Workload Actions Measures Method (WAMM)

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Workload/Staffing

 Is amount of effort required to complete a course of Action
 In healthcare, hours /minutes of direct/ indirect care required for a patient encounter during a shift, day or episode of illness.

Workload /Staffing Issues

 Need Valid & Reliable Method to Determine:
 <u>Nurse Staffing</u> for Shift, Day, or Episode.

 <u>Administration</u>: Plan Hospital Year Nursing Staffing Budget

Workload /Staffing Issue

Technology Advances: Hardware Architecture, Software Algorithms, Data Warehouse, Cloud Storage etc.
Integrated HIT/EHR Systems
NI Theories & Research
HHS Approved- Standard Nursing Terminology: Clinical Care Classification (CCC) System.

Workload / Staffing History

 1960s: <u>Myrtle Aydelotte</u> Studied Nurse Staffing: Proven Higher RN Ratio to Pts. Led to Higher Safety, Quality & Better Outcomes.

JACHO: Certification Requirement

Past Nurse Staffing Methods

 <u>Medicus</u>: 20 Nsg. Cares & Formula
 <u>Grasp</u>: 56 Nsg. Cares & Formula
 Clinical Care Indicators:
 Personal Care, Nutrition, Fluids Activity, Hygiene, Vital Signs, etc.

Past Nurse Staffing Methods

- Medicus: 20 Nsg. Cares & Formula
- Grasp: 56 Nsg. Cares & Formula
 - Levels of Care New Needs-
 - Level by Type: Minimal etc.
 - Level by Intensity: (Likert Scale)

Nursing Standard

- **1970:** ANA Nursing Process:
- Six Standards of Professional
- Nursing Practice
- 2009: HHS Nursing TerminologyToday:
 - Ratio Nurse to Patient-Outdated

Nurse Research Study

- 2002: <u>Linda Aiken</u>: Research Studied 10,000 Nurses
- Under Staffing Each Patient Added Increased Mortality 7%
- Job Dissatisfaction 15%,
- Nurse Burnout 23%

Workload Actions Measures Method (WAMM)

Calculates & Predicts Workload Values

Workload Actions Measures Method (WAMM)

Value-Based Technological Solution which calculates workload values for clinical care services provided to patients by nursing & allied health using two core processes of a standardized electronic documentation.

WAMM Saba Solution

 Measures Values for Nursing Services by Combining two Aspects of Nursing Practice
 <u>Time (Actions): U</u>sing Relative Value Units (RVUs) Nursing Actions Encounters
 <u>Base Value:</u> Using Nursing Diagnosis Indicator of Disease Condition / Healthcare Pattern

WAMM Saba Solution: Part 1

Measures <u>Actions 'Time</u>' using Action RVUs formula for one of Four Nursing Actions Encounter:

Assess/Monitor – To Observe

• <u>Perform/Care</u> – Hands-on /Touch/Direct

Teach/Instruct – To Supervise

Manage/Refer – To Consult/ Indirect Care

WAMM Saba Solution: Part 1

Measures <u>Actions 'Time</u>' using Action RVUs formula for one of Four Nursing Services Actions Encounters:

- <u>Assess</u> Oxygen Therapy
 <u>Perform</u> Acute Pain Control
 Teach Breathing Exercises
- <u>Manage</u> Individual Safety

WAMM Saba Solution: Part 2

 Coupled RVU with '<u>Base Value</u>' -Nursing Diagnosis Indicator of Level of Care for Disease Condition based on 1 of 4 Healthcare Patterns:
 <u>Physiological</u>: Respiration Alteration
 <u>Functional</u>: Acute Pain
 <u>Psychological</u>: Anxiety
 <u>Health Behavioral</u>: Fall Risk

WAMM Solution Values

Calculates Action Time to

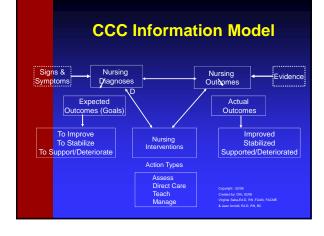
 <u>Perform</u> (.2) Acute Pain Control Xs RVU for Perform Xs Episode # coupled with

 Nursing Diagnosis Indicator

 Acute Pain DX Base Value (2) for Functional Healthcare Pattern

Patient Plan of Care (PPoC) Example: Using CCC System for EHR

Follows 6 Steps of CCC Information Model



Patient Plan of Care (PPOC) Case Study-S/S Example

Mr. Jones, age 70, admitted to hospital from ER:

- ** Productive Cough
- ** Shortness of Breath
- ** Acute rib pain when coughing,
- ** Oximetry Saturation- 88%

** Temperature of 102 degrees. Chest x-ray taken showed bilateral lower lobe & right lobe infiltrates.

PPOC Case Study – MD/RN Orders

Pneumonia MD/RN Orders

- Oxygen Therapy-10 liters -Cont.
- Oxygen Level <95 % Q6hrs.
- Cefazolin IV for Temp- Q8hrs.
- Breathing Exercises Q6hrs,
- Test & Give Med for Pain Q6hrs.
- Give Reassurance for Anxiety-Q6hrs.
- Initiate Fall Risk Precautions-Q12 hrs.

PPOC – Disease Condition / Nursing Diagnosis / Healthcare Pattern

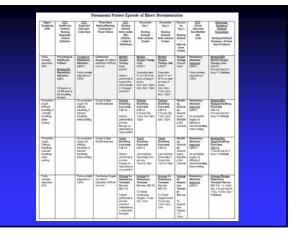
- Respiration Alteration: L26.0
 Physiological Pattern (1)
- Acute Pain: 63.1
 Functional Pattern (2)
- Anxiety: P40.0
 Psychological Pattern (3)
- Fall Risk: N33.6
 - Health Behavioral Pattern (4)

Nursing Services Actions Encounters / Orders

- Monitor Oxygen Therapy Care: L35.0 .1
 Q4 hrs. Xs 2 Days = 12 Actions
- Perform Medication Treatment: H24.4 .2
 Q8 hrs. for 3 days, PRN = 8 Actions
- <u>Teach</u> Breathing Exercises: L26.1 .3
 Q 2Xs Xs 2 Days = 4 Actions
- <u>Assess</u> Pain Control: Q47.0 .1
 Q6 hrs. Xs D days = 8 Actions

Nursing Services Actions Encounters/Orders (con't)

- <u>Perform</u> Pain Control: Q47.0 2
 Q6 hrs. for 2 Days = 8 Actions
- Monitor Med, Actions: H24.1 .1
 Q 6 Hrs. for 2 Days = 8 Actions
- Teach Emotional Support: E13.0 .3
 QQ 8 Hrs. for 3 Days = 9 Actions
- Manage Individual Safety : N42.3 .4
 Q 8 hrs. for 2 days = 6 Actions



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PPOC Nursing Actions Encounters / Orders

- Monitor Oxygen Therapy Care: L35.0 .1
 Q4 hrs. Xs 2 Days = <u>Total = 24 Actions</u>
- Perform Medication Treatment: H24.4 .2
 Q8 hrs. for 3 days, PRN = <u>Total 24 Actions</u>
- Teach Breathing Exercises: L26.1 .3
 Q 2Xs Xs 2 Days = Total = 8 Actions
- <u>Assess</u> Pain Control: Q47.0 .1
 Q6 hrs. Xs 3 days = <u>Total 24 Actions</u>

WAMM Analytics: Nursing Actions Encounters											
Actions by Frequency & Percent											
Assess-	36	-	35.3%								
• Perform-	43	-	42.1%								
Teach-	12	-	11.8%								
Manage-	11	-	10.8%								
Total	102	-	100%								

WAMM Analytics Saba Workload Solution

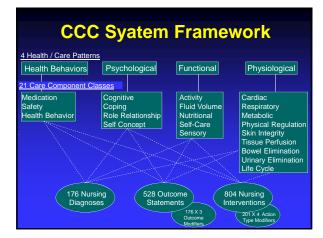
 Measures Values for Total Nursing Services by Coupling two Aspects of Nursing Practice:
 1. Action 'Time' using RVUs
 Each Nursing Action Encouners
 2. 'Base Value' Using Healthcare
 Pattern Disease Condition Indicators
 Nursing Diagnosis (DX)

WAMM Analytics: Findings

 Calculations for 102 Nursing Actions Encounters:
 Total: <u>13.9</u> Hours for three day episode
 Total <u>4.6</u> Hours per day

Clinical Care Classification (CCC) System

Terminiology of Choice



CCC Terminologies

Empirically Developed: Interrelated Terminologies for Single System To Document & Link DXs to RXs to OXs:

- <u>CCC of 176 Nursing Diagnoses</u>
- (3 Expected /3 Actual Outcomes)
- CCC of 804 Nursing Interventions
 (201 Core x 4 Action Types)
- <u>CCC of 528 Nursing Diagnoses Outcomes</u>
 (3 Expected / 3 Actual)

CCC System

Supports electronic capture of discrete coded patient care data for documenting the "<u>essence of</u> <u>care</u>" and measuring the relationship of nursing care to patient outcomes.

CCC Web Site

 http://www.sabacare.com or
 www.clinicalcareclassification.com
 <u>Clinical Care Classification (CCC)</u> <u>System: User's Guide Version 2.5</u> (2012) Springer Publications.
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