Integrating Best Evidence into Patient Care: A Process Facilitated by a Seamless Integration with Informatics Tools

Annette M. Williams, MLS Associate Director

on behalf of

Nunzia B. Giuse, MD, MLS, FMLA, AHIP Assistant Vice Chancellor, Knowledge Management Director, Eskind Biomedical Library Professor, Biomedical Informatics & Medicine Vanderbilt University Medical Center Nashville, Tennessee

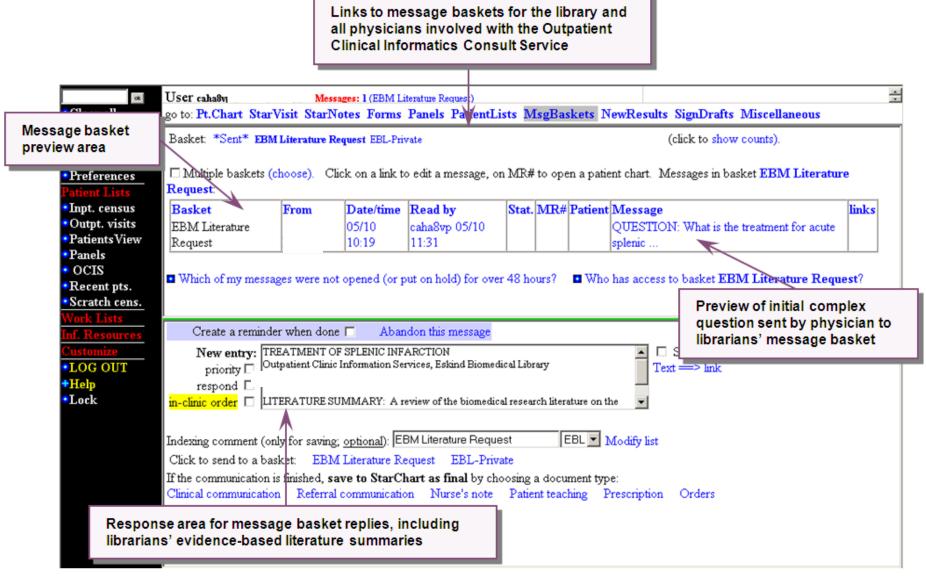




Evidence Integration into Vanderbilt's Electronic Medical Record (StarPanel)

- □ Successful adoption of the Clinical Informatics Consult Service (CICS) necessitated implementation of a scalable approach
- □ Two fundamental accomplishments achieved by rounding
 - No more "Fish Is Fish"
 - □ Value-added for clinical decision-making
- StarPanel
 - ☐ Internally created electronic medical record
 - Supports outpatient clinics & inpatient units
 - □ Provided opportunity for broader dissemination of CICS model









Order Set Collaboration

Order Set: Collections of *point-of-care actions* ("orderables") such as drug treatments, lab tests, & procedures for use in inpatient care usually grouped around a specific procedure (e.g. asthma control);

typically are	Order Set: Admission for Asthma
integrated into	Medications
Computer-based	☐ Albuterolmg by nebulizer everyhours
Provider Order	☐ Albuterolmg by nebulizer continuously (Suggested dose 2.5 mg/neb)
Essten arratama a a	☐ Albuterol MDI puffs every hours as needed
Entry systems as	☐ Albuterol/Ipratropium MDI puffs every hours as needed
advisors to	☐ Levalbuterolmg by nebulizer every hours (Suggested dose 0.63 mg - 1.25 mg/ne
inform decision-	☐ Levalbuterol MDIpuffs every hours as needed
making.	☐ Ipratropiummg by nebulizer every hours (Suggested dose 0.5 mg every 6 hours)
maxing.	☐ Methylprednisolepuffs everyhours (Suggested dose 30 mg - 60 mg every 6 hour

"Your hard work in obtaining the evidence on the use of magnesium on a scheduled basis for the pediatric asthma patient saved the institution thousands of dollars." – VMC Case Manager







MyHealthAtVanderbilt Collaboration



- ☐ Heightened awareness of Eskind services created environment ripe for collaboration
- EBL involved from the beginning for understanding optimal methods of patient education
- MyHealthAtVanderbilt web-based application that allows patients to view components of their medical records at the institution







Help: Using MyHealth

Home Page For: ZTESTSYC, HOLIDAY JUST TESTING Select Another Account

All Health Topics

· View all Health Topics

Be Healthy, Stay Healthy

- Blood Pressure Screening
- Vaccinations
- Vitamins and Supplements

Health News You Can Use

- Vanderbilt-Ingram Cancer Center Opens New Chemotherapy Clinic
- Vanderbilt University Licenses Cancer Cell Identifying Technology to DiaTech Oncologyder
- Two Vanderbilt Epilepsy Efforts to Offer Answers about Complex Condition [more stories]

Account Access

 View others who have access to ZTESTSYC, HOLIDAY JUST TESTING

Messaging

Message Your Doctor's Office



Clinical Record

View Your Clinical Record

Appointments Request an appointment with

- Your Doctor
- New Doctor
- View Existing Appointments

Health Screenings

 Peripheral Artery Disease! Are you at risk?

Research Opportunities

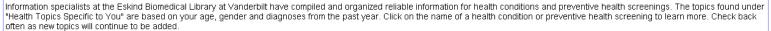
 Experienced surprising effects of medications? Tell us (iPod drawing for participants)

Patient Resources

- Information about a Doctor
- Healthcare
 Breakthroughs
- Quality of Care
- Maps & Directions
- Key Telephone

MyHealthAtVanderbilt – health topics integration





Be Healthy, Stay Healthy

Abdominal Aortic Aneurysm Screening

Blood Pressure Screening

Breast Cancer Screening

Cervical Cancer Screening

Cholesterol Screening

Colorectal Cancer Screening

Genetic Screening for Newborns

Nutrition Management in Seniors

Osteoporosis Screening

Seniors and Exercise

Smoking Cessation

Taking Multiple Medications

Toilet Training

Vaccinations

Vaccinations (Kids and Teens)

Vitamins and Supplements

Health Conditions

- Alzheimer's Disease
- Asthma
- Asthma (Kids and Teens)
- Autism Spectrum Disorders
- Brain Aneurysm
- Chronic Obstructive Pulmonary
- Disease (COPD)
- 🗷 Crohn's Disease
- Cystic Fibrosis
- Delirium
- Dementia
- Diabetes
- Diabetes (Kids and Teens)
- Diarrhea in Children
- Diverticular Disease
- Epilepsy
- Falls and Older Adults
- Fever in Children
- Fibromyalgia
- Gastroesophageal Reflux Disease (GERD)
- Hearing Loss
- High Blood Pressure

What is High Blood Pressure?

Manage Your High Blood Pressure

Conditions Linked with High Blood

Conditions Linked with.

Pressure
Specific Populations

Health Topics Specific To You

Blood Pressure Screening

Vaccinations

Vitamins and Supplements





What is High Blood Pressure?



Understanding your disease is the first step in knowing how to manage it. The resources below provide basic information about high blood pressure (also called hypertension), including what the numbers mean and the different types of high blood pressure.

Overview of High Blood Pressure

- . High Blood Pressure Overview (National Heart, Lung, & Blood Institute)
- High Blood Pressure Overview (UpToDate Patient Information)
- . Questions to Ask Your Doctor if You Have High Blood Pressure (National Heart, Lung, & Blood Institute)
- What is High Blood Pressure? (American Heart Association)

What Do the Numbers Mean?

- · About High Blood Pressure: What the Numbers Indicate (American Heart Association)
- . High Blood Pressure: Things you can do to Lower yours (American Academy of Family Physicians)

Other Types of Hypertension

- Secondary High Blood Pressure: When Another Condition Causes Hypertension (MayoClinic.com)
- What Are High Blood Pressure and Prehypertension? (National Heart, Lung, & Blood Institute)



This health information provided by Eskind Biomedical Library, Vanderbilt University Medical Center



MyHealthAtVanderbilt – lab test integration

