# Using the EHR to Improve Clinical Care

Clinical Decision Support Systems and Other Tools

Lorky Libaridian, MD May 21, 2022



1. Discuss the clinical context and framework for HER support tools

**Objective** 2. Review common support tools in the context of clinical needs and workflows

3. Explore at least 2 scenarios related to health informatics, clinical decision support and clinical care

I have no conflicts of interest



#### Some Initial Notes

We will use examples from primary care mostly, but these principles and tools apply to other specialties, inpatient, and other care delivery systems as well

We will look at the topic through the lens of an individual provider/clinical team, but also through the lens of the system

We will focus on clinical care, but there is a lot that can be done regarding utilization, efficiency, panel management, etc

The screenshots are from EPIC, however similar types of tools are available in other EHR's

EHRs are constantly evolving, and never perfect (including the tools shown here)



## Problems with EHR

Too many clicks... too many clicks... too many clicks!!!

Too many options for documentation (e.g. smoking, surgical history)

Too many individualizations cause problems

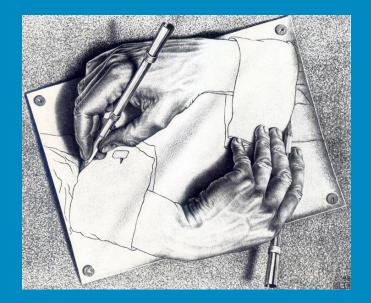
Too much manual input and not enough automation

Inconsistent/variable use from users within a specialty

Inconsistent/variable use from users between specialties and service lines (need system wide stakeholder engagement)



# Are EHR's actually Evil?



#### Legibility

Standardization

Reminders for due/overdue care

Automation and ease (e.g. standing orders, order sets)

Understanding care provided (data collection, reporting)

Communication and transparency with specialists and patients

Cost-effectiveness (e.g. alternatives)

Safety (e.g. DDI, dosing, abnormal results, SERS)

Utilization and Volume



#### Cases for Consideratio n

A mobile mammogram unit is going to go to 2 Marzes to do screening mammography. You are asked to "support the work."

It is observed that almost all of the children in a specific village are documented as having the same weight. You are asked to "use the EHR to figure it out and fix it."

The Medical Director at your clinic notices that children are not being given the appropriate vaccines at their appointments. You are asked to "use the EHR to figure it out and fix it."

The MoH wants to ensure that physicians are using the most appropriate and cost-effective BP medications. You asked to "use the HER to figure it out and fix it."

The MoH wants to reduce unnecessary antibiotic **Y**avetts

Healthcare Delivery: Providing Care To *whom* do we provide care, and *who* provides that care?

What care do we provide?

Where do we provide that care?

When do we provide that care?

Why do we provide that care?

*How* do we provide that care\*?

These are extremely important questions because we have to design the EHR to be able to provide many different aspects of care in many different settings, in a <u>safe</u>, <u>effective</u>, and <u>efficient</u> manner



#### Who

#### <u>By Whom</u>

Doctors, nurses, midwives Pharmacists, labs, ... Primary care, Specialists Hospital care Emergency Care, including ambulances Radiologists, Lab physicians (Analysts, Administrators, Finance specialists)

<u>To Whom</u> The individual The community



#### What

**Counseling and Prevention** 

Screening

Chronic disease management

Lab testing, Radiology

**Procedures and Surgeries** 

Inpatient care

**Emergency Care** 

Mobile Care



#### Where

ln...

A health post, a clinic, an emergency room, a hospital

An ambulance

School, mobile unit, patient's home

Person, or by video/televisit

Community center

Lab or radiology center

Pharmacy



#### When

Are there guidelines about

- How often that care is provided?
- At what age?
- To what sex?

Is it provided only in specific situations?

- A hospital sepsis protocol does not need to be available to a village nurse
- A pediatric immunization tool does not need to be available to a pathologist

#### And...

- A cardiologist and a primary care doctor need to be able to easily see information about a patient's heart failure
  - The clinical team of a
    woman presenting for ear
    pain, who is overdue for
    breast cancer screening or
    follow up imaging, should
    easily see that she is
    overdue so they can discuss
    it with her



## Why

Is the care...

A priority, maybe because it is a driver of health outcomes

Common issue or complaint

Dangerous issue or complaint

Quality Measure



#### How

Synchronous care (during a visit) – Inreach

Asynchronous care (between visits) - OutreachPatient portal, email, SMS, phone calls

Does it require an in person visit? Or a televisit? Or just an order or referral?

In a hospital

In a mobile unit

In an ambulance



#### CDS 5 Rights

Getting the right information (the What) To the right person (the Who) In the right place (the When) In the right format (the How) Through the right channel (the Where)



#### **EHR Tools**

HM Table\* BPAs\* Smartsets/Order Sets\* Smartphrases\* Problem Lists\* Reporting Workbench\* Standing Orders Patient Lists Scoring Systems Patient Navigators Patient Headers\* Flowsheets\* Preference Lists\* Side Bars\* Medication Warnings\* Print Group Reports Required Documentation Smartforms



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	←→ 👩 Chart	Review	🖌 🚱 Health Maintenance 💋	Problem List Demograph	ics Medications Review Flowsheets Growth Chart SnapShot BIDMC Link Patient Chart Advisories		- <\
	Chart Review						थ 🔂 🕐 🗙
B ( ) @ @ @	Encounters Labs Imaging Notes Proc Cardio/Pulm/Neuro GI Proc Other Referrals Meds Episodes Letters Media Misc Rprts Snapshot LDAs Peri Op Legal Anesthesia						
Alix M. Yytest					🖹 Review Selected 🎚 Synopsis 🕹 Lifetime 🛛 🛱 Flowsheet 🖛 Route 🛛 🏂 Load Remaining 🗖 Add to Bookmarks 🖓 Encounter		- 4
Female, 62 year old, 8/9/1959 MRN: 0001167221					There are a second structure to the second second structure of the second second second structure of the second		0
Preferred Language: Portuguese	▼ <u>Filters</u> Defa		Me Family Medicine CHA Prima	1			On ©
Confidential Pt: Confidential patient	To save time, not	all recor	rds have been loaded and sorted. Load A	I Records Now Hide			
Language of Care: Portuguese	When		Type Visit Type	With	Description	Enc Dept Acct	. Status Do
[15] ACO Payor: None	Recent Visits						~
₽ Search	Yesterda	y 🛔	Office Visit	PHARMACOTHER - Ak		PHXTEL	Open
COVID Screening Status:	05/17/20	22 🕻	Telephone	Tosher, H	Erroneous encounter-disregard	CMREXT	Sign
Screening Incomplete COVID-19 Vaccine: Unknown	05/16/20	22 🗈	Orders Only	FP - Mathewson, P		MFMCFM	Sign
	04/25/20	22 🗈	Orders Only	PT - Donnelly, S	CHA PACE (FKA ELDER SERVICE PLAN ESP) (Primary Dx)	CESPPT	Sign
Simona Kaplan, (T) PCP - General	04/19/20	22 🗈	Dental Encounter	Dental - User, D		CDEN	Open
Primary Cvg: None	04/19/20	22 C	Telephone	FP - Ticotsky, A	Lab Results, Abnormal (COVID)	SASACC	Sign
Allergies (4)	03/09/20	22 🖹	CCM TELEPHONE ENC	CARE TRANSIT - Trimb	H2H Telephone Outreach (Medication review)	OCMP CCMC	Open
Active Therapy Plans	03/08/20	22 ×	LAB PHLEBOTOMY (C LAB PHLE.	Lab	Canceled (Error)	SLAB	
HCP: Yes	03/07/20	22 🗈	Letter (Out)	CARE TRANSIT - Trimb	None:	OCMP CCMC	Open
Code: FULL	03/02/20	22 🗈	Orders Only	Geriatrics - Chao, S	Primary hypertension (Primary Dx)	CHOHC	Sign
Wt: 56.7 kg (125 lb) >180 days	03/01/20	22 🗈	RX Office Visit	PHARMACOTHER - Ak		PHXTEL	Open
BP: 112/80 >1 day	01/11/20	22 🗈	CCM TELEPHONE ENC	CARE TRANSIT - Trimb	Complex Care Management; CCM 1st Outreach; CCM 2nd Outreach; CCM 3rd Outreach; CM Assessment; Pre-Visit Work	OCMP CCMC	Open
SINCE LAST FAMILY MEDICINE VISIT	01/11/20	22 🗈	CCM BRIEF NOTE	CARE TRANSIT - Trimb		OCMP CCMC	Open
아 PHARMACOTHER, Unknown 교 No results	01/11/20	22 🖹	CCM TELEPHONE ENC	CARE TRANSIT - Trimb	Complex Care Management (ED Followup)	OCMP CCMC	Open
CARE GAPS	12/23/20	21 🖹	CCM TELEPHONE ENC	CARE TRANSIT - Trimb	·	OCMP CCMC	Open
OPHTHALMOLOGY EVERY YE	12/06/20	21 🖻	Lab Only Visit	FP - D'Agata, C	Vaginal discharge (Primary Dx)	MFMCFM	Sign
<ul> <li>DENTAL EVERY YEAR</li> <li>COVID-19 Vaccine (1)</li> </ul>	6 Months Ago						
LIPID SCREENING	11/16/20	21 🛔	Office Visit	IM - Sundaram, A	Vaginitis and vulvovaginitis	CPCIM	Open
9 12 more care gaps	11/12/20	21 🛔	Office Visit	FP - Fitch, A	Patient left without being seen (Primary Dx); Vaginal discharge	MFMCFM	Sign
PROBLEM LIST (4) Complete immobility due to	11/12/20	21 🛔	Office Visit	FP - Early, J	ERRONEOUS ENCOUNTERDISREGARD (Primary Dx); Vaginal discharge	MFMCFM	Sign
severe physical disability or frailty (HCC)	11/12/20	21	Office Visit	FP - Cerulli, S	Vaginitis and vulvovaginitis (Primary Dx)	MFMCFM	Sign
(ncc) Moderate persistent asthma	11/12/20	21 🗈	Orders Only	FP - Cerulli, S	Vaginitis and vulvovaginitis (Primary Dx)	MFMCFM	Sign
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#### Health Maintenance – Adult

	<u>Subtitla</u>						
← → 🝺 cr	nart Review 🕃 Health Maintenance	🥜 Problem Lis	t Demographics Medications	Review Flowsh	heets Growth Chart SnapShot BIDMC Link Patien	t Chart Advisories	•
Health Main	tenance						Ċ
Address Topic	X Remove Override / Edit Modifiers E Repo	ort <u>C R</u> efresh (	) Guidelines				
Topic			Due Date	Frequency	Date Completed		
DM EYE EXAM		0	Overdue since 11/21/2012	1 year(s)	11/21/2011 (Appt Out CHA)	10/27/2011 (Appt Out CHA)	
A1C		0	Overdue since 1/29/2016	6 month(s)	7/29/2015 (APPT Complet)		
DM MICROALE	BUMIN	0	Overdue since 7/29/2016	1 year(s)	7/29/2015 (APPT Complet)		
COLONOSCOF	Y	0	Overdue since 1/19/2017	5 year(s)	1/19/2012 (APPT Complet)		
HEALTH CARE	PROXY	0	Overdue since 7/7/2017	5 year(s)	7/7/2012 (DISCUSSED)	6/28/2012 - HEALTH CARE PROXY	
AWQ Question	naire	0	Overdue since 10/6/2017	1 year(s)	10/6/2016 - HMT AWQ		
PAP SMEAR		0	Overdue since 9/20/2018	5 year(s)	9/20/2013 (Appt Out CHA)	9/20/2013 (DISCUSSED)	5/14/2013 (SEXUALLY INA)
HPV SCREENI	NG	0	Overdue since 9/20/2018	5 year(s)	9/20/2013 (DISCUSSED)	6/10/2013 (SEXUALLY INA)	6/10/2013 (NOT INDICATE)
TETANUS VAC	CINE (2 - Tdap)	0	Overdue since 12/9/2018	Imm Details	12/9/2008 - DTaP-HEP B-IPV AGE 6WKS - <7YRS		
MAMMOGRAPH	ΗY	0	Due soon on 7/1/2022	2 year(s)	7/1/2020 (Appt Out CHA)	9/20/2013 (Declined)	1/20/2012 (APPT Complet)
Upcoming							
INFLUENZA VA	CCINE (Season Ended)		Next due on 9/1/2022	Imm Details	10/6/2015 - Influenza Virus Quad Presv Free Vacc	5/1/2014 - INFLUENZA VIRUS TRI W/PRESV VAC	1/12/2013 - INFLUENZA VIRUS
DM COMPLETE	FOOT EXAM		Next due on 1/26/2023	1 year(s)	1/26/2022 (APPT Complet)		
PNEUMOCOCO	CAL VACCINE SERIES (65+) (1 - PCV)		Next due on 8/9/2024	Imm Details			
Completed or	No Longer Recommended						
HIV SCREENIN	G		Addressed	Once	1/16/2009 (Appt Out CHA)		
PHYSICAL EXA	M		Completed	Once	1/28/2013 - PR PPPS, INITIAL VISIT	9/6/2012 - PR PPPS, SUBSEQ VISIT	
PNEUMOCOCO	CAL VACCINE SERIES (< 65)		Aged Out	Imm Details			



#### HM-Pediatric Example

HEPATITIS A VACCINE SERIES.

		List Demographics Medications	Review Flowsheets Growth Chart SnapShot BIDMC Link Patient Chart Adviso	ries
Axae Yytest	Address Topic X Remove Override / Edit Modifiers Report C Refresh	(i) Guidelines		
Female, 13 year old, 1/30/2009 MRN: 0002000640	Topic	Due Date	Frequency Date Completed	
Language of Care: Portuguese	Current Care Gaps			
(Brazilian) [88] ACO Payor: None	HEPATITIS B VACCINE SERIES (2 of 3 - 3-dose primary series)	Overdue since 3/30/2009	Imm Details 1/30/2009 - Energix B (newborn-10 Yrs)	
₽ Search	MMR VACCINE SERIES (1 of 2 - Standard series)	Overdue - never done	Imm Details	
COVID Screening Status:	HEPATITIS A VACCINE SERIES (PEDIATRIC) (1 of 2 - 2-dose seri	Overdue - never done	Imm Details	
Screening Incomplete COVID-19 Vaccine: Unknown	COVID-19 Vaccine (1)	Overdue - never done	Imm Details	
	IPV VACCINE SERIES (2 of 3 - 4-dose series)	Overdue since 3/13/2014	Imm Details 2/13/2014 - DTaP-IPV age 4Yrs-<7Yrs	
Bruce Kalow, MD PCP - General	TETANUS VACCINE (2 - Tdap)	Overdue since 1/30/2016	Imm Details 2/13/2014 - DTaP-IPV age 4Yrs-<7Yrs	
Primary Cvg: None	HPV VACCINE SERIES (1 - 2-dose series)	Overdue since 1/30/2020	Imm Details 12/2/2016 - HPV-9	
Allergies: Vancomycin	MENINGOCOCCAL (MCV4) VACCINE SERIES (1 - 2-dose series)	Overdue - never done	Imm Details	
нср: <b>No</b>	VISION SCREEN 2	Overdue - never done	3 year(s)	
Code: Not on file	HEARING SCREEN	Overdue - never done	3 year(s)	
BP: 110/70 >1 day (95%/ 92%)	HIV SCREENING	Overdue - never done	Once	
Ht: 4' (1.219 m) >30 days (8%)	WELL CHILD (13-17 YEARS)	Overdue - never done	1 year(s)	
Wt: 27.2 kg (60 lb) >5 days (52%)	Upcoming			
SINCE YOUR LAST VISIT 와 FP (2), Pediatrics ▲ No results	INFLUENZA VACCINE (Season Ended)	Next due on 9/1/2022	Imm Details 2/13/2014 - Flu Vaccine 6-35 Mo	
	ZOSTER VACCINE (1 of 2)	Next due on 1/30/2059	Imm Details	
CARE GAPS	Completed or No Longer Recommended			
<ul> <li>HEPATITIS B VACCINE SERIES</li> <li>MMR VACCINE SERIES (1 of 2</li> <li>HEPATITIS A VACCINE SERIES</li> </ul>	Health Maintenance Modifiers CHA TEST PATIENT		Status Legend 4 Overdue 4 Due Soon 4 Postponed 📋 Orde	ered 🕼

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#### **Best Practice Alerts**

MRI Brain W & WO	Contrast	✓ <u>A</u> ccept	🗙 <u>C</u> ancel			
Priority: Ro	utine 🔎 Routine Stat Urgent					
Does the patient ha	ve a Pacemaker or other implanted electrical device?					
	Yes No					
S is the patient allergic to Ves No contrast?						
To assure imaging is appropriate for clinical symptoms or due to patient restrictions, this order may be changed to reflect patient needs.						
Release result to patient via MyCHAr						
Brief comments to Tech:						
Sched Inst.: 🔸	Add Scheduling Instructions					
Reason for Exam:	۹ ۹					
⊂Common Indications for Exam						
[	Brain metastases suspected Headache, chronic, new features Parkinsonian syndrome or increased frequency					
[	Cerebral aneurysm, previously Headache, chronic, no new Seizure, new-onset, no ł treated features trauma	nistory of				
[	Cerebral aneurysm, untreated Headache, new or worsening, Stroke, follow up neuro deficit (Age 18-49y)					
[	Dizziness, non-specific Mental status change, unknown Transient ischemic attac	k (TIA)				
[	□ Dizziness, persistent/recurrent, □ Neuro deficit, acute, stroke cardiac or vascular cause suspected suspected					
Þ	Oncology Indications for Exam					
	Trauma Indications for Exam					
Rea	ason for Exam (Free Text):					
Status: N	Iormal Standing Future					
Ex	pected Date: Today Tomorrow 1 Week 2 Weeks 1 Month 3 Months 180 Days Approx	ζ.				
Ex	pires: 5/19/2023 🗇 1 Month 2 Months 3 Months 4 Months 5 Months 180 Days					
Class: Ma	agnetic R 🔎					
\rm Next Required		✓ <u>A</u> ccept	X Cancel			

BestPractice Advisory - Yytest, Nickname Imaging is not recommended for classic migraine headaches. Patients without red flags and a normal neurological examination do not need neuroimaging based upon the current available data. If there is a new neurologic deficit, imaging should be guided by the ACR Appropriateness Criteria topic on ???Cerebrovascular Disease???. Full Literature Summary Choosing Wisely Remove the following orders? I MRI Brain W & WO Contrast Remove Keep Score 1 Acknowledge Reason Consulted with Radiology Consulted with other Specialist Previous imaging results with equivocal . Disagree with appropriateness scoring Contraindication to modality (e.g. pregn... Modality unavailiable Patient does not tolerate modality (e.g.... Other (see Comments) Cancel Accept



### Smartsets/ Order Sets

Search for new SmartSet + Add	✓ Open SmartSets X Clear Selection
Suggestions	3
*Quick Close Care Gaps	Well Adolescent (12 Year)
ABDOMINAL-PEDI	Well Adolescent (13 Year)
ADDICTIONS VISIT	Well Adolescent (14 Year)
ADHD PEDI	Well Adolescent (15 Year)
Diabetes - Providers	Well Adolescent (16 Year)
Diabetes Supplies	Well Adolescent (17 Year)
ENDOMETRIAL BIOPSY	WELL ADOLESCENT 18
ERRONEOUS OFFICE VISIT ENCOUNTER	YEARS OLD WELL ADOLESCENT 19 YEARS AND OLDER
ERRONEOUS TELEPHONE ENCOUNTER	Well Child 1 month
ETONOGESTREL IMPLANT - NEXPLANON	Well Child 12 months
FIRST TRIMESTER BLEEDING	Well Child 15 Months
FLU AND PNEUMO VACCINES	Well Child 2 month
GYN ANNUAL EXAM	Well Child 2 year
Intrauterine Device Procedures	Well Child 3 Year
LEFT WITHOUT BEING SEEN	Well Child 4 Months
LUPRON DEPOT - ONGOING	Well Child 4 Year
_	Well Child 5 Year
LUPRON DEPOT - 3 MONTH TRIAL SERIES	Well Child 6 Months
OB POSTPARTUM VISIT	Well Child 6 Years
OBESITY PEDIATRICS	Well Child 7 Years
Outreach Orders per Protocol	Well Child 8 Years

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## Smartsets/Order Sets – Adult

I SmartSets			
diabet + Add	✓ <u>O</u> pen Smar	tSets X Clear Selection	
Suggestions		*	
*Quick Close Care Gaps	SPC POC LAB OR	RDERS	
ABDOMINAL-PEDI	VAGINITIS	8 SmartSet Search	— C
ADDICTIONS VISIT	VITAMIN B12	diabet 👂	Browse All S
	Well Adolescent (1		
ASTHMA PEDI INITIAL AND	Well Adolescent (1	EI SmartSets	Expanded
FOLLOW UP	Well Adolescent (1	Name Code	Туре
Diabetes Supplies	Well Adolescent (1	El Clinical Pharmacotherapy Diabetes Management	
	Well Adolescent (1	E Diabetes Supplies	
ERRONEOUS OFFICE VISIT ENCOUNTER	Well Adolescent (1		
ERRONEOUS TELEPHONE ENCOUNTER	WELL ADOLESCE	E PACE Diabetic Medications/Supplies	

	Diabetes Supplies ≈
	▼ Diabetes Supplies
	▼ Generic Meters & Supplies
	glucose monitoring kit
	glucose monitoring test strips
	□ lancet device misc
	ancets
	insulin syringe-needle
	insulin pen needle
	autolet lancing device
	▼ Freestyle Meters & Supplies
	Blood Glucose Monitoring Suppl (FREESTYLE LITE MONITORING, SMALLER SCREEN SIZE) Device [52570]
All Sm	glucose blood (FREESTYLE LITE) test strip [52571]
nded S	glucose monitoring kit (FREESTYLE) [32818]
Pr	glucose blood (FREESTYLE) test strip [52636]
	LANCET DEVICE MISC [46516]
	LANCETS
	One Touch Ultra and Ultra Smart Meters & Supplies     ONETOUCH ULTRA 2 W/DEVICE KIT [48354]
	ONE TOUCH ULTRA TEST STRIP [34300]
	LANCET DEVICE MISC
× <u>c</u> a	R SURESCRIPTS TEST-123 MAIN ST-ALEXANDRIA-VA
	Associate Edit Multiple O Phase of Care Providers

✓ <u>A</u>ccept



#### Smartsets/Order Sets – Pediatric Example

#### Well Child 4 Year ≈

- CDC Immunization Schedule (0-18 yrs)
- ▼ WELL CHILD 4 YEAR
- Progress Note for Well Child 4 Year
- WELL CHILD 4 YEARS [10475]
- WELL CHILD CSHCN [52997] & Add Now
- Orders to Consider
- ▼ Vision (well child 4 year) VISUAL ACUITY SCREEN(aka VISION SCREEN) [99173]
- Hearing (well child 4 year)
   EVOKED OTOACOUSTIC EMISSIONS SCREEN AUTO ANALYS
- Other Tests (well child 4 year)
- Age Appropriate Immunizations (well child 4 year)
   DTaP-IPV Age 4-6 Yrs IM [90696]
   Routine Qty-1

MMRV VACC LIVE SUBQ [90710] Routine • Qty-1

- ▼ Flu Vaccines 3-18 Years
- IIV4 VACC PRESERV FREE AGE 6 MONTHS AND OLDER, 0.5ML, IM [90686] Qty-1
- IIV4 VACC W/PRESERV AGE 6 MONTHS AND OLDER, 0.5ML, IM [90688]
- Qty-1
- INFLUENZA VACC, CELL CX, EGG FREE, PRESERV FREE, QUAD, AGE 6 MONTHS AND OLDER, 0.5ML, IM [90674] Qty-1
- INFLUENZA VACCINE HIGH DOSE FOR 65 AND OLDER, IM [90662] Qty-1
- Influenza Virus Vac Quad Live Intranasal <18Yrs (FLUMIST) [90672]
- Other Immunizations
- Immunization Administration Codes (well child 4 year)

Other Immunizations
 Click for more
 Immunization Administration Codes (well child 4 year)
 IMMUNIZATION ADMIN EACH ADD [90472.1]
 Routine • Qty-1
 IMMUNIZATION ADMIN SINGLE [90471.1]
 Routine • Qty-1

UIMMUNIZATION ADMIN INTRANASAL / ORAL [90473] Qty-1

- ▼ Vitamin Supplements
- Disp-100 tablet, R-4
- ▼ School and Camp Form/WIC Referral (well child 4 year) School AND CAMP FORM [110001]
- LTR PEDI SCHOOL & CAMP
- School and Camp Form <5yrs. Includes Current Medications and Problem list [110003]
- REFERRAL TO MASS WIC PROGRAM [9049]
- ▼EPSDT -

Click for more

Click for more

- COMPLETED EPSDT [S0302]
- Diagnosis for Well Child 4 Year
- Visit Diagnosis (well child 4 year) Click for more
- Need for prophylactic vaccination with diphtheria-tetanus-pertussis with poliomyelitis (DTP + polio) vaccine [Z23]
- Need for MMRV (measles-mumps-rubella-varicella) vaccine [Z23]
- Routine infant or child health check [Z00.129] 😣 Select Specific Diagnosis
- Level of Service Codes for Well Child 4 Year
- LOS Preventive Visit, New Patient (well child 4 year) Click for more
- LOS Preventitive Visit, Established Patient (well child Click for more

▼ Follow Up for Well Child 4 Year	
<ul> <li>Disposition and Follow Up (well child 4 year)</li> </ul>	)
Follow-up Instructions	
Patient Instructions (well child 4 year)	Click for more
PARENT INFO SHEET- 4-5 YEARS [10060]	
R CVS/pharmacy #8319 - SOMERVILLE, MA - ONE DAVIS SQUARE 617-629-4156	X Remove 1/2 Pend
⊘Associate  ★ Edit Multiple	9
& Providers	



## **Smartsets/Order Sets**

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ADOLESCENT EXAM FEMALE (ag	ge 12 years and above) HISTORY:	
Axae Yytest is a 13 year old female	with the following Problems and Medications HOME:	
Patient Active Problem List: Atrial fibrillation (HCC) Tobacco use disorder COMPLEX CARE MANAGEMEN Long term (current) use of antico Diabetes mellitus (HCC) Mild persistent asthma Current Outpatient Medications Medication • CHLORTHALIDONE PO • warfarin (COUMADIN) 1 MG tablet • Cyanocobalamin (VITAMIN B 12 PO)	PHYSICAL EXAMINATION: There were no vitals taken for this visit., No blood pressure reading on file for this encounter.	3
• MTAMIN C 100 MG OR CHEW	ASSESSMENT: {WELL ADOLESCENT ASSESSMENT: 14889}	IS:11191::"discussed"}
CONCERNS: {NO CONCERNS 2:	BMI: No height and weight on file for this encounter.	
REVIEW OF SYSTEMS:	{BMIFA: 14882} s TB Risk Assessment: {TB RISK - PEDI: 12731}	ed"}
Dental care/problems: {DEI Skin problems: {DISCUSSE Cardiac/respiratory sx: {DIS	PLAN: Per orders. Follow up visit in 1 year.	
Diet/weight: {DISCUSSED/I Orthopedic injuries: {DISCU Menstrual problems: {DISCU	N J Dietary/Nutritional/Healthy Habits Counseling: L {WEIGHTCLASSPLAN:14883::"Growth charts, interval change, and percentiles reviewed with patient/ guardian.","Weight-specific dietary suggestions given.","Encouraged excercise appropriate to BMI/goals"}	
	Counseling: {COUNSELING ADOLESCENT:11255::"vaccines and side effects","minimize soda and fast food","dental care","body changes","sexuality","contraception","STD's","Breast/testicular self-examination","substance use/abuse","mental health","peer pressure","communication with	

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	Level: User Profile	er - User LIBARIDIAN, LORKY [LLIBARIDIAN]         e Department Location Facility       User: LIBARIDIAN, LO          View SmartPhrase Lookup       Share With		
raco	Name	Description	Editors	ID
irase	LABNORMAL	Please send appropriate normal lab letter.	JORGENSEN, ANDREW (INA	103137
	LETTERIRON	Review of your labs show mild anemia related to iron deficiency. I've enlosed a prescription for iron	JORGENSEN, ANDREW (INA	103138
	LETTERVITAMIND3	Review of your labs show that your Vitamin D levels are very low. I have sent two prescriptions to	JORGENSEN, ANDREW (INA	103141
	LIPIDSDIET	You have a mild elevation in your lipid profile. Your risk of having a heart attack or stroke in the ne	JORGENSEN, ANDREW (INA	103143
	LIPIDSNORMAL	Your lipid panel was normal for your cardiovascular risk profile. Your risk of having a heart attack o	JORGENSEN, ANDREW (INA	103144
	LLRESIDENTPRECEPTO	PRECEPTOR NOTE On the day fo the pateint's visit, I personally saw and evaluated the patient. I	LIBARIDIAN, LORKY	254561
	LNLABD	+ BS, soft, NT/ND, no hsm, no flank pain	LIBARIDIAN, LORKY	154573

#### Dry Skin/Eczema

S

1. Showers/baths: they need to be tepid (not too hot) and short (not more than 10 minutes.) Need to be only once every 2-3 days.

2. After showers: buy baby oil and while moist (while you're still wet) put baby oil on the dry patches... Then use a soft towel and PAT dry.. (don't rub the towel.)

3. MOISTURIZE!!: apply moisturizers at least three times a day, many people benefit from applying moisturizers six or more times a day... AQUAPHOR is in a white tub with a blue top and can be bought at Target or CVS or other pharmacy... this is very goopy but great for dry skin. Other good moisturizers include: EUCERIN, LUBRIDERM, AVEENO, CETAPHIL

4. On itchy patches: buy hydrocortisone 1% in a large tube. I like the ointment rather than the cream. This is an over-the-counter medicine. Apply it to itchy spots two to three times a day just before the aquaphor.

5. Humidifier: a humidifier in your bedroom will moisten your skin at night and help with the itching... They cost between \$20-200 and can be bought in a department store or a pharmacy.

6. For Soap: use DOVE unscented - dye free. The bar or pump are OK.

Smartph

7. When washing clothes: also use dye and perfume free detergant. Select the Extra Rinse Cycle on your clothes washer.

L	NLGYN	ni externai and internai exam, no cmt, ni dimanuai exam	LIBARIDIAN, LORKY	156285
L	NLHEPBIMM	You do not have Hepatitis B, but you are not immune. If you would like to be immunized, please ca	LIBARIDIAN, LORKY	158876
L	NLHX	@PASTPROB@ @SURGICALHX@ @MED@ @SOC@ @FAMHX@ @ALLERGY@	LIBARIDIAN, LORKY	153559
L	NLMORETHAN	More than 50% of the 25 minute visit was spent in couseling and coordination of care.	LIBARIDIAN, LORKY	156002
L	NLMUSCLESPRAIN	You most likely have sprained or strained a muscle as we discussed. You should wrap and ice the	LIBARIDIAN, LORKY	153094
L	NLNEURO	A+Ox3, nl DTRs UE and LE b/l symmetric, nl gross sensation and strength, nl gait	LIBARIDIAN, LORKY	154066

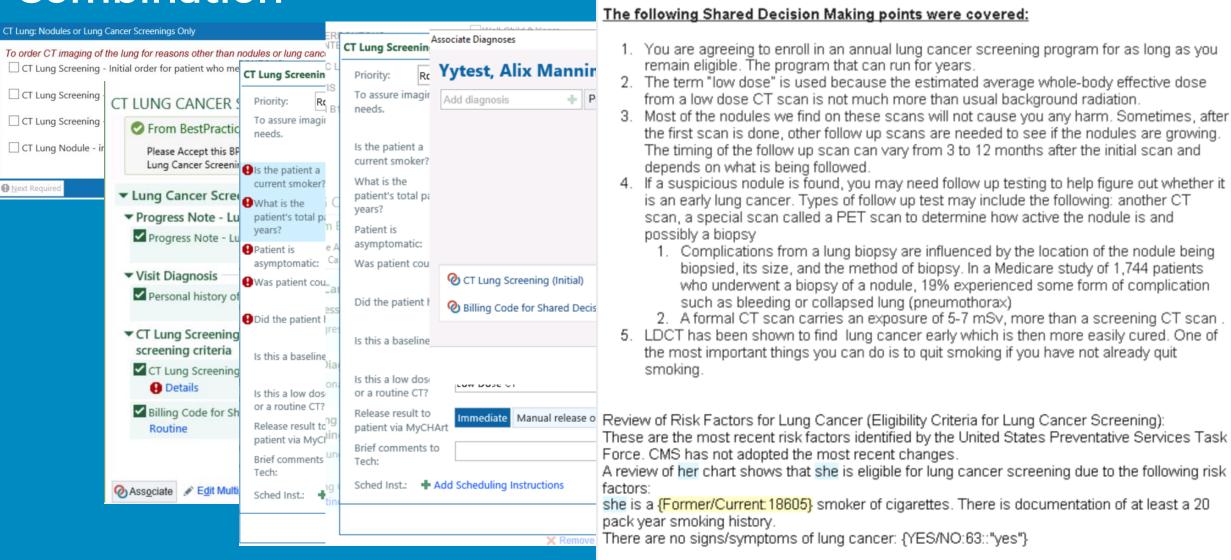


## Smartphrase

.psa	
Abbrev ☆ PSA ☆ PSA2TO4 ☆ PSADOCUMENTATION ☆ PSAHI	Expansion (MayoClinic.com) Canc Your PSA (check for pr
PSANC I reviewed the Risk: 14541}	e patient's risk of prostate cancer today. He is at {PROSTATE Average-High
Refresh (Cti {POA to: {Pros	ed the patient's risk of prostate cancer today. He is at higher risk of prostate cancer due state Screening High Risk:14542]. Black of African approximate American Heition, Block Coribbeon, Block Latino, Azeroan Father I reviewed the patient's risk of prostate cancer today. He is at higher risk of prostate cancer due
	Multipl to: Father or brother with a prostate cancer diagnosis before age 65. {PSA Documentation:13250}
	I reviewed the patient's risk of prostate cancer today. He is at higher risk of prostate cancer due to: Father or brother with a prostate cancer diagnosis before age 65. For this patient with multiple co-morbidities I have elected not to initiate a discussion of prostate cancer screening, understanding that the risk of harms associated with PSA-based screening and subsequent unnecessary treatment likely outweigh the benefits for this patient.

**Y**avetis

# Combination





#### **Problem Lists**

	+ Add <sup>th</sup> <sub>th</sub> DxReference									
Ŧ	Diagnosis 🔺									
	Abdominal pain, other specified site									
	ABNORMAL LIVER FUNCTION STUDY									
	Cverview Edited: Ira Mintzer 7/2/2008 Recheck one week.									
	Chest pain									
	Diabetes mellitus (HCC)									
	Major depressive disorder, recurrent, moderate (HCC)									
	Boverview Edited: Doru lancovici, MD 3/18/2016 ghujvguvgu									
	Migraine headache									
	Cverview Edited: Gregory Larson Sawin 9/8/2008 Narc contract with Sawin, signed 9/8/8 Walgreens Malden Center St. Percocet 5/325 #90/month.									
	Nonspecific serologic evidence of human immunodeficiency virus (HIV)									
	Coverview Edited: Laura Nevill, APRN 5/31/2005 HAART not indicated 5/31/2005									
	Other convulsions									
	<ul> <li>Overview Edited: Joan Mullarky, RN 7/13/2007</li> <li>7/13/2007</li> <li>Low level depakote increased by 250mg daily. Return one week for repeat level.</li> </ul>									
	Refusal of treatment for reasons of religion or conscience									
	Cverview Edited: Joan Mullarky, RN 7/13/2007									



## Reporting Workbench

Patient Population Management
<ul> <li>My Pts with a Chronic Condition</li> </ul>
Pts w/ Asthma
Pts w / AUD
Pts w/ CCM - Active
Pts w/ COPD (Reg)
Pts w/ Depression
Pts w/ Diabetes
Pts w/ HIP Team
Pts w/ HTN
Pts w / OUD
Pts w/ <x> Prob List</x>
> My Pts On or Not On a Medication
> My Pts Not Seen Recently
> My Pts w or w/out a Lab Performed
✓ My Pts Overdue for HM
Pts w/ HM Due Soon & OV - Well Child
Pts w/ HM Overdue - <x> Topic</x>
Pts w/ HM Overdue - Breast Ca Scrn
Pts w/ HM Overdue - Cervical Ca Scrn (Pap)
Pts w/ Colpo HM Modifier
Pts w/ HM Overdue - Colon Ca Scrn
Pts w/ HM Overdue - Colon Ca Scrn w/ GI Note (Y-5)
Pts w/ HM Overdue - Care Plan
Pts w/ HM Overdue - Childhood Immunizations
Pts w/ HM Overdue - HPV/Tdap/Menactra Immunizations
Pts w/ HM Overdue - Abnormal Chest Scan CT
> My Pts Due for HCC Refresh



(i) :

Max D	Die	-la staa IV	C7004001 es el	6 Thur 5 (10 (20	22.10.4	7 4 4 4								L			(2) 1
My P	ts w/ Dia	abetes [t	6780488] as o	f Thu 5/19/20	022 10:4												⊘ ⊻
) <u>)</u> <u>C</u> h	art 🍕 <u>E</u> ncou	unter 👻 📃 S	apshot 🔸 Add to Lis	t 🖾 Communication	-											<i> S</i> aved Views - 0	Original View
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-	_	xplore														10-	
₹ <u></u>	ilter														Re-run Rep	ort C Refresh Selecte	d Select Al
Patie	* •	DOB	Prin PCP	Benefit Plan	Text OK? M	yC Pref Language	Last at Any Prim	Next at Any Prim	Next Phtx Visit D	TIP Code	HCC Gap (CMS)	Smoking Status	Last A1C	Last A1C Dt Alb/Cr	Alb/Cr Dt	Last LDL Last LDL Dt Last F	2409
P Gun	prix.	000	Loc POP	Deneni Fran	OK?	yC Frei Language	Loc	Loc	NCAL FILA VISIL		Hoo Gap (Olino)	Stricking Status	A1C	Litat A to be Alaron	AUTORIO	LDL	-11/2.9
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←	- 🖁 🖪	PHQ9 Histo	ry 🗏 Recent Vitals	Diabetes Flowsheet	t 🗏 Health	Maintenance 🗏 Pr	oblem List 📃 Upc	oming/Recent Visit	s 🗏 Current Me	eds 📃 Outreach Tra	cking						<b>₽ -</b> ⊖ £
			_														
1	Recent Re	view Flow	vsheet Data													View Complete Fl	owsheet
		TAL SCORE		8/5/2021			7/1/2019	)	8/20/2018	9/18/201	7	9/18/2017	8/4/2016	7/1/20	16		
		Sheet Total S		-			-		-	-			-	4			
		Sheet Total S	core	7			-		-	(No Data		(No Data) 🏢	-	-			
	PHQ-9 FLC	OWSHEET		8/5/2021			7/1/2019		8/20/2018	9/18/201		9/18/2017	8/4/2016	7/1/20	16		
	Interest Depressed	4		-			-					- -	0	0			
	Sleep	1		-			-		-	-		-	-	1			
	Fatigue			-			-		-	-		-	-	1			
	Appetite			-			-		-	-		-	-	. 1			
	Self Esteen	m		-			-		-	-		-	-	1			
	Concentra	ation		-			-		-	-		-	-	0			
	Psychomo	otor		-			-		-	-		-	-	0			

#### **V**avetis

#### Patient **Headers**



Alix M. Yytest Female, 62 year old, 8/9/1959 MRN: 0001167221 Preferred Language: Portuguese Confidential Pt: 🔒 Confidential patient Language of Care: Portuguese

[15] ACO Payor: None

Search

COVID Screening Status: Screening Incomplete COVID-19 Vaccine: Unknown



Simona Kaplan, (T)

Primary Cvg: None

Allergies (4)

**Active Therapy Plans** 

HCP: Yes Code: FULL

Wt: 56.7 kg (125 lb) >180 days BP: 112/80 >1 day

SINCE LAST FAMILY MEDICINE VISIT PHARMACOTHER, Unknown A No results

#### CARE GAPS

OPHTHALMOLOGY EVERY YE... DENTAL EVERY YEAR COVID-19 Vaccine (1)

LIPID SCREENING

4 12 more care gaps

**PROBLEM LIST (4)** Complete immobility due to

severe physical disability or frailty (HCC)



#### Flowsheets

←→ 🝺 Review	8	HM	Plan	Wrap-Up	p Revi	Growth	Rooming	Flowsheets		•		:\
Flowsheets										2	?	2
<mark>∏</mark> <u>F</u> ile	LDA	Avatar	▼ <sub>∏</sub> ‡ Add <u>C</u> ol	חָ‡ <u>ח</u> Insert Col	ata Validate  🖓 I	lide Device Data	▼ mit L <u>a</u> st Fi	led 🐉 Reg [	Doc 🚉 Graph	▼ More	•	
Vital Signs Pain Asses	ssmen	t Hea	d to Toe Cor	nplex Assessment	Intake/Output	Birth Center Flo	owsheet -		Birth Center	Flows	ρ.	<b>F</b> u
Search (Alt+Comn	na)	OEx	panded 💿 Vie	W All	1m	5m 10m 15m	30m 1h	2h 4h Inter	val Start: 0700	Reset	Now	
Hide All Show	N All				Office Visit fr	om 5/19/2022						
Fetal Heart Rate					5/1	9/2022						
Uterine Activity					2	300			Last Filed		_	
Vital Signs		Feta	l Heart Rate									
, i i i i i i i i i i i i i i i i i i i		Mode	•			<u>,                                    </u>						
Pain	$\checkmark$	Dopp	ler/Fetoscope	Rate							1	
Pain Assessment	$\checkmark$		line Rate									
Pain Management	$\checkmark$		line Classificati	ion								
Cervical Exam	$\checkmark$	Varia	*									
Membranes		Patte									-	
			Category								-	
Ongoing PPH Risk			rn Observation								-	
Fundal Assessment	$\checkmark$		ultiple birth?	Fetal Monitor Strip?								
Lochia	$\checkmark$											
Perineum	$\checkmark$		ine Activity									Π
Breasts/Nipples		M	ode raction Frequer	2014							-	4
LATCH			raction Prequer	-							-	
			raction Pattern									μ
Oxygen Therapy	_		raction Quality									
Safe Environment	$\checkmark$		ng Tone Palpa	ted								
			Signs									
		Temp										
		Temp	) SFC									
		Pulse	•									
		Pulse	e (Heart Rate) S	Source							1	
		Resp									1	
		BP										
			ocation									
			lethod									
			(mmHg)									
			by Osc.									
			nt Position									
			iac Rhythm								~	
		Ectop	ру									



#### Flowsheets Continued

0

Search:

Recent Flowsheets

VITALS

PHQ-9 FLOWSHEET SDOH LAST 3 VALUES ADULT WELLBEING ORTHO KNEE SOCIETY SCORE PEDS (PARENT'S EVALUATION OF DEVELOPMENTAL ... M-CHAT (MODIFIED CHECKLIST FOR AUTISM IN TODDL ... MEDICARE ANNUAL WELLNESS VISIT HEALTH RISK A ... FALL RISK DIABETES DAST AND AUDIT FLOWSHEET PRIMARY CARE BEHAVIORAL RISK SCREENING TOOL ... NEWBORN FLOWSHEET

<u>A</u>ccept

Select Flowshe	eets to Vie	W											
VITALS [23]												L	oad <u>M</u> ore
Vitals	2/4/2021	10/22/2019	3/6/2019	3/6/2019	7/10/2018	7/3/2018	2/5/2018	6/27/2017	6/27/2017	6/1/2017	6/1/2017	10/19/2015	3/18/201
SYSTOLIC		80	168	180						110		106	
DIASTOLIC		60	92	100						70		60	
Pulse													
Temp													
Resp													
Weight					170			165		160			
WEIGHT (kg)					77.11 kg			74.844 kg		72.576 kg			
Height		58.000			62.000			62.000					
Peak Flow													
02Sat	94												
BMI						31.09			30.18		31.25		
Pain Score													0
Last LMP							2/7/2017		2/7/2017		2/7/2017		

#### Flowsheet Report

Select Flowsheets to View									
DIABETES [70]								U	_oad <u>M</u> ore
Diabetes Flowsheet	Latest Ref Rng & Units	10/22/2019	3/6/2019	3/6/2019	7/3/2018	6/27/2017	6/1/2017	6/1/2017	3/14/2017
External HgBA1C	See scanned report %								5.6
Urine Protein	0 - 15 mg/dl								
BP: (Goal <130/80)		80/60	168/92	180/100			110/70		
BMI: (Goal - If >25 a 5-10% decrease (Grade II)					31.09	30.18		31.25	
Opthalmology Referral		(None)	(None)	(None)	(None)	(None)	(None)	(None)	(None)
CONSULT TO E		(None)	(None)	(None)	(None)	(None)	(None)	(None)	(None)
CONSULT TO N		(None)	(None)	(None)	(None)	(None)	(None)	(None)	(None)
CONSULT TO D		(None)	(None)	(None)	(None)	(None)	(None)	(None)	(None)
Referral to Podiatry		(None)	(None)	(None)	(None)	(None)	(None)	(None)	(None)
CONSULT TO N		(None)	(None)	(None)	(None)	(None)	(None)	(None)	(None)
Referral to Nutrition Ext		(None)	(None)	(None)	(None)	(None)	(None)	(None)	(None)
Flu Vaccine									

🛯 🕐 🖉 🗙

	}≡ Order Search			— 🗆 X
	HYDROCORTISONE	<mark>Р</mark>	wse <u>P</u> reference List	Eacility List Database
	🛱 Medications			
	Name Code Si	tre Ty Do Frequency D Ref En Pref	Payo Co Cover	. Formulary Copay Dr
Preference	HYDROCORTISONE 0.5 MG P 142 0.	5 M	N/A	Ge 🔨
	HYDROCORTISONE 1 % EX GEL 233 1	% M	N/A	Ge
Lists	HYDROCORTISONE 1 % EX SO 234 1	% M	N/A	Ge
E Order Search			— — X	Ge
HYDROCORTISONE	<b>P</b>	Browse Preference List Facility	.ist <u>D</u> atabase	Ge
H Panela - Ala anyta (anat)				Ge
E Panels (No results found)				Ge
t͡û Medications ≈				Ge
Name	Code Type Dose Frequency Di Ref Er	nd Pref Payor Co Covera Formulary	Copay Dru	Ge
🟠 💡 hydrocortisone (ANUSOL-H	C) s 4516 M 25	CH N/A	Gen	Ge
🟠 💡 hydrocortisone cream 1%	4504 M	CH N/A	Gen	Ge
🛱 🖓 hydrocortisone cream 2.5%	4505 M	CH N/A	Gen	Ge
🟠 💡 hydrocortisone ointment 2.	5% 4510 M	CH N/A	Gen	Ge
hydrocortisone ointment 1%	4509 Me 1 F 2 TIMES	LIBA N/A	Gen	Ge
				Ge
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C Procedures (No results found)				Ge
		Select And Stay	× <u>C</u> ancel	Ge
		79 1910	17/0	Ge
	HYDROCORTISONE ACETATE 139 1	0 % M	N/A	Ge
	hydrocortisone acetate (ANUS 120 1	% M	N/A	Ge
	hydrocortisone cream 0.5% 4503 0.	5 % M	N/A	Ge 🗸
		~ ••		
			Select And Stay	<u>A</u> ccept <u>X</u> <u>C</u> ancel

Vavetis

#### Preference

#### Lists & Favorites

Crder Search								
HYDROCORTISONE			ρ	<u>B</u> rowse	<u>P</u> reference	List <u>F</u> aci	lity List	<u>D</u> atabase
★ ☑ <u>O</u> nly Favorites ▼ Order Panels	s	Order Panels anemia			s	No cu	urrent se	lections.
anemia		CBC+Plt with Diff	🛧 🗌 Iron	🚖 🗌 Total Iron Binding Capacity	,			
hepC		★ □ Ferritin	★ □ ROUTINE VENIPUNCTURE	☆ □ Vitamin B12				
		★ □ Folate RBC						
▼ OP Meds		hepC						
Dermatology		☆ □ CBC+Plt with Diff	🜟 🗌 Hepatitis C Virus Genotyping	🔶 🗌 Prothrombin Time				
<ul> <li>Orders</li> </ul>		☆ □ Comprehesive Metabolic Panel, Fasting	🚖 🗌 HIV Antigen Antibody 5th Gen	☆ □ ROUTINE VENIPUNCTURE				
Eczema		rasung ★ □ Hepatitis C PCR Qual to Quant						
Std								
Viral		OP Meds						
		Dermatology						
		🚖 🔲 econazole nitrate cream 1%	★ 🗌 eucerin lotion	☆ 🗋 hydrocortisone ointment 1	%			
		Orders						
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		Viral						
		쓝 🔲 Hepatitis C Antibody	쓝 🗌 Hepatitis B Surface Antigen	★ □ ROUTINE VENIPUNCTURE				
		🚖 🗌 HIV Antigen Antibody 5th Gen	🚖 🗌 Hepatitis B Surface Ab Quant			<u></u>	lear All S	elected
						✓ Accep	ot	X <u>C</u> ancel



#### Sidebars

Epic - 🚻	Record Viewer 📑 Data Courier 🖋 Build Tools 🖌 🔂 Content F	Review 🗿 Patient Station 🛛 🗐 Help De	sk Reports 📑	Dynamed 🔌 Schedule Admin 🗸 嬙 Review 🌵 Encounter 🐛 Telephone Call 🔌 Sm	nartTool Editors 👻 💽 Media Mana	ager 🛃 Coding Help 🛛 😕 🧐 🏓 🚔 Print 🗸 🔒	Secure 🕒 Log Out 💽 Exit		
	🔁 igain limit lininiani in 🖬 an Salama	Wayne, States				RELENVIRONMENT KALEY (IT ADMIN)	PENINGTON Q Search		
No Photo, ask for ID	The second secon		Meds: atorva Problem List	h-derived Products, Peanuts statin (LIPITOR) 40 MG tablet, Blood Glucose Monitoring Suppl (GLUCOSE MONITORING, Access: Major depressive disorder, recurrent episode, moderate (HCC), PTSD (post-traum. 1: David Lee (PCP) Diabetic		FYIs: None My Sticky Note: 1	Temp: None Pulse: None Resp: None BP: 126/80 SaO2: None 8 kg (176 lb)		
$\rightarrow + -$	Plan				· ? 2	This Visit Votes Summary			
107	BestPractice Problem List SmartSets			Visit Diagnoses Meds & Orders Goals		🔶 📳 Visit Snapshot	» 👂 🖉 🖓		
Review	BestPractice Advisories		0 ^	Visit Diagnoses	^				
Care Everywh SnapShot	This patient has a condition (asthma, COPD, or (1) shot is recommended. Please consider ordering for details).		nd 🛛 🕹	Search for new diagnosis + Add Previous - Problems -	s	**Coming soon!** Diabetes related guidelines and metric			
<b>V</b>	de Problem List		_	► Medications & Orders	relevant medications, procedures, results, and comorbidities, will soon be displayed in this section Stay tuned!				
Rooming HM	Care Coordination Note Edited: Dineen Tennihan, RN Patient self-management goals: I want to improve depressio	n, diabetes Medical team treatment		Comments Edited: Bruce Cawley 4/10/2018 Psychopharm by LMHT 04/10/18 Pt has a knowledge deficit re names of his medica	Previous Comments ations.He reports he take	#픽 Diabetes Labs			
<b>1</b>	Search for new problem + Add	Show: Past Probl	ems 🔎	New medications from outside sources		HbA1c 8.8%	1mo ago 4mo ago		
Plan	(1) New problems from outside sources			Medications need attention. Go Reconcile ->		Cr 1 mg/dL	5mo ago		
Synopsis	Problems need attention. Go Reconcile ->			Review open orders	Microalb 6 ug/mg 📄 LDL 162 mg/dL	4mo ago 5mo ago			
	🖡 🔺 Diagnosis	Resolved	Visit	Placing a new order?		GFR > 60 ML/MIN      S     Vitals	5mo ago		
×	<ul> <li>Major depressive disorder, recurrent episode, moderate (HCC)</li> </ul>	💉 Change Dx 🛛 🖌 Resolve	≧	Use the Visit Taskbar at the bottom of your screen to add, edit, and sign orders at any point during a visit.	Add Order Dismiss	Last BP BMI	126/80 25.99		
Wrap-Up	PTSD (post-traumatic stress disorder)	🖋 Change Dx 🛛 🖌 Resolve	₿ ♦	Name 🔺 Dose, Frequency Ad	dh 🗸 🖡	Routine Monitoring			
SOGI SmartFo	F Suicide attempt (HCC)	A Change Dx A Resolve	≧	Outpatient Medications		Last Eye Exam SmartData Date Last Foot Exam Date	8/19/2019 8/21/2019		
SOGI SINALI U	F Scrotal cyst	A Change Dx A Resolve	▶ ४	습 atorvastatin (LIPITOR) 40 MG tablet 40 mg, NIGHTLY 6	→ + + c x ×	Two A1Cs in Last 12 Months Last PHQ-9	Yes 9		
	H/O domestic violence	🖋 Change Dx 🛛 🖌 Resolve	▶ ४	Blood Glucose Monitoring Suppl (GLUCOSE MONITORING KIT) monitoring kit	D□J∕C××	Immunizations	2		
	High risk sexual behavior	🖋 Change Dx 🛛 🖌 Resolve	▶ ४		· 🗆 · ć x ×	Influenza vaccination PPSV23 Pneumococcal vaccination	Not on file 8/26/2015		
	Allergic rhinitis due to pollen	🖋 Change Dx 🛛 🖌 Resolve	⊵	😭 glucose blood test strip		PCV13 Pneumococcal vaccination	Not on file		
	Dyspepsia and other specified disorders of function of stomach	A Change Dx A Resolve	₽ >		D□□≠c×≈	Relevant Medication Classes Prescribed biguanide	Yes		
	NASH (nonalcoholic steatohepatitis)	🖋 Change Dx 🛛 🖌 Resolve	▶ ४	metFORMIN (GLUMETZA) 500 MG (MOD) 24 1,000 mg, 2 TIMES hr tablet DAILY	→ → → c × ×	Comorbidities Has Coronary Artery Disease	No		
	History of cocaine use	Change Dx	▶ ४	polyethylene glycol (GLYCOLAX/MIRALAX) 17 g, DAILY	D 🗆 🖌 C X 👻	Has Diabetic Retinopathy	No		
	<ul> <li>History of marijuana use</li> </ul>	Change Dx Resolve	<b>⊳</b> ×	packet		Has Diabetic Renal Disease Has Neuropathy	No No		
	Primary syphilis	🖋 Change Dx 🛛 🖌 Resolve		✓ Mark as Reviewed Last Reviewed by David Lee, MD on 8/21/2019 at 9:56 AM	v	Has Hypertension	No		

**Y**avetis

#### Sidebars -

#### Hypertension

<u>Tip</u>: Hold the "shift" button on your keyboard when clicking a link to open a new window outside of Epic (workstation can be secured). **Links to Resources:** Hypertension Guidelines - link coming soon!

#### Links to Patient Education Videos:

Starting Blood Pressure Medication Lifestyle Changes for High BP Monitoring Blood Pressure at Home Complete HTN Video Library

#### Hypertension

Labs		
Na	137 mmol/L	10d ago
К	4.5 mmol/L	10d ago
Cr	1.6 mg/dL	10d ago
GFR	44 ML/MIN	10d ago
Cholesterol	103 mg/dL	1yr ago
Triglycerides	175 mg/dL	1yr ago
HDL	29 mg/dL	1yr ago
LDL	55 mg/dL	1yr ago
Results		
Last Echocardiogram Date		2/13/2018
Last Stress Test Date		6/12/2019
Last ECG date		6/10/2020
Vitals		
BMI	30.68	3wk ago
Last BP	114/62	3mo ago
Previous BP (2nd)	110/56	3mo ago
Previous BP (3rd)	120/60	4mo ago

Medications	
Current Antihypertensives Meds	Isosorbide Mononitrate, Metoprolol Succinate, amLODIPine Besylate
Prescribed Thiazide Diuretics	No
Prescribed Imazide Didretics Prescribed Loop Diuretics	No
Prescribed Loop Diaretics Prescribed beta blocker	Yes
Prescribed ACE/ARB	No
Prescribed Alpha Blocker	No
Prescribed Alpha blocker Prescribed antiadrenergic antihypertensives	No
Prescribed calcium channel blockers	Yes
Prescribed vasodilators	Yes
Prescribed NSAIDs	Yes
Social History	
Smoking Tobacco Use Status	Former Smoker
Smokeless Tobacco Use Status	Former User
Last Ref to Tobacco Education	Not on file
Alcohol: Frequency	Not on file
Comorbidities	
Has Diabetes , Has Coronary Artery Disease , Has Hyperlipidemia	
Past Visit Information	
Last ED/IP Visit - HTN	3/5/2020
Last Nephrology Visit	Not on file
Last Cardiology Visit	6/4/2020
Last Pharm. Visit	5/28/2020
Last Nutritionist visit	Not on file
Last RN Chronic Disease Visit	Not on file
Current as of: 6/14/2020	) 5:27 AM ?

**Y**avetis

# Medication Warnings

Drug-Drug: warfarin and ami Amiodarone may inhibit hepatic metabo vitamin K antagonists (e.g. Anticoagular	lism and increase the anticoagulant effect of	warfarin (COUMADIN) 2 MG tablet	ve
High Details	Override reason	amiodarone (PACERONE) 100 MG tablet	ve
High Drug-Drug: warfarin and sulf The hypoprothrombinemic effects of An concurrent administration of Sulfametho Details	ticoagulants may be increased during	warfarin (COUMADIN) 2 MG tablet       Remo         Prescription. New. Long-term.       Remo         sulfamethoxazole-trimethoprim (BACTRIM       Discontin         DS) 800-160 MG per tablet       Discontin         Prescription. Active.       Discontin	
High Pregnancy Warning: warfari	n Override reason 🔎 🗅 Don't Show This Warning Again	warfarin (COUMADIN) 2 MG tablet	ve
Pregnancy Warning: warfari	n	warfarin (COUMADIN) 2 MG tablet ↑↑ Prescription. New. Long-term.	ve
enefit outweighs risk Low risk Insignificant U	Inveri&fied Patient educated on interaction of	concerns 🔒	



### A few best practices for CDS

Have a committee or a team

Focus on the problem, not the solution

Understand the workflow

Focus on giving guidance, not an intervention

Understand how your clinical teams use the EHR

→ Often the person requesting the change (especially higher up) does not know exactly what they want, or what types of changes or tools are needed. YOU have to know what questions to ask.

 $\rightarrow$  Keep it as simple as possible for the user



## **Questions?**



### Let's take a look at those cases

A mobile mammogram unit is going to go to 2 Marzes to do screening mammography. You are asked to "support the work."

It is observed that almost all of the children in a specific village are documented as having the same weight. You are asked to "use the EHR to figure it out and fix it."

The Medical Director at your clinic notices that children are not being given the appropriate vaccines at their appointments. You are asked to "use the EHR to figure it out and fix it."

The MoH wants to ensure that physicians are using the most appropriate and cost-effective BP medications. You asked to "use the HER to figure it out and fix it."

The MoH wants to reduce unnecessary antibiotic **Yavetis** 

# Thank You

Contact Name Organization Contact Info





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