

# Integrating Health Information Technology with Clinical Practice:

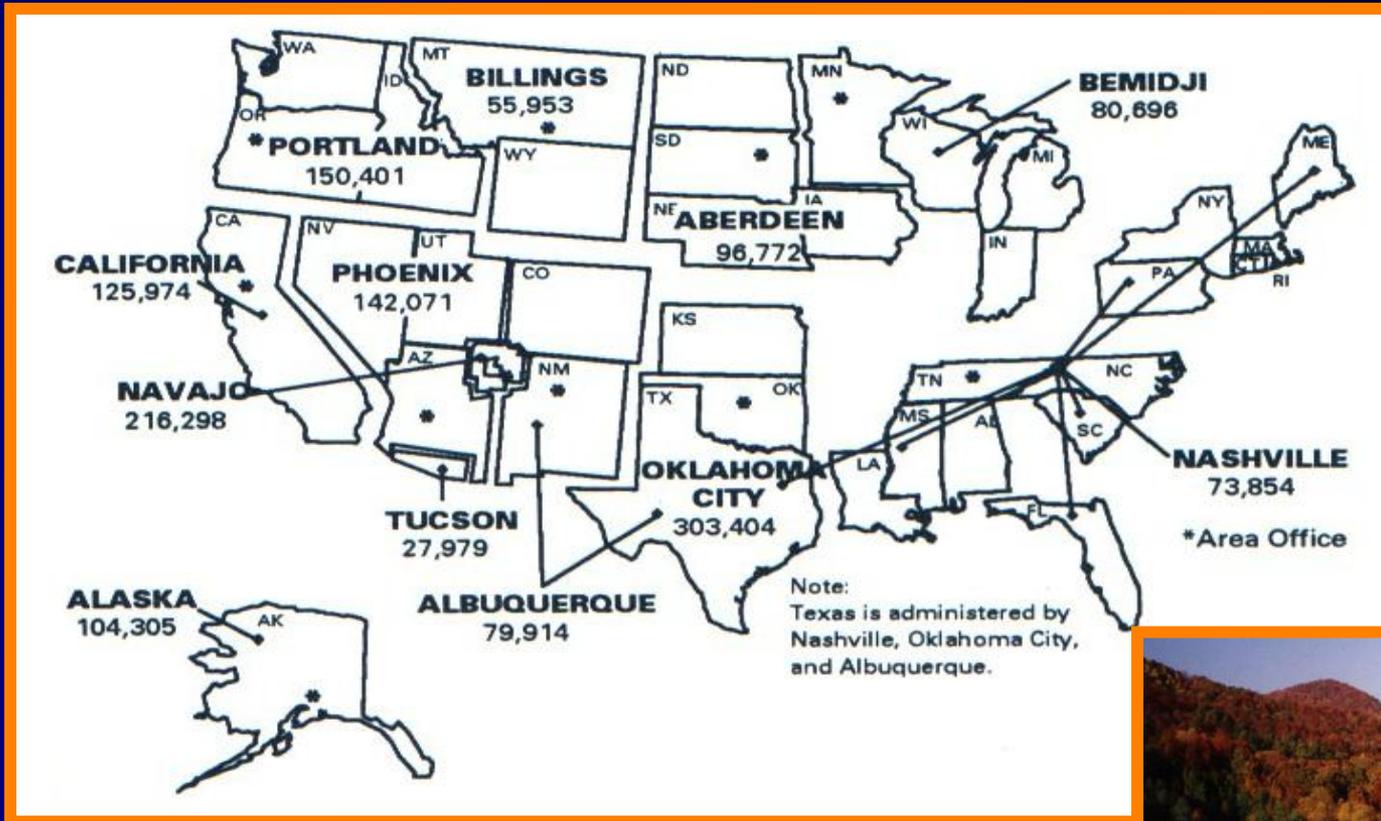
## Documenting Tobacco Cessation Interventions

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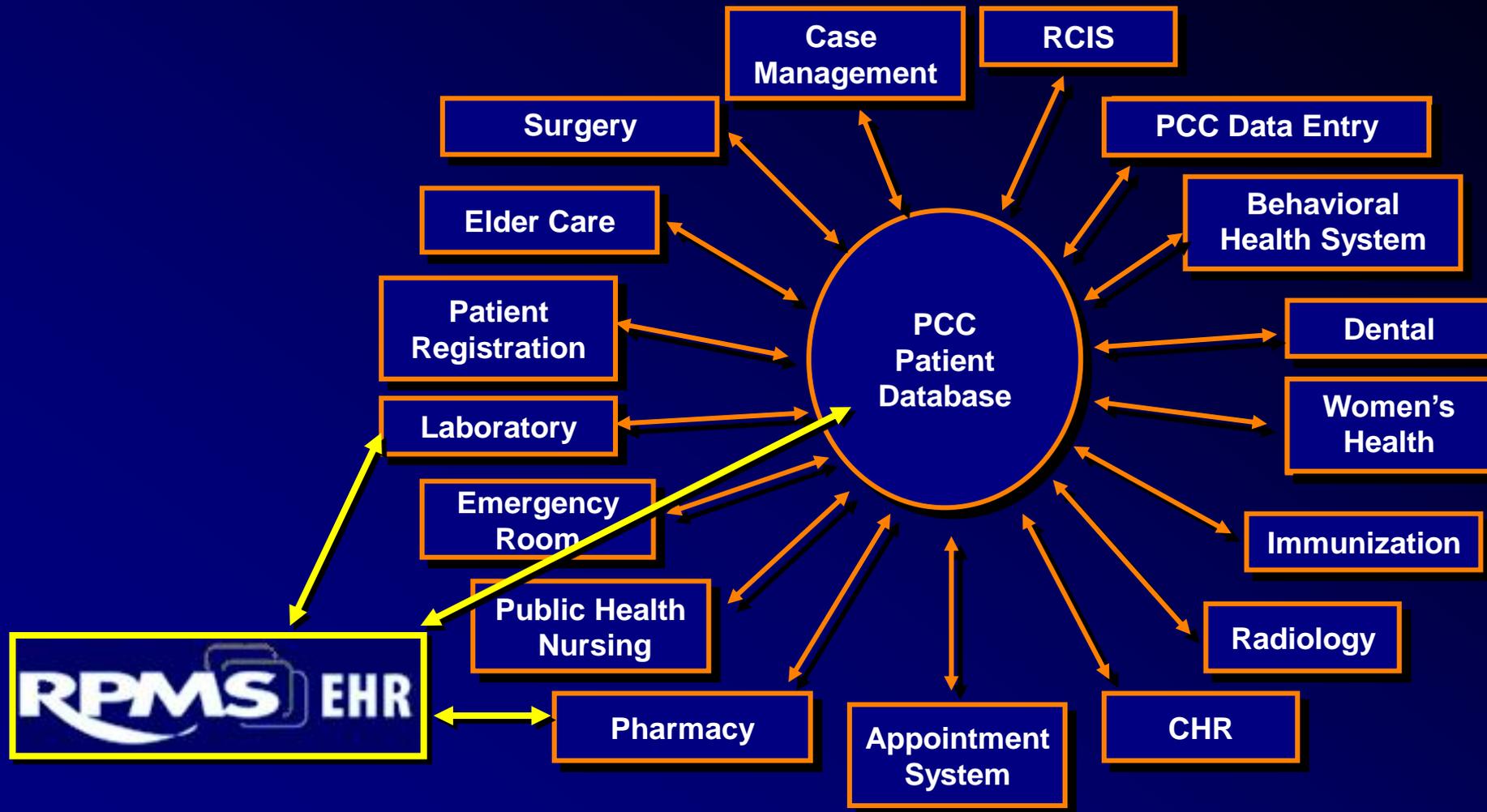
Patient Safety and Health Information Technology  
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# Indian Health Service



# Resource Patient Management System



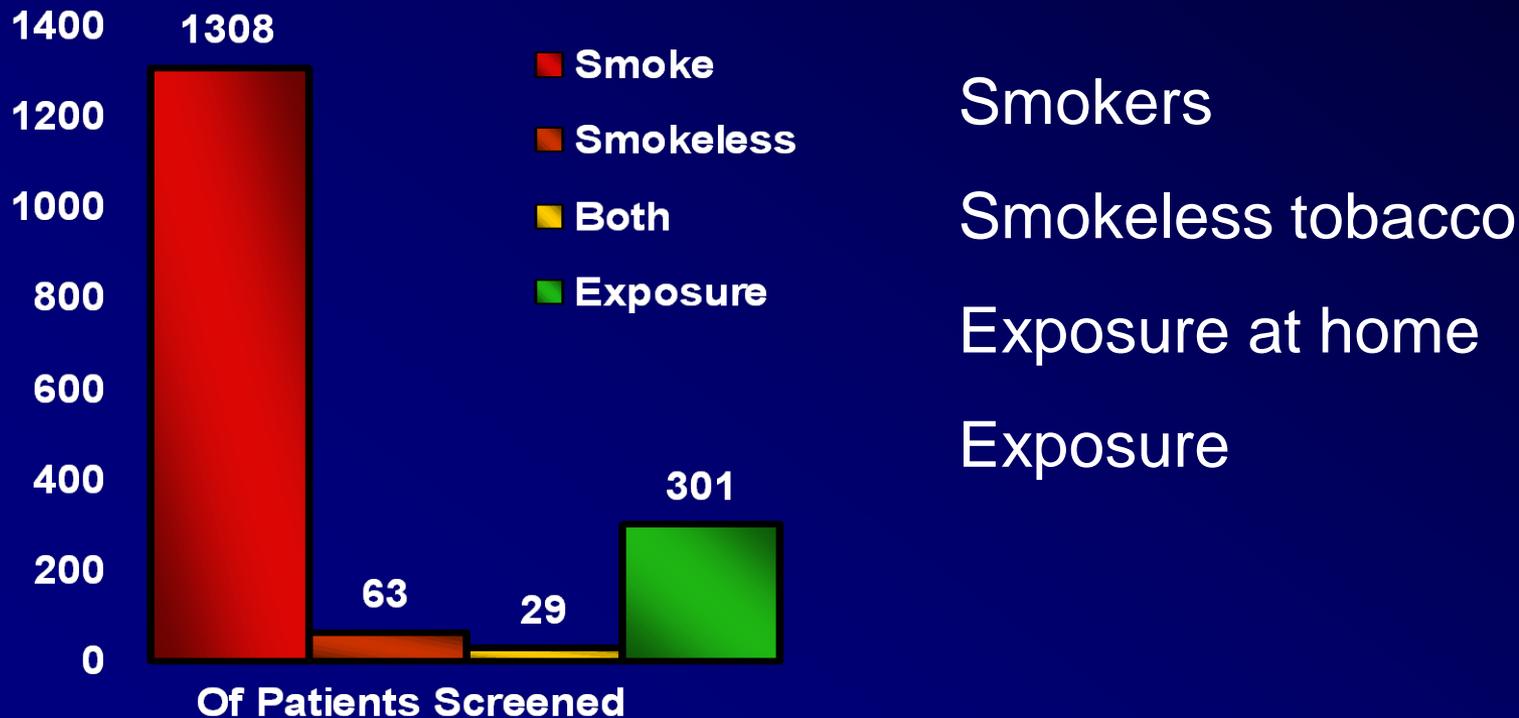
# Documentation Tools

- Use of the Electronic Health Record enables the documentation and data capture of tobacco related data:
  - Screening (Health Factors)
  - Patient Education
  - Referral Management
  - Billing Information



# Screening (Health Factors)

- Standardized tools enable local and national level targeting of tobacco cessation efforts through documentation and data retrieval.





**Abner, Stephanie Michelle**  
125508 08-Nov-1947 (58) F

**GENERAL 10-Apr-2006 14:05**  
LAMER, CHRISTOPHER CLAYTON

Primary Care Team Unassigned

Postings **A**

Notifications Patient Encounters

### Add Health Factor

Items

- [-] TB STATUS
- [-] TOBACCO
  - CEREMONIAL USE ONLY
  - CESSATION-SMOKELESS
  - CESSATION-SMOKER
  - CURRENT SMOKELESS
  - CURRENT SMOKER**
  - CURRENT SMOKER & SMOKELESS
  - EXPOSURE TO ENVIRONMENTAL TOBACCO SMOKE
  - NON-TOBACCO USER
  - PREVIOUS SMOKELESS
  - PREVIOUS SMOKER
  - SMOKE FREE HOME
  - SMOKER IN HOME

Comment:

**Visit Information**

Encounter Overview  
Problem List/POV  
Services

**Triage / Screening**

Vitals and Measurements  
[Wellness](#)

**Ordered Items**

Orders  
Medication Mgt  
Lab Results  
Reports

**Websites**

Clinical Sites  
ADR Reporting

**Triage / Screening**

Patient	Provider	Length	Type
	LAMER, CHRISTOPHER CLAYTON		Indiv
	WOLFE, ROBIN	15	Indiv
	WOLFE, ROBIN	2	Indiv
	WOLFE, ROBIN	3	Indiv
	LAMER, CHRISTOPHER CLAYTON		Indiv
	WOLFE, ROBIN		Indiv
	WOLFE, ROBIN		Indiv

**Vaccinations:**

Vaccine	Visit Date	Age@Visit	Location	Reaction	Volume	Inj. Site
Td-ADULT	11/27/1994	47 yrs	Cherokee Indian Hosp			

**Health Factors:**

Visit Date	Health Factor	Category	Co
06/01/2004	Current Smoker	Tobacco	
11/30/2001	Current Smoker	Tobacco	
08/17/2001	Current Smoker	Tobacco	
07/27/2001	Current Smoker	Tobacco	
04/06/2006	Readiness To Learn-not Ready	Readiness	

# Patient Education

- **TO-QT QUIT**

- **OUTCOME:** The patient/family will understand that smoking is a serious threat to their health, that they have been advised by health professionals to quit, and how participation in a support program may prevent relapse.

- **STANDARDS:**

- 1. Discuss the importance of quitting tobacco use now and completely.
    - 2. Establish a quit date and plan of care.
    - 3. Review the treatment and support options available to the patient/family.
    - 4. Review the value of close F/U and support during the first months of cessation.



# Referral Management

- Electronically manage referral services to tobacco cessation programs - referral, scheduling, and completion
  - 102 patients referred to the tobacco cessation clinic.
  - 31 patients attended one out of five tobacco cessation programs provided at the hospital.
- Quit rate from the program = 32%
  - The advice of a physician alone can improve the smoking cessation rate to 10.2 percent.\*
  - The combined use of nicotine replacement, bupropion, and social or behavioral support can increase the quit rate to 35 percent.\*
- Quit rate sustained by a majority of patients



# Billing Tools

- Integrated RPMS Billing Package
  - Medical insurance agencies billed for 22 visits.
    - The hospital received reimbursement for a majority of billable services
  - Tobacco cessation medication costs were calculated for 31 respondents.
- Reimbursement - Medication Costs = Positive cash flow
  - *plus* Staffing/Overhead
  - *minus* Costs savings of preventing long-term negative outcomes resulting from tobacco use.



# National Measures

- Clinical Reporting System (CRS)

## TOTAL ACTIVE CLINICAL POPULATION

### Age Distribution

5-13 14-17 18-24 25-44 45-64 65 +

## CURRENT REPORT PERIOD

# Active Clinical	1,187	619	905	2,207	1,744	623
# Tobacco Screening	496	347	611	1,568	1,424	503
% w/Tobacco Screening	41.8	56.1	67.5	71.0	81.7	80.7
# Tobacco Users	17	56	233	650	549	120
% Tobacco Users w/ % of Total Screened	3.4	16.1	38.1	41.5	38.6	23.9
# Smokers	15	51	223	588	508	98
% Smokers w/ % of Total Tobacco Users	88.2	91.1	95.7	90.5	92.5	81.7



# Conclusion

- Integrating health information technology with clinical practice enhances clinical outcomes and promotes public health through:
  - End user ease of use and improved data capture (health factors, patient education)
  - Improved communication (consults)
  - System integration and Retrievability of data

