

Predicting Risk of Hospitalization and Death

SD Fihn MD MPH

Clinical System Development and Evaluation Veterans Health Administration



POLL

What is your primary role in the VA?

- A. PACT Physician
- B. PACT Nurse
- C. Other Clinical Staff
- D. Other Administrative Staff
- E. Other

Knowledge of a patient's clinical characteristics and risk of adverse event can help target services

Broad range of clinical programs designed improve care for veterans with complex chronic illness

Home-based primary care

Providers can't accurately predict patients at highest risk of deterioration

PACT RN Care Managers charged to coordinate care

No systematic way to identify Veterans who might benefit most → predictive analytics using data from EHR

Initial Development of the Care Assessment Need (CAN) Score

- 4,505,501 veterans enrolled in primary care who had ≥1 visit
 - Validated models in literature Benchmarking, Candidate covariates
- Standard and multinomial (polytomous) logistic regression
 - Conjoint modeling of hospitalization/death w/in 90d, 1-yr
 - 90 terms from 7 domains in CDW
- Probability of admission or death within a specified time period (90 days or 1 year) converted to percentile, (0 = lowest risk, 99 = highest risk) in relation to all other enrolled Veterans

Input Variables – CAN 2.0

Demographics

Age Group

Air Force Flag

Eligibility (1, [2-4], 5+)

Rank Flag (Officer vs

Enlisted)

Marital Status

Priority

SES index

Sex

Vital Signs

BMI (≥40)

Weight Variability

HR (80-60)

Resp Rate (≥20)

Sys & Dias BP

Utilization

No. Hospital/Bed Days

No. Medical Providers

No. Visit Type:

ΑII

Inpatient

Emergency Care

Cardiology

CT

Mental Health

Other Non-Face

Primary Care (PC)

Phone Care

PC Phone Care

No. 11-20min Phone

No. 21-30min Phone

No. Est Office Visit

Chronic Illness

Deyo-Charlson Score

HCCs:

AFib and CHF

Dementia

Mental Health and PTSD

Metastatic Cancer

Alcohol

Chronic Airway

Obstruction

Lab/Radiology

No. Albumin

No. Blood, Urine, Nitrogen

Lymphocytes (Low)

Red Blood Cells (Low)

Sodium (Low)

White Blood Cells (High)

No. Troponin

No. Chest X-Ray

<u>Pharmacy</u>

Antipsychotic

Beta-blocker

Benzodiazepine

Beta agonist nebulizer

Furosemide

Statin

Metformin

NSAID

Furosemide Tablets

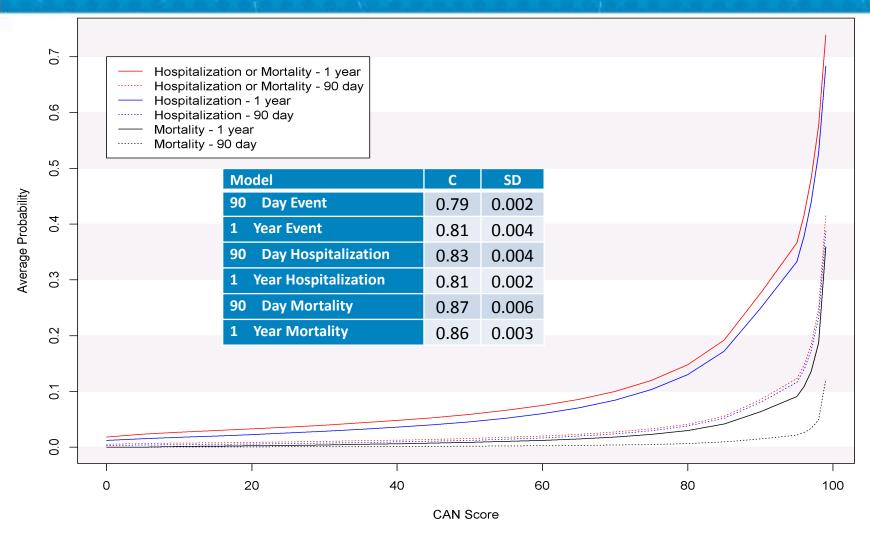
No. of drugs filled

Text Notes

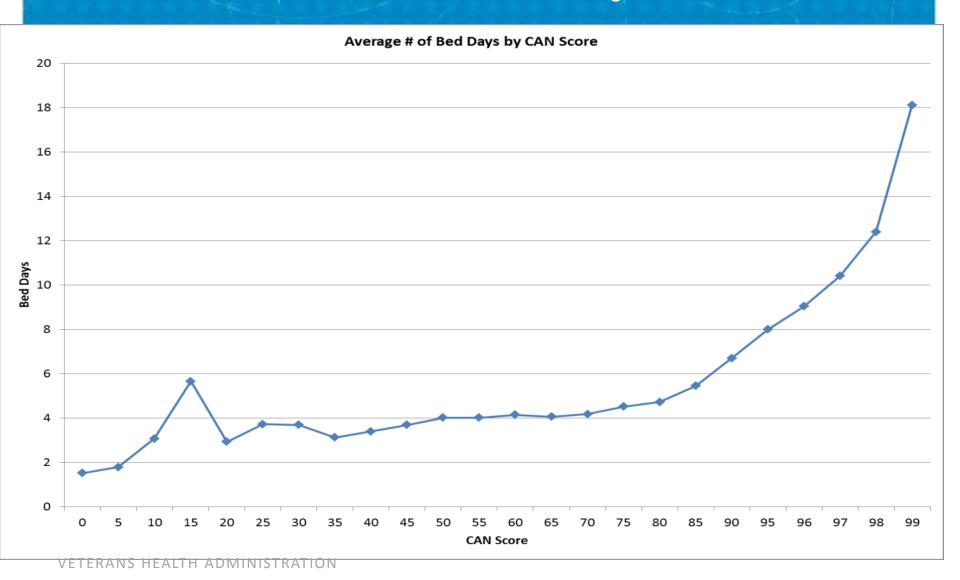
No. Consent Notes

No. Telephone Notes

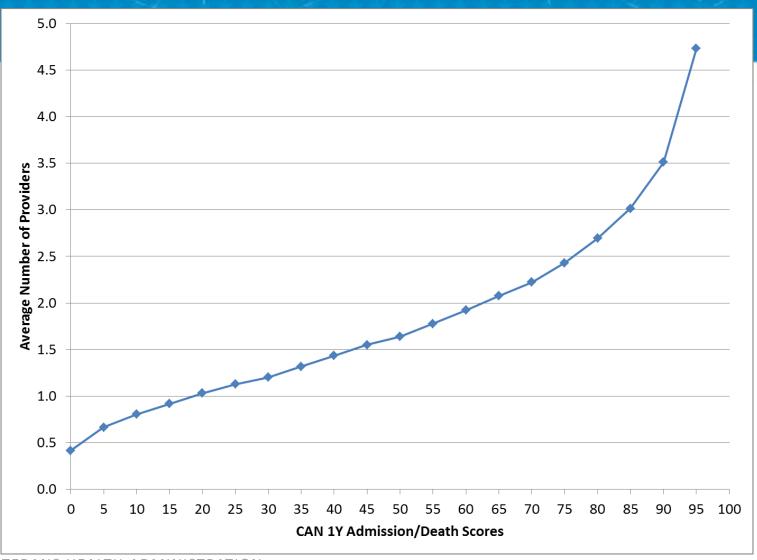
Average Probabilities by CAN Score



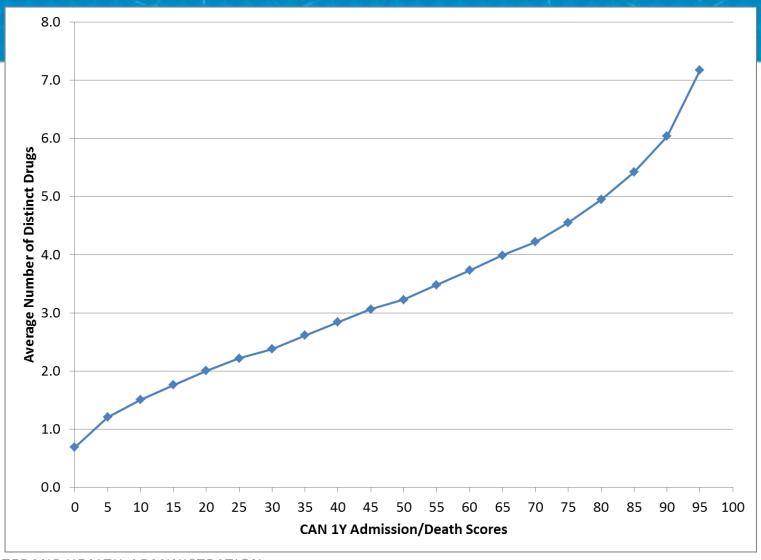
Mean Bed Days



Mean Number of Providers by CAN Score



Mean Number of Distinct Drugs by CAN Score



Risk Data Updated Weekly

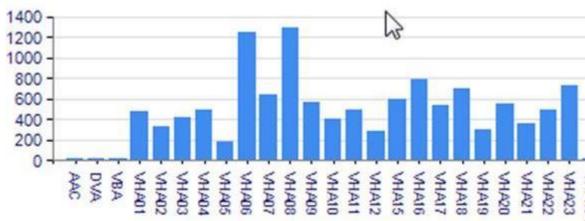
		CARE MANAG	EMENT RESOU	IRCES I	N USE		UTILIZATION						
	CCHT	PALLIATIVE CARE	Last Pal Care Visit	нврс		2yr ER/UC Visit Count	2yr Disch Count	Last Disch Date	2yr PC Visit Count	Last PC Visit Location	Last PC Visit Date		
OFFICECEANATED						2							

						CARE MANAG	SEMENT RESOL	IRCES I	N USE	UTILIZATION					
CAN Score	Patient Name	SSN	Probability of Event	Diagnoses Count	сснт		Last Pal Care Visit	нврс		2yr ER/UC Visit Count		Last Disch Date	2yr PC Visit Count	Last PC Visit Location	Last PC Visit Date
⊟ 99			45 %	4						2					
			18 %	7						5	1				
□ 97			18 %	3						3					
			15 %	5						4					
⊟ 96			15 %	4						3	2				

CAN USAGE 2016-17

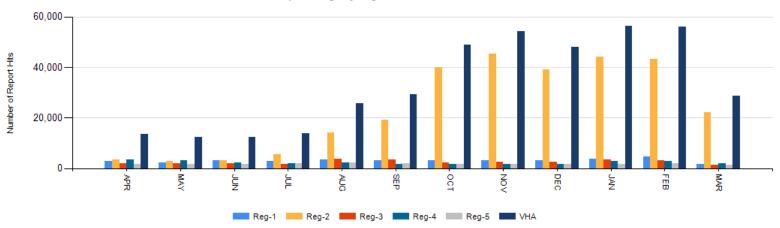


Unique Users By VISN all years

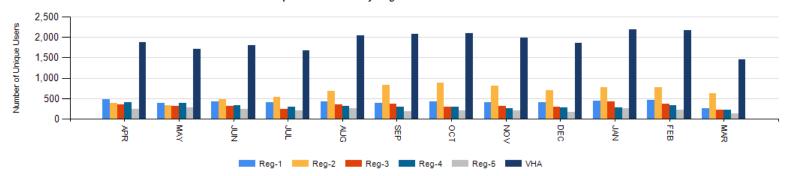


Current CAN Usage -- Most Use in Region 2 (VISN 8)





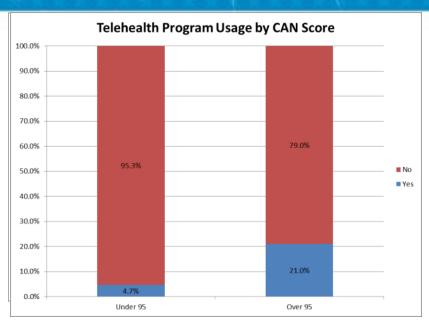


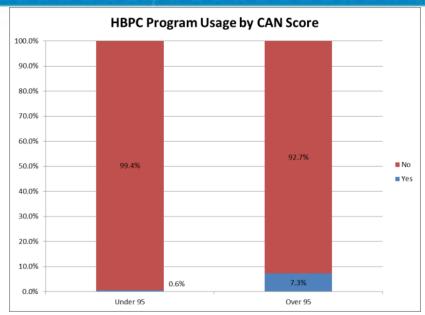


^{*} This only reflects use of reports produced by the VSSC and will not include counts of when RDW or VDW have included the CAN Score index in a local or regional report.

^{**} Drill to detail by selecting a Region column.

Few Patients with High Scores Referred to Coordination Programs Telehealth, HBPC, Palliative Care, and Hospice





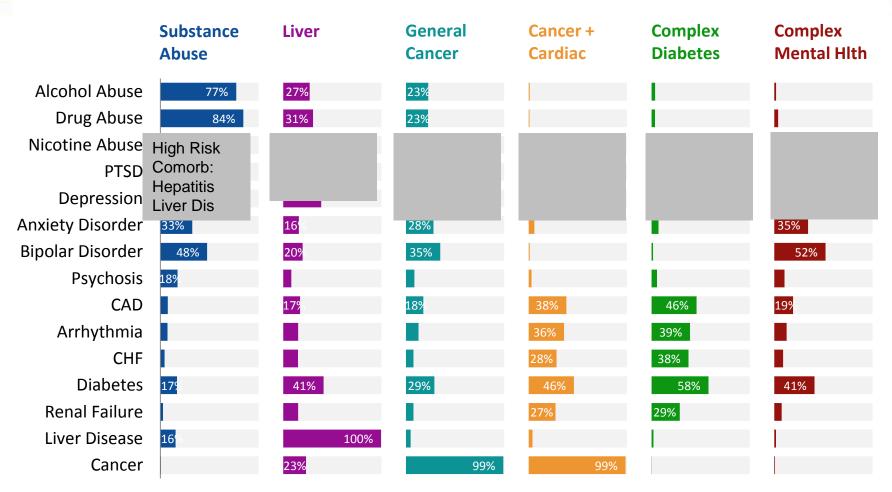
Palliative Care Score \geq 95 --5,000 of 268,833 total patients (1.9%) Hospice Score \geq 95 -- 775 of 268,833 total patients (0.2%)

Issues

- Nonspecificity
 - About 1/3 of patients with very high score deemed appropriate for intensive primary care management.
 - Score does not link to specific action
 - Out of work-flow
- Depends mainly on VA data
 - May not perform as well for care in the community.
- Special Populations

Clinical Subgroups of High-Risk Patients (IRT)

Diagnoses by Subgroup



Inpatient Services of High Risk Patients

Subgroup	N patients	All VA Hospitalizations Per Pt/Per Year Mean (SD)	Psychiatric Hospitalizations Per Pt/Per Year Mean (SD)	Readmissions within 30 days Per Pt/Per Year Mean (SD)	Length of Stay 8+ days (% of All Hospitalizations)	ED Visits Per Pt/Per Year Mean (SD)
"Substance Abuse"	10,579	1.06 (1.68)	0.24 (0.69)	0.55 (1.02)	65.6	2.72 (3.81)
"Liver"	5,826	1.14 (1.67)	0.05 (0.30)	0.55 (1.03)	53.2	2.28 (2.99)
"General Cancer"	5,026	0.83 (1.35)	0.05 (0.28)	0.63 (1.26)	49.4	1.95 (2.84)
"Cancer + Cardiac"	8,628	1.09 (1.54)	0.01 (0.09)	0.58 (1.11)	52.6	2.00 (2.50)
"Complex Diabetes"	23,691	0.86 (0.57)	0.01 (0.15)	0.58 (1.07)	45.7	1.95 (2.55)
"Complex Mental Hth"	14,649	0.57 (1.02)	0.09 (0.40)	0.55 (1.09)	40.2	2.08 (2.70)

Outpatient Services of High Risk Patients

		Per Patient/Per	r Year: Mean (SD)		
Subgroup	N patients	PC PCP visits in person	PC phone visits (all providers)	Outpatient specialty visits (any non-PC encounters)	Mental health clinic outpatient encounters	PCMH in person & phone encounters
"Substance Abuse"	10,579	4.65 (4.74)	0.25 (0.52)	4.70 (7.47)	29.18 (34.58)	0.71 (2.44)
"Liver"	5,826	5.17 (4.33)	0.48 (0.68)	10.59 (12.76)	10.16 (23.08)	0.43 (2.05)
"General Cancer"	5,026	4.94 (4.33)	0.48 (0.68)	11.15 (14.25)	8.85 (18.08)	0.62 (2.53)
"Cancer + Cardiac"	8,628	4.98 (4.54)	0.55 (0.72)	14.40 (17.18)	0.94 (4.47)	0.11 (0.79)
"Complex Diabetes"	23,691	5.18 (4.77)	0.48 (0.70)	9.54 (12.10)	2.27 (9.65)	0.20 (1.34)
"Complex Mental Hith"	14,649	5.51 (4.74)	0.38 (0.64)	6.70 (8.84)	12.13 (19.27)	0.73 (2.78)



A Point-of-Care Clinical Application for Team-Based Primary Care

Tamara L. Box, PhD
Stephan D. Fihn, MD MPH

VHA OFFICE OF CLINICAL SYSTEMS DEVELOPMENT AND EVALUATION

POLL

Have you ever used CAN or PCAS?

- A. No, I have not used them.
- B. I have only used CAN.
- C. I have only used PCAS.
- D. I use both of them regularly.



The Patient Care Assessment System is a

web-based application

to provide

Patient Aligned Care Teams (PACT)

with

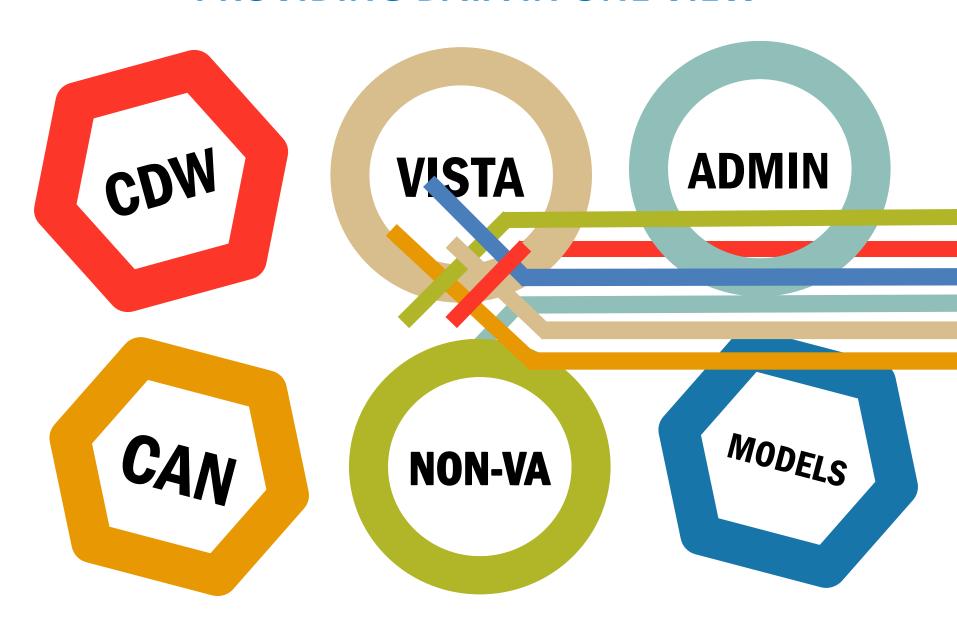
tools to

identify, manage, and coordinate care

for their paneled patients.

Special emphasis is given to high risk patients and sub-populations.

PROVIDING DATA IN ONE VIEW



PROVIDING DATA IN ONE VIEW



PACT TEAM management

RISK-BASED

patient identification

& tracking

one-click
PANEL FILTERS

monitor CONSULTS & CARE



VA/Non-VA
CLINICAL DATA
summary & search

CARE PLANNINGtasks & notifications

RELEASE 3 - CARE and CASE MANAGEMENT modules & CPRS notes

HOW DO I GET TO PCAS?

- NO local installation needed
- Linked through Primary Care Almanac (Tools Menu)
 (coming soon!)
 - Direct URL
 - Through CPRS
- No Special Login Required
 - If you are a member of a PACT team, the application will recognize you!
 - If you are not part of a team in PCMM, we are working on enhanced access in early 2017 – stay tuned!
- Available nationwide; 4000+ users from every VISN and used nearly 30,000 times so far in FY17





Manage Patients Consults Administration Tasks News

Manage Patients

Hide Page Overview... 🖄

Use the fields below to filter your panel to find a specific patient or group of patients. Or, use the risk-based panel filters on the right to quickly locate a group of patients. Each underlined column is sortable. Once you have found your patient, simply click on their name to navigate to their PCAS record.

Filter Panel By Patient(s) or Appointment:		Or Filter Panel Based on Risk Characteristics:
Search By Name:	Go [?]	Manual High Risk Flag
Search By Last 4 SSN:	Go [?]	Top CAN Scores (1yr, death or admission model)
Search By Next Appointment Date:	Start Date: End Date: Go [?]	Top Clinical Priority OR Select ✓
Search by Gender:	Choose Gender [?]	Received Homeless Services (last 12 Months)
		Suicide Risk
		Home-Based Primary Care
		Home Telehealth Participants
		Palliative Care
		Hospice Care
		Heart Failure Patients with an Admission in Last 30 Days
		Bed Days of Care (BDOC)
		MCA Cost (Formerly DSS Cost)
		Goals of Care Conversation for Life-Sustaining Treatment (GOCC) [?]
	Clear Filter	

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Consults

Filter Panel By Patient(s) or Appointment:

Administration

Manage Patients

Manage Patients

Hide Page Overview... 🖄

Search By Name:

Search By Last 4 SSN:

Search by Gender:

Search By Next Appointment Date:

Once y

ANALYTICS & BUSINESS INTELLIGENCE Or Filter Panel Based on Risk Characteristics: Manual High Risk Flag Top CAN Scores (1yr, death or admission model) sortable. Top Clinical Priority | OR Select | Received Homeless Services (last 12 Months) Suicide Risk Home-Based Primary Care Start Date: Home Telehealth Participants Palliative Care -- Choose Hospice Care Heart Failure Patients with an Admission in Last 30 Days Bed Days of Care (BDOC) MCA Cost (Formerly DSS Cost)

Goals of Care Conversation for Life-Sustaining Treatment (GOCC) [?]



User: VHA19\VHADENBoxT

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<u>Last</u> <u>4</u> <u>SSN</u>	Patient Name	CAN	Clinical Priority	Clinical Priority Reason	High Risk Flag	High Risk Flag Reason	VA Last Appointment	VA Next Appointment	Care Plan Reevaluation Date	Care Plan	Tasks	GOCC [?]	<u>Team</u>	Active or Pending Consults	BDOC	MCA Cost
1000	Test, Patient	99	9	Esophageal cancer s/P surgery	Y	Homeless, Cancer	DD MMM YYYY	DD MMM YYYY	N/A	N/A	=	NO	TEAM A	1	1	\$23,927.15
1001	Test2, Patient	98	9	CAD, Diabetes, Obesity, Sleep apnea, Pain, anxiety, Dysthymic Disorder	Υ	Clinical Priority, Statistical High Risk (CAN)	DD MMM YYYY	DD MMM YYYY	N/A	N/A	=	NO	ТЕАМ В	<u>3</u>	10	\$40,160.62
1002	Test3, Patient	98	10	PVD, CAD, Carotid Artery Dz, COPD, Tobacco Use, Bipolar Disease	Y		DD MMM YYYY	DD MMM YYYY	N/A	N/A	=	NO	ТЕАМ В	1	0	\$16,066.27
1003	Test4, Patient	98	7	Hemodialysis	Y	Dialysis	DD MMM YYYY	DD MMM YYYY	N/A	N/A	≔	NO	ТЕАМ А	<u>1</u>	7	\$229,689.76
	Liver Transplant Liver Transplant BDOC															
	DSS Clear Filter															



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Patient Information

Risk Characteristics
Patient Demographics

Risk Characteristics

Hide Page Overview... 🖄

Statistical, clinical and cost risk factors are provided on this page. Please note: tooltips [?] are provided to help you understand the data. Hover over the [?] to display the tip and click on the [?] to make it disappear.

Hide Risk Indicators... 🖄

Assign Clinical Priority & High Risk Flag

View History

CARE ASSESSMENT NEEDS SCORES [?]

(CAN) Scores (1-99):

Admission

Combined Event (Death or Admission)

90 day Score:

97 (19%)

97 (20%)

1 year Score:

97 (42%)

97 (53%)

Clinical Priority (1-10) [?]:

_~

Manual High-Risk Flag [?]:

Yes

Risk Flag Reason [?]:

Mild dementia

National BDOC [?]:	3
Polypharmacy Count [?]:	16
Pain Scale [?]:	0
OEF/OIF/OND [?]:	No
Suicide Risk [?]:	No
Received Homeless Services (last 12 months) [?]:	NULL
Home-Based Primary Care [?]:	No
Home Telehealth Participant [?]:	No
Palliative Care [?]:	No
Hospice Care [?]:	No
Spinal Cord Injury [?]:	NOT APPLICABLE
Agent Orange Exposure Documented [?]:	No
Heart Failure Re-Admission 30-day Watch [?]:	No

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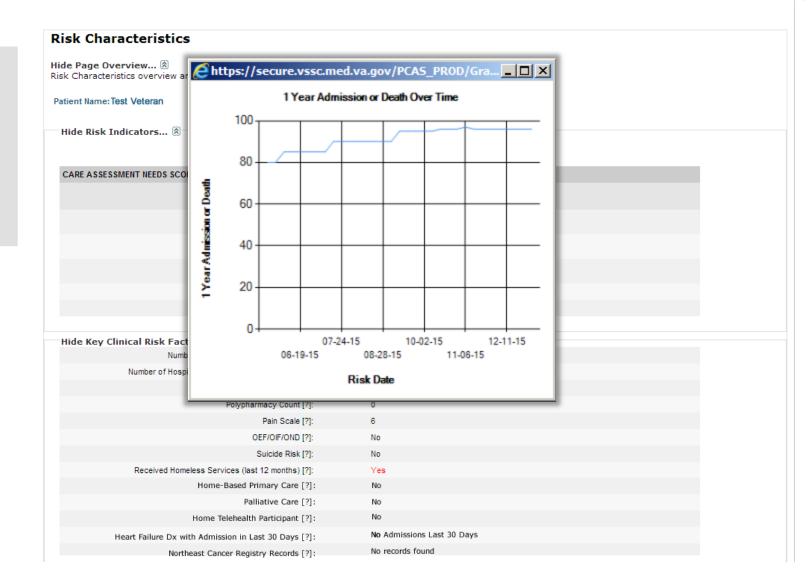
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Team Information

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Inpatient Discharges
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TASKS and REMINDERS





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Statistical, clinical and cost risk factors are provided on this page. Please note: tooltips [?] are provided to help you understand the data. Hover over the [?] to display the tip and click on the [?] to make it disappear.

Assign Clinical Priority & High Risk Flag

View History

CARE ASSESSMENT NEEDS SCORES [?]

(CAN) Scores (1-99): Admission Combined Event (Death or Admission)

90 day Score: 97 (19%) 🗠 97 (20%)

1 year Score: 97 (42%)

Clinical Priority (1-10) [?]: 7

Manual High-Risk Flag [?]: Yes

Risk Flag Reason [?]: Mild dementia

National BDOC [?]: 3 Polypharmacy Count [?]: 16 Pain Scale [?]: OEF/OIF/OND [?]: No Suicide Risk [?]: No Received Homeless Services (last 12 months) [?]: NULL Home-Based Primary Care [?]: No Home Telehealth Participant [?]: No Palliative Care [?]: No Hospice Care [?]: No NOT APPLICABLE Spinal Cord Injury [?]: Agent Orange Exposure Documented [?]: No Heart Failure Re-Admission 30-day Watch [?]: No



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Palliative Care [?]:

Home Telehealth Participant [?]:

Northeast Cancer Registry Records [?]:

Heart Failure Dx with Admission in Last 30 Days [?]:

News

Hide Key Clinical Risk Factors (for the past 12 months) ... 🖄 Number of ER Visits (last 12 months) [?]: [?] TOOLTIP FOR HOMELESS ITEM Source: PCP Panel Cube. Updated: Nightly. This field indicates if a patient has received any VA homeless services in the last 12 months. Received Homeless Services (last 12 months) [?]: Yes Home-Based Primary Care [?]: No Palliative Care [?]: No No Home Telehealth Participant [?]: No Admissions Last 30 Days Heart Failure Dx with Admission in Last 30 Days [?]: No records found Northeast Cancer Registry Records [?]:

No Admissions Last 30 Days

No records found





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Hide Page Overview... (8)
Risk Characteristics overview and page directions will be pulled from database.

Hide Key Cost Risk Factors (for the past 12 months) ... 🙈

MCA Cost [?]: \$13,077.97

Beneficiary Travel Costs [?]: \$0.00

FEE Costs (Disbursed Amount) [?]: No Records Found

FEE Costs (Payment Amount) [?]: No Records Found

VERA Classification Last Fiscal Year [?]: 5: Multiple Problem

VERA Classification Current Fiscal Year [?]: 2: Basic Medical/Ht, Lung, GI

Number of Hospital Discharges (last 12 months) [?]: National BDOC [?]: Polypharmacy Count [?]: 0 Pain Scale [?]: 6 OEF/OIF/OND [?]: No Suicide Risk [?]: No Received Homeless Services (last 12 months) [?]: Yes Home-Based Primary Care [?]: No Palliative Care [?]: No Home Telehealth Participant [?]: No Admissions Last 30 Days Heart Failure Dx with Admission in Last 30 Days [?]: No records found Northeast Cancer Registry Records [?]:

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Team Information

Hide Page Overview... 🖄

Team Information Overview Text will go here, no need to add directly to database or page just use this front end and all will populate correctly.

PACT Team

FACITCAIII											
Team Name	Team Member Name	Position [?]	Role [?]	Location [?]	Date Assigned [?]	Office Phone	Digital Pager	Email Address	Receive PCAS Notifications		
CBC WILLIMANTIC LIMA *WH*	MEMBER NAME	MEDICAL SUPPORT ASSISTANT	PC ASSIGNMENT	689GC	07/12/2012	860-450-			Yes		
CBC WILLIMANTIC LIMA *WH*	MEMBER NAME	REGISTERED NURSE	PC ASSIGNMENT	689GC	07/12/2012	860-450-			No (01/03/2015)		
CBC WILLIMANTIC LIMA *WH*	MEMBER NAME	PHYSICIAN	PC ASSIGNMENT	689GC	07/12/2012	860450			Yes		
CBC WILLIMANTIC LIMA *WH*	MEMBER NAME	REGISTERED NURSE	PC ASSIGNMENT	689GC	07/12/2012	2140			<u>Yes</u>		
CBC WILLIMANTIC LIMA *WH*	MEMBER NAME	HEALTH TECHNICIAN	PC ASSIGNMENT	689GC	07/12/2012	860-450-			Yes		

CBC WILLIMANTIC LIMA *WH*

MEMBER NAME

HEALTH PC
TECHNICIAN ASSIGNMENT

689GC

07/12/2012

860-450-

Yes

Home/Community Provider Information

No Home/Community Provider Information Found

Add Home/Community Provider

News **Manage Patients** Consults Administration Tasks Outpatient Encounters (Last 12 Months) Patient Information Risk Characteristics Hide Page Overview... - Seclect One - -0 ETI TED End Date: Diagnosis (keyword or ICD): -- Seclect One FILTER Go Start Date: Stop Code: -- Seclect One --Go 01/1//2014 Name MEDICAL /9U./; BACTEREMIA FEE HOSPITAL CONNECTICUT 330 01/21/2014 HEM ONC INFUSION CHAIR 2 WHAV 161.9: MALIGNANT NEOPLASM OF LARYNX, UNSPECIFIED VHA Name Specialty Care HCS CONNECTICUT 01/24/2014 Diagnostic 108 LAB DIV 689 OOS ID 108 VHA Name HCS CONNECTICUT 01/28/2014 Specialty Care 330 HEM ONC INFUSION CHAIR 2 WHAV 161.9: MALIGNANT NEOPLASM OF LARYNX, UNSPECIFIED VHA Name HCS CONNECTICUT 01/28/2014 Ancillary 160 INPT PHARM ADMISSION WHAV-X VHA V58.83: ENCOUNTER FOR THERAPEUTIC DRUG MONITORING Name HCS SMITH 01/28/2014 ER FEE Name 786.05: SHORTNESS OF BREATH HOSPITAL CONNECTICUT 108 01/31/2014 Diagnostic LAB DIV 689 OOS ID 108 VHA Name HCS



Manage Patients	Consults	Administration	Tasks	News	
Patient Information	Innatient	Discharges (Last 12	Months)		
	inputiont	Discharges (Last 12	rionens)		
Risk Characteristics	Hide Page Ov	erview 🖄			

FILTER	Start Date:	End Date:	Go	Diagnosis (keyword or ICD): Seclect One Go
			_	Type: Choose Type Go

Discharge Date	Facilty Location	<u>Discharge Diagnosis</u>	Discharge Case Manager/Nurse	<u>Туре</u>
01/05/2015	WEST HAVEN	188.4: MALIGNANT NEOPLASM OF POSTERIOR WALL OF URINARY BLADDER	PROVIDER NAME	VA
12/12/2014	SMITH HOSPITAL	458.0: ORTHOSTATIC HYPOTENSION		FEE
08/01/2014	WEST HAVEN	997.5: URINARY COMPLICATIONS, NOT ELSEWHERE CLASSIFIED	PROVIDER NAME	VA
		188 4: MALIGNANT NEOPLASM OF		





Manage Patients Consults Administration Tasks News **Patient Information**

Risk Characteristics Patient Demographics Secondary Contacts Team Information

Outpatient Encounters Inpatient Discharges
Labs and Immunizations Health Factors Vital Signs Medications

Health Fac	Health Factors (Last 12 Months)							
Hide Page Over Team Informatio	view 🖄 n Overview Text will go	here, no nee	d to add direct	y to database o	r page just use this	front end and all will	populate correctly.	4
Patient Name:			SSN:	DOB:				
FILTER	Start Date:	End Date:		Go	Health Factor Type:	Se lect One	Go	
	Health Factor (text search)):					Go	

FILTER	Start Date: Fac Both Fac	ctor Type: Se lect One Go
	Health Factor (text search):	Go

Date/Time	Health Factor Type	Comment
11/7/2014 8:30	HIV TEST - DECLINED	
11/7/2014 9:30	NOT REGISTERED FOR MHV	
11/14/2014 11:10	V1 - ADVANCE DIRECTIVE NOT AT VAMC	patient will bring in a copy at next visit
1/15/2015 15:25	NEGATIVE - HAS STABLE HOUSING	





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ANALYTICS & BUSINESS INTELLIGENCE Consults Administration Tasks **News** Manage Patients **Patient Information** VA and Non-VA Medications Risk Characteristics Hide Page Overview... Patient Demographics Team Information Overview Text will go here, no need to add directly to database or page just use this front end and all will populate correctly. Secondary Contacts Team Information Patient Name: SSN: DOB: Outpatient Encounters 4 or -- Choose Name -- -Medication Name: Filter End Date: Prescribing Date: Start Date: -- Seclect One -- 💌 Status: Go Clear Filter Hide Patient VA Meds ... (8) Prescribing Medication Dosage Med Start Date Status **Expiration Date Refill Date** Renewal Date Location VACT-10/1/2014 9/29/2014 7/24/2014 ZOLPIDEM 10 MG **ACTIVE** 10:22:00 AM 12:00:00 AM 12:00:00 AM NEWINGTON,CT **FERROUS** 9/26/2014 10/30/2016 9/15/2014 10/8/2013 VACT-WEST 325 MG **EXPIRED** 12:02:20 PM 12:00:00 AM 12:00:00 AM 12:00:00 AM SULFATE HAVEN,CT 2/25/2013 2/22/2013 2/22/2013 VACT-WEST 9/30/2014 300 MG GABAPENTIN **EXPIRED** 1:13:41 PM 12:00:00 AM 12:00:00 AM 12:00:00 AM HAVEN,CT TRAMADUL 50 MG 10:20:14 AM 12:00:00 AM 12:00:00 AM 12:00:00 AM PROVIDER HAVEN,CT 2/25/2013 9/30/2014 2/22/2013 2/22/2013 VACT-WEST LORAZEPAM 1 MG **EXPIRED** 1:13:42 PM 12:00:00 AM 12:00:00 AM 12:00:00 AM HAVEN,CT 11/12/2014 11/10/2014 5/29/2014 VACT-LORAZEPAM 1 MG DISCONTINUED 12:05:00 PM 12:00:00 AM 12:00:00 AM NEWINGTON,CT

E/01/2016

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Patient Consults		
Hide Page Overview © Consults for patient, select consult for more details.		
Patient Name: Test Veteran	SSN: XXXX	DOB: 00/00/0000

Filter:					
Filter By CPRS Status:	Choose ▼ Go				
Filter By Request Date:	Start Date: Go				
Clear Filter					

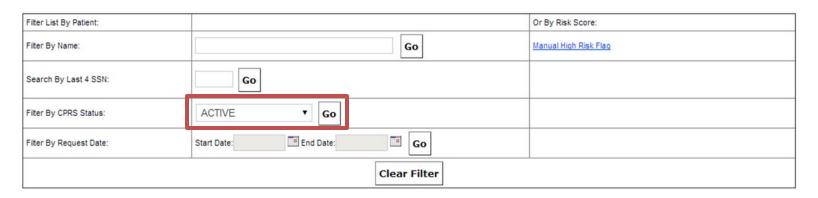
	To Request Service Name	Request Date	<u>Urgency</u>	CPRS Status
Select	O/RHEUMATOLOGY OPT	02/06/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	O/GASTRO COLONOSCOPY	02/06/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	EYEGLASS REQUEST - OMAHA	02/19/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	PROSTHETICS REQUEST - OMAHA	03/26/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	O/OCCUPATIONAL THERAPY	03/26/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	O/PHYSICAL THERAPY OUTPATIENT	03/26/2013	GMRCURGENCY - ROUTINE	CANCELLED
Select	PROSTHETICS REQUEST - OMAHA	04/05/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	PROSTHETICS REQUEST - OMAHA	04/05/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	O/GASTRO COLONOSCOPY	05/07/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	O/GENERAL SURGERY HEMORRHOIDS	05/07/2013	GMRCURGENCY - ROUTINE	COMPLETE
Select	O/ENT OTHER	05/07/2013	GMRCURGENCY - WITHIN 1 MONTH	COMPLETE
Select	O/OPHTHALMOLOGY OPT OTHER	06/25/2013	GMRCURGENCY - ROUTINE	CANCELLED
Select	O/UROLOGY HEMATURIA	01/07/2014	GMRCURGENCY - ROUTINE	SCHEDULED





Manage Patients Consults Administration Tasks News

Consults



	Last 4 SSN	Patient Name	High Risk Flag	Request Date Time	Request Service Name	CPRS Status	<u>Team</u>
Select	1234	Patient Name		04 Dec 2013	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		20 Nov 2013	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		17 Jan 2014	O/ENT VERTIGO/DIZZINESS	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		22 Nov 2013	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		22 Oct 2013	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		15 Jan 2014	O/NON VA CARE ACUPUNCTURE	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		24 Dec 2013	O/NON VA CARE PHYSICAL THERAPY	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name	OKS .	18 Nov 2013	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		02 Dec 2013	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		18 Nov 2013	O/GASTRO COLONOSCOPY	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		27 Dec 2013	O/NON VA CARE EMG	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		14 Jan 2014	O/PHARMACY MEDICATION THERAPY MANAGEMENT	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		17 Jan 2014	O/PHARMACY MEDICATION THERAPY MANAGEMENT	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		14 Jan 2014	O/NON VA CARE CARDIOLOGY ECHO CONSULT	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		10 Jan 2014	O/NON VA CARE DERMATOLOGY	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		10 Jan 2014	о/сснт	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		06 Dec 2013	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)
Select	1234	Patient Name		07 Jan 2014	O/NON VA CARE PAIN REFERRAL	ACTIVE	OMA PACT 003 (636)





earch By Last 4 SSN: Go	Iter Panel By Patient(s) or Appointr	nent:				Or Filter Par	nel Based on Risk Characteristics	:
Search By Next Appointment Date: Start Date	Search By Name:			Go		Manual High F	Risk Flag	
Received Homeless Services (last 12 Months) Suicide Risk Home-Based Primary Care Home Telehealth Participants Clear Filter	Search By Last 4 SSN:	Go				Top CAN Sco	res (1vr, death or admission model)	
Suicide Risk Home-Based Primary Care Home Telehealth Participants Clear Filter	Search By Next Appointment Date:	Start Date:	End Date:	Go		Top Clinical P	riority	
Home-Based Primary Care Home Telehealth Participants Clear Filter						Received Hor	neless Services (last 12 Months)	
Home Telehealth Participants Clear Filter						Suicide Risk		
Clear Filter						Home-Based	Primary Care	
Clear Filter						Home Teleher	alth Participants	
Clear Filter								
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Call Priority Call Call Priority Call Ca								

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Tasks/Notifications

Hide Page Overview... 🖄

Task and Notification page overview goes here.

CHECK YOUR TEAM NOTIFICATION SETTINGS

Tasks

Filter Tasks By:

Status

-- Select Status --

Go

Assigned To:

-- Select Assigned To --

Go

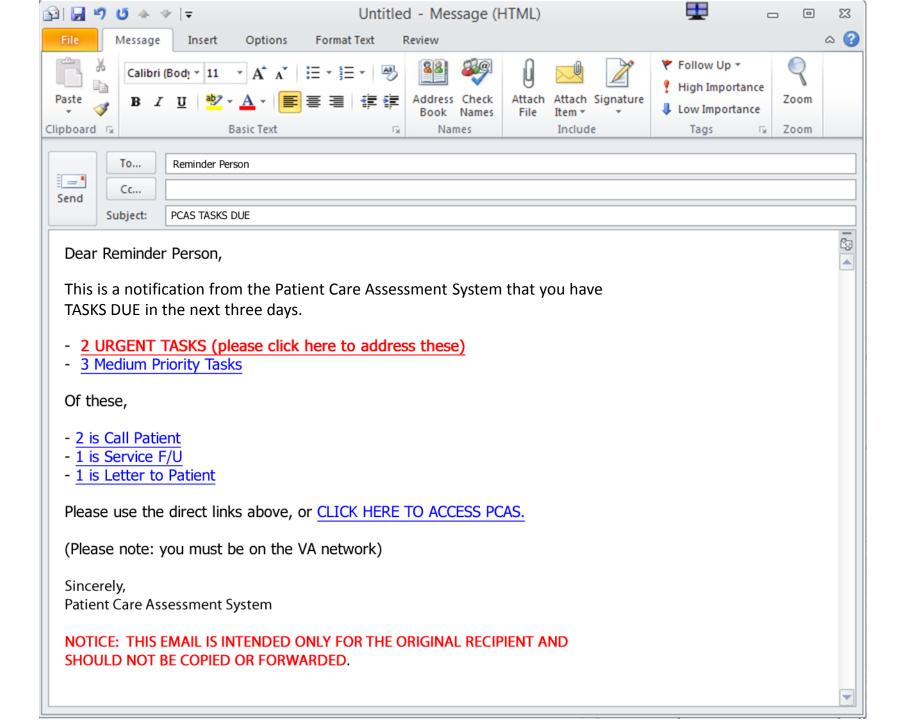
Type: --

-- Select Type -- 🔻

Go

Clear Filter

	Assigned To	Task Due Date	Task Type	Task Requested Date	Last Follow-Up Date	Task Priority	Status	
Select	JANE DOE	03/25/2015	Call Patient	03/19/2015	03/20/2015	URGENT	Complete	<u>Delete</u>
Select	JOHN DOE	03/24/2015	Check Lab Results	03/19/2015		Medium	On Hold	<u>Delete</u>
Select	JANE DOE	03/25/2015	Letter to Patient	03/19/2015		HIGH	Pending	<u>Delete</u>
Select	JOHN DOE	03/23/2015	Check Screening Results	03/19/2015		Low	On Hold	<u>Delete</u>





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CARE PLANNING

Patient Notes Learning Preferences Patient Health Inventory Assessment and Goals

TASKS and REMINDERS

CARE PLAN NOTE

CASE MANAGEMENT FLAGS (Past 12 months)

E.g.,

- Visits related to Hospice,
- Purchased Skilled Home Care,
- Non VA Care Coordination,
- Caregiver Program,
- Mental Health Case Management, etc...



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TASKS and REMINDERS

CARE PLAN NOTE

Upcoming Appointm

FILTER	Start Date:	
	Appointment Type:	 Se

Appt Date/Time	Facilty
03/21/2017	TAMPA VAN
04/16/2017	TAMPA VAN
05/01/2017	TAMPA VAM
06/01/2017	TAMPA VAM
08/05/2017	TAMPA VAM
09/12/2017	TAMPA VAN

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TASKS and REMINDERS

CARE PLAN NOTE

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/ Stop Code sits Only)	Scheduling Request Type	Length
35	O: Other Than Next Available	30
36	C: Clinician Req	30
) 9	P: Patient Req	20
12	A: AutoRebook	15
315	N: Next Available Appt	30
	O: Other Than Next Available	60



Manage Patients	Consults	Administration	Tasks	News	
Please select th	ne situation or t	packground that app	lies to this n	ote:	View Previous Notes:
Social Issu Exacerbat Developme Hospitaliza Emergenc Newly Hor	ion of chronic di ent of new chro etion y of urgent care neless ase include in t	sease state nic illness e visit			O 22 Feb 2017 Functional Status Concerns O 27 Feb 2017 New Chronic Illness Hospitalization O 3 Mar 2017 Functional Status Concerns
Functional Sta Social Issues	BACKGROUND (atus Concerns al note text)	JPDATE CONCERNIN	IG:		
			Save Can	cel	VIEW



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Learning Preferences

Patient Name: Test Veteran

Tasks

SSN: XXX

News

DOB: 00/00/000

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TASKS and REMINDERS

CARE PLAN NOTE

*Focus on special needs

Learning Preferences

Vision/Hearing/Literacy
Communication Preferences
Educational Assessment
Style of Learning and Barriers

racienc, spouse, significant	O 103	
Other is ready to learn:	○ No	
Requires Special Aids to Comprehend:	Yes	
	○ No	
If "Yes" describe special aides required:		^
		~
Patient/Caregiver is Able to Read	○Yes	
and Write:	○ No	

Styles of Learning Preferred:

Reading Discussion Lecture



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CARE PLAN NOTE

THE COMPONENTS OF PROACTIVE HEALTH AND WELL-BEING

Community

Patient Health Inventory From: Office of Patient Centered Care

Personal Health Inventory Professional Care Reflections

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CARE PLAN NOTE

Assessment and Goals

Patient Name: Test Veteran

SSN: XXX

DOB: 00/00/000

Problem Identification

<date last modified>

View History of Problem Identification

ASSESSMENT & GOALS

Problem Identification
Functional Status Assessment
ADLs, IADLs, Pain, Mental Health, Mobility
Care Plan Goals

Functional Status Assessment

Fall Risk:

No-Risk

O Low-Risk

Migh-Risk

View Morse Scale

Please select the information to include in this note:

- Most recent CAN scores
- PCAS Clinical Priority score and description
- ☐ Next 3 appointments
- ☐ Pending or active consults
- ☐ Most recent Patient Note
- ☐ Learning Preferences
- □ Patient Health Inventory
- Assessment
- ☐ Goals

PA1

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CLI

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Vita Me

Pat

Pat Lea

Pat Ass

TAS

CAF

Current tasks associated with this patient's care

Note Text:

PCAS Care Plan Note

- **Most Recent CAN Scores**
- 90-day Admission 85 (5%)
- 1 yr Admission 80 (15%)
- 90-day Admission or Death 85 (7%)
- 1 yr Admission or Death 90 (24%)
- **PCAS Clinical Priority Score**
- 10; Statistical High Risk, Dialysis, Cancer

... (Add manual note text)...

View Previous CARE PLAN Notes:

- O 22 Feb 2017 01:22A
- O 27 Feb 2017 04:36P
- O 03 Mar 2017 12:11P

VIEW

Save | Cancel

SEND TO CPRS



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CARE PLAN NOTE

Non-VA Community Care Collaboration

- NVCC Team Access to PCAS (VA Providers)
- Care Planning Tasks enhancements
- Linking Consults to Appointments and Tasks

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Query

ews

QUERY and REPORT FUNCTIONALITY

COMBINE things like....

- Appointment Date Range
- Diagnosis Lookup
- Risk Characteristics or Group-Level Risk
- Combine Clinical Criteria beyond page filters

POLL

What PCAS function is most important to you?

- A. Viewing VA and Non-VA data in one summary location
- B. Quickly locating patients in a panel based on various risk characteristics
- C. Team-based tasking
- D. Creating a patient-centered plan and writing to CPRS
- E. Something else

TEAM

- Steve Krysiak
- Sophie Lo
- Will Green
- Craig Kreisler
- SP Thakur

Stephan Fihn, MD MPH

- ABI Colleagues and Collaborators
- PACT Nurse and Provider Members of Requirements Team
- ONS and PCS Implementation Leadership Team
- PCAS Champions

THANK YOU

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PCAS URL: https://secure.vssc.med.va.gov/PCAS