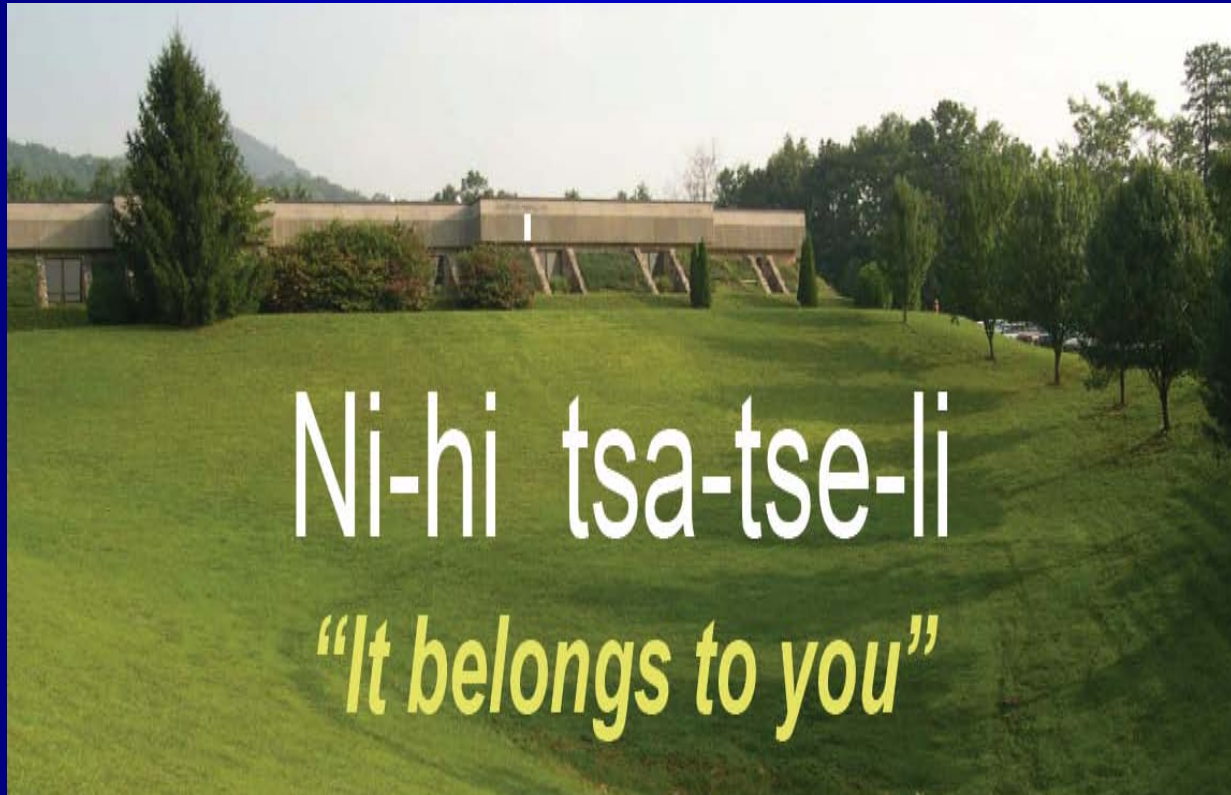


Cherokee Indian Hospital

Cherokee, North Carolina



Ni-hi tsa-tse-li

"It belongs to you"



Cherokee Indian Hospital

Cherokee Indian Hospital

Primary medical home for majority of the over 14,000 members of the Eastern Band of Cherokee Nation

- 16,966 primary care visits/yr
- 19,656 ER visits/yr
- 20-bed inpatient unit
- 156,000 prescriptions filled/yr
- Ancillary services
- Satellite clinics
- Specialty clinics



Cherokee Indian Hospital

Cherokee Indian Hospital

Contract Health Services - Regional Impact:
\$15,000,000 billed specialty-care services
outside of the facility, most of it spent
directly in WNC



Cherokee Indian Hospital

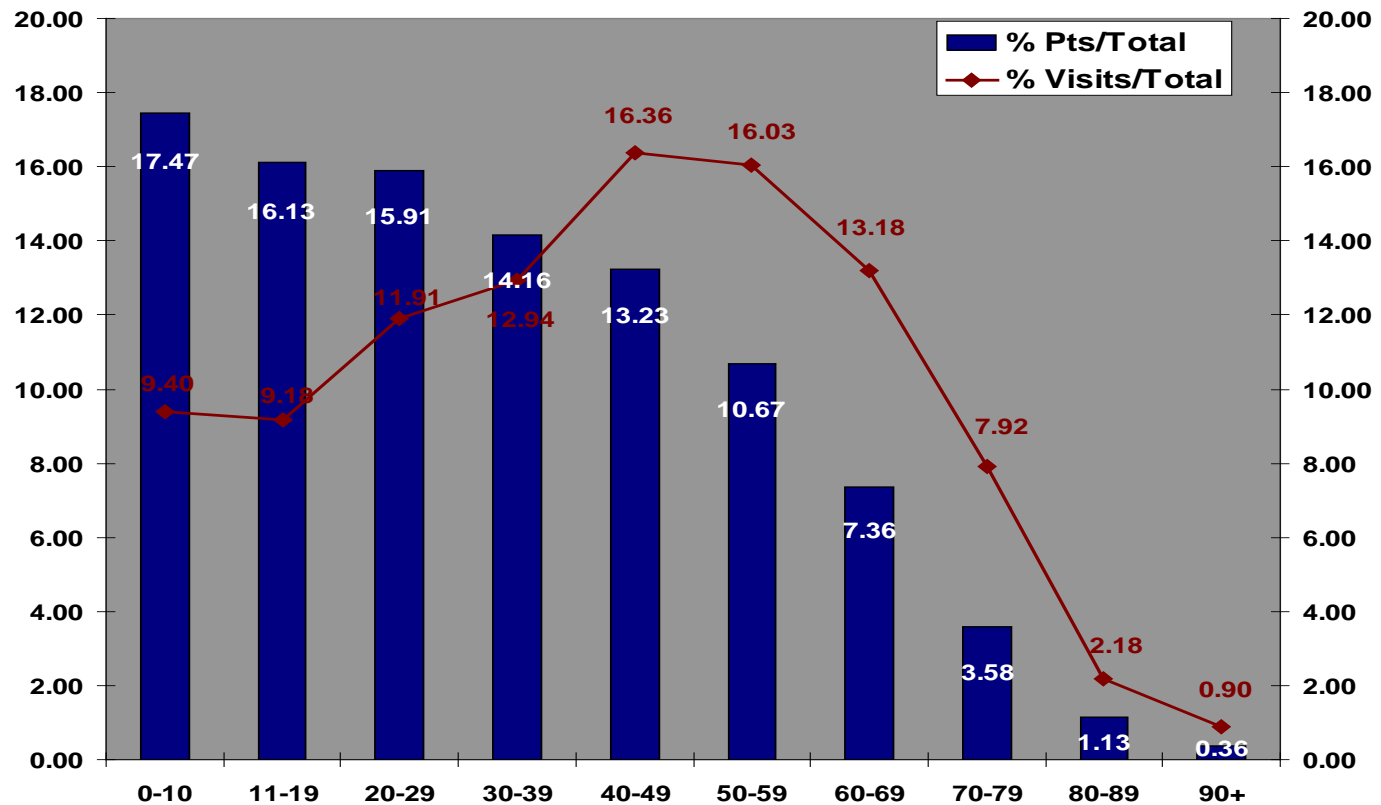
- Diabetes, CVD complications, cancer, obesity, substance abuse and depression are our major health issues
- Use data to define and track our population, disease trends, clinical and administrative outcomes
- Set organizational performance measures annually, and staff are held accountable at the individual performance management level



Enrolled Members of the Eastern Band of Cherokee Indians = 14, 051

(January 2008 Tribal Enrollment Office Data)

Percentage of Patients and Visits Per Age Group
User Pop FY05 - FY08
[Total Patients = 11496]



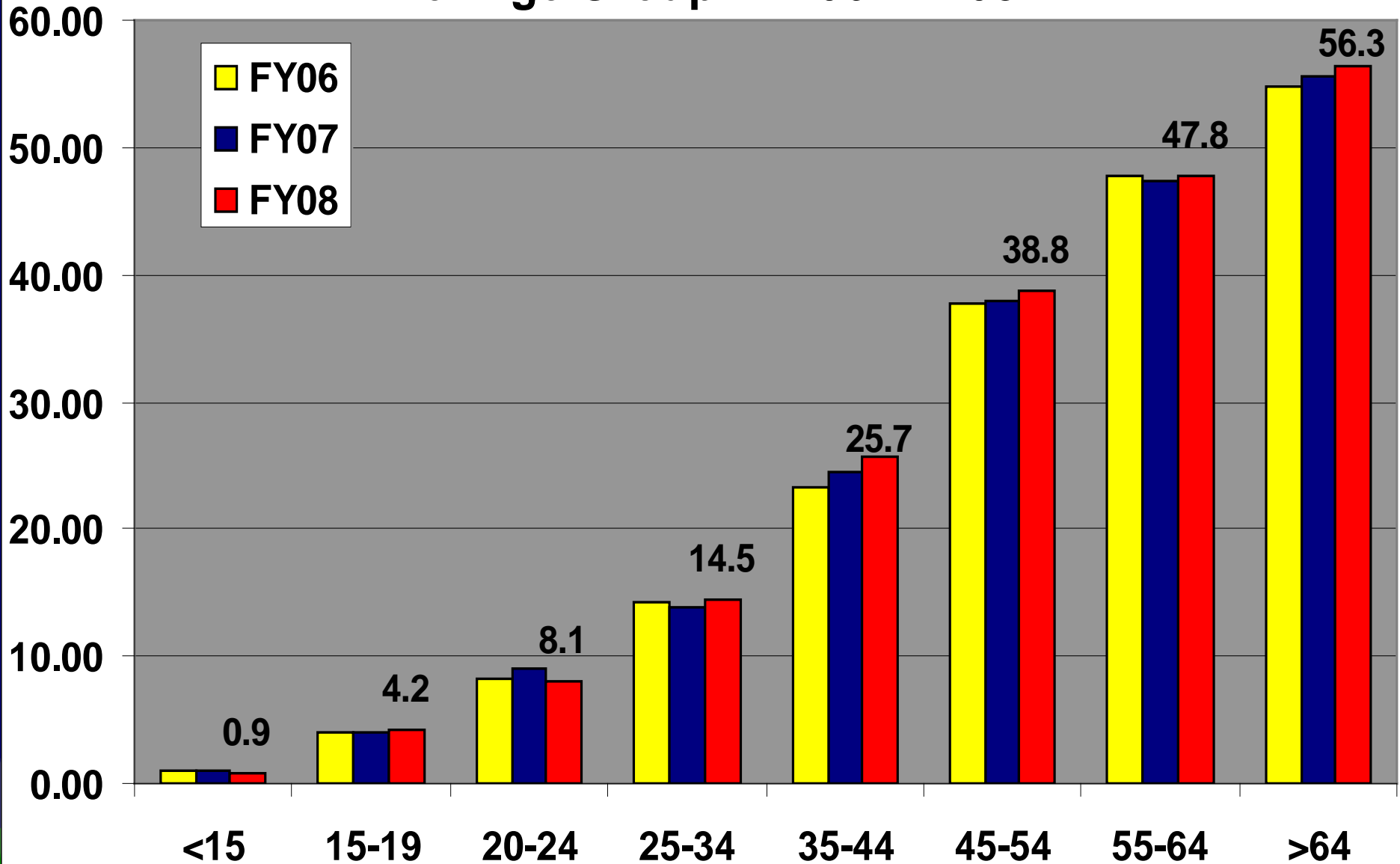
Cherokee Indian Hospital





Cherokee Indian Hospital

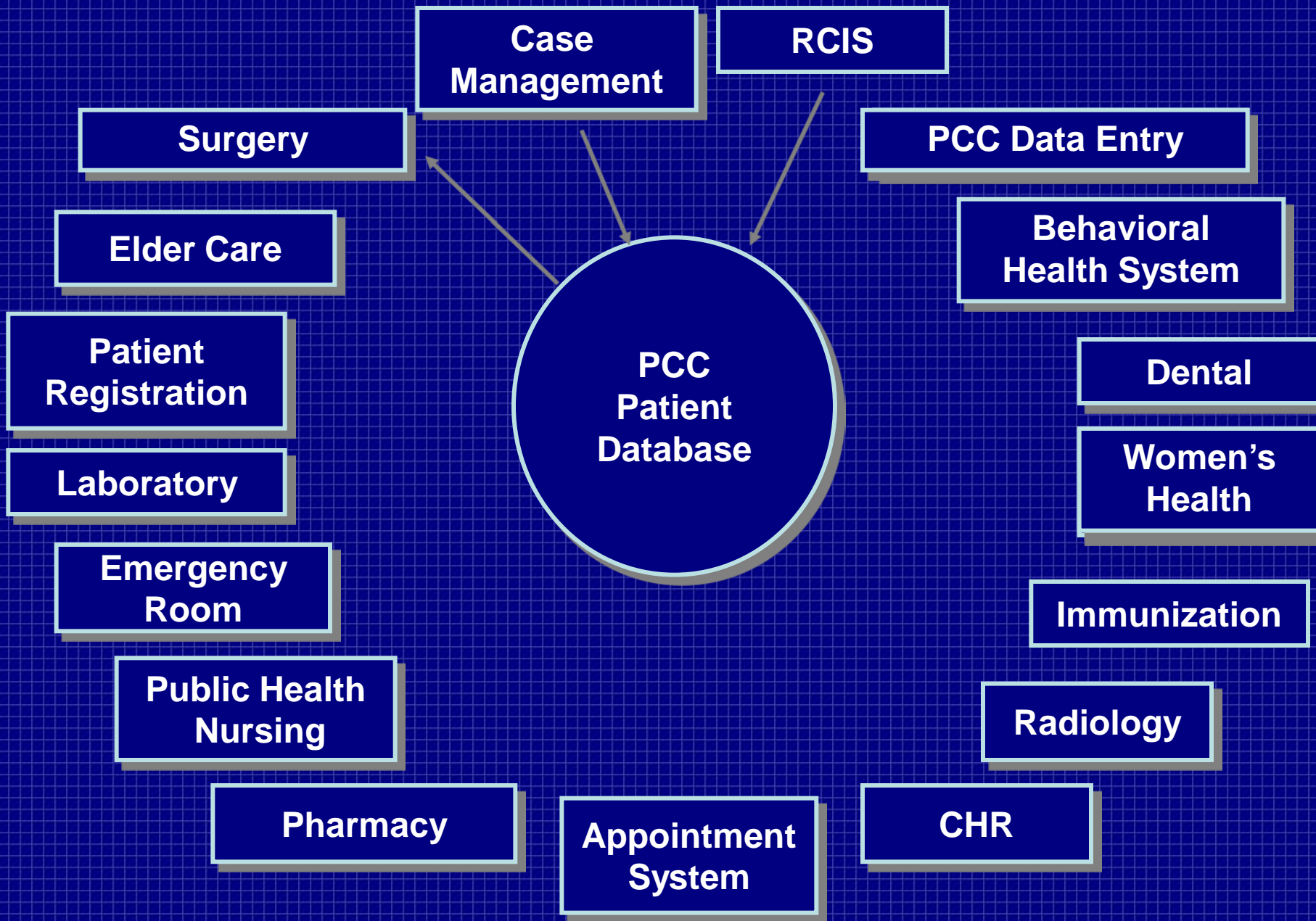
Percentage of User Pop with a Diabetes Diagnosis Per Age Group : FY06 - FY08



RPMS

- Resource Patient Management System (RPMS) as the database for patient information.
 - Developed in the 1970s
- The Patient Care Component (PCC) and the Indian Health Service Electronic Health Record (EHR) are tools to enable the entry of patient data into the database.
 - PCC developed in the 1980s
- A number of packages have been added to improve the functionality of the RPMS system.








IHS-EHR (Live) _ □ ×

User Patient Tools Help

Patient Chart Communication

Demo Patient 59464 10-Oct-1997 (6) F Visit not selected Postings **A**   

File View Action Options

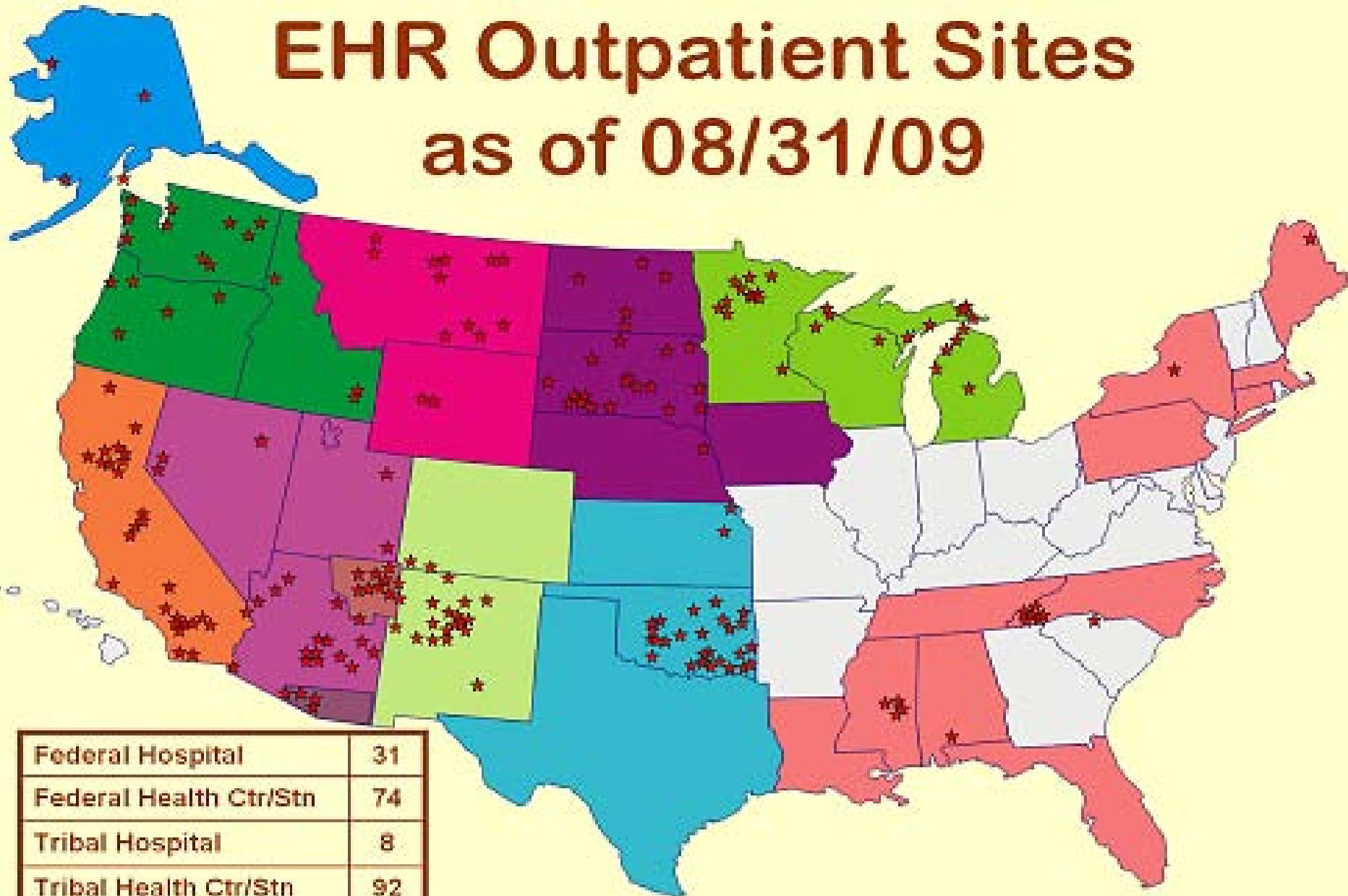
View Orders Active Orders (includes Pending & Recent Activity) - ALL SERVICES

	Service	Order	Duration	Provider	Nurse	Clerk	Chart	Status
Active Orders (includes)	Allergy	Reaction to HYDROCORTISONE	Start: 06/30/04 11:35	Miller,S				active
		Reaction to MOTRIN		Johnson,C				unreleased
Write Delayed Orders								
Write Orders	Nursing	>> dep poroverasdf	Start: 04/30/04 11:49	Johnson,C				active
Allergies Consults Labs Medications MD Radiology Quick Orders Generic Order All users medications	Out. Meds	METRONIDAZOLE TAB 250MG TAKE EIGHT TABLETS BY MOUTH ONCE - UNTIL ALL TAKEN FOR INFECTION - AVOID ALCOHOL/ TAKE WITH FOOD Quantity: 8 Refills: 0	Start: 08/17/04 Stop: 09/16/04	Creelman,T				active
		DIPHENHYDRAMINE CAP,ORAL 25MG TAKE TWO CAPSULES BY MOUTH EVERY 6 HOURS IF NEEDED -FOR ALLERGY OR ITCHING/MAY CAUSE DROWSINESS Quantity: 24 Refills: 2	Start: 03/11/04 Stop: 03/12/05	Manning,T				active
		Hold ACYCLOVIR CAP,ORAL 200MG TAKE ONE CAPSULE BY MOUTH FIVE (5) TIMES PER DAY FOR INFECTION Quantity: 35 Refills: 0	Start: 05/26/04 21:39	Manning,T				hold
	Lab	MAGNESIUM BLOOD SP LB #20555	Start: 07/28/04	Burnell,C				pending
		HEPATITIS PANEL BLOOD SP LB #20554	Start: 07/28/04 14:27	Burnell,C				pending
		HIV SENDOUT TEST BLOOD SP Please indicate PT COUNSELLED in the comments box LB #20555	Start: 07/28/04	Burnell,C				pending
		METABOLIC PROFILE BLOOD SP LB #20554	Start: 07/28/04 14:27	Burnell,C				pending
		COAG PANEL BLOOD SP LB #17696	Start: 05/21/04 17:01	Johnson,C				pending
		COAG PANEL BLOOD SP LB #17695	Start: 05/21/04 16:58	Johnson,C				pending

Privacy Notifications Cover Sheet Wellness Notes **Orders** Medications Labs Prob/POV Services Reports Consults

JOHNSON,CAROLYN W-SPRINGS-HC.PORTLAND.IHS.GOV WARM SPRINGS 23-Aug-2004 07:34

EHR Outpatient Sites as of 08/31/09



Federal Hospital	31
Federal Health Ctr/Stn	74
Tribal Hospital	8
Tribal Health Ctr/Stn	92
Urban Health Ctr/Stn	3

Cherokee Indian Hospital

- Annual targets for selected clinical indicators
- Quarterly population health reports
- Quarterly provider scorecards
- I-Care – real-time population management tool used by nurse-provider teams
- Reports to governance and Tribal Leadership: clinical indicators, patient satisfaction, customer concerns, human resource and financial indicators



RPMS-EHR - Systems Integration

- I-Care population management
- VISTA imaging – scanned documents
- Spectra PACS – radiology
- Quest – lab package
- NC Immunization Registry
- NC Controlled Substances Registry
- **WNC Datalink – 16 WNC Hospitals**
- Clinical References / Decision Support



WNC Data Link

- 16 hospitals serving western North Carolina (WNCHN founding members)
- \$2.5 million in federal funds and \$1 million from The Duke Endowment



WNC Health Network Founding Member Map



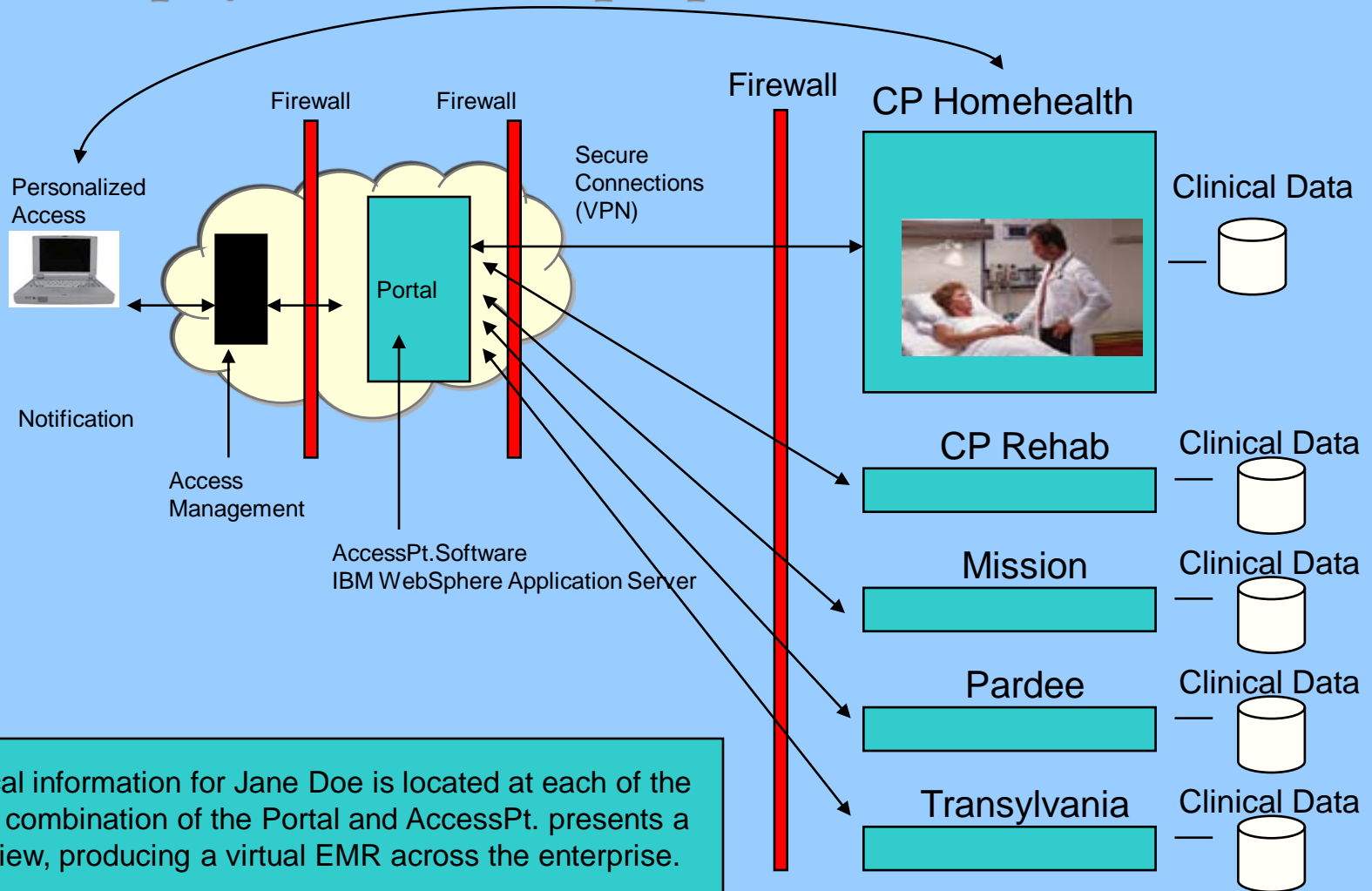
Cherokee Indian Hospital

WNC Data Link

- Long-Term Goal: Allow every WNC resident to have a longitudinal electronic medical record that can be accessed and updated in real time by any authorized provider.
- Short-Term Goal: Allow the secure exchange of electronic patient information between WNC hospitals.

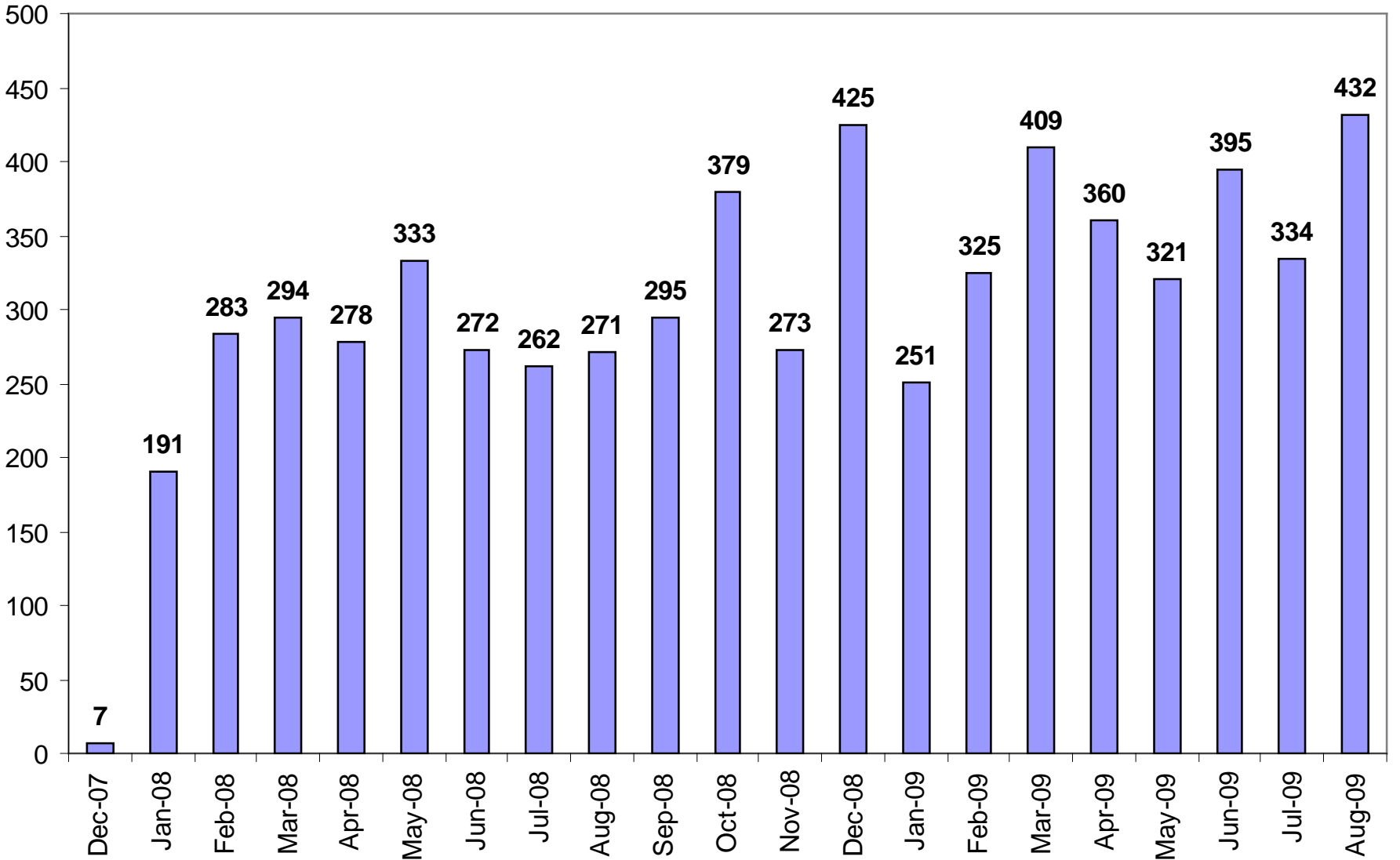


Information on the patient is available through a portal view across the system to the various physicians with proper authorization



Although clinical information for Jane Doe is located at each of the 5 facilities, the combination of the Portal and AccessPt. presents a consolidated view, producing a virtual EMR across the enterprise.

Cherokee Indian Hospital Data Link Hits Per Month Two Year Comparison



WNC Data Link

- Estimated \$1 million savings through prevention of adverse drug events
- Estimated \$400,000 savings through eliminating need to retrieve and fax paper records
- Estimated \$2-4 million savings through elimination of ordering of redundant tests



Quality Improvements at Cherokee Indian Hospital

	2004	2007
• Domestic violence screening	1%	80%
• Tobacco use screenings	43%	80%
• Uncontrolled HTN	27%	21%
• Healthy cholesterol levels	71%	75%
• Breast cancer screenings	39%	49%
• Alcohol use screenings	4%	82%



Cherokee Indian Hospital

**2008 HIMSS Nicholas E. Davies
Award of Excellence in Public Health**



Cherokee Indian Hospital

For additional information:

Michael Toedt, MD, FAAFP, CDR, USPHS

Cherokee Indian Hospital

Executive Director of Clinical Services

Michael.Toedt@cherokeehospital.org

