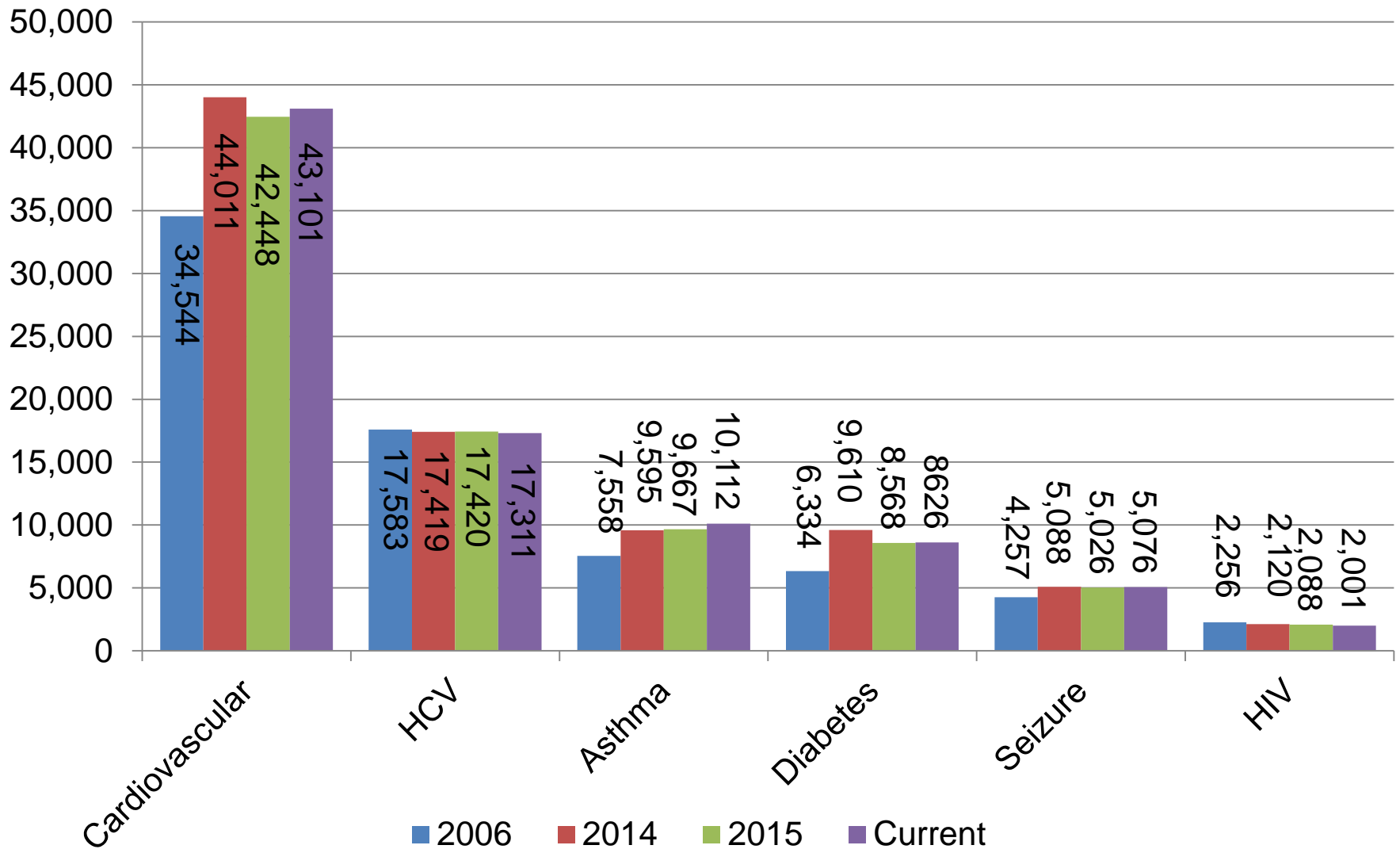Senate Committee on Health & Human Services

Telemedicine in Correctional Managed Care & The UT System Virtual Health Network

Owen Murray, DO, MBA
Vice President, Offender Health Services
University of Texas Medical Branch
Correctional Managed Care
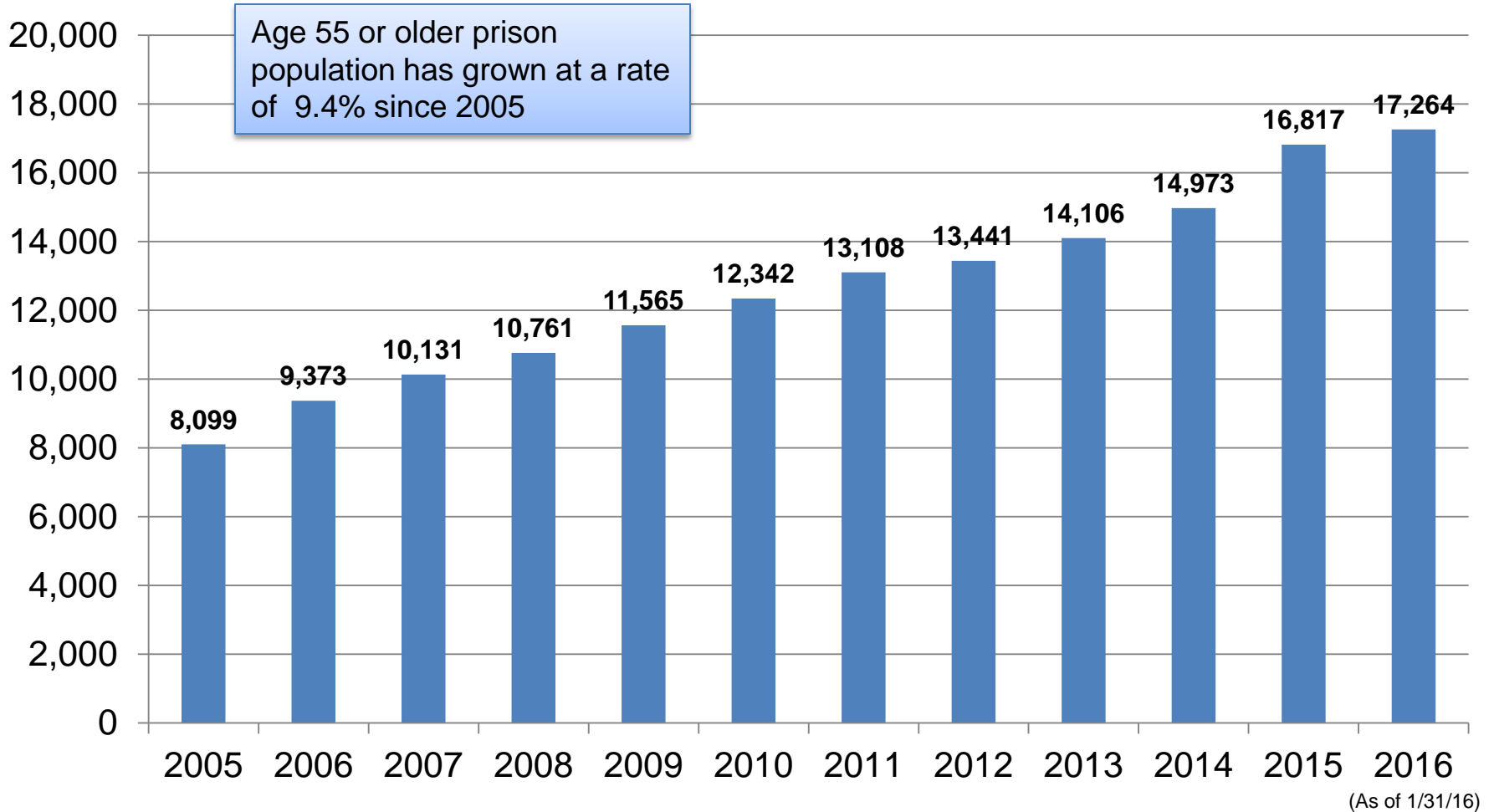
utmb Health

Overview of UTMB Correctional Managed Care

- Employees: 3,000

- Patients: 119,000

- Facilities: 83

- 2 Regional medical facilities & 2 inpatient mental health facilities

- Hospital Galveston

- Pharmacy in Huntsville

- Specialized programs: HIV, Hepatitis C, Dialysis & End Stage Liver Disease

- Electronic Medical Record (EMR) & Telemedicine

TDCJ Population with Chronic Disease

Disease	2006	2014	2015	Current
Cardiovascular	34,544	44,011	42,448	43,101
HCV	17,583	17,419	17,420	17,311
Asthma	7,558	9,595	9,667	10,112
Diabetes	6,334	9,610	8,568	8626
Seizure	4,257	5,088	5,026	5,076
HIV	2,256	2,120	2,088	2,001

TDCJ Population 55 and Older

Age 55 or older prison population has grown at a rate of 9.4% since 2005

| Year	Population
2005	8,099
2006	9,373
2007	10,131
2008	10,761
2009	11,565
2010	12,342
2011	13,108
2012	13,441
2013	14,106
2014	14,973
2015	16,817
2016	17,264

(As of 1/31/16)

Developmental Timeline of CMC Telemedicine

- Piloted by TDCJ in early 1990s

- Began as a sub-specialty delivery tool

- Expanded through strategic legislative funding

- Grew quickly through Electronic Health Record (EHR)

- Fills need created by provider shortages and competition

- Expanding to address Primary Care and Psychiatric care demands

- Resulting in creation of new specialty programs

- Current technology approximately: $8,000

UTMB CMC Telemedicine Services FY15

UTMB CMC provides medical, nursing, mental health and dental care at 83 TDCJ units to 119,000 offenders
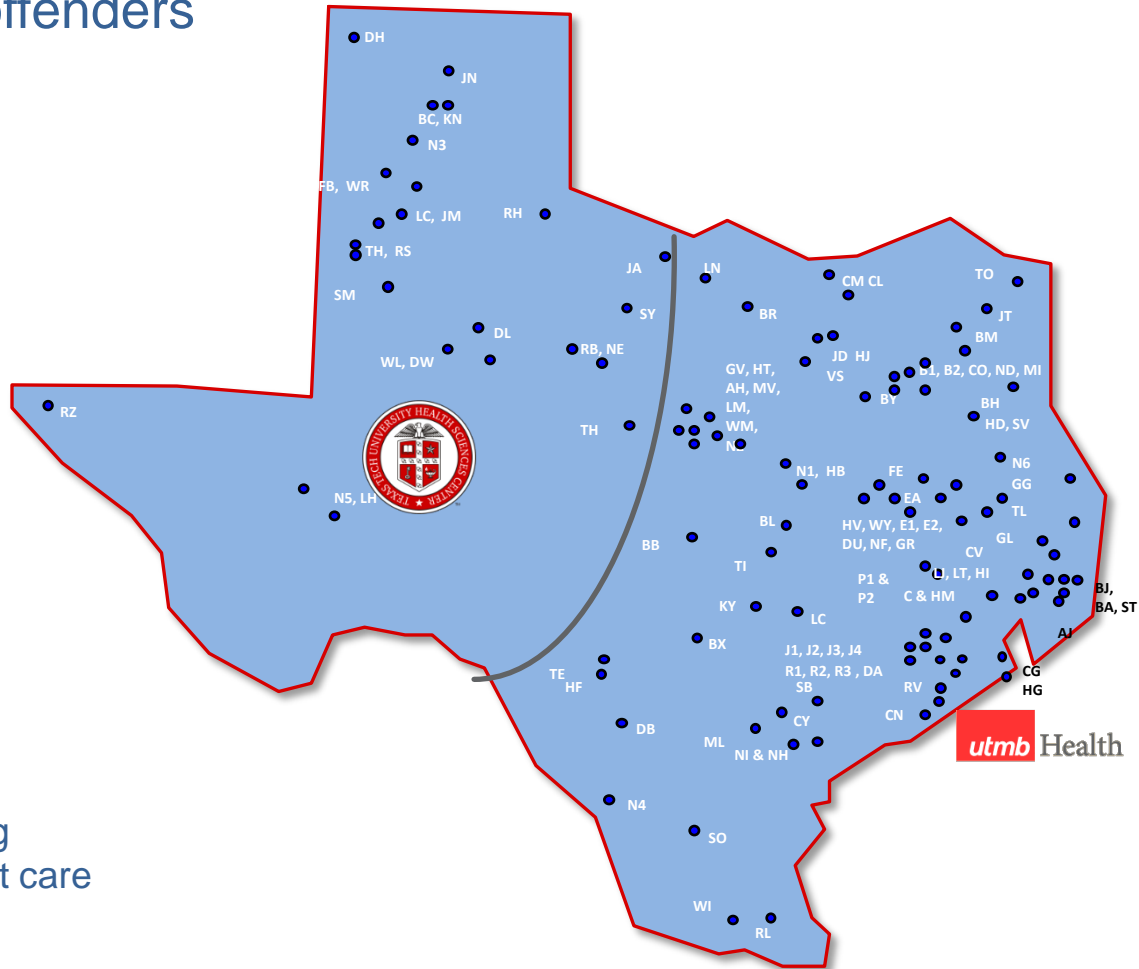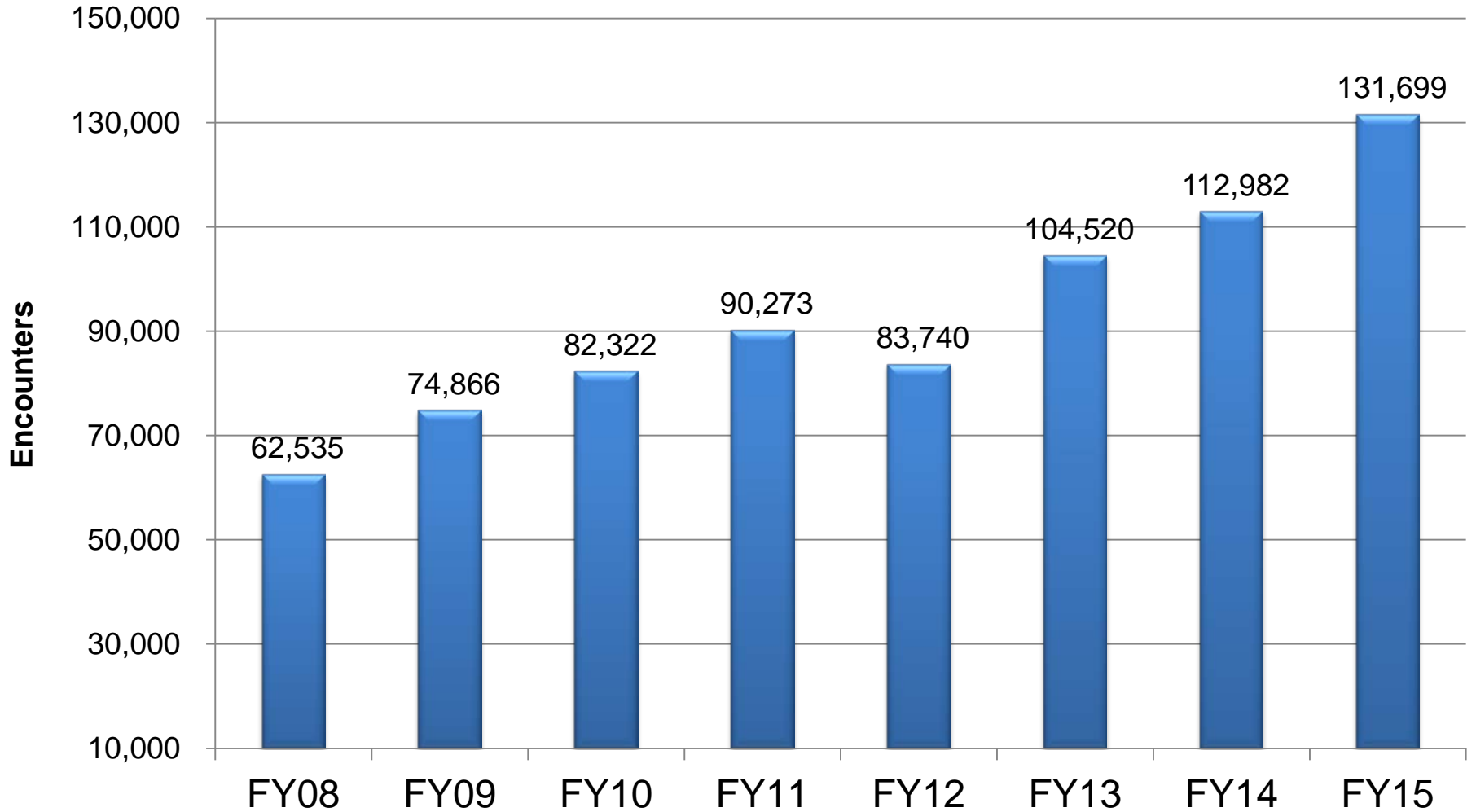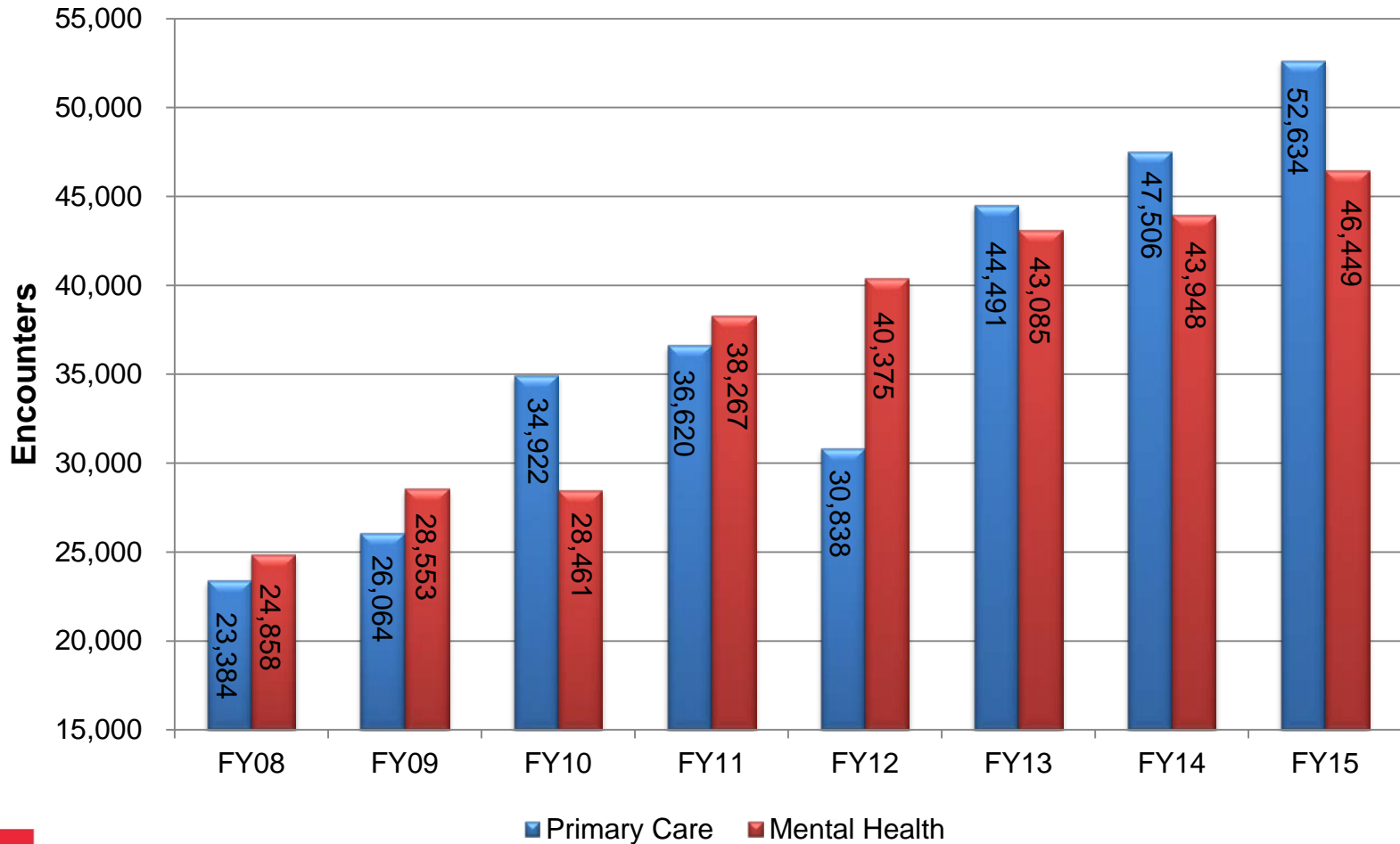
Telemedicine Services

Primary care	Mental Health
HIV care	Hepatitis C care
Dialysis-Nephrology	Wound care
Pharmacy	Inpatient rounding
HG specialty	After hours urgent care

Growth in Telehealth Encounters

Bar chart titled "Growth in Telehealth Encounters" showing Encounters (y-axis) by fiscal year (x-axis):

Fiscal Year	Encounters
FY08	62,535
FY09	74,866
FY10	82,322
FY11	90,273
FY12	83,740
FY13	104,520
FY14	112,982
FY15	131,699

CMC Telehealth – Primary Care and Mental Health Encounters

Chart: Encounters (y-axis) by fiscal year (x-axis)

Fiscal Year	Primary Care	Mental Health
FY08	23,384	24,858
FY09	26,064	28,553
FY10	34,922	28,461
FY11	36,620	38,267
FY12	30,838	40,375
FY13	44,491	43,085
FY14	47,506	43,948
FY15	52,634	46,449

■ Primary Care ■ Mental Health

CMC Total Telehealth Encounters

	HIV / Hepatitis C	Wound Care	Pharmacy	Primary Care	Mental Health	After Hours Urgent Care	Nephrology	HG Specialty	Total
FY08	10,061	43	407	23,384	24,858				**62,535**
FY09	9,750	391	388	26,064	28,553				**74,866**
FY10	13,936	244	356	34,922	28,461				**82,322**
FY11	14,422	445	519	36,620	38,267				**90,273**
FY12	11,086	579	862	30,838	40,375				**83,740**
FY13	14,414	849	1,681	44,491	43,085				**104,520**
FY14	18,355	853	2,320	47,506	43,948				**112,982**
FY15	17,716	1,304	2,752	52,634	46,449	4,872	840	5,132	**131,699**

Future Vision

- Continue growth of regional hub facilities

- Expand service lines: tele-rounding and chronic care management

- Partnership opportunities

Prison Health Spending Comparison

(Per Inmate per Day)
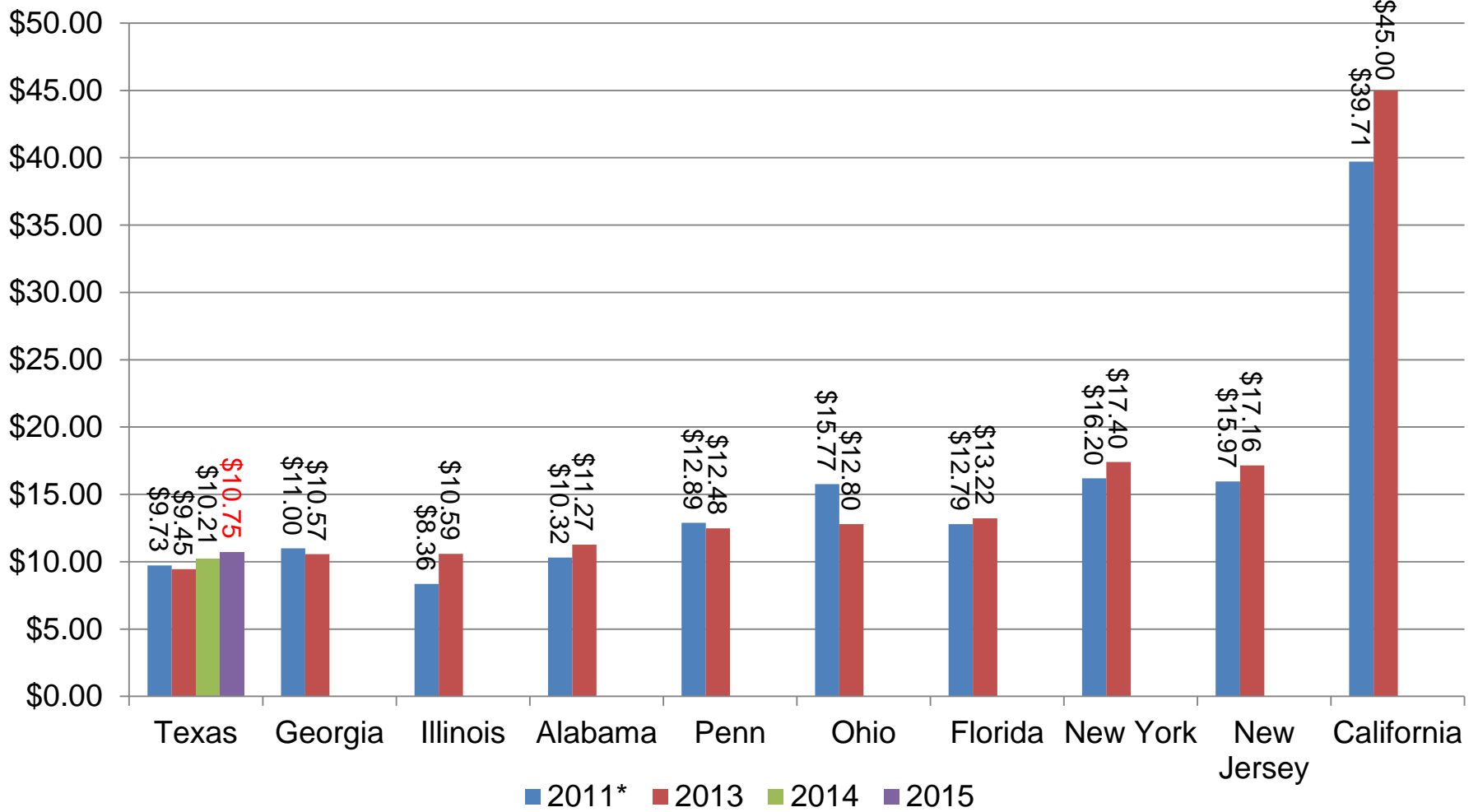
State	2011*	2013	2014	2015
Texas	$9.73	$9.45	$10.21	$10.75
Georgia	$11.00	$10.57		
Illinois	$8.36	$10.59		
Alabama	$10.32	$11.27		
Penn	$12.89	$12.48		
Ohio	$15.77	$12.80		
Florida	$12.79	$13.22		
New York	$16.20	$17.40		
New Jersey	$15.97	$17.16		
California	$39.71	$45.00		

■ 2011* ■ 2013 ■ 2014 ■ 2015

utmb Health

Working Together to Work Wonders

University of Texas Virtual Health Network (UT-VHN)

- Utilize experience in telehealth and network of health care facilities to meet the increasing demand for fast, efficient, reliable, and cost controlled health care

- Coordinate telemedical services from all eight of the University of Texas Health Science Centers and Medical Schools into care settings such as other hospitals and clinics, nursing facilities, schools, employee work sites, and patient residences

- Systematically integrate technology, health providers, care protocols, and support systems to deliver health efficiently and effectively

UT-VHN Implementation

Phase 1: Discover and Define – Institutional Focus

- Assess current landscape of each institution's telehealth initiatives
- Enable each institution to enhance its own capabilities

Phase 2: Introduce and Demonstrate – System Focus

- Introduce and expand additional telemedical services
- Develop shared common goals and strategies

Phase 3: Full Deployment – Statewide Focus

- Grow a full range of clinical services across a variety of settings (schools, work sites, community health centers, community mental health centers and patient homes)
- Develop Centers of Excellence based on unique areas of expertise

Potential Impact

- Provide quicker and more direct access to specialty care for the citizens of Texas

- Reduce duplicate administrative work and increase the quality of care provided

- Act as a workforce multiplier, distributing resources where needed and controlling costs

- Enable many more Texans to have access to the best physicians in the country thereby bridging the gap in care access

Questions?