### NATIONAL **S**RYAN WHITE CONFERENCE ON HIV CARE & TREATMENT



# Bridging the data (systems) divide! Integrating data systems for better HIV reporting and care coordination- Group session 11079

Margaret Haffey, Catharine Calianos- Boston Medical Center; Piper Duarte- Parkland Health & Hospital System; Mari Millery, Jesse Thomas, Daisy Gely- Northeast/Caribbean AETC

#### **Session Overview:**

Whether building bridges across data silos or care silos, or responding to a disaster, information exchange is critical. Effective data exchange can address the problems of patient mobility, care coordination, and population data needs, and will help achieve the NHAS goals. But if left isolated and uncoordinated, data systems create duplication of efforts, reporting difficulties, and disconnected clinical care.

Three diverse regions and care landscapes bring their challenges and successes with integrating data systems to bridge the information divide. Boston enhanced their Electronic Health Records (EHRs) with additional reporting software; Dallas leveraged their EHR to its full breadth for comprehensive evaluation, while Puerto Rico prepared HIV care settings for the emerging policy trends and requirements of a Health Information Exchange (HIE), after the need was amplified in the aftermath of the devastating 2017 hurricanes. Bridging the data divide, providers are able to share data with external agencies, generate internal reports, improve data governance, and support communication between key stakeholders.

Join HIV care agencies who are maximizing data utilization to improve access and coordination of care at their own organizational level, while building infrastructure needed to move toward a national HIE, all implemented with the aim of benefitting the patient.



#### **Session Objectives:**

- Understand the process to implement an interface between Electronic Health Records (EHR) and HRSA reporting systems (CAREWare)
- Identify ways data consolidation can improve care coordination
- Identify methods to assess the need for health information exchange in HIV care settings





#### From the field #2: Harnessing EPIC to ensure Standards of Care while optimizing Care Coordination

#### **Piper Duarte, MPH**

Performance Improvement Analyst-Parkland Health & Hospital System- HIV Services Department

Special thanks to the following stakeholders who allowed me to bring our work to you: Gwendolyn Martin, Case Management Manager; Tuula Persson, RN Case Manager; Sridhar Kandakuri, Applications IT; HIV Analytics Team



In a large, urban HIV clinic system, how can EPIC be harnessed to deliver valuable (and required) information?



# Parkland HIV Services Department (PHSD) objectives: share experience to better

- Understand how EPIC can help ensure Standards of Care
- Identify ways data can be utilized for standardization
- Identify ways data consolidation can impact care coordination



### Background

Clients entering care at Parkland HIV Services receive a comprehensive set of assessments, allowing them to be eligible to receive care and identify need.

Baseline audit highlighted the need for documentation to be migrated to EPIC to enable review alongside their clinical care. Though case management provided numerous referrals for partner agency services, clear documentation of referral tracking was absent.

- Issues:
  - > Dual Entry
  - > Assessments could not be reviewed by clinic
  - Comparative and historical referrals unable to be viewed
  - > Unable to track referral & follow up
  - Frequency of contact by MCM didn't match ACUITY of client



### **Project AIM & GOALS:**

## AIM: Create Flowsheets within EPIC to meet

- Standards of Care
- Optimize Care Coordination
- Eliminate dual documentation
- Create Referral Tracking

- GOALS:
  - Increase clients initially assessed for ACUITY to 70%
  - Increase clients with updated Care Plans to 70%
  - Increase automated reporting within EPIC for Standards of Care



### **EPIC Migration: objectives to achieve goal**

- Use Standards of Care as Guide
- 2. Leverage Ambulatory IT to build CM Navigator within EPIC
- Meet Weekly with Stakeholders
- 4. Create Flowsheets

- Evaluating processes informed IT to assist the Flowsheet build
- Standards of Care could be 'mimicked' to reflect all data capture needs
- Distinct fields allows for reports to ensure fidelity & show progress
- Remove dual entry!



#### **Care Coordination Impact: an example**

Eligibility needs, referral history and comparative assessments are now accessible to all staff coordinating care

- 1. Acuity
- 2. Identify need
- 3. Discuss resources
- 4. Provide referrals
- 5. Develop a mutually agreed upon care plan



Chart Review	BestPractice	Acuity Scale	1
Care Everywh	MyChart/Kiosk Qnrs FYIs	Time taken: 0812 ①	12/5/2018 📸 Values By
SnapShot	Reason for Visit		
	Intake Forms	Add Row Add Grou	
1	Vitals	<ul> <li>TX Acuity Scale</li> </ul>	
<u> </u>	Prior Pathogens	Medical and Mental H	ealth
Results Review	Emerging Pathog	Linked to HIV Medical Care	0=(Self Management) Engaged in Consistent HIV Medical Care 1=(Basic) Completed 50% or more HIV Medical Appointments in the last 6 months
listory	Allergies	Medical care	2=(Moderate) Has completed <50% of HIV medical appointments OR has completed 1st medical visit 3=(Intensive) Newly diagnosed, lost to care, or no medical care in more than 6 months
Demographics	History	Current HIV Health	0=(Self Management) Virally suppressed, no history of opportunistic infections (OI), no hospitalization in > 12 months
remographics	CHARTING	Status	1=(Basic) Detectable viral load (VL) but on ARVs, no OIs in the < 6 months or is on treatment, no hospitalization < 6 months
etters	Problem List		2=(Moderate) Refuses ARV with CD4 > 200, OI not treated in the < 6 months, hospitalized < 6 months, newly dx in the < 6
, and the second second	Verify Rx Benefits Outside Meds		3=(Intensive) Refuses ARVs with CD4 < 200, OII not treated in the > 6 months, hospitalized > 6 months, newly dx in the > 6
and the second	SmartSets	Medication	0=(Self Management) Adherent to medications as prescribed for more than 6 months withour assistance OR is not being prescribed
4.5	Meds & Orders	Adherence	1=(Basic) Adherent to medications as prescribed less than 6 months and more than 3 months with minimal assistance
order Entry	Goals		2=(Moderate) Misses taking several doses of scheduled meds weekly. Takes long/extended "drug holidays" against medical 3=(Intensive) Resistance/ minimal adherence to medications and treatment plan even with assistance
ruer Endy	Progress Notes	Mental Health	0=(Self Management) No history of mental health problems or long term stability demostrated, no need for referral 1=(Basic) Past problems and/or reports current difficulties already engaged in mental health care
- 1	Visit Diagnoses		2=(Moderate) Experiencing severe difficulty in daily functioning, requires significant support, needs referral to mental health care 3=(Intensive) Danger to self or others, needs immediate intervention, needs but not accessing therapy
	HIV CASE MANAGEMENT	Substance Misuse	0=(Self Management) No difficulties with substance misuse or long term stability demostrated, no need for referral 1=(Basic) Past problems, < 1 year recovery, recurring problems, not impacting ability to pay bills or health
lowsheets	Risk Reduction SAMISS	and a second second	2=(Moderate) Current substance misuse, willing to seek help, impact ability to pay bills and access to medical care. Crisis
eview Flows	A STATE OF STATE	HIV Knowledge &	O=(Self Management) Verbalizes clear understanding about HIV     1=(Basic) Some understanding verbalized, needs additional information in some areas
	HIV GRANT	Understanding	2=(Moderate) Little understanding, needs counseling or referral to make informed health decisions 3=(Intensive) Uninformed of HIV disease progression, unable to make informed decisions about health
roblem List	Adherence	Sexual Health	Comparison of the time, demostrates a strong understanding of safer sex     [1=(Basic) Engages in safer sex practices >75% iof the time, demostrates a fair understanding of safer sex
	Acuity Scale	Sexual Health	
atient Messa	Barriers & Pt Status		2=(Moderate) Engages in safer sex practices 50-75% of the time, demostrates poor understanding of safer sex 3=(Intensive) Engages in safer sex practices <50% of the time, little or no understanding of safer sex
nmunizations	Care Plan	Dental	0=(Self Management) Has own medical insurance and payer, able to access dental care 1=(Basic) Aware of dental services offered and requires assistance accessing dental car < 2 times a year, referral
	Checklist CIF		2=(Moderate) Needs information and referral to access dental services. No dental crisis, needs information or 3=(Intensive) Needs immediate assistance to access dental care, dental crisis. Does not have access to dental care

standardized flowsheets to document the clients' assessments and care plans.



Incentives

Lost To Care

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**Visit Navigator** 

	🗰 References 🤸 Open	~ Psychosocial						
-	INTAKE BestPractice More Annotation International Internat	Housing/Living	0=(Self Management) Living in habitable, stable housing, does not need assistance 1=(Basic) Stable housing subsidized or not, occasionally needs assistance with paying for housing < 3 times per year					
Chart Review		Situation	2=(Moderate) Unstable housing subsidized or not, housing subsidy violation/ eviction imminent, needs housing help 3-6 times a year					
Care Everywh			3=(Intensive) Unable to live independently, recently evicted, homeless, temporary housing, accesses assistance > 7 times a year					
SnapShot	pShot FYIs Reason for Visit Intake Forms	Culture/Language	0=(Self Management) Understands service system and is able to navigate it 1=(Basic) Client may be functionally illiterate and needs most forms and written materials explained					
			2=(Moderate) Client may require translation or sign interpretation, and needs assistance understanding complicated materials					
1	Vitals		3=(Intensive) Unable to understand service system, or is in crisis and needs immediate assistance with translation					
<u> </u>	Prior Pathogens	Legal	C (Self Management) No recent or current legal problems, all legal documents client desires are completed 1=(Basic) Possible recent or current legal problems, client wants assistance in completing standard legal document					
Results Review	Allergies		2=(Moderate) Client is on probation or parole-recently released in the last 3 months 3=(Intensive) Incarcerated OR immediate crisis (legal altercation, no POA, guardianship issues, etc.)					
History		Transportation	O=(Self Management) Client has reliable transportation. Is able to cover costs of transportation (e.g. bus tickets 1=(Basic) Needs occasional assistance < 3 times a year, ride arrangements needed					
Demographics	History		2=(Moderate) No means. Under or unserved area for public transportation. Needs assistance 3-6 times per year					
o chi o gi o philos	CHARTING Problem List		3=(Intensive) Lack of transportation is a serious contributing factor to lack of medical care, needs assistance > 7 times per year					
Letters	Verify Rx Benefits	Support System	C =(Self Management) Client reports no support needs 1=(Basic) Mostly stable, but requests additional support (support group) 2=(Moderate) Inconsistent support (family out of town, limited friends)					
	Outside Meds		3=(Intensive) No support- in crisis or in jeopardy of crisis					
SmartSets Meds & Orders	SmartSets Domestic Violence	Domestic Violence/	0=(Self Management) No reported domestic violence/ intimate partner violence 1=(Basic) History of domestic violence/ intimate partner violence occurred > 1 year ago					
		Intimate Partner	2=(Moderate) Domestic violence/ intimate partner violence reported within last year 3=(Intensive) Active domestic violence/ intimate partern violence- life threatening situation					
Order Entry	Goals	Utilities	violence					
	Progress Notes Visit Diagnoses	ress notes	3=(Intensive) More than one utility disconnected					
-		Self-Efficacy/						
	HIV CASE MANAGEMENT	Activities of Daily	0=(Self Management) Client's basic needs being adequately met, no evidence of inability to manage basic needs/ADLS					
Flowsheets	SAMISS HIV GRANT	Living	1=(Basic) Client has the ability to meet basic needs and manage ADL, but may need referral and information to identify available resources					
Review Flows			2=(Moderate) Needs assistance identifying, obtaining, and maintaining basic needs and managing ADL. Poor ADL management is noticeable and/or pronounced 3=(Intensive) Unable to perform basic life skills/ ADLs without assistance, acute nutritional deficit, access barriers to food or clothing, in crisis, ect.					
Problem List	DOCUMENTATION		s=(intensive) Unable to perform bi	asic life skills/ ADLs without assistance, acute nutritional defic	it, access barriers to food or clothing, in crisis, ect.			
To ore fin Elo	Adherence		~ Acuity Scale					
	Acuity Scale		F를 Total Acuity Points					
Patient Messa	Barriers & Pt Status		No Case	Initial Case Management Assessment NO Care Plan	Documentation in ARIES will NOT reflect case manager	nent		
Immunizations	Care Plan Checklist		Management: 0-9 points					
	CIF		Is Client Pregnant?	Yes No				
-	CM Closure		Clients that meet any of the criteria listed below must automatically be enrolled in MCM	🗋 Homeless	Recently released from incarceration	Pregnant		
.0				CD4 count <200 or VL >10,000 copies/ml	Newly diagnosed	Untreated mental illness (including substance use disorders		
	Consent Forms			New to Antiretroviral therapy	Not in care/re-engaging in care	Non-adherence to HIV medication		
Visit Navigator	Incentives		services, with contact	Unable to navigate System of Care due to language				
53077	Lost To Care		Suggested MCM	Yes No				



	🗰 References 🔸 Open (		t AgS ഉ Preview AVS 📔 Therapy Plan 🥲 Procedure Documentation 😵 Events 👻 Events 👻 🗄 Pain/Opiold 😰 Geri Assessment Forms
		✓ Referral Form	
hart Review	CHARTING	Adult Day Care	AIN/Daire Center Other
are Everywh	Problem List Verify Rx Benefits	Children's Services	Bryan's House Other
napShot	Outside Meds SmartSets	Community Case Management Services	Prism Health AIDS Services of Dallas Bryan's House Resource Center of Dallas Legacy Counseling Center AIDS Interfaith Network
7	Meds & Orders	Counseling Services	Legacy Counseling Center Other
	Goals	Dental Services	Community Dental Care Baylor College of Dentistry Nelson-Tebedo Dental Clinic Other
esults Review	Progress Notes Visit Diagnoses	Food	Resource Center Food Pantry Other
istory	HIV CASE MANAGEMENT	Hospice	Legacy Founder's Cottage Other
emographics	Risk Reduction SAMISS	Household and Personal Hygiene Items	White Rock Friends General Store Other
etters	HIV GRANT	Housing/Emergency Shelter	AIDS Services of Dallas Legacy Counseling Other
	Adherence	Legal Services	Dallas Legal Hospice Other
40	Acuity Scale	Pet Services	Pets Pals, Resource Center Other
rder Entry	Barriers & Pt Status Care Plan	Ex-Offenders Services	Project Fresh Start Other
	Checklist	Financial Assistance	Cathedral of Hope Dallas County HOPWA Emergency Financial Assistance Other
1	CIF	Socialization	AIN/Daire Center Resource Center Hot Lunch Program White Rock Lunch Program Other
	CM Closure	Transportation	AIN (Bus passes or Care-A-Van) Other
owsheets	Consent Forms Incentives		Airy (bus basses or care A-Agu) Orner
eview Flows	Lost To Care	Substance Abuse	Legacy Counseling Greater Council on Alcohol and Drug Abuse Homeward Bound Other
nhlem l ist	Oral Health		
equest Outsr .	Referral Form Self Attestation		

ALL GRANT DOCUMENTATION AVAILABLE within EPIC EHR- inclusive of historical assessments & referrals

Chart Review	Select Flowsheets PKAMB HIV REFE		
Care Everywh			
SnapShot	HIV Referral Form	3/15/2018	11/28/2018
	Dental Services		Community Dental Care
*	Food		Resource Center Food Pantry
4	Transportation	AIN (Bus passes or Care-A-Van)	AIN (Bus passes or Care-A-Van)
Demographics Letters			
Order Entry			



WHODAS 12 Score

WHODAS 36 Score

BILLING REASON AND TIME

Report Links LOS

Patient Messa.

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#### **Care Coordination Impact**

- Providers can now see:
  - ACUITY
  - Referral closure
  - Documented barriers to care
  - Eligibility status

- Flowsheets provide streamlined, structured data entry, allowing better assessment of patients need for medical case management and shared view of progress to achieve clinic outcomes.
- Upon project completion, Case Management encounters <u>doubled</u>.



#### **EPIC Migration Results**

With completion of case management documentation migration to EPIC, reports can now be run to monitor:

- ✓ ACUITY Screening
- ✓ SAMISS Screening
- RISK REDUCTION Screening
- ✓ ELIGIBILITY Checklist
- ✓ CARE PLAN Updates
- ✓ BARRIERS TO CARE
- ✓ ORAL HEALTH Screening
- ✓ MEDICATION ADHERENCE
- Succinct tracking of patients through medical case management and their readiness to graduate from medical case management - through the build of the ACUITY flowsheet- facilitated productivity and retention of clients in care.



### Results (cont'd)

- AUDIT REVIEW COMPARISON 2016-2018
  - ACUITY: improved from 0% to 87%
  - Frequency of contact matches ACUITY: improved from 0% to 76%
  - Referral tracking: improved from 0% to 92%

Audit Accolades- Recent State and Federal monitoring of the program determined that this EPIC Grant Documentation Project set the team as 'trailblazers' in establishing <u>best practice</u>.

Reporting created now validates capacity and prioritization.

Documentation efforts have allowed more robust 'deep dives' when analyzing why clients are not achieving outcomes (ACUITY, Barriers to Care, Referral Closure)

Using EPIC to its full breadth improved data governance and report consolidation, while incorporating grant metrics and requirements through novel, seamless utilization.







#### Contact information:

Piper Duarte, Performance Improvement Analyst Piper.Duarte@phhs.org