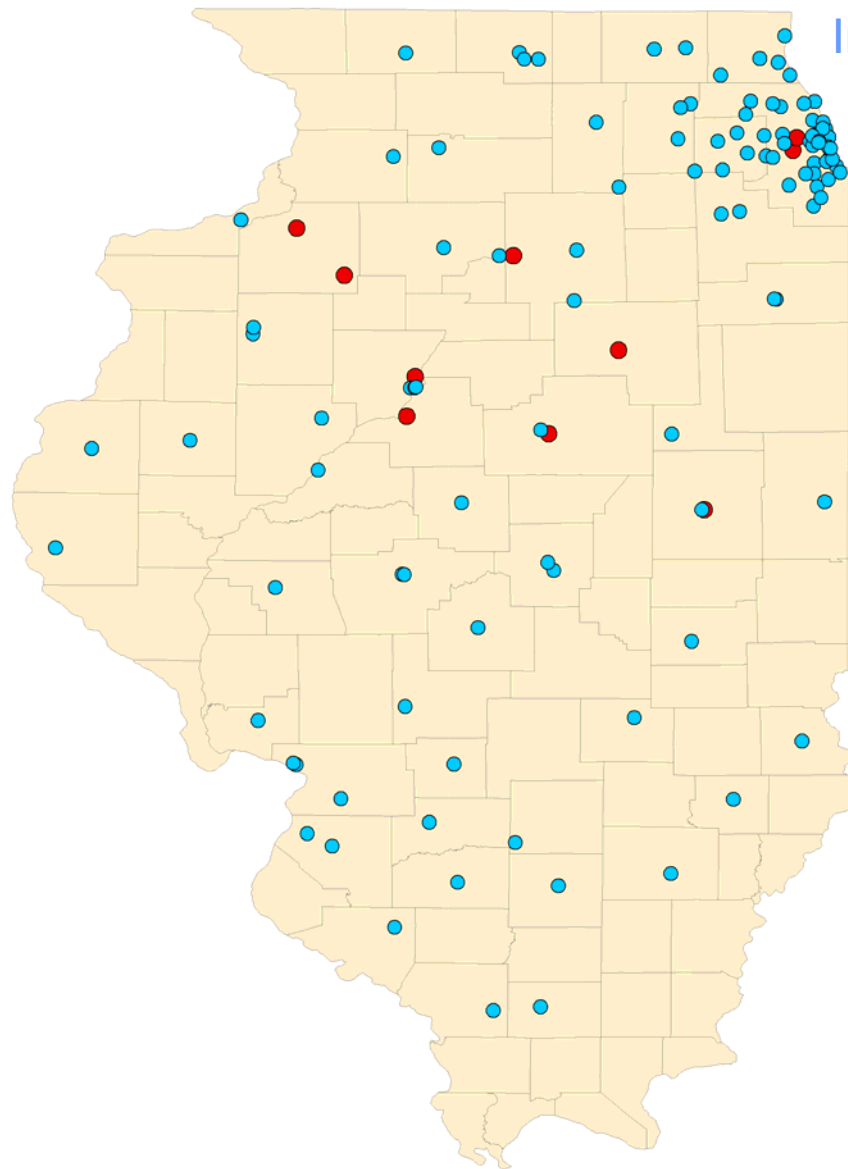
Implementation Tracking: 126/133 (95%) hospitals “Live”

- Key Player Meeting
- Training
- Live Start

As of June 10, 2005



Perinatal Rapid Testing Implementation in Illinois [PRTI²]

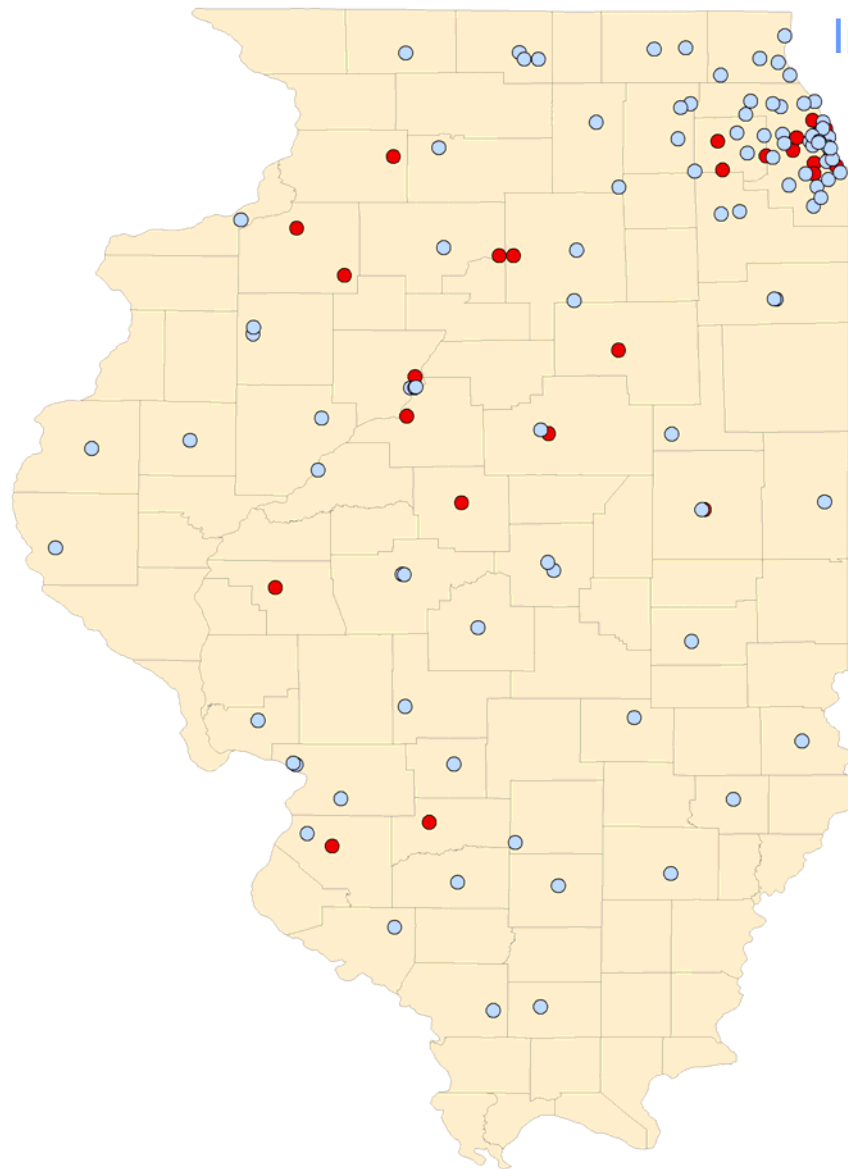


Implementation status by GIS mapping

October 1, 2004

- Hospital **with** rapid testing
- Hospital **without** rapid testing

Perinatal Rapid Testing Implementation in Illinois [PRTI²]

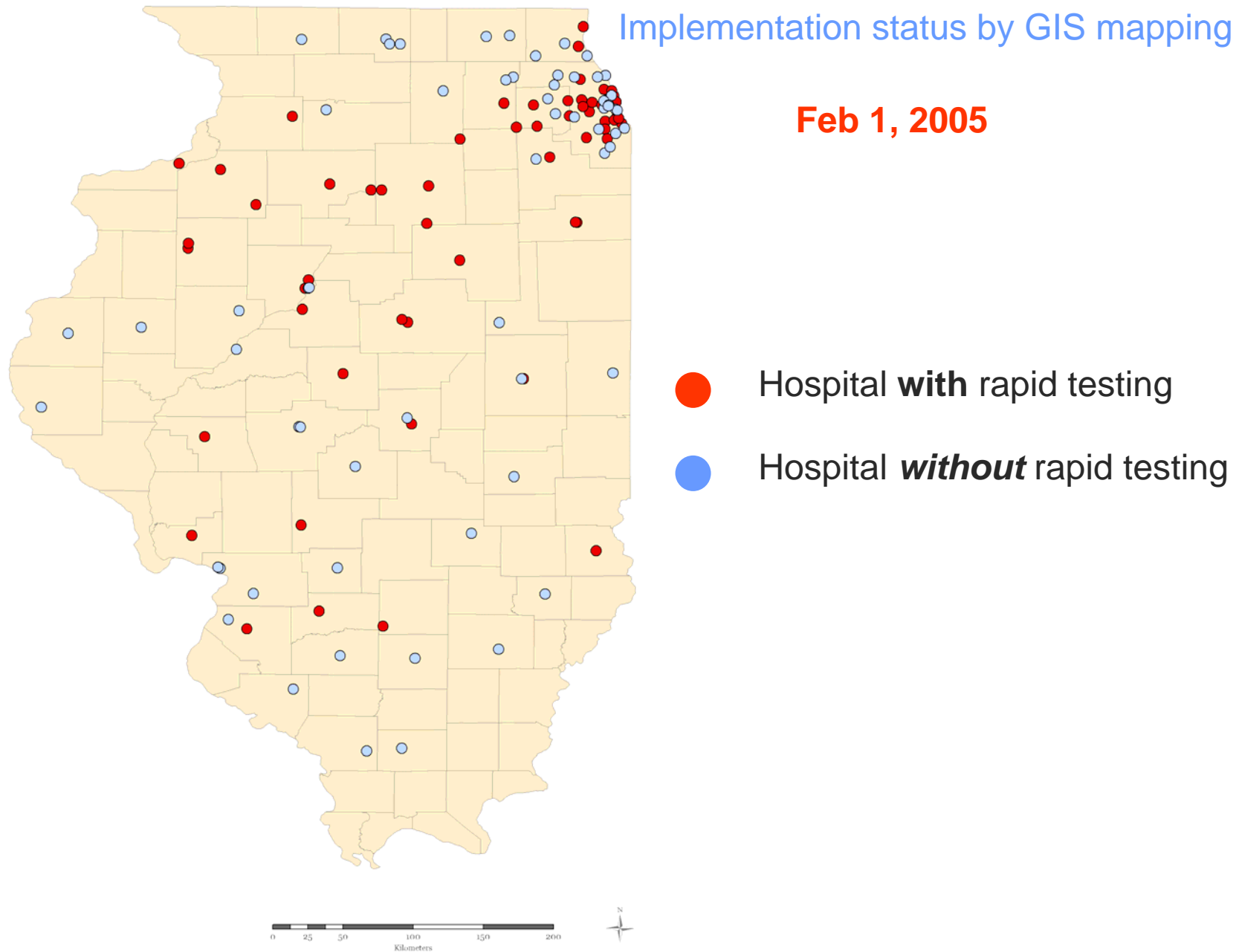


Implementation status by GIS mapping

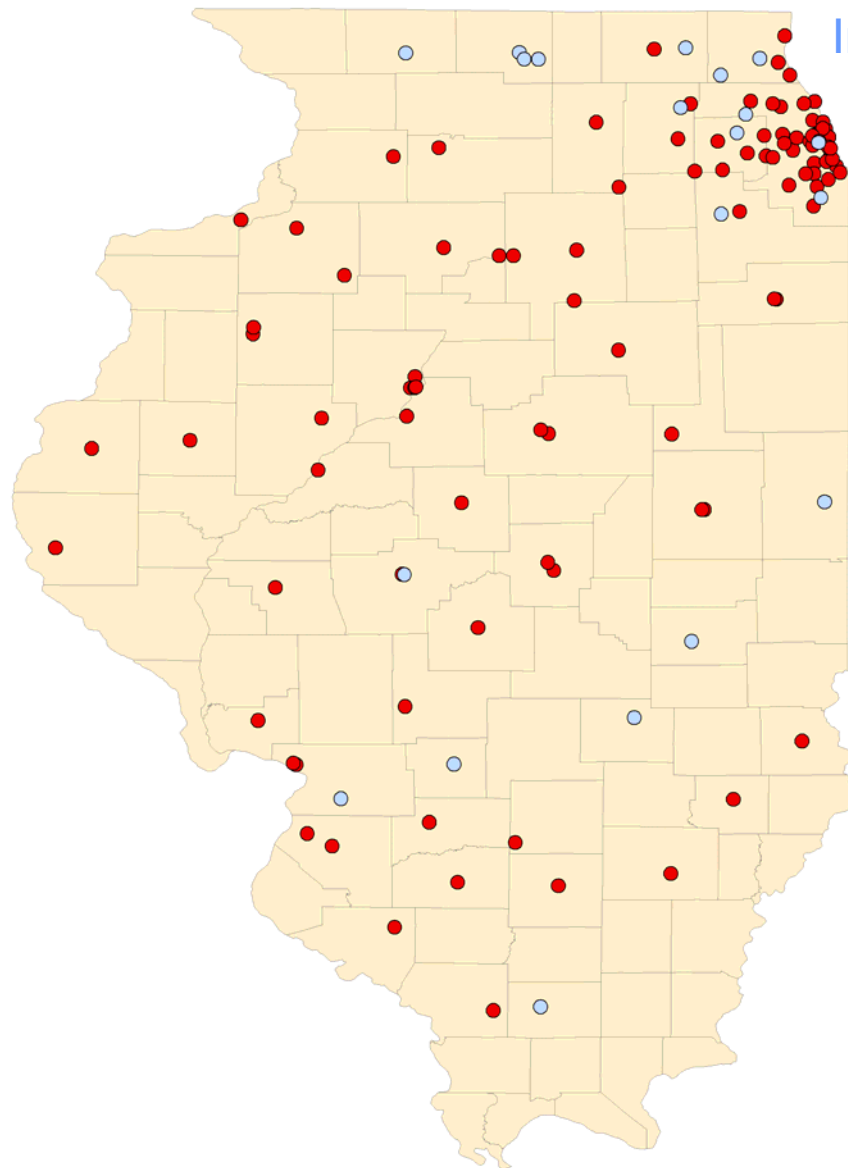
December 1, 2004

- Hospital **with** rapid testing
- Hospital **without** rapid testing

Perinatal Rapid Testing Implementation in Illinois [PRTI²]



Perinatal Rapid Testing Implementation in Illinois [PRTI²]



Implementation status by GIS mapping

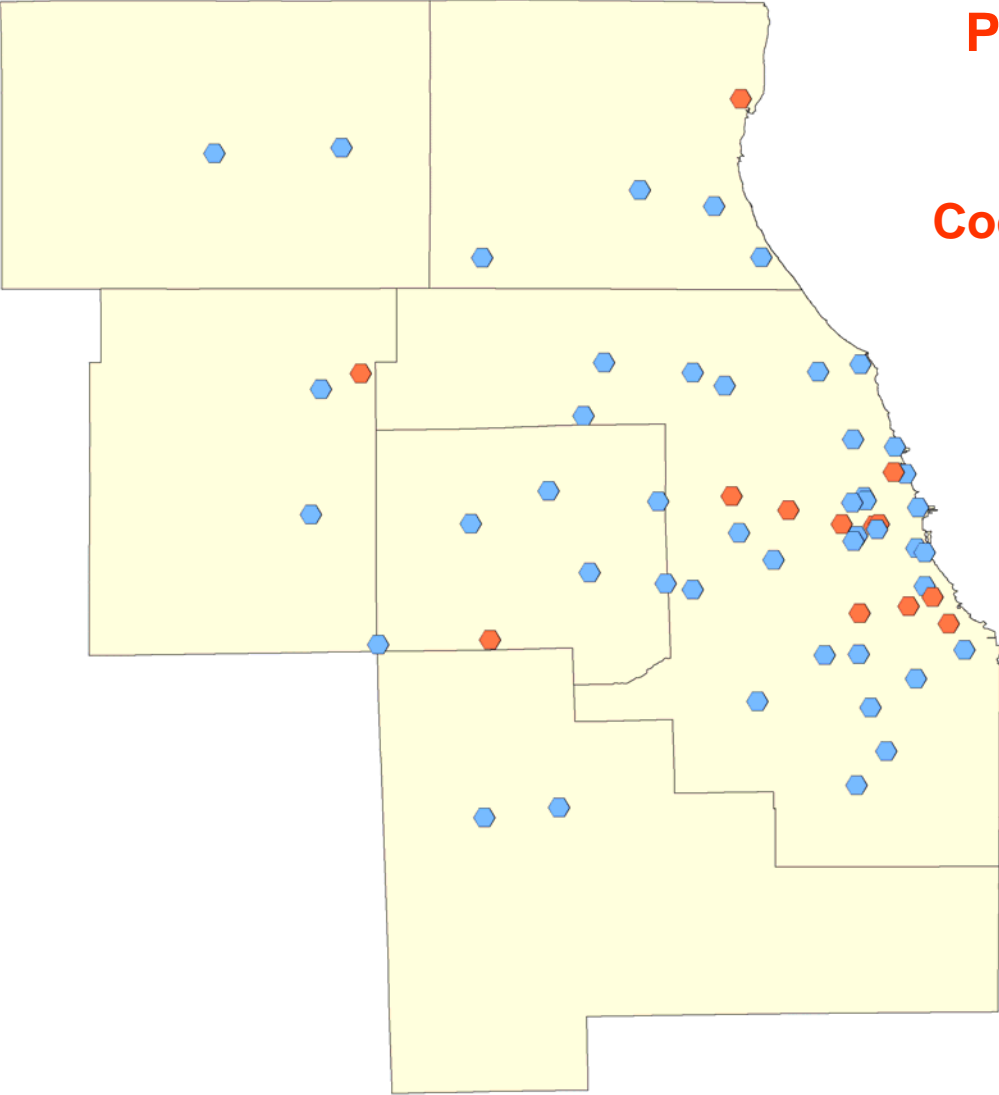
April 1, 2005

- Hospital **with** rapid testing
- Hospital **without** rapid testing

Perinatal Rapid Testing Implementation in Illinois [PRTI²]

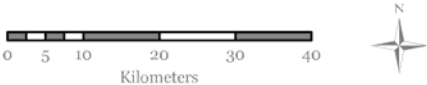
Preliminary positive rapid tests through May 1, 2005

Cook and surrounding counties (n=6)

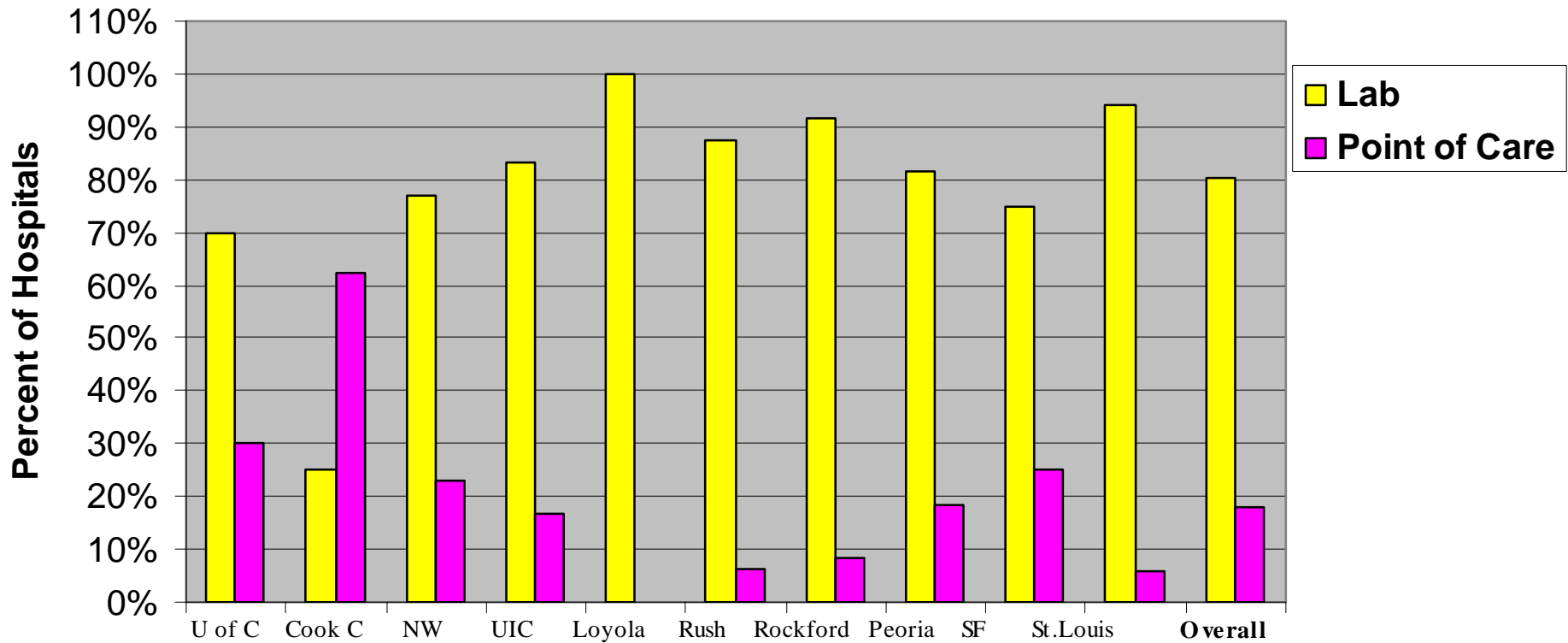


● Hospital **with** positive rapid test (n=12 hospitals, 14 positive tests)

● Hospital **without** positive test

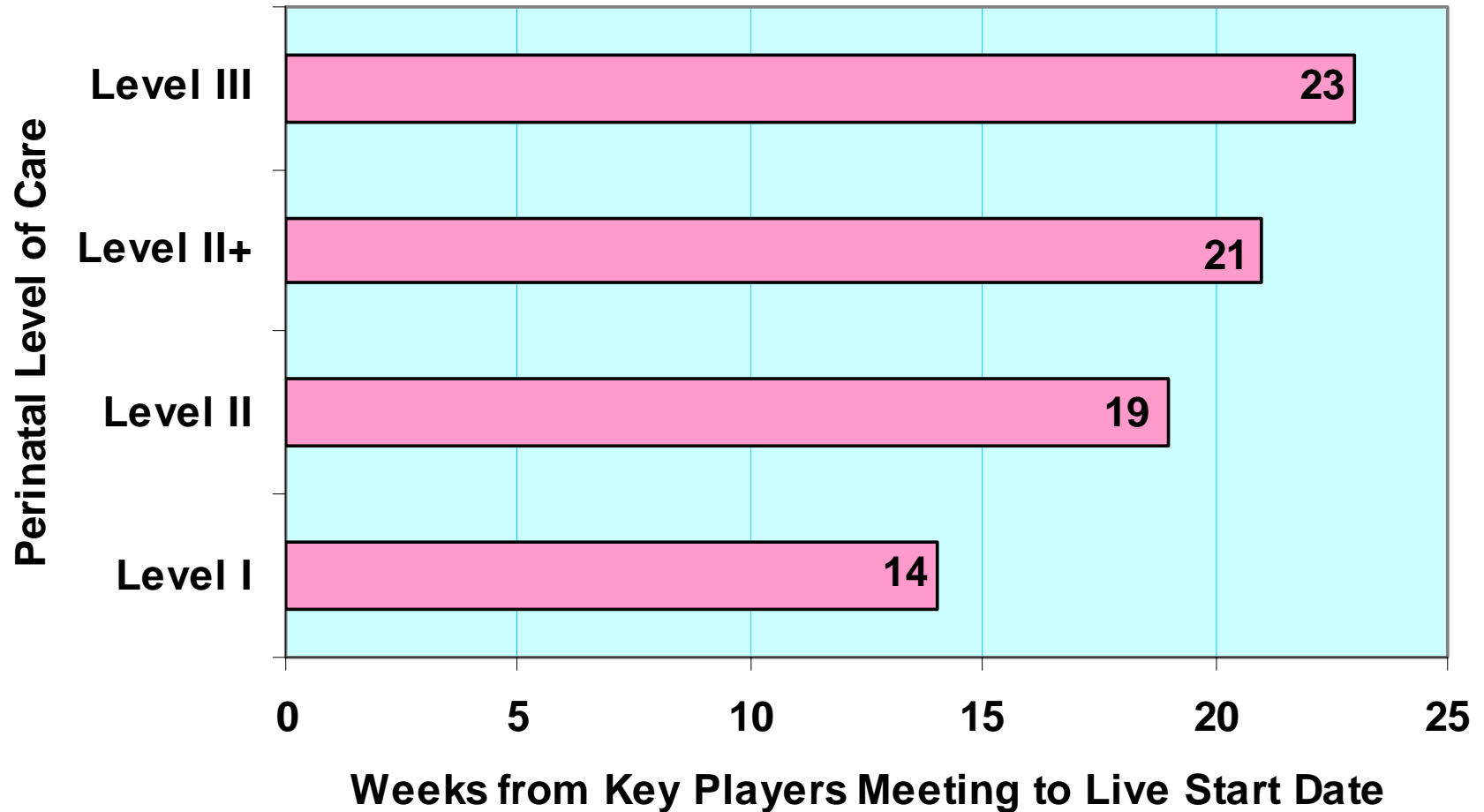


[Approach to Rapid Testing]

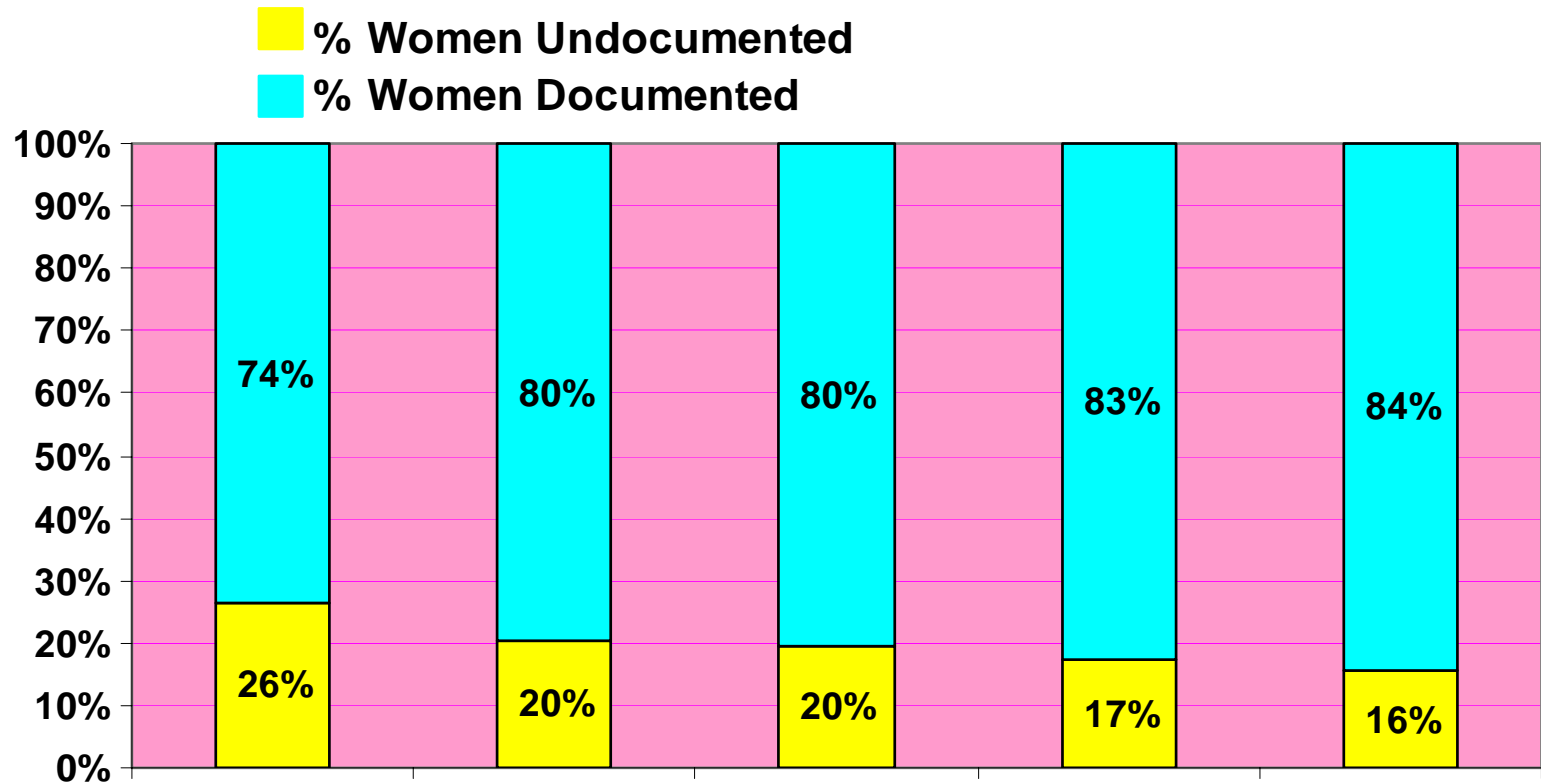


Time to Implementation: Key Players Meeting to Live Start

Mean = 17 weeks



HIV Documentation on Arrival to L&D



tested women
 # women undoc.

Aug-Sep

133/503

Oct-Nov

530/2601

Dec-Jan

1031/5252

Feb-March

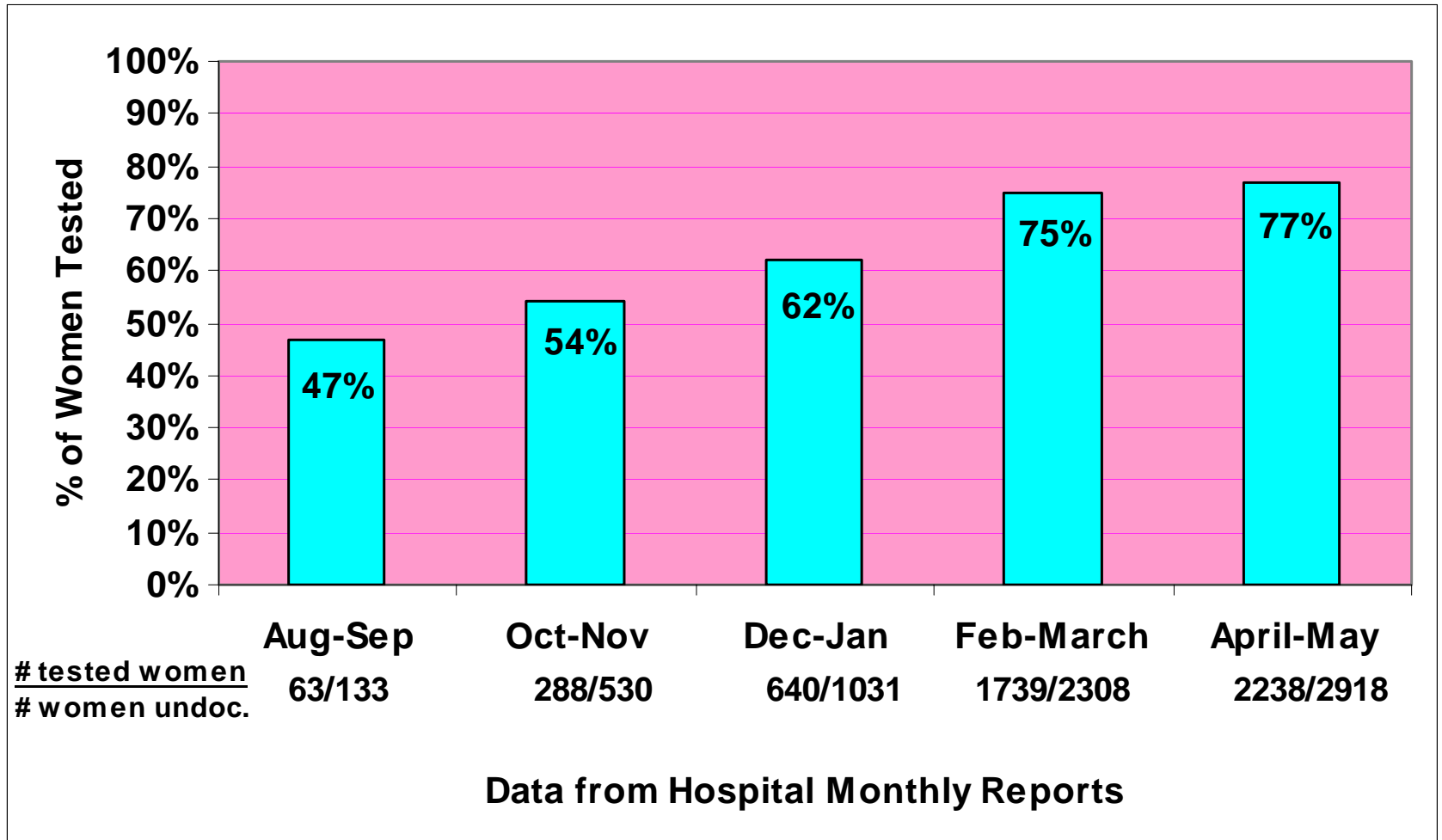
2308/13439

April-May

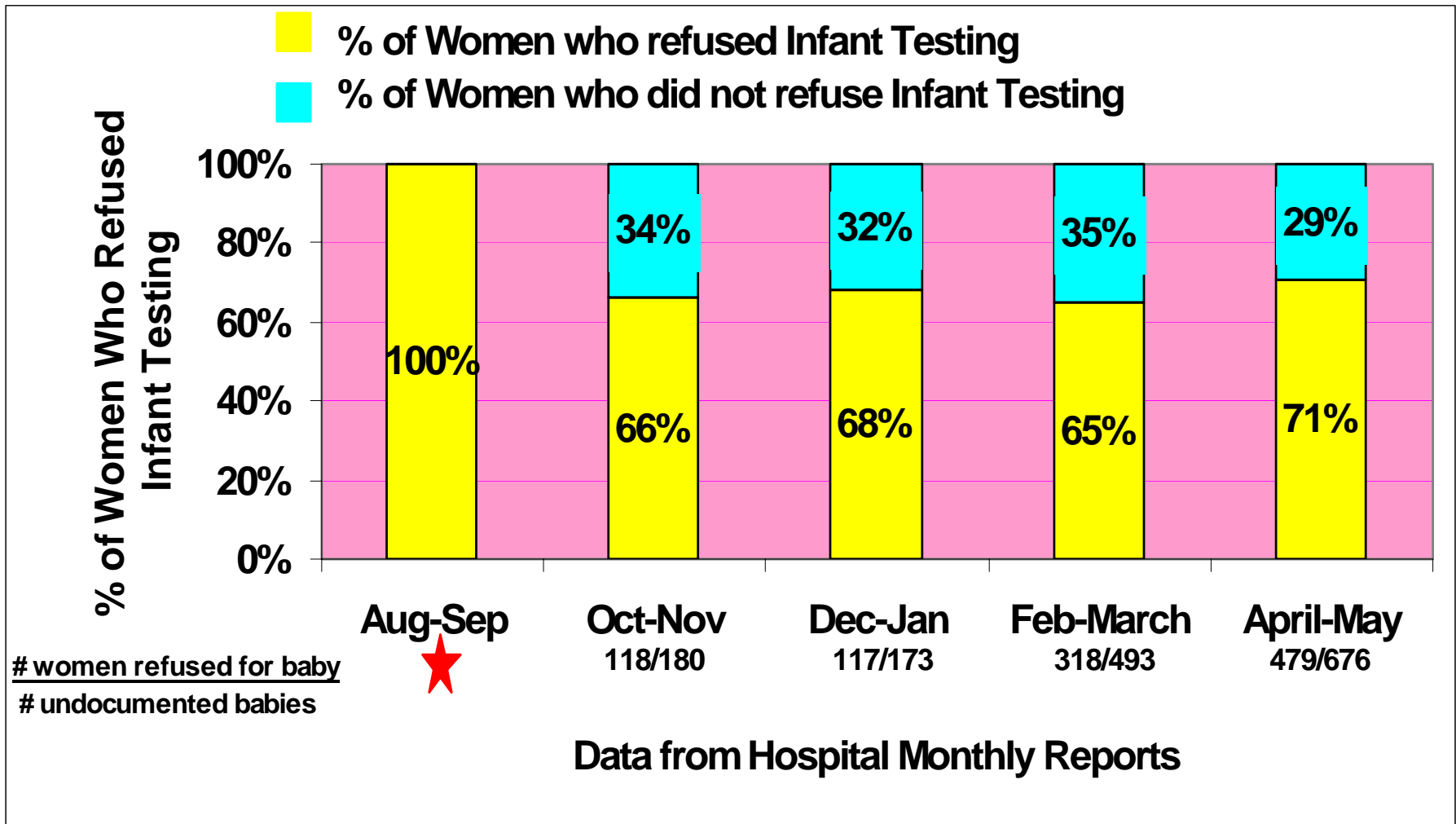
2918/18671

Data from Hospital Monthly Reports

Percent of Undocumented Women Rapidly Tested on L&D

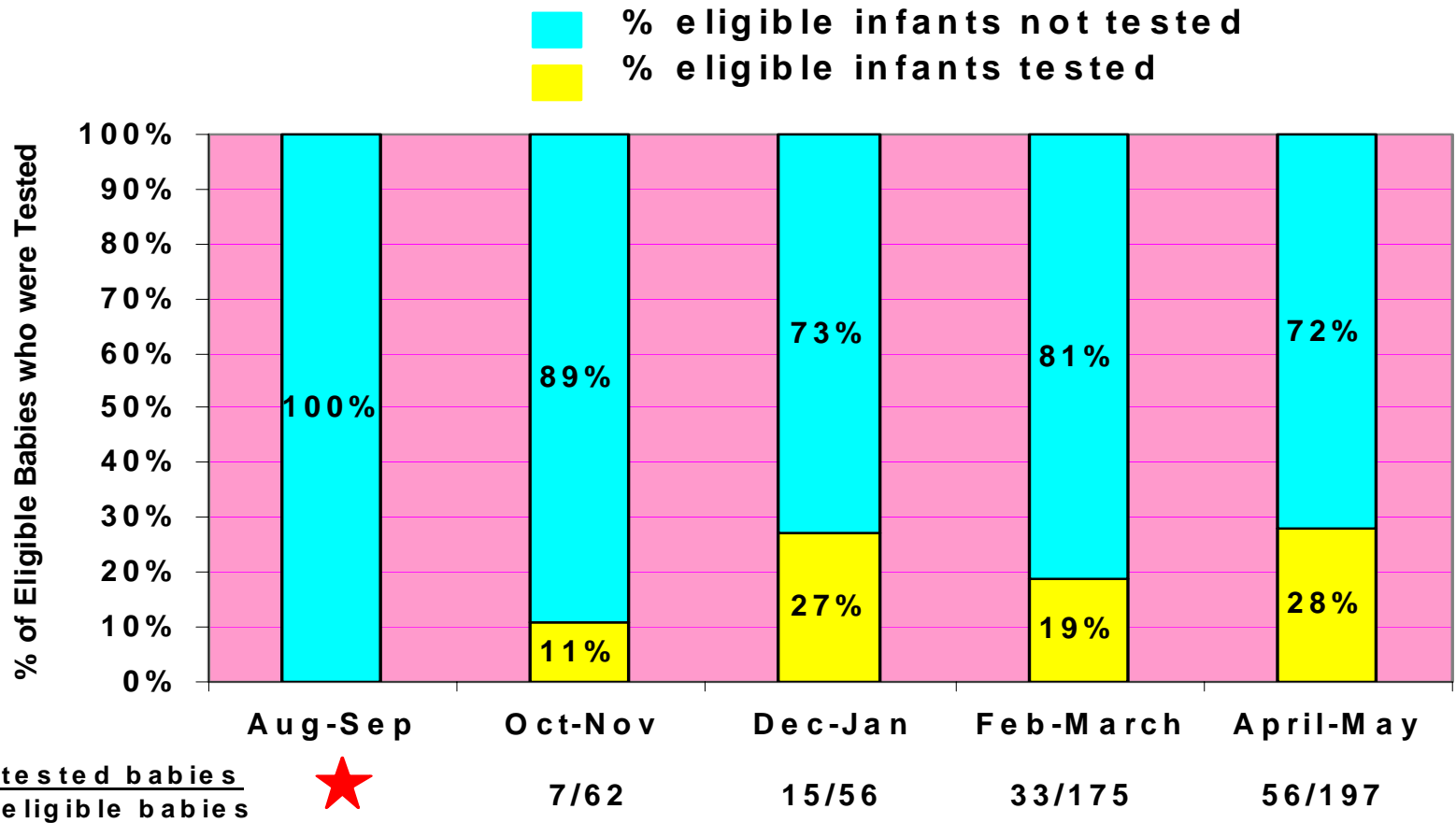


Mom's Refusing Testing for Newborns (Undocumented Maternal HIV Status)



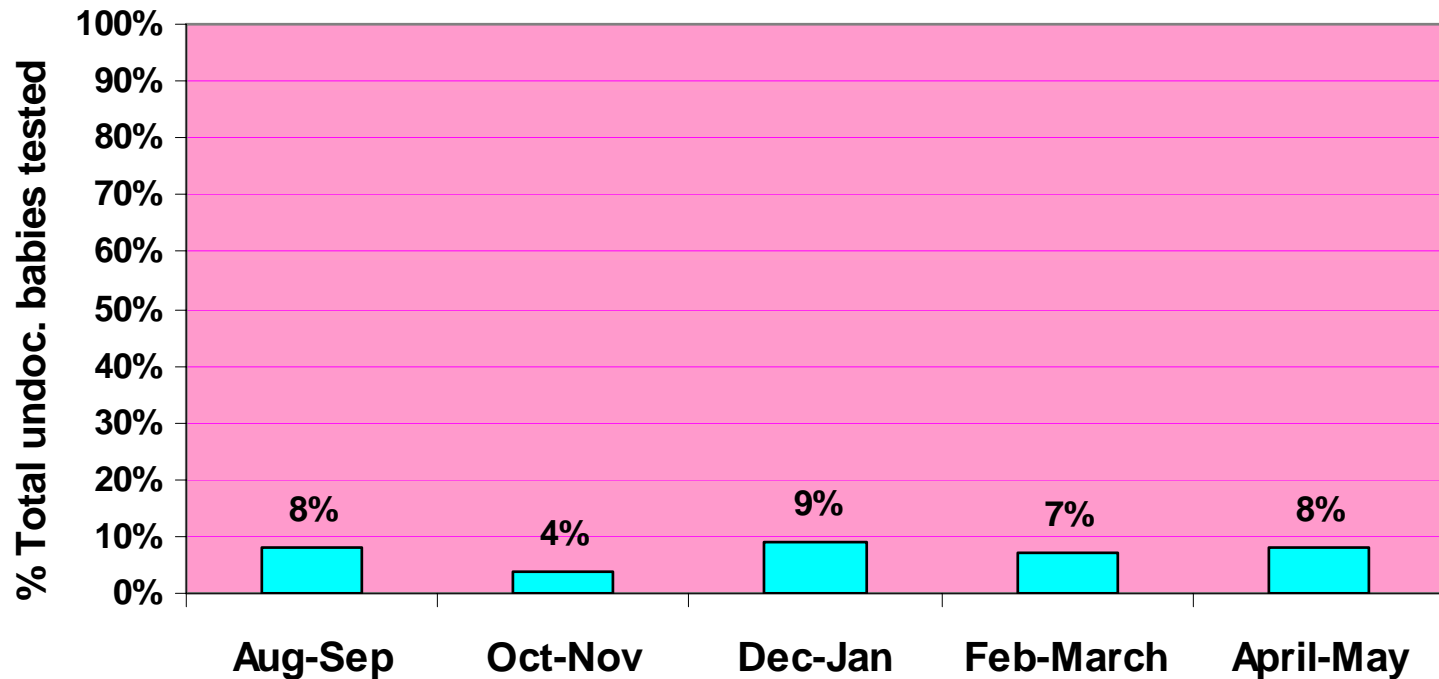
Eligible Newborns Tested

(no maternal HIV status, no mom refusal)



Data from Hospital Monthly Report

Percent Total Undocumented Newborns Tested



babies tested
undoc. babies

3/39

7/180

15/173

33/318

56/479

Data from Hospital Monthly Reports

Summary To Date Live Hospitals

Monthly Data Collection 10/04 – 5/05

(40,466 births)

- Documented HIV on L&D = 33,546 83%
- Accepted Rapid Testing = 4,968 72%
- **Total Women Knowing HIV Status pre-delivery**
 - prenatal tests + rapid tests 95%
- Undocumented Newborns = 1561 4%
- Moms Refused Infant Test = 1076 69%
- Eligible Newborns Tested = 114 24%
- **Total Undocumented Newborn Tested 7%**

Preliminary Positive Rapid Tests Summary as of 6/10/05

- 19 Preliminary Positive Tests

- 14 True Positive (5 False Positives)

- Test Preliminary Positive Rate

19 pp / 4,968 rapid tests = 0.4% PP

- **True Positive Rate**

14 true positives / 4,968 tests = 0.3% TP

- Chicago

- 10 prelim positive / 2 false positive = 20% FP

- Outside Chicago

- 9 prelim positive / 3 false positive = 30% FP

- Newborn PCR

- 1 positive, 10 negative, 3 unknown = **7% transmission**

Illinois Perinatal HIV Hotline

- 24/7 1-800 hotline
 - immediate assistance with clinical management, referral services, social services, case management and linkage to care for providers, and patients
- Recommend providers call for all positive rapid tests on L&D, all positive pregnant women not linked to specialized care
- 49 calls since spring 2004
- Perinatal Enhanced Case Managers are key

[Future Directions: PRTI² Year II]

- QA Follow-Up Visits all Birthing Hospitals
 - Focus on: documentation rates, testing rates, newborn testing rates, protocol /plan set for prelim positive, AZT available
- Link poor-performing hospitals to interventions
- Statewide surveillance / evaluation electronic database linked to IDPH
- Non-Birthing Hospitals RT Implementation
- Complete Hotline mapping of services for HIV + women / exposed newborns statewide

[Acknowledgments]

- PRTII Team
- IL Dept of Public Health
- IL State Perinatal Network System
- Staff of IL Birthing Hospitals