

Best Practices for HIV and STD Screening

Brigg Reilley
National HIV/AIDS Program/
IHS Division of Epidemiology & Disease Prevention
Albuquerque, NM



4 measures total

- Prenatal HIV Screening (GPRA)
- HIV Screening of 13-64 y.o.
- Chlamydia screening of sexually active 15-24 y.o. females annually
- HIV/STD screen for patients newly diagnosed with STD
- ALL 4 MEASURES BASED ON NATIONAL GUIDELINES/RECOMMENDATIONS

Measure 1

Prenatal HIV Screening

Prenatal HIV Screening Best Practices:

- HIV test automatically bundled into prenatal panel, not ordered separately
- No signed consent
- Opportunistic: test at first HCG+

PRENATAL CARE:

FIRST PN VISIT:

CBC
1 HOUR GLUCOLA
HIV (INFORMED REFUSAL)
U/A AND URINE C&S
URINE GC & CHLAMYDIA
PRENATAL PROFILE (QUEST #15191):
BLOOD TYPE
RH FACTOR
ANTIBODIES
RUBELLA TITER
RPR
HBsAg

Pap done at first Dr. PN

EVERY VISIT:

U/A only if sx

16-20 WEEKS:

OFFER Quad-Test (MAFP)

28 WEEKS:

CBC
RPR
IF RH (-): ANTIBODY SCREEN
1 HOUR GLUCOLA ***
URINE CULTURE ***
URINE GC & CHLAMYDIA ***

35-36 WEEKS:

GROUP B STREP VAGINAL/RECTAL SWAB

POSTPARTUM CHECK:

HCT
PAP SMEAR
URINE GC & CHLAMYDIA
HCG****

*** Send pt to lab prior to seeing provider

WOMEN'S HEALTH:

WOMEN'S EXAM AGE 23-39:

PAP SMEAR (schedule prn)
LIPID PROFILE q 5 YEARS
GC/CHLAMYDIA
CBC, RPR, GLUCOSE, HIV Q 2yrs

WOMEN'S EXAM AGE 40-49:

PAP SMEAR (schedule prn)
MAMMOGRAM REFERRAL (q 2 years)
LIPID PROFILE q 5 YEARS
GC/CHLAMYDIA
RPR, GLUCOSE, HIV Q 2 yrs

WOMEN'S EXAM AGE 50-64:

PAP SMEAR (schedule prn)
MAMMOGRAM REFERRAL
LIPID PROFILE q 5 YEARS
GC/CHLAMYDIA
RPR, GLUCOSE, HIV q 2 yrs

WOMEN'S EXAM AGE 65+:

MAMMOGRAM REFERRAL
LIPID PROFILE q 5 YEARS
GLUCOSE

MEN'S HEALTH:

MEN'S EXAM AGE 23-39:

LIPID PROFILE q 5 YEARS
GC/CHLAMYDIA
RPR, GLUCOSE, HIV Q 2 yrs

MEN'S EXAM AGE 40-49:

LIPID PROFILE q 5 YEARS
GC/CHLAMYDIA
RPR, GLUCOSE, HIV Q 2 yrs

MEN'S EXAM AGE 50-64:

LIPID PROFILE q 5 YEARS
GC/CHLAMYDIA
RPR, GLUCOSE, HIV Q 2yrs

MEN'S EXAM AGE 65+:

LIPID PROFILE q 5 YEARS
GLUCOSE

WELL CHILD CHECKS:

10-14 DAYS:

PKU

9-15 MONTHS OLD:

HCT
Lead Screen (at 1 and < 2 yrs)

HEADSTART PHYSICAL:

HCT

SPORTS AND ADOLESCENT PHYSICAL

EXAMS:

GC/CHLAMYDIA
RPR, HIV if over age 13yrs

DIABETES:

INITIAL VISIT AND ANNUALLY:

U/A, URINE MICROALBUMIN
CMP
LIPID PROFILE (Fasting preferable)
HEMOGLOBIN A1C ***
EKG (q 2 yrs)
CBC (only on Initial visit)

EACH VISIT q 3 MONTHS:

HEMOGLOBIN A1C ***

ACUTE ALCOHOL WITHDRAWAL

/ REHAB PX:

CMP (STAT)
Mg++ (STAT)
LIVER PROFILE (ASAP)
AMYLASE/LIPASE (ASAP)
U/A, HCG (ASAP)

ANNUAL:

HEPATITIS PANEL,
RPR, HIV
GC/CHLAMYDIA
PPD

*** Send pt to lab prior to seeing provider

Measure 2

HIV Screening of 13-64 y.o.

New CDC Testing Recommendations

Fall, 2006

- Screen all persons ages 13-64 routinely
- “Routine” is relative: each year/each visit for high-risk, less frequently for low-risk
- Repeat testing “based on clinical judgment”
- ‘once in a lifetime’ screen, although some sites have chosen a 5 year screening interval

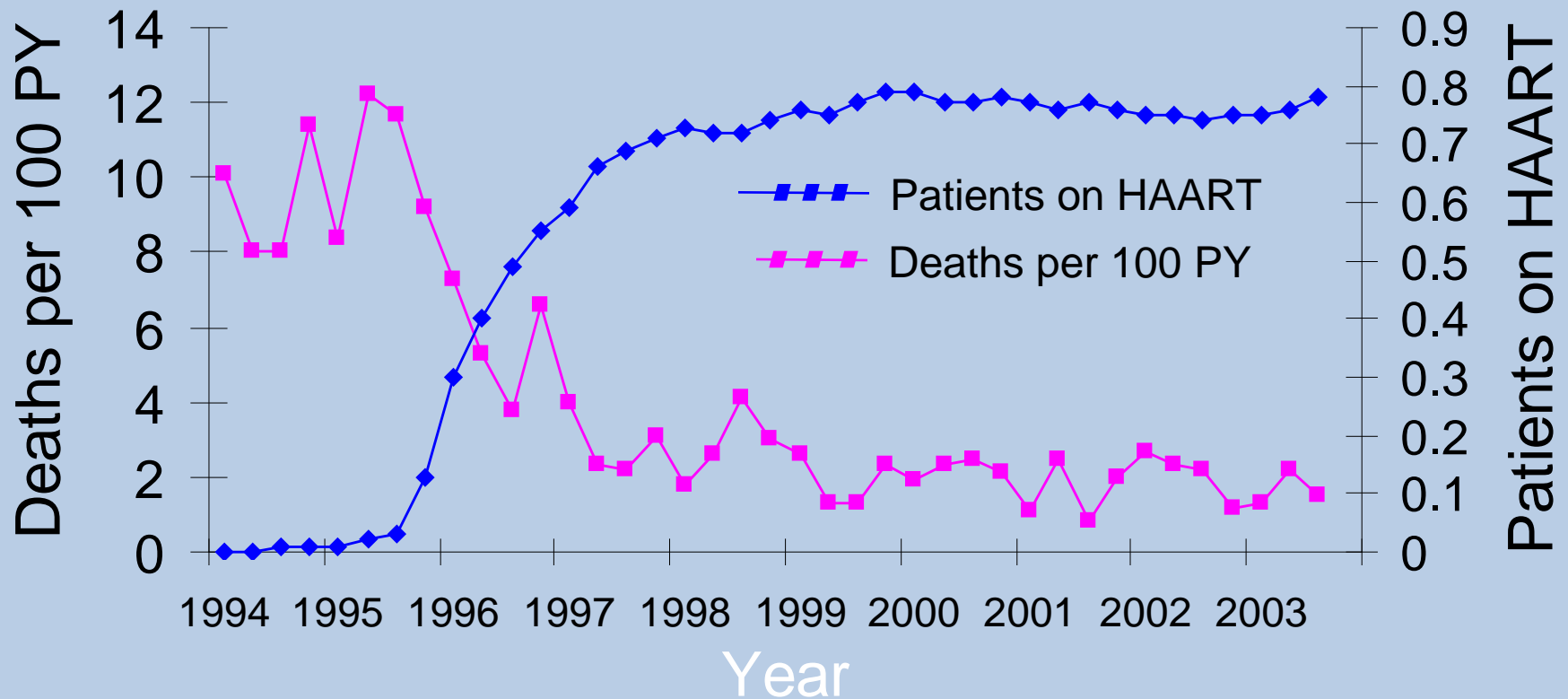
CDC Screening Rationale

- HIV is a serious disorder that can be diagnosed before symptoms develop
- HIV can be detected by reliable, inexpensive, and noninvasive screening tests
- Infected patients have years of life to gain if treatment is initiated early, before symptoms develop
- The costs of screening are reasonable in relation to the anticipated benefits

HIV Screening: More and More Widespread

- Initially, entirely risk-factor based
- Gradually, screening increased with success and new medical interventions
 - 1985 donated blood
 - 2001 pregnant women

1. Treatment Is Effective



Mortality and HAART Use Over Time
HIV Outpatient Study, CDC, 1994-2003

2. Important Benefits for Prevention

After people become aware they are HIV-positive, the prevalence of high-risk sexual behavior is reduced substantially.

Reduction in Unprotected Intercourse with HIV-neg partners:
HIV-pos Aware vs. HIV-pos Unaware

68%

Meta-analysis of high-risk sexual behavior in persons aware and unaware they are infected with HIV in the U.S.

Marks G, et al. JAIDS. 2005;39:446

Screening: HIV vs Cervical Cancer

	HIV	Cervical CA
Annual new cases	56,300	11,270
Deaths	15,564	4,070

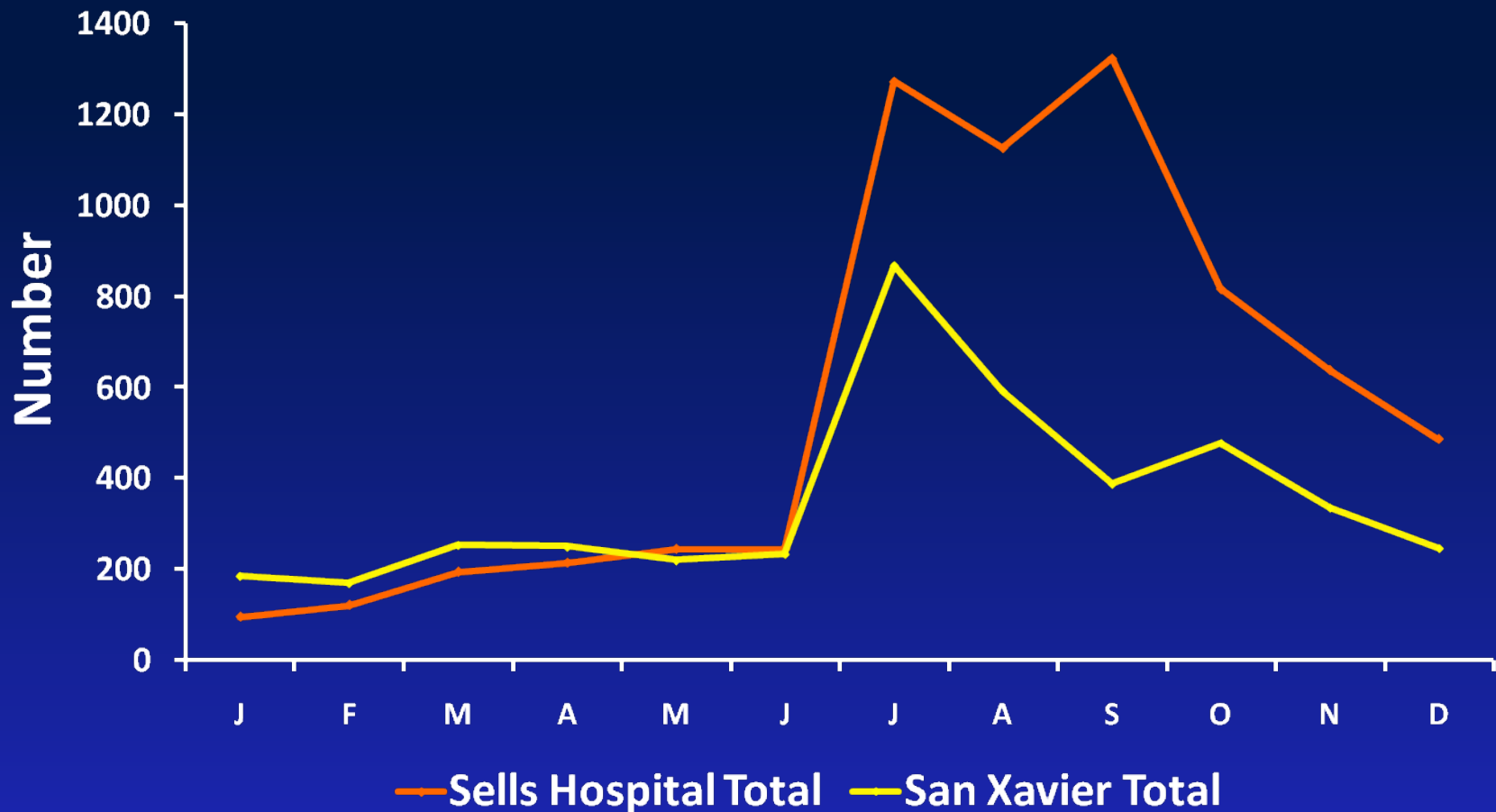
Missed Opportunities: South Carolina

- 4,315 reported HIV cases
 - 3,157 (73%) made 20,271 health-care visits prior to their first positive HIV test
 - Diagnosis codes at 15,648 (77%) of prior visits would not have prompted an HIV test

Case Study: Tucson

- Service Unit in Area with syphilis outbreak
- One clinic, one hospital

Sells Service Unit STD/HIV Tests per Month 2007



Outcomes: HCW Interviews

- Interviews with health care workers
 - 88% said patient acceptance high or very high
 - 61% said new testing policy added negligible time to overall consults
 - 93% said wider testing policy should continue indefinitely

Lessons Learned from Tucson:

Planning

- Have clear policy and 'go to' date to start new testing policy
- Offer counseling training/CME to nurses/MDs
- Have clear protocol for patient follow up, including linkages to medical/social services as needed

Lessons Learned from Tucson: Rollout

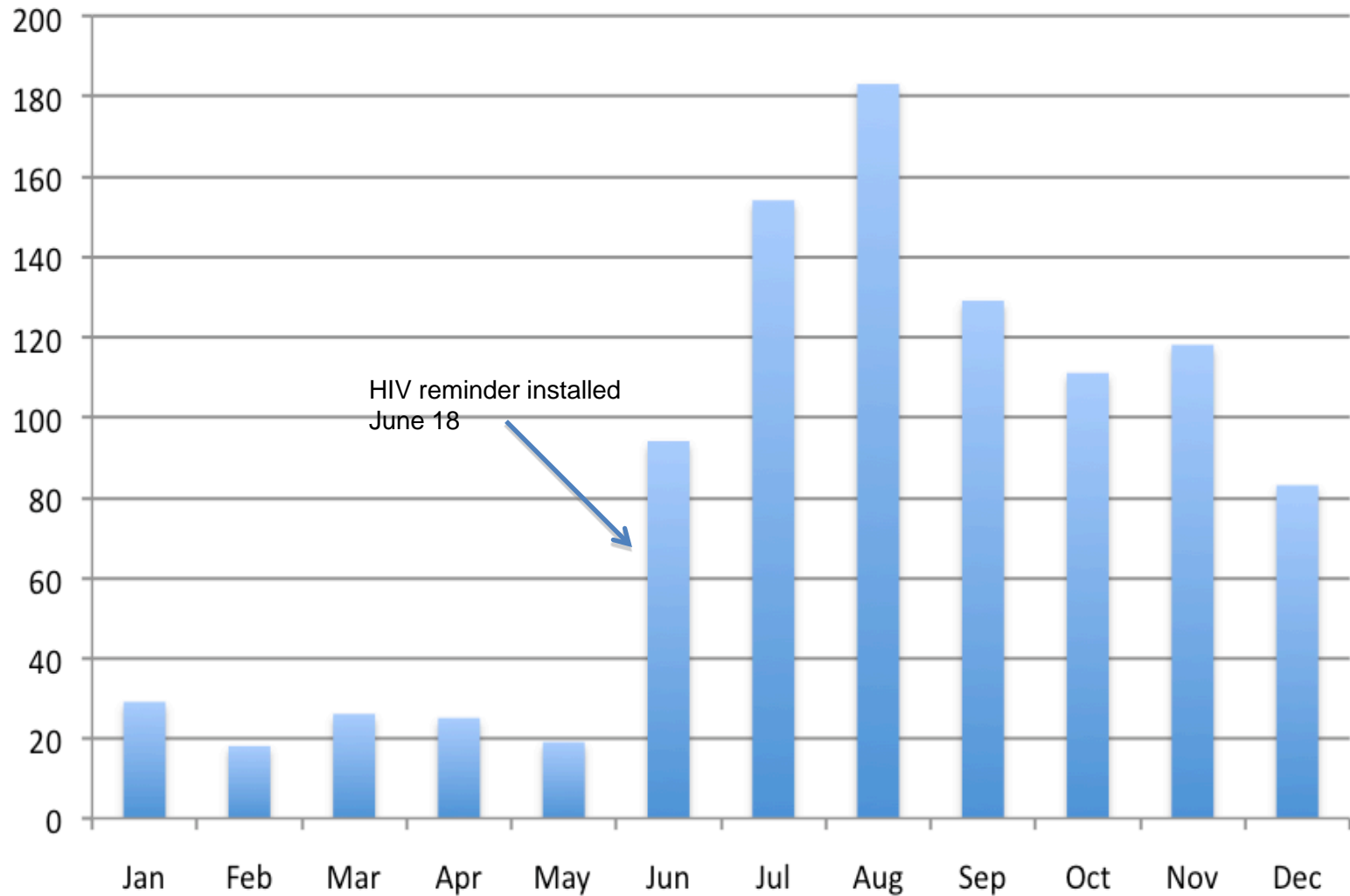
- Integrate HIV and STD testing
- Need private area to offer testing
- Enable one-step testing in EHR/PCC
- Division of labor (Nurse, MD, lab) as appropriate
- Ongoing challenge to offer testing in Emergency Room or specialty clinics

Main tools to identify persons eligible for screening

- Standing orders
- Clinical reminders
- Other (provider orientation, telephone triage nurse)

Once patient is identified, clear responsibility for who should order screening test

HIV Tests, Warm Springs Clinic, 2010



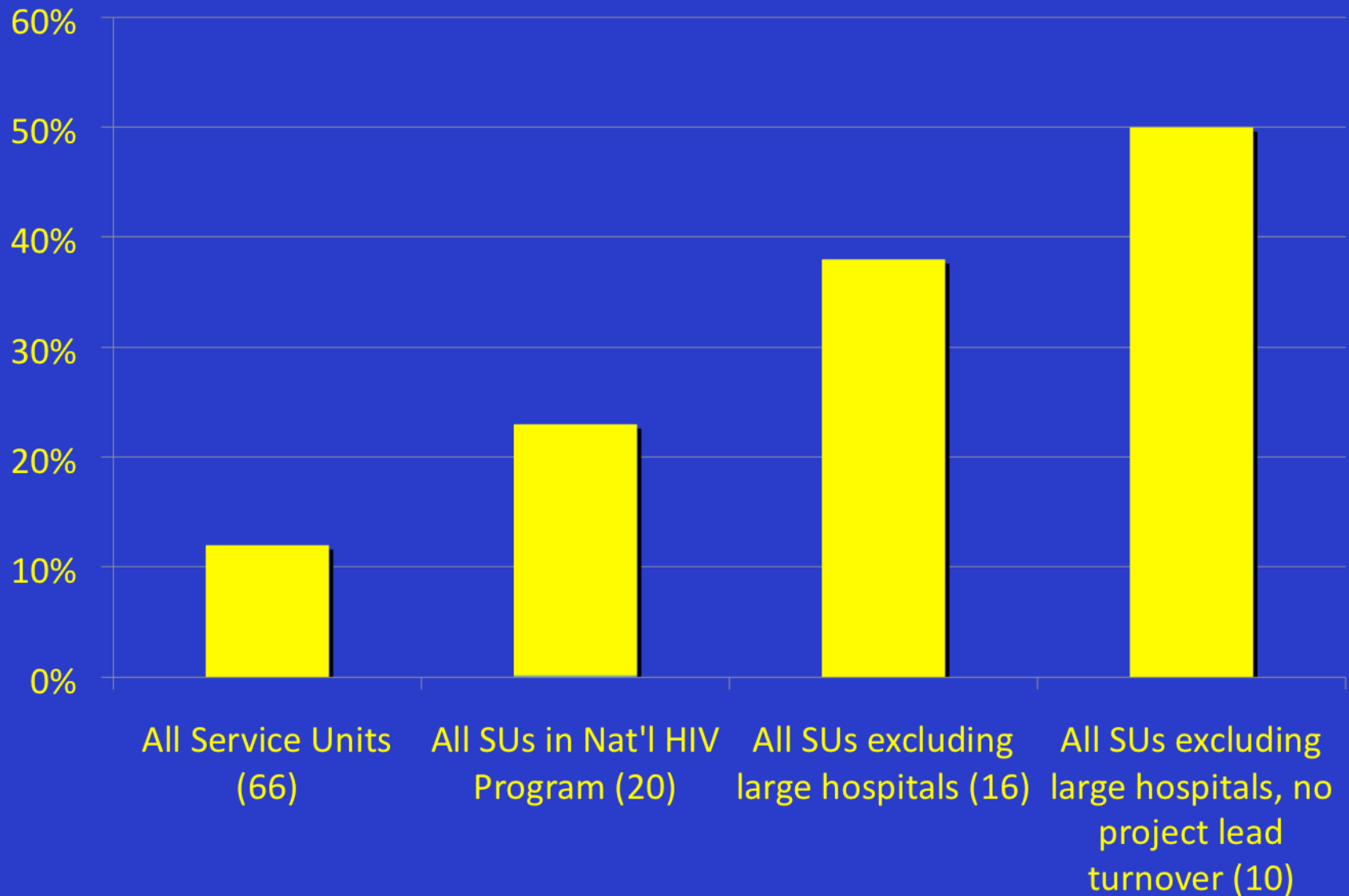
Need support? National HIV/AIDS program (1 of 2)

- Funding
- Guidance on local decisions for each SU: age range, include STD test, follow up HIV+ protocol, others
- Remote audit to check accuracy of individual SU screening scores according to CRS/GPRA

Need Support? (2 of 2)

- Regional AIDS Education & Training centers come to SUs, provide CMEs
- Links to others in IHS who have implemented wider HIV screening
- Links to telemedicine/clinical support

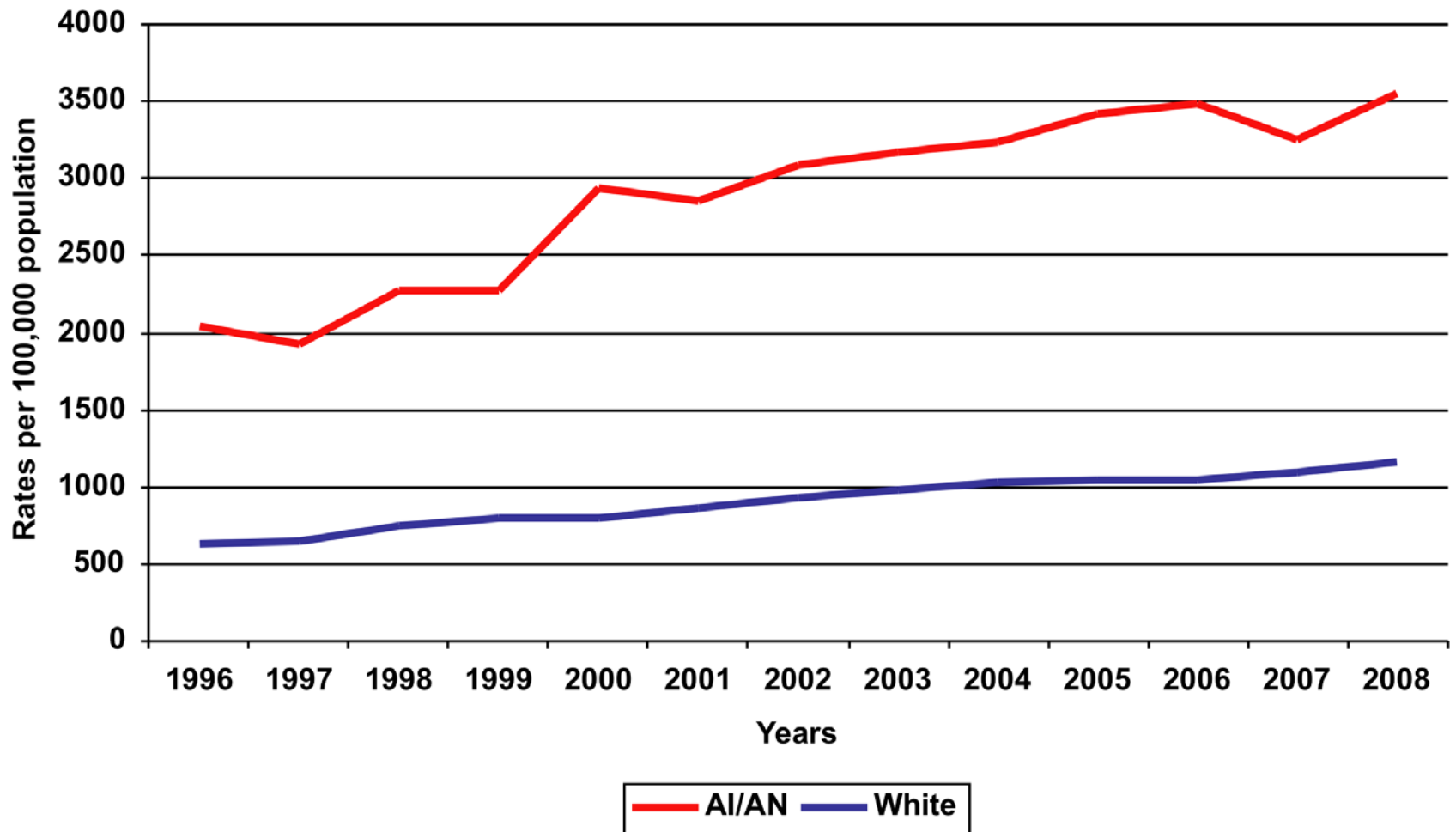
HIV Screening Increase, 2009-2010, Federal Sites



Measure 3

Annual Chlamydia Trachomatis (CT)
Screening among sexually active
women ages 15-24

Chlamydia rates for women 15-24 years old by race, 1996-2008



Chlamydia screening—site audit

- Overall screening rate about 40%
- Most women overdue for CT screen had several medical visits but were not screened
- Missed opportunity medical visits included urinalysis, pregnancy test, family planning, or vaccination

Chlamydia Screening Best Practices

- Clinical reminder/standing order in EHR if >1 since test
- Bundled with family planning, annual checkup, or other visit
- Bundle with all pregnancy tests, screen women in age range in ER for next 6 months

Measure 4

HIV/STD screen of patients with STD

HIV/STD screen of STD patients

- If patient diagnosed with HIV, chlamydia, gonorrhea, syphilis, patient should be tested for the other 3 conditions within 60 days
- Syphilis might not be applicable for all sites

STI Screening-Site Audit

- Overall national STI screening rate under 50%
- Most non-screened STD patients were
 - Females with chlamydia (>90%)
 - Not screened for HIV and syphilis (>90%)
- Complete screening significantly higher in prenatal patients

Best Practices

- EHR clinical reminders or standing orders:
 - Follow up chlamydia dx with HIV/syphilis test
 - Reminder for STD screen linked to prescription of 1 gram azithromycin

Other tools

- Test of Cure follow up due to high rates of re-infection
 - Expedited Partner Therapy

Reminders



Reminder Challenges

- Inaccurate
- Too many
- Inflexible

A poorly deployed reminder undermines confidence in all reminders, “car alarm syndrome”

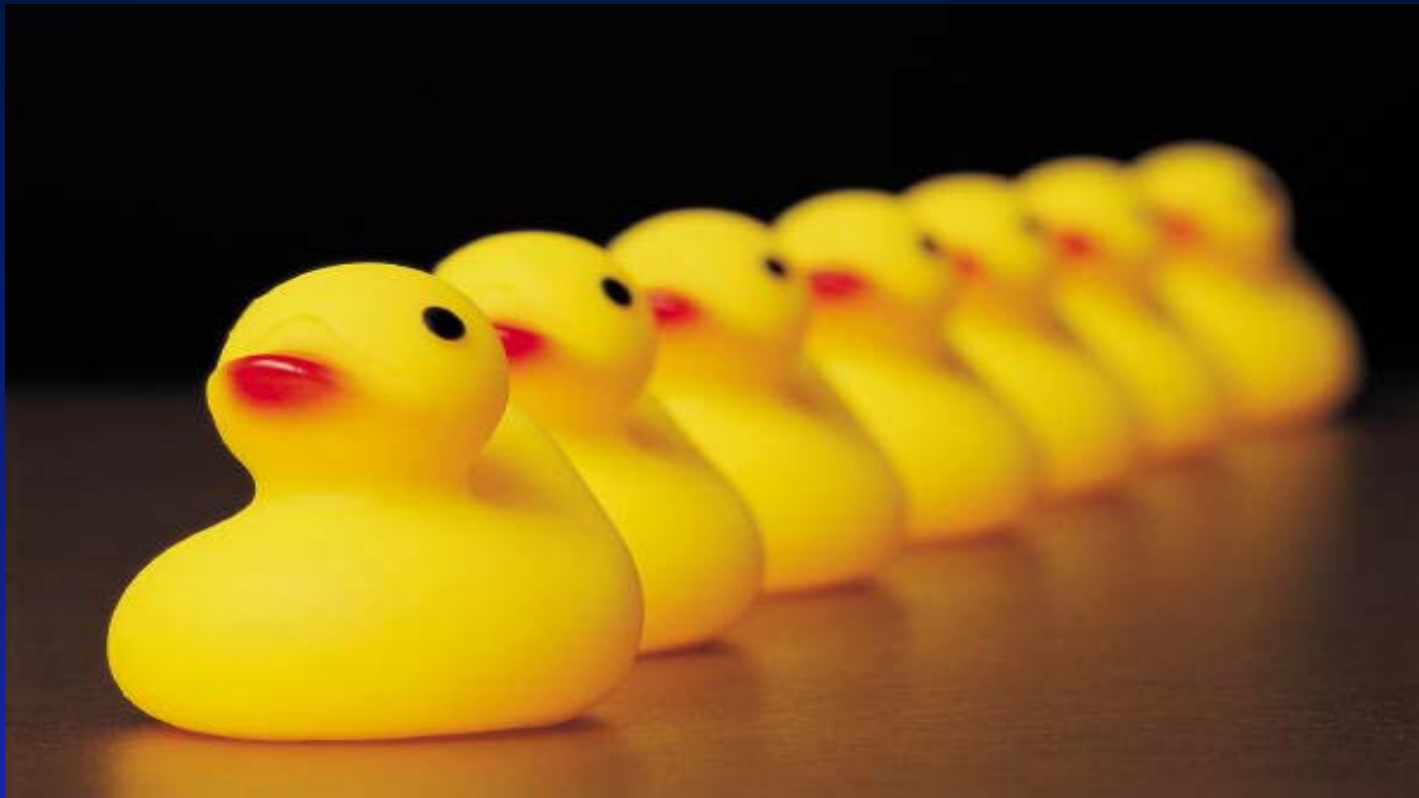
Deploying Reminders (AK site method)

- 1) Pilot test and refine with 1-2 doctors
- 2) Deploy reminder with all physicians
- 3) Allow doctors to see screening scores (iCare)
- 4) Engage nurses, NAs, pharmacists, etc. as much as possible to delegate screenings away from physicians
- 5) Each professional sees a subset of total reminder that they alone are responsible for

National Reminders available in next patch:

- HIV screening
- Chlamydia Screening

Wrap Up



IHS Vacancies

Profession	Federally Funded Health Centers (Rural)(2004)	IHS Vacancy Rate (1/2010)
Nurse	9%	16%
Family Practice Physician	15.7%	21%
Pharmacist	16.6%	11%

Step 1: Know your numbers

- Most sites had no idea of their screening score
- Apart from Prenatal HIV Screening, most sites don't know measures exist

Step 2: understand your numbers

- Identification and audit of 20-30 non-screened patients using will find systemic gaps, and takes only a couple hours
- If you don't have the support to identify and audit charts, contact me and I will do it for you remotely

Step 3: Improve Screening

Identify and screen appropriate patients using:

- Standing orders
- Clinical Reminders
- Provider Orientation
- Telephone triage nurse