# VANDERBILT VERSITY

## MEDICAL CENTER

In the literature, nurses cite documentation burden as one of the most significant barriers to the patient and family exper nurse well-being. This finding was echoed by participants of the Vanderbilt Nursing Informatics Committees (VNIC), a shar committee comprised of front-line nurses. The vendor offered Macro functionality that was projected to reduce documer approved proceeding with efforts to customize the build. The new functionality was launched during one of two planned upgrades in August 2023.

## What is a Macro?

Macros allow nurses to complete common documentation tasks more quickly by giving them a pre-defined set of values to apply to a flowsheet in just a few clicks.

	Admission (Current) from 9/1		sity Addit Hospital
	4000	9/13/2023	11
	1300	14	14 N
Notification			
⊊ Shift Event			
Communication/Event Note			
Nursing Care Team Instructions			
RN Notified of	Use of the	Reassessment Mag	cro,
Pain Assessment	documents "do	ne" saving up to 14	4 clicks.
Pain Assessment		• •	
Pain Type	Ine nurse can	edit as needed the	n save.
F≣Multiple Pain Sites			
Motor block (Bromage)			
Post Anesthesia Recovery (PAR) Sco	re		
Post Anesthesia Recovery Scoring?			
Re-Assessment			
Neurological ReAssessment		Done	0
Cardiac ReAssessment		Done	
Respiratory ReAssessment		Done	
Vascular/Perfusion ReAssessment		Done	
GI Reassessment		Done	
Renal/UR ReAssessment		Done	
Skin ReAssessment		Done	
Activity/Musculoskeletal ReAssessment		Done	
Fluid/Nutrition ReAssessment		Done	
Safety/Fall Risk ReAssessment		Done	
Medication ReAssessment		Done	
Self Care/ADL ReAssessment		Done	
Infection/Metabolic ReAssessment		Done	
Psychosocial/Behavioral ReAssessment		Done	

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## Methods

EMR Analyst teams from across the enterprise and a member of the nursing informatics team, assisted by a project manager, collaborated with subject matter experts (SME) to develop Macro content. Phase one resulted in the creation of 225 system Macros across multiple disciplines. Application of a Macro can save many clicks for users. For example, applying a Macro for documentation of a normal IV assessment saves 3 clicks, and documentation of a nursing head to toe assessment can save as many as 15 clicks. Education of the new functionality took many forms to reach the wide audience. The eStar training team developed a quick hit 5 min training video and other tip sheets were incorporated into the Upgrade training materials. Super users for each area were tasked with sharing new of macros for their areas.

# **Macros: A Tool To Decrease Nursing Documentation Burden**

# **The Problem & Intervention**



## **Results: Satisfaction**

## Macros reduce documentation burden and save time (reduce) Refresh Plot

Total Count (N)	Missing*	Unique
69	<u>1 (1.4%)</u>	5

### Counts/frequency: Strongly Agree (25, 36.2%), Agree (17, 24.6%), Neutral (23, 33.3%), Disagree (3, 4.3%), Strongly Disagree (1, 1.4%)



## **Results: Time**

For a nurse caring for an ICU patient with assessments and/or reassessments required every 1 hour, applying Macros can save the nurse 221 clicks per patient. If the nurse has a 2-patient assignment, while using the current Macros, that savings is now equaling as many as 442 clicks per shift. In a 3-shift week, that can equal as many as 1,326 clicks saved. This number is now an astounding 5,304 clicks per month potentially saved. This savings equates to **88.5 minutes** per nurse per month for per ICU nurse.

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ared governance		
ntation time and VNIC		
semi-annual vendor		



## Macro Record Name ADL & Functional Status VUMC Assessment - Reassessment Personal Safety VUMC LDA PERIPHERAL IV Normal Assess VUMC I/O - Reassessment VUMC IP Children's I/O - Reassessment VUMC All Doc - Normal VUMC IP Childrens Vitals Site Check - IV PHQ-9 Depression screen PACU - Normal

# **Results: Clicks Saved**

# August – September 2023

## Daily Average

Monitor and validate the use of the Macros and the overall impact on documentation burden as well as quality/quantity. The potential exists for use of the Macros when not appropriate – i.e., applying a Macro and not editing abnormal assessment findings. Investigate opportunities to expand Macros into nursing areas not currently using them or areas beyond nursing. Explore the use of personalized Macros and develop guidelines.



## **Results:**





: Highest Usage					
Macro Display Name	App Team Owner	# of Times Used			
No concerns	Ambulatory	15634			
Reassessment	Clin Doc	10097			
No Concerns	Ambulatory	9217			
Normal Assessment	Clin Doc	8899			
Reassessment	Clin Doc	5992			
Reassessment	Clin Doc	4746			
Normal Assessment	Clin Doc	3831			
Site Check - IV	Clin Doc	2948			
No concerns	Ambulatory	2601			
PACU - Normal	OpTime	1707			

3	<b>620,260</b>	
	20,675	

## Implications

MACROS are here! MACROS are here! MACROS are here!

