

Knowledge and Compassion Focused on You

A Role for Health IT and Standards in Mitigating Risk in Primary Care

NIST Health IT Workshop September 7, 2016

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- Senior Director for IT Quality and Safety, Research, and National Health IT Policy – MedStar Health
- Chair, Medical Informatics Committee, ACP

Aside from being employed by MedStar Health, I have no relationships with any entity producing, marketing, reselling, or distributing health care goods or services consumed by, or used on, patients



Three Areas Where Health IT and Standards can Improve Safety and Mitigate Risk

Know me

- Patient identification
- Key clinical information
- Do not harm me Prescribing
- <u>Help me</u> Cancer screening



Know Me – Patient Identification Arm Bands Not Typically Used in Ambulatory Care







Know Me – Patient Identification Patient Photo in EHR

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Know Me – Patient Identification







Know Me – Patient Identification

- There are 285 John Smiths in the MedStar EHR
- At one point I had 3
 - 2 of the 3 had the same middle initial
 - All 3 came for an appointment the same morning

John Smith

• There are **46,746** people in the U.S. named John Smith.

Donald Trump

• There are **20** people in the U.S. named Donald Trump.

Hillary Clinton

 There is 1 person in the U.S. named Hillary Clinton.



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Know Me – Patient Identification Best and Worst Times for Patient Photos in EHR

nd Pt. Protoc		Problems Medications	Alerts/Flags	Flowsheet Ord	ers Documents		Update Phon	ne Nt. Refi
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Know Me – Key Clinical Information

PRIOR Problems Add prior problems to note	Problems at Start of Visit (verified) Verified Problems Redo
DIABETES INSIPIDUS (ICD-253.5) (ICD10-E23.2) NONSPEC REACT TUBERCULIN SKIN TEST W/O ACTIVE TB (ICD- 795.51) (ICD10-R76.11) Family Hx of CVA OR STROKE: (ICD-V17.1) (ICD10-Z82.3) ANKLE, FX STRESS (PATHOLOGIC), UNSPECIFIED (ICD-733.10) (ICD10-M84.40xA) OSTEOPOROSIS, IDIOPATHIC (ICD-733.02) (ICD10-M81.8) ABDOMINAL PAIN, EPIGASTRIC (ICD-789.06) (ICD10-R10.13) ABDOMINAL PAIN, EPIGASTRIC (ICD-789.06) (ICD10-R10.13) DYSPNEA ON EXERTION (ICD-786.09) (ICD10-R06.09)	PREVENTIVE HEALTH CARE (ICD-V70.0) (ICD10-Z00.00) LOW BACK PAIN, ACUTE (ICD-724.2) (ICD10-M54.5) DIABETES INSIPIDUS (ICD-253.5) (ICD10-E23.2) CHEST PAIN (ICD-786.50) (ICD10-R07.9) FLANK PAIN (ICD-789.09) (ICD10-R10.9) BACK PAIN (ICD-724.5) (ICD10-M54.9) PEANUT ALLERGY (ICD-V15.01) (ICD10-Z91.010) CHIKUNGUNYA FEVER (ICD-066.3) (ICD10-A92.0) HEADACHE (ICD-784.0) (ICD10-R51) ACCIDENTAL POISONING ARSENIC&ITS COMPOUNDS&FUMES (ICD-
PRIOR Medications Add prior meds to note TOC	Medications at Start of Visit (verified <u>Med Rec</u> Redo
ATENOLOL TAB 100MG (ATENOLOL) one by mouth every day. * DILTIAZEM 2% ointment. Apply perianally and intra-anally every 12 hours for 8 weeks * PRE OP ANTIBIOTICS Neomycin 1gm by mouth at 3pm, 4pm, 10pm the night before surgery. Flagyl 500mg by mouth at 3pm, 4pm and 10pm the night before surgery * NIFEDIPINE 0.5%, LIDOCAINE 1.5%, QSAD 30 GMS WITH PETROLATUM Apply 4 times a day peri- and intra-anally and after each BM. Use for 6 weeks * HARVONI (LEDIPASVIR / SOFOSBUVIR) 90MG / 400MG Take 1	
Updated Allergies Add updated allergies to note	Updated Directives Add updated directives to note
PENICILLIN G POTASSIUM (Critical) ACCUPRIL (Critical) EFFEXOR (Critical) BACTRIM (Critical) MORPHINE (Critical)	DO NOT RESUSCITATE NO BLOOD TRANSFUSION NO ARTIFICIAL LIFE SUPPORT
Add NON-Drug Allergy Onset Date 01/30/2015	erified Clear Directives Deferred Directives Verified Clear



Do NOT Harm Me – Prescribing Illegible prescriptions and ePrescribing

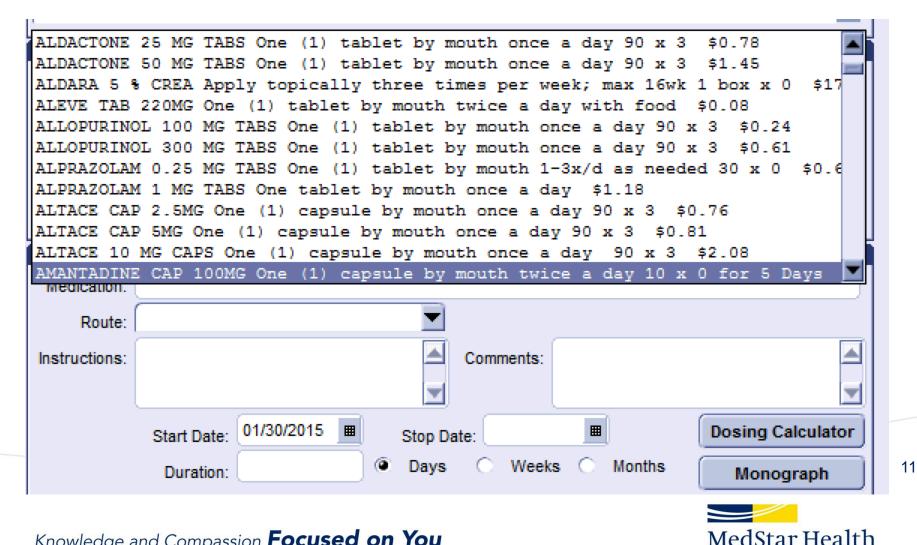
0 - 600 W. ATH STREET	ODESSA, TEXAS	Ph. 33	3.7111
FOR Va	quer Roman	AGE	
ADDRESS 1	marson Darian	DATE 6 23	95
	Zendil 20mg	# 120-	
	20 mg 8.0, 96W	sur i ma	
REFILLS	Ferron Sulfale 30 300mg p.0, TIC	E menta-	
	11 / 1		
-	30 cmil SQO	John.	
PRODUCT SELEC		DISPENSE AS WRITTEN	
		DEFENSE AS TRAILER	
	D.E.A. #		

Knowledge and Compassion Focused on You

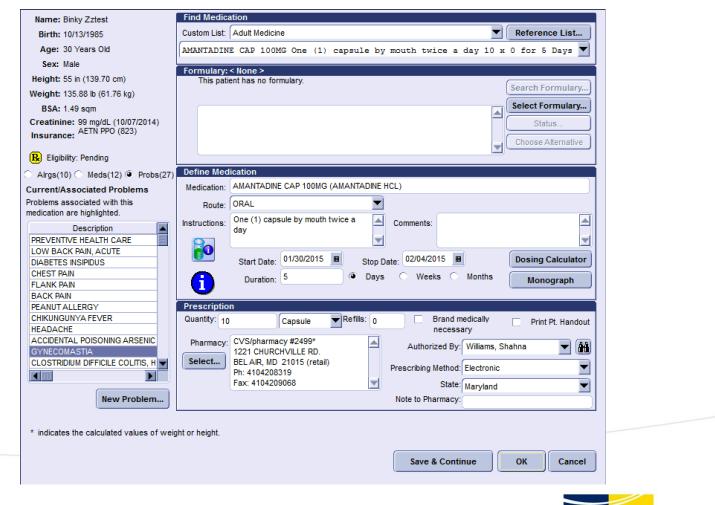
10

MedStar Health

Do Not Harm Me – Prescribing Drop-Down List Errors



Do Not Harm Me – Prescribing Problem/Condition-based Prescribing



MedStar Health

12

Do Not Harm Me – Prescribing Errors of Omission and Commission Due to Consideration of Medication Allergy in Med Choice

Name: Binky Zztest		Find Medica	ition				
Birth: 10/13/1985		Custom List:	Adult Medicine				Reference List
Age: 30 Years Old							_
Sex: Male		Formulara	FCL Loophask4 //	Uselth Dien Universit	- 4)		
Height: 55 in (139.70 cm	n)	Formulary:	гас соорваски (Health Plan Unknow	n 1)		
Weight: 135.88 lb (61.76	i kg)						Search Formulary
BSA: 1.49 sqm							Select Formulary
Creatinine: 99 mg/dL (1	0/07/2014)						Status
Insurance: AETN PPO (023)						Choose Alternative
R Eligibility: OK							
Airgs(10) Meds(12)) C Probe(27)	Define Med	ication				
Current Allergies and A							
PENICILLIN G POTAS		Route:			1		
* LATEX	310 M	In a familie and					
<pre> * PEANUTS </pre>	·	1 1		14			
	Allergies a	nd Adverse	e Reactions:	Active Only	🔿 All		
ACCUPRIL	1		Substance			Reactio	on
BACTRIM		ILFA			urticaria		
MORPHINE	• •				uruouna		
* EGGS							
* PEANUTS							

Knowledge and Compassion Focused on You

MedStar Health

Do NOT Harm Me – Med Dispensing Emerging but Inconsistently Applied Standards for Pill Shape, Size, Color, Markings







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Cancer Screening Remembering to Order It

-		
History of Present Illness	Select Specialty Internal Medicine	e 💽 View All Protocols
PCP: Peter Basch MD	Ref Provider:	
Visit Type: Acute Visit	CC: toe pain - ? gou	It View Prior HPI
History:	Edit Insert Tem	Check Box to Insert Form(s) o plate Clear All Template
Pt is here with acute atraumatic pain in the left of bothering her. No prior history of acute arthritis Otherwise ok		ve. No other joints Acute Care Visit Anticoagulation Form Asthma History Form Asthma Plan Form Back Pain Form Cardiovascular Management Fo CHF Form Depression Form Diabetes Management Form Diabetes Education



Cancer Screening Remembering to Order It

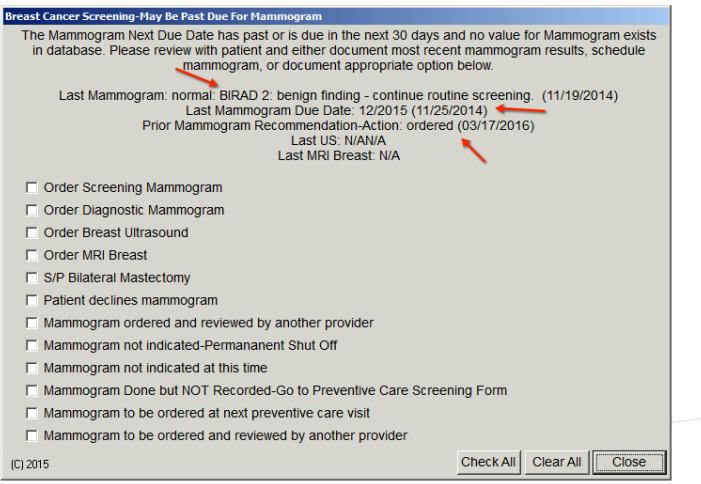
listory of Present Illness	Select Specialty Internal Medicine		(View All Protocols	
PCP: Peter Basch MD	Ref Provider:			
Visit Type: Acute Visit	CC: toe pain - ? gout		View Prior HPI	
History:	Edit Insert Template	Clear All	heck Box to Insert Fo Template	rm(s) or
Pt is here with acute atraumatic pain in the left bothering her. No prior history of acute arthriti Otherwise ok			Acute Care Visit Anticoagulation Form Asthma History Form Asthma Plan Form Back Pain Form	
	due. Check the protocols you wish button:	to view/execute,	, then click the 'Cl	ose'
The following protocols are now Breast Cancer Screening-Ma Initial Preventive Physical Ex		/	, then click the 'Cl	ose'
 ✓ Breast Cancer Screening-Ma ✓ Initial Preventive Physical Ex 	button:	/	, then click the 'Cl	ose'

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MedStar Health

Cancer Screening

Informing the Screening Test Type, Frequency, Patient Prior Response to Screening Order





Cancer Screening Protocol Satisfier – Automatic or Manual?

COMPARISON EXAM(S): 1/16/2013; 10/5/2011

Bilateral craniocaudal (CC) and mediolateral oblique (MLO) digital mammographic views with tomosynthesis were obtained.

No suspicious changes seen in mild breast nodularity.

Benign appearing calcifications are present, which are not significantly changed. There are no suspicious clustered microcalcifications, masses or areas of architectural distortion. There has been no significant interval change.

BREAST DENSITY: Scattered fibroglandular densities (25-50%)

IMPRESSION: No mammographic evidence of malignancy.

BI-RADS CATEGORY: 2-Benign Finding(s)

Your patient will be receiving a letter from us within the next 4 weeks containing a lay interpretation of their results.

Thank you for referring your patient to our center.



Questions??? peter.basch@medstar.net

