



University of Connecticut  
Health Center

# Correctional Managed Health Care

# Introduction

- Global medical, mental health, pharmacy, and dental services under MOA with the CT DOC since 1997
- 16 DOC facilities statewide, at 42 DOC-contracted halfway houses and at the John Dempsey Hospital
- 714 FTE staff (813 individuals)\*
- 18,700 individuals (17,584 incarcerated and 1,116 in halfway houses)\*

\*as of 6/30/2011



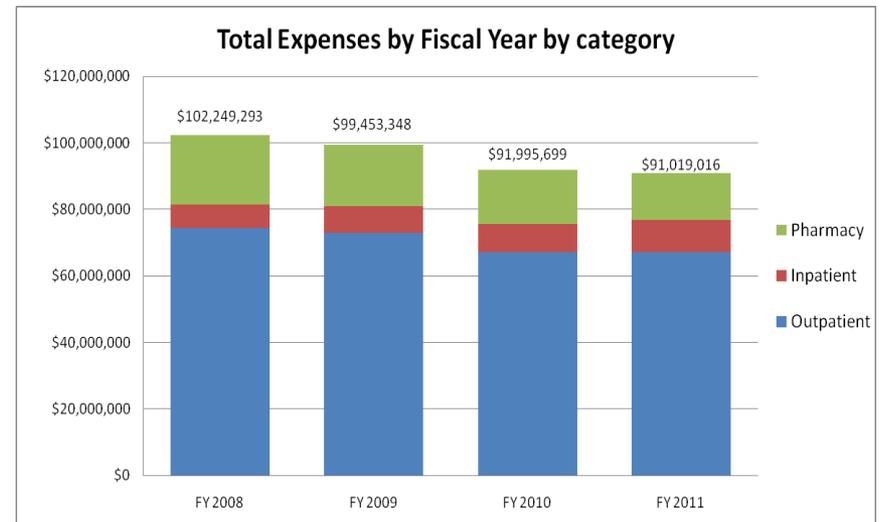
# Background

- CT is 1 of 6 states with an integrated jail and prison system.
- Jails have a high inmate admission and discharge rate, much higher per inmate costs, and present distinct management and clinical challenges.
  - Hartford Correctional Center (jail) alone averages over 38 intakes every night.
- Prisons have a greater need for chronic disease management
- Statewide, each of the 27,163 annual admissions requires a medical and mental health intake health screening.



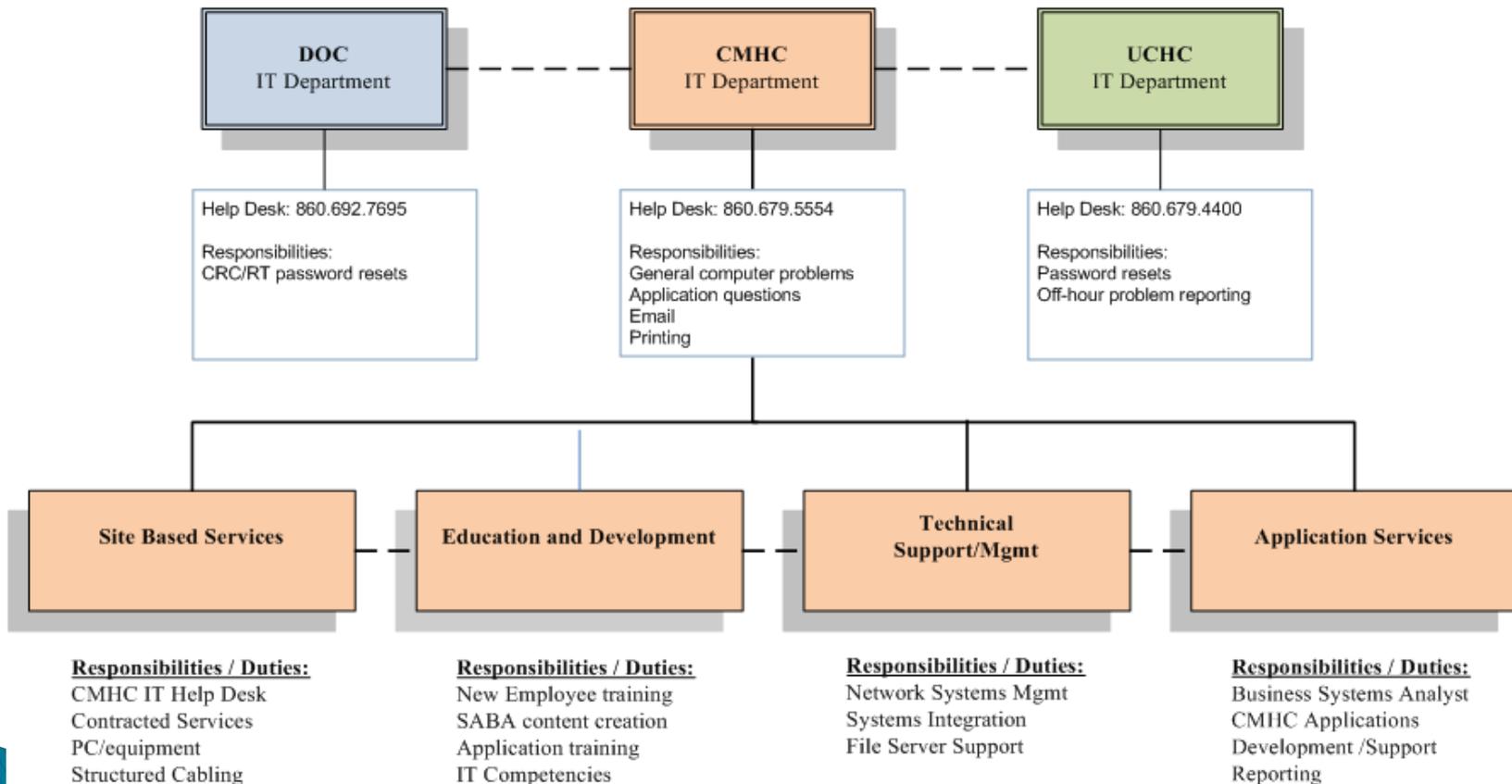
# Background

- ▶ 20% require prompt medical or mental health intervention
- ▶ General medical and psychiatric disease prevalence rates far greater than community
- ▶ Inmates on medications (6/2011) : 8,325 (45%)
- ▶ Cost of global healthcare per inmate per year (both genders) was \$4,814 (FY 2011)



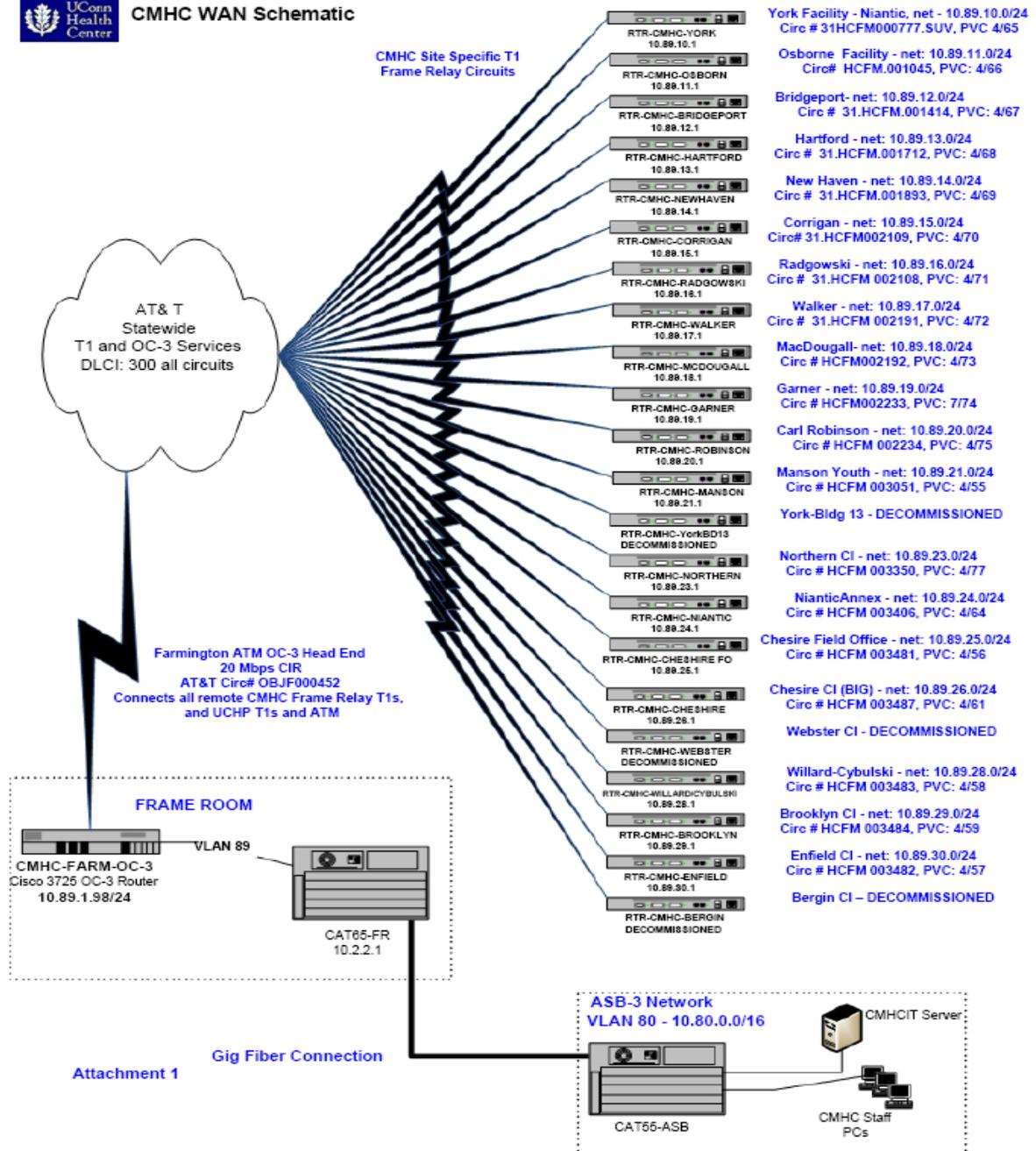
# CMHC Information Technology

## Correctional Managed Health Care Information Technology Organizational Overview

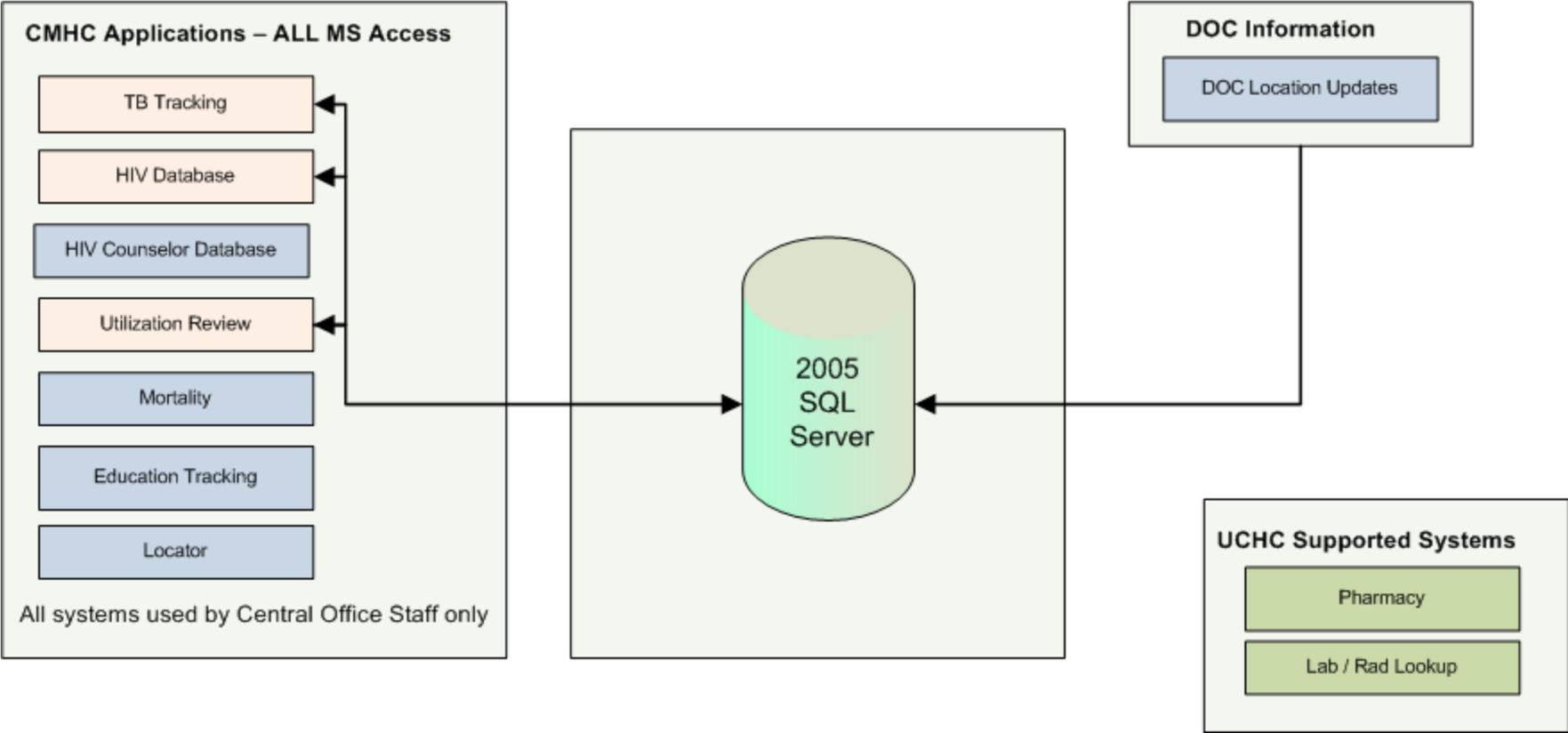




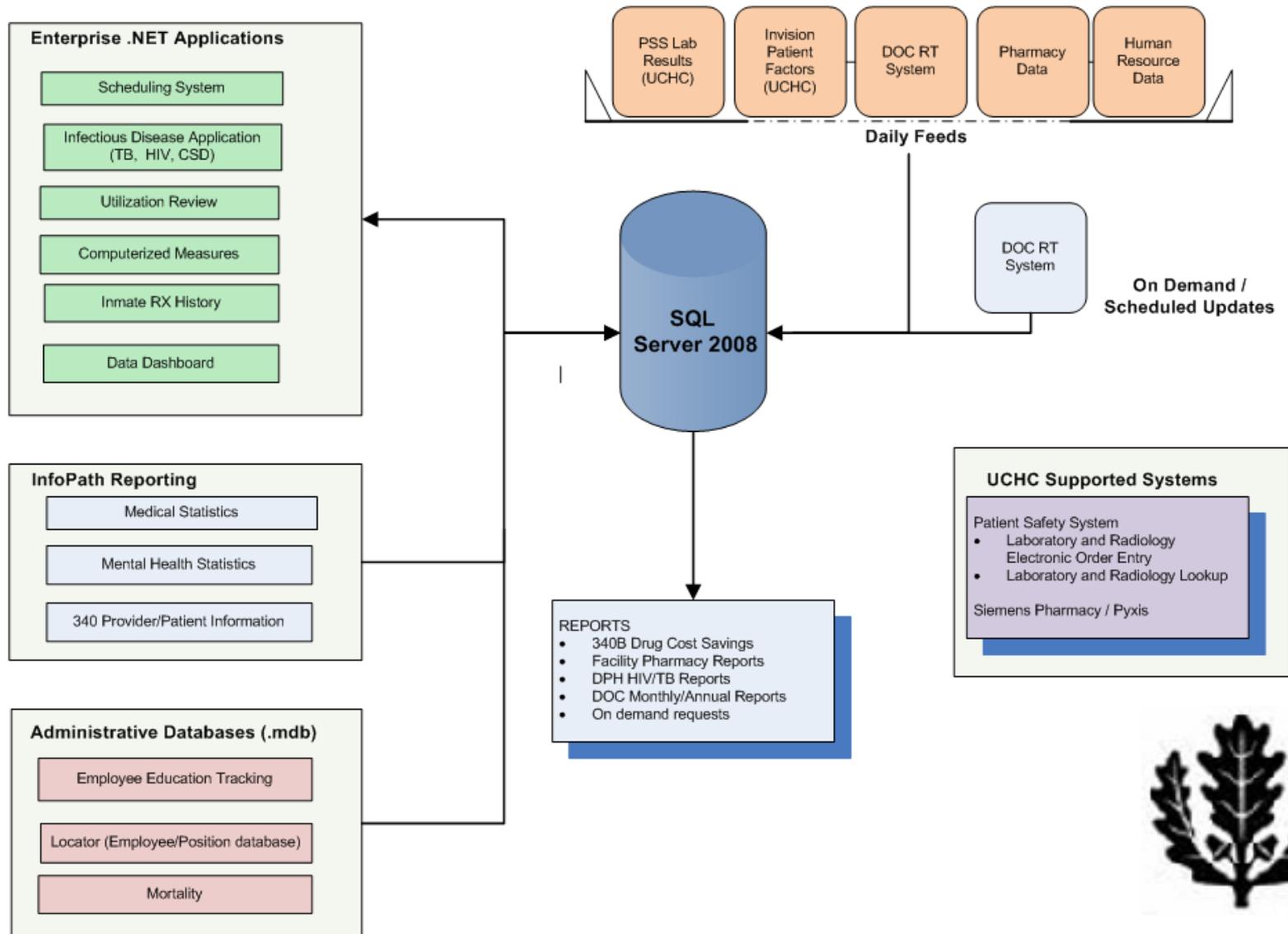
# Technical Infrastructure



# CMHC Application Architecture 2005



# CMHC Application Architecture 2011



# CMHC Application Systems

## ▶ Utilization Review

- ▶ Specialty services management system
- ▶ Electronic processing of requests/responses
- ▶ Integrated into Scheduling application

## ▶ Infectious Disease

- ▶ TB tracking, contact information, TST history
- ▶ HIV information, CDC reports, community follow ups
- ▶ Other communicable disease information

## ▶ Scheduling

- ▶ Inmate appointment history
- ▶ Procedure information
- ▶ Diagnosis information
- ▶ Follow-up appointment dates
- ▶ Continuity across facilities



# CMHC Application Systems

## ▶ Inmate RX History

- ▶ All medications dispensed after 3/2005
- ▶ Categorized meds
- ▶ Prescribers
- ▶ Pyxis data

## ▶ Patient Safety System

- ▶ Lab and Radiology results after 6/2004
- ▶ Electronic Lab and Radiology order entry

## ▶ Computerized Measures

- ▶ Psychiatric Assessment tools
- ▶ Trending results over time



## Available Electronic Health Information

### Demographics

Name  
Number  
Age  
Date of Birth  
Last Address  
Sex  
SSN  
Religion  
Facility  
Housing Code  
Veteran Status

### Sentencing Information

Bond  
Status  
Release Date  
HWH Hold Date  
HWH Eligible  
Detainer  
DR Tickets

### Classification Information

Medical Classification  
MH Classification  
Medical subcodes  
MH subcodes  
Sex Treatment codes  
Disciplinary history (tickets and classification of tickets)

### Infectious Disease

TB Status  
S/S screenings  
TST planted  
TST read  
TST result  
CXR History – TB Indicated  
CXR Result – TB Indicated  
Exposure History  
Isolation History  
Sputums  
Cultures  
Claims positive history  
Adverse Reaction to Medications

-----  
Communicable Disease –  
Diagnosis  
Date of Dx  
Comment on disease  
-----

HIV Risk Factors  
HIV Confirmation - By  
HIV Confirmation - Date  
Living Will  
Test History (both community and CMHC records) – ex: CD4, HCV, HIV-RNA, etc..  
Exam History – ex: CXR, PE  
Vaccination history  
Problem list details – various categories

### Utilization Review

# of requests  
Specialty  
Procedures  
Diagnosis  
Requestor  
Approved/denied status  
Canned response  
Detailed response  
Approximate appointment date  
Transportation mode  
Requesting facility  
Appointment Date  
Appointment Outcome  
Treating facility

### Patient Safety System

Orders for Lab and Rad  
Performed tests for Lab and Rad  
Results for Lab  
Height– only those with orders  
Weight– only those with orders  
Pregnant status – only those with orders  
Psy Diagnosis Codes  
Attending Physician

### Scheduling

Appointment date  
Appointment outcome  
Cancel reason  
Reschedule information  
Treatment Facility  
-----  
Clinician(s)  
Program info  
Specialty  
Dental Statistics (procedures done, restorations completed, etc)  
Procedures (from monthly report information)  
MH status  
PAP info  
AIMS info  
Date of last vital signs  
Physical exam info  
Waiting list

### Medication History

Prescriptions  
Fills by pharmacy  
Dispense from Pyxis  
Cancelled scripts  
Start date of prescription  
End date of prescription  
Last fill date  
"Current meds"  
Allergies  
Category of medications administered  
Pricing – not 100% accurate

### Provider Billing/Finance

Provider Billing:  
CPT codes for (non-JDH) outpatient services  
Rev codes for (non-JDH) inpatient services  
McGovern:  
JDH inpatient (UB92) – rev codes  
JDH Outpatient (HCFA) - CPT  
UMG (HCFA) - CPT

### 340b

Last seen by JDH provider  
# of qualifying 340b drugs

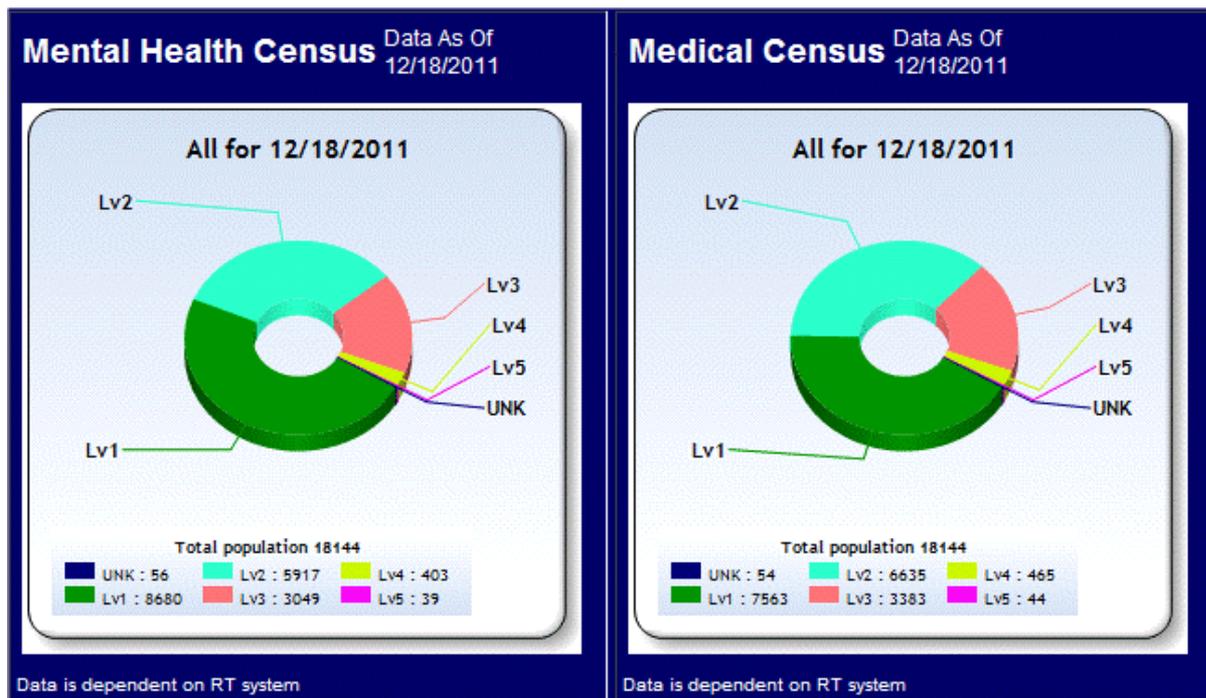
### DW Reporting

CORP Eligible date  
Expedited Release date

# Applying Data...

## Data Dashboard

- ▶ Medical Census
- ▶ Mental Health Census
- ▶ Employee Overtime Stats
- ▶ UR Appt Completion Stats
- ▶ Psychiatric Diagnosis Documentation
- ▶ Current Inpatient Census MS5



# Integrating Data...

## Source Systems:

- DOC Information
- JDH IDX
- Infectious Diseases
- Siemens Pharmacy
- PSS
- Utilization Review
- Scheduling

## Patient Summary

Inmate #: <input type="text"/>	TOO #: <input type="text"/>	Name: <input type="text"/>
DOB: <input type="text"/>	Gender: <input type="text"/>	Medical#: 2 Sub: N...
SSN: <input type="text"/>	Race: <input type="text"/>	Mental#: 2 Sub: ....
Location: 142 WILLARD-CYBULSKI CI <a href="#">(RT Refresh)</a>	Status: G - Sentenced > 1yr <a href="#">Launch RT Data.</a>	Housing: 142B B DORM

Height: 120 Weight: 135 updated on 2/1/11

### Custody Information

Last Admit Date	Court Date	Bond	Max Release Date	VTP	RT50	RT60
<input type="text"/>						

[ID Tracking](#)

### Current Medications

Category

Name	Strength	Dose Info	Addl. info	Start	End
<input type="text"/>					

### Recent Labs

[View Additional Lab Info](#)

Test Name	Date	Result	Flag	Test Name	Date	Result	Flag
<input type="text"/>							

### Recent Xrays

Test Name	Date	Test Name	Date
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### URC Outpatient Information

Status	Procedure	Specialty	Diagnosis	Submitted	Appt Date	Appt Outcome	Date Completed
<input type="text"/>							

### URC Inpatient Information

Status	Procedure	Specialty	Diagnosis	Created Date	Admission Date
<input type="text"/>					

### Psychiatric Diagnosis

Description	Provider	Effective Date	Description	Provider	Effective Date
<input type="text"/>					

### Inmate Appointments

Specialty	Last Seen Date	Diagnosis	Last Seen Clinician	Next Scheduled Appt	Next Scheduled Appt Clinician
<input type="text"/>					

[Print Summary](#)

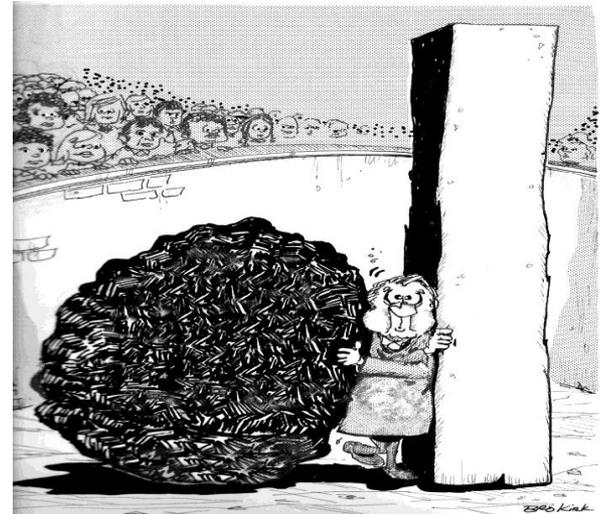
# EMR Opportunities

- ▶ Foundation outlined in 2009 – RFP
- ▶ Funding challenges
- ▶ DOC RFP – Offender Management Information System (OMIS)
  - Health care module



# Challenges

- ▶ Logistics specific to Correctional Institutions
- ▶ Operational Model
  - Reliance on UCHC / DOC
- ▶ Pursuit of EMR Opportunities



# Efforts Moving Forward

- ▶ Patient Summary screen
  - ▶ Integrated in all .NET applications
- ▶ Real time interface with DOC
  - MQ Messaging
  - Required for full blown Scheduling integration
- ▶ Discharge Summary (W10)
  - ▶ Movable data, retrievable forms



# CMHC Information Technology

Questions?

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