

"Well.. Just Stop Doing That...."

A road to value or ruin in the Inpatient Setting?

Kevin Clary, MD

Associate Chief Medical Officer: Value Based Initiatives

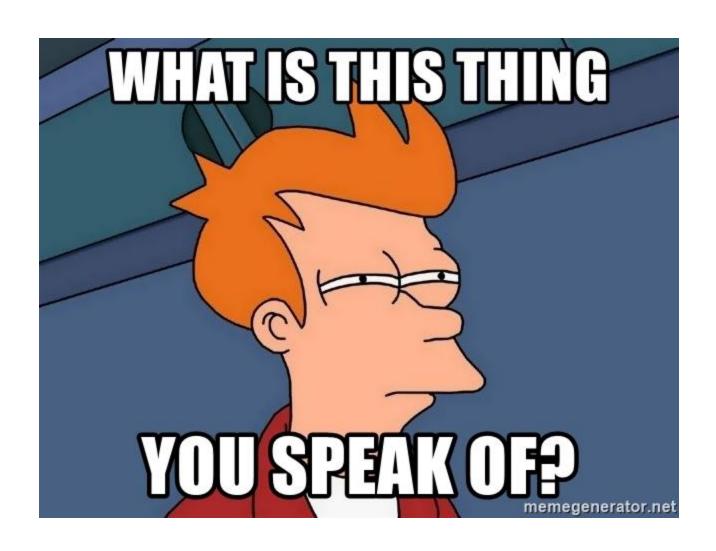
## Objectives



- Understand the basics of Value Based Care in relation to "High Value Care" and how it related to inpatient costs
- Review current approaches to "High Value Care" in the inpatient setting
- Look at current campaigns and approaches to identifying areas for addressing high value care
- Understand effectiveness of various techniques of implementation to reduce unwarranted utilization
- Understanding the difference between creating "Rules" and "Choice Shaping"
- Learn to "Make Right Easy"

#### Value Based Care.....What is it?





## Value Based Care vs High Value Care



Value = (Quality + Experience\*)/Cost

 Value Based Care = Care that is delivered to maximize quality for patients by reimbursing providers and networks for improved outcomes – (Think Payment Model!!!)

• <u>High Value Care</u> (as defined National Academy of Medicine)

- Safe
- Timely
- Efficient
- Equitable
- Patient Centered



#### Waste and Value at a Glance

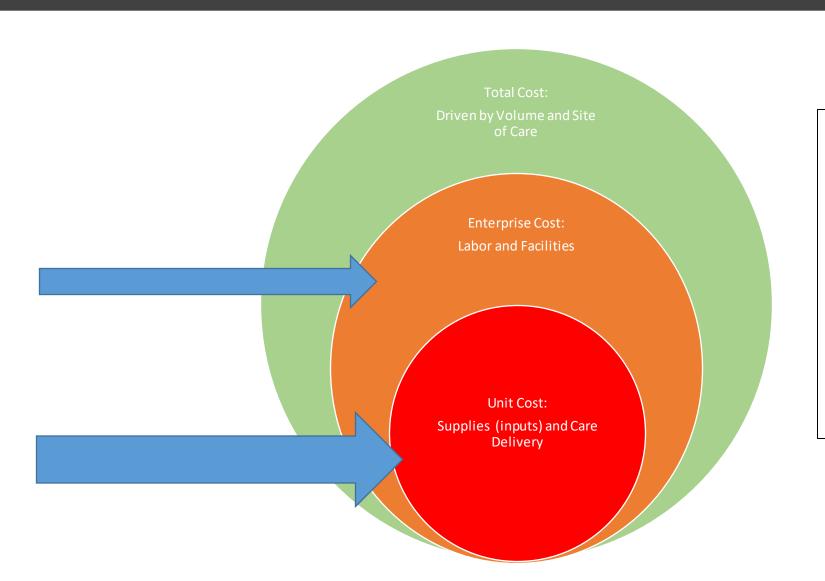


- In the US total cost of waste per year are estimated at. \$760 billion to \$935 billion (25% of total spending)
- However..... "savings from interventions that address waste were \$191 billion to \$286 billion."
  - Specifically.... Overtreatment or Low Value Care accounted for \$12.8-28.6billion
- Importantly .... "No studies were identified that focused on interventions targeting administrative complexity" Actually the LARGEST category of waste
  - However the estimated annual cost of waste in this category was \$265.6 Billion

(Shrank et al JAMA 2019)

#### The Issue with Inpatient Care and Cost



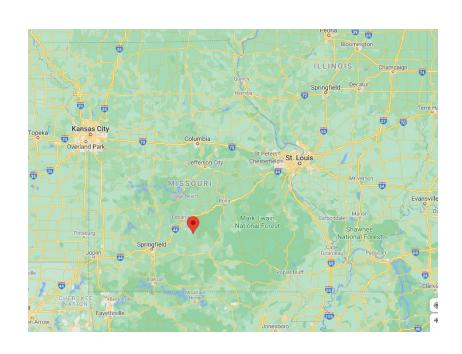


Hospitalist Impact is <u>limited</u> mostly to care delivery and to a lesser extent how this affects labor

- ie... more respiratorytreatments = more RT's,more telemetry means =more tele-boxes
- More tests and treatment means more cost.

# So why even bother!!!!?????





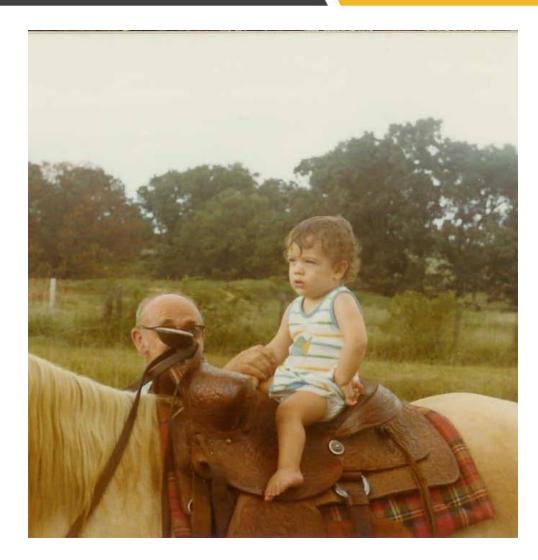
A little Place called Competition, Missouri.



# Why I Bother.....

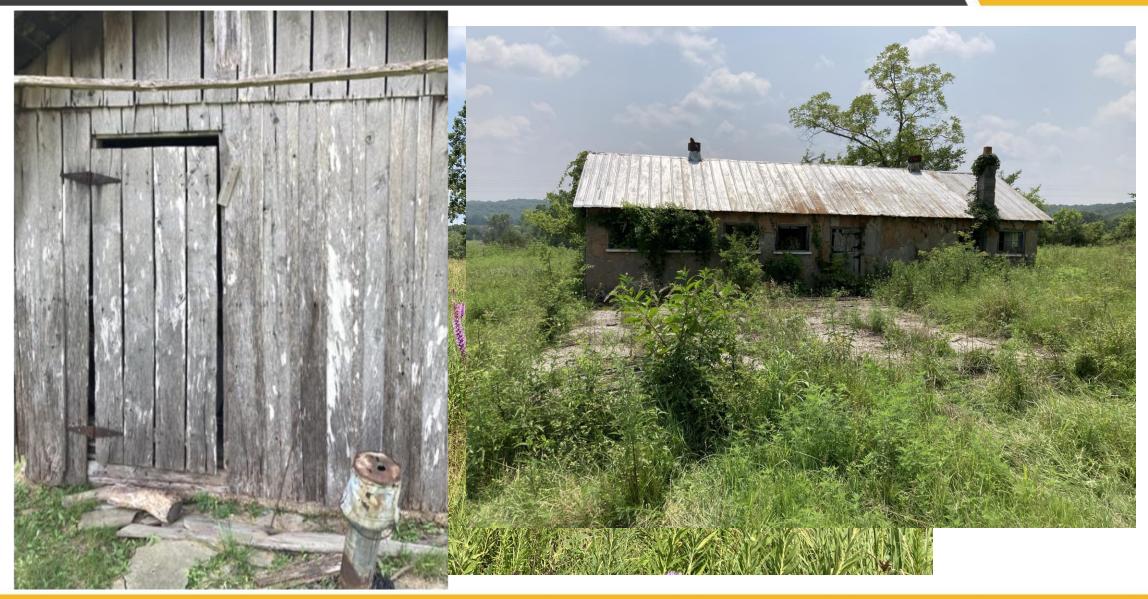






# Why I bother.....Continued....





#### I bother because ......



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#### How far we have come!!!



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Anesthesia: \$72.00
 Surgeon: \$200.00
 Hospital (13 Days) \$394.00
 Total \$666.90

- In 2021 dollars \$5,354
- Avg surgery today \$17,000 (w/o recon)

#### Current Movements in "High Value Care" in Hospital Medicine



- Things We Do For No Reason
  - Society of Hospital Medicine
  - Hospital Medicine Specific
  - Good case based examples for teaching
  - Need Membership for full access
- Choosing Wisely ©
  - ABIM
  - Not Hospital Medicine Specific
  - Limited Updates.... Relying on subspecialties to create recs.
- ACP High Value Care Initiative
  - Run by ACP
  - Has separate Hospital Medicine Module
  - Mix of free/paid content (free for members)
  - Has good educator modules/particular regarding payer and cost arrangements.

#### **Common themes**

- Every Tells you what NOT to do.
- 2. Nobody tells you how NOT to do it!

### Resources and Teaching Files

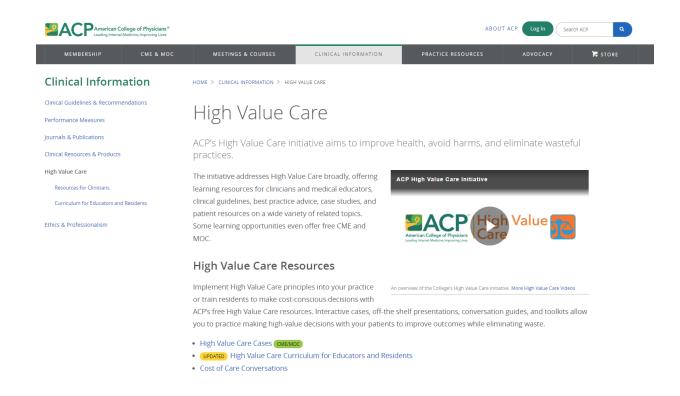




#### CHOOSING WISELY®: THINGS WE DO FOR NO REASON<sup>TM</sup> Teaching Files

This category contains articles that, using a case-based approach, describe practices (tests, procedures, management strategies) that may be poorly supported by evidence or which have become part of standard practice based despite the availability of less expensive or higher value alternatives.

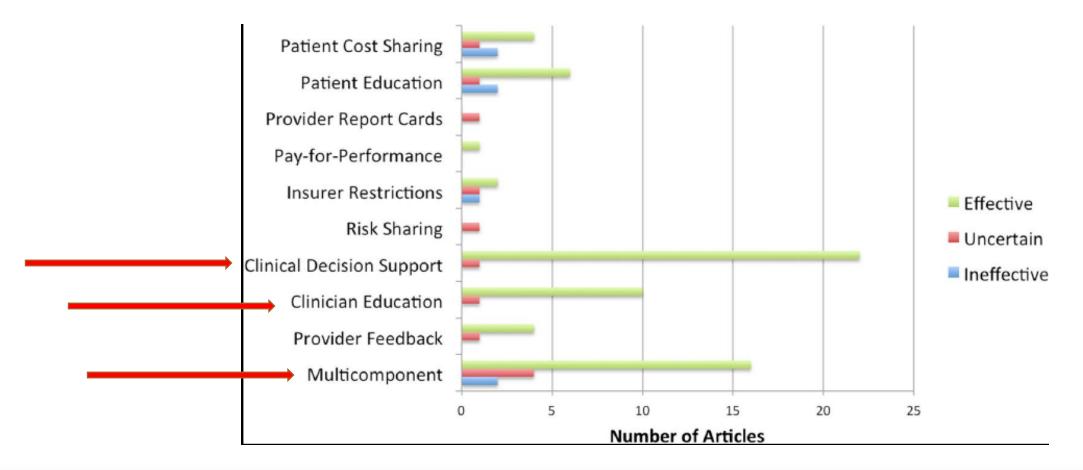
Article	Supporting Information
Journal of Hospital Medicine Journal of Hospital Medicine Choosing Wisely®: Things we do for no Reason™ Full Access Things We Do for No Reason™: Routine Correction of Elevated INR and Thrombocytopenia Prior to Paracentesis in Patients with Cirrhosis	Teaching File PPT
Things We Do for No Reason™: Routine Coverage of Anaerobes in Aspiration Pneumonia	Teaching File PPT
Things We Do For No Reason™: Treatment of Infection-Related Fever	Teaching File PPT



#### Is Education Alone Effective????



 Cola et al. Reviewed 108 articles on effectiveness of Interventions to reduce "Low value Care"



#### Main take away....



- Incentives are great for increasing doing SOMETHING but not for NOT doing something
- Make it easy to do the RIGHT thing first and place barriers where the potential for overuse exist.... (ie... Clinical Decision Support)
- Physician Education is necessary for buy in......
- Teamwork Makes the Dream work.

## Don't Blame us, blame our brains...



- Applied Behavior Analysis (Ingvarsson et al 2023)
  - Rule Based
    - Better for rare and unforeseen events
    - Necessary when trial and error are not an option
  - "Three Term Contingency"
    - Need (Antecedent, Behavior, Consequences)
    - Better for COMPLEX Dynamic Systems
    - I'm Calling it "Choice Shaping"

#### Table 1

Key principles and concepts within applied behavior analysis.

Key principle	Concepts	Description
Chree-term	Antecedent	An event that precedes and signals an expected behavior and the consequences that will follow.
	Consequences	An event that comes after the behavior that maintain, change, or extinguish behaviors.
Rule-governing	Rule	An instruction that states the expected behavior and the expected consequences for performing the behavior.

## Rule Based vs "Three Term Contingency"



#### **Rule Based Examples**

- Great where critic needed
  - "Hard Stops" in E products and alle
  - Restrictive Order high cost medicat biologic chemo)
  - Limits on weight based dosing in Pediatrics
- Weakness
  - Annoying
  - Hackable → lead to frustration

#### "Three Term Contingency" Examples

- Both Approaches have their place
- 2. They are NOT necessarily mutually exclusive

**Take home** 

so be seeing as "Choice Shaping" where common problems ection with multiple decision

- nical Pathways with facilitative of the state of the stat
- Education Campaigns
- Clinical Team Performance Feedback
- Weakness
  - At most effective require LOTS of infrastructure to maintain

## OK, I have an idea for a project, now what.



- Start Small and pick something
- Focus on a headache as much as cost
- Don't strive for perfection



## An Example for MU

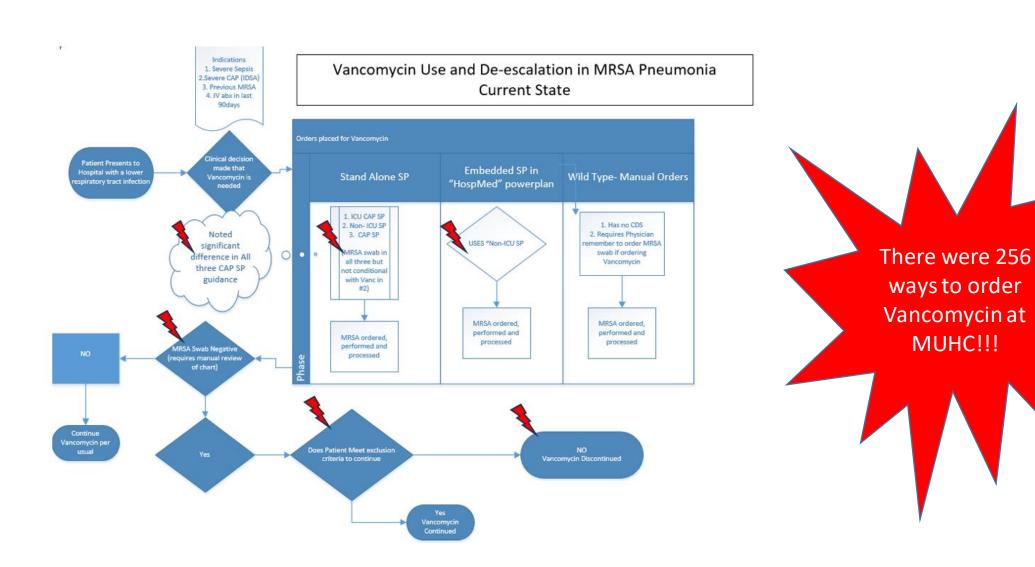


- Project "Vanc-quish"
  - Myself and Dr. Taylor Nelson, DO (Infectious Disease)
- Global aim:
  - Reduce unnecessary vancomycin overprescribing and/or prolonged use in patients hospitalized with infections where MRSA is not the causative pathogen.

		Medical Service C	omparison				
	Service						
	☐ Family Medical Care	Family Medical Care	☐ Internal Medicine	Internal Medicine	☐ Pulmonary Disease	Pulmonary Disease Post-MRSA Swab	
	Pre-MRSA Swab	Post-MRSA Swab	Pre-MRSA Swab	Post-MRSA Swab	Pre-MRSA Swab		
Values	Implementation	Implementation	Implementation	Implementation	Implementation	Implementation	
Discharges	156	183	388	348	142	150	
Average LOS	8.6	8.9	10.5	12.6	16.4	15.0	
% Discharges with ICU Stay	42.9%	37.2%	45.4%	48.9%	97.2%	99.3%	
MRSA PCR Swab Orders		34		94		51	
% Visits with Vancomycin	45.5%	35.5%	54.1%	48.0%	88.0%	84.0%	
Average Number of Days Vanc Administered	2.0	1.4	3.1	2.3	6.2	5.4	
Average Vanc Direct Cost/Visit	\$66.46	\$36.12	\$93.54	\$58.19	\$192.55	\$151.63	
Average Total Direct Cost/Visit	\$13,816.90	\$14,232.84	\$18,557.72	\$19,505.77	\$46,547.67	\$45,766.66	

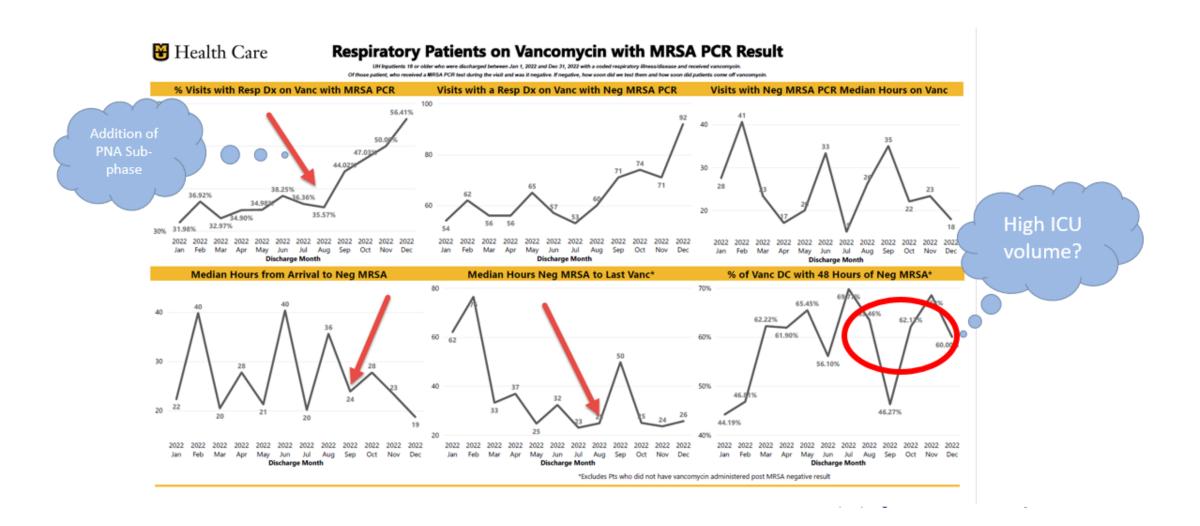
## Project "Vanc-Quish"





### Project Vanc-quish - Continued

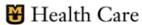




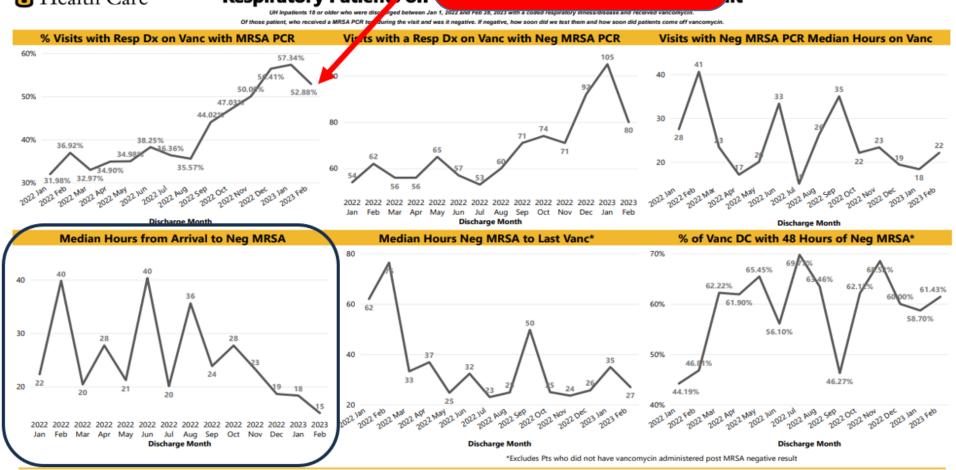
#### Project Vanc-Quish -



"Rule Based" – Intervention gone awry



#### Respiratory Patients on



## Parting Shots



- 1. In order to succeed in future payment models, Hospitalist will need to take a lead in delivery of High Value Care.
- 2. Cost of healthcare as impacted by Hospitalist are more than simply an addition of the tests and treatments ordered.
- 3. Successful reduction of "low-value" care is most likely to be impacted by facilitative Clinical Decision Support (CDS and ongoing feedback)
- 4. A combination of "Rule Based" and "Three Term Contingency" (ie..Choice Shaping)
- 5. "Make RIGHT easy" is always the best answer

#### References



- Shrank WH, Rogstad TL, Parekh N. Waste in the US Health Care System: Estimated Costs and Potential for Savings. *JAMA*. 2019;322(15):1501–1509. doi:10.1001/jama.2019.13978
- Colla CH, Mainor AJ, Hargreaves C, Sequist T, Morden N. Interventions Aimed at Reducing Use of Low-Value Health Services: A Systematic Review. Med Care Res Rev. 2017 Oct;74(5):507-550. doi: 10.1177/1077558716656970. Epub 2016 Jul 8. PMID: 27402662.
- Ingvarsson S, Sandaker I, Nilsen P, Hasson H, Augustsson H, von Thiele Schwarz
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- https://www.choosingwisely.org/
- <a href="https://www.acponline.org/clinical-information/high-value-care">https://www.acponline.org/clinical-information/high-value-care</a>