

Impact of SNOMED CT on a Changing Clinical Practice

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Presentation Outline

- ▶ Tracking Quality Measures using SNOMED CT
- ▶ Custom Templates to improve Point of Care and Population Health Analytics
- ▶ Patient Care Plans for Lung Function & Behavioral Health
- ▶ Improved Outcomes
- ▶ Additional impact

Tracking Quality Measures using SNOMED CT

- ▶ Procedures
 - ▶ Colonoscopy (completed, normal, abnormal)
 - ▶ Activities of Daily Living Assessment

Colonoscopy completed	Y	
Colonoscopy abnormal		adenocarcinoma
Colonoscopy	Colonoscopy abnormal	
FOB screen	313172000	
	SNOMED, 2014.2	
Fecal occu	73761001	
Fecal occu	SNOMED,	

	08/17/16
Independent bathing	
Requires bathing assistance	Y
Independent grooming	
Unable to groom self	Y
Able to feed self	
Unable to feed self	
Able to dress self	
Difficulty dressing	
Unable to dress	
Independent walking	
Difficulty walking	
Dependent for walking	Y
Transfers independently	
Difficulty transferring	
Dependent for transferring	Y
Able to use toilet	Dependent for transferring
Difficulty using toilet	714916007
Unable to use toilet	SNOMED,

Custom Templates as Short Term Solution

- ▶ Tailor to Providers Needs
 - ▶ Quality Measures
 - ▶ Patient Care Plans
- ▶ Modify templates to match clinical guidelines and standards
- ▶ Provided a streamlined solution for insurance reporting

Patient Care Plans (Point of Care Analytics)

- ▶ Medications
- ▶ Referrals
- ▶ Lab Tests
- ▶ Procedures
- ▶ Health Education Counseling

Population Health Analytics

- ▶ Query the practice by disease
 - ▶ Congestive heart failure patients
 - ▶ Patient with Type 2 Diabetes
- ▶ Query the practice by measure
 - ▶ Congestive heart failure patients
 - ▶ Ejection fraction less than 40%
 - ▶ Diabetic patients
 - ▶ Hemoglobin A1C less than 9 percent

Patient Care Plan for COPD

- ▶ Spirometry Testing (pre and post rescue inhaler)
- ▶ Classify COPD Severity
 - ▶ Mild, Moderate, Severe, End Stage
- ▶ Tracking the Spirometry Percentages: **reduces excess emergency room and hospital visits**

	08/02/17
FEV1/FVC Ratio Pre	93 %
FEV1 Pre	87 %
FVC Pre	94 %
FEV1/FVC Ratio Post	93 %
FEV1 Post	87 %
FVC Post	94 %
Spirometry completed	407603001 SNOMED,

Patient Care Plan for Integrated Behavioral Health

- ▶ AUDIT-10 Score
- ▶ Alcohol intervention counseling
- ▶ Depression intervention plan
- ▶ Introducing GAD-7 and MDQ for Anxiety and Bipolar Disorders
- ▶ SNOMED CT diagnoses for “Bipolar 1” and “Bipolar 2”

- ▶ Future: Add “seen by social worker”
- ▶ Trend: clinical social workers seeing patients more frequently versus psychiatrists

Improved Outcomes: Created Content After Learning SNOMED CT

- ▶ Adverse reaction caused by Atorvastatin
- ▶ Wong-Baker FACES pain assessment scale
- ▶ PHQ-9 score (depression score)
- ▶ Referral to respiratory physician declined by subject (726698006)
- ▶ Minimal depression (719512004)

Wong-Baker FACES® Pain Rating Scale



0

No Hurt



2

Hurts Little Bit



4

Hurts Little More



6

Hurts Even More



8

Hurts Whole Lot



10

Hurts Worst

Summary of Impact of SNOMED CT for clinical practice

- ▶ “Leverage” contracts based off clinical performance
 - ▶ Insurance Contracts: ACO, HEDIS, risk score
- ▶ Direct software engineers and database experts to SNOMED CT identifiers
- ▶ Won quality awards (from the ACO, Humana Gold, and Texas Medical Foundation)
- ▶ Monitor downside risk: ACO, hospital expenditures, etc.

Questions or Comments?

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