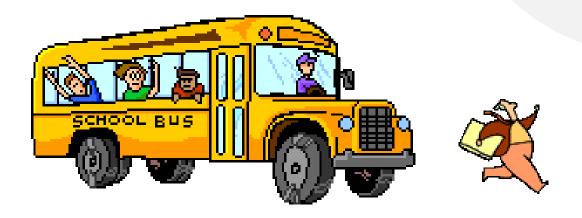
# Test utilization— are you driving the bus, chased by the bus or under it?



#### Debbi Tiffany MSED, MLS(ASCP)<sup>CM</sup> SC<sup>CM</sup> SLS<sup>CM</sup>

Director of Laboratory Services
SwedishAmerican Health System
Rockford, Illinois





### Official disclaimer and introduction

Who am I and why am I presenting this topic?







### We all know it's out there .....

The Future of Lab

The Future of Lab

Utilization Management
Are Lab Formularies the

Answer?

Answer?

Utilization Management 2013 Optimal
Utilization of
Laboratory
Testing
Nanaging physician
Nanaging physician
Nanaging physician
use of laboratory tests.

"Choosing
Wisely" Program
Wants to
Encourage
Better Utilization
of Clinical
Pathology
Laboratory Tests

Pulling back the reins on superfluous testing LABORATORY
UTILIZATION
IMPROVEMENTS:
APPROACHES,
OUTCOMES AND
IMPACT

intervention to improve laboratory tests within a

How labs are taming test utilization











### Where do I start?

"It is the direction and not the magnitude which is to be taken into consideration."

I USED TO BE INDECISIVE ... NOW I'M NOT SURE.

Source: http://9teen87spostcards.blogspot.com/

**Thomas Paine** 





### High level view

- What is my menu?
- Where are these tests being done?
- What instrument platforms do I have?
- Who is ordering them?
- How much are they costing me?
- Can we do anything better?
  - TAT
  - Pricing
  - Workflow



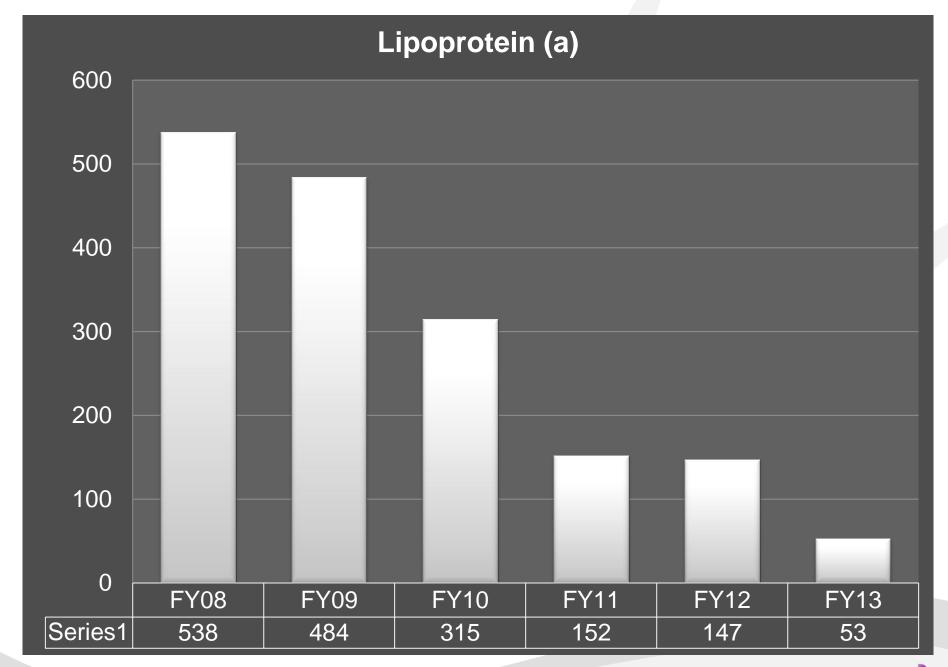


### Tracking what you do

- Year to year comparisons
  - Top 25 in house and referred tests
  - Look for change in volume or order pattern change
    - Physician or practice changes
    - Effect of CPOE, LIS, or HIS changes
    - Evidence based medicine or practice guideline changes and updates
    - Viability of keeping a test in-house









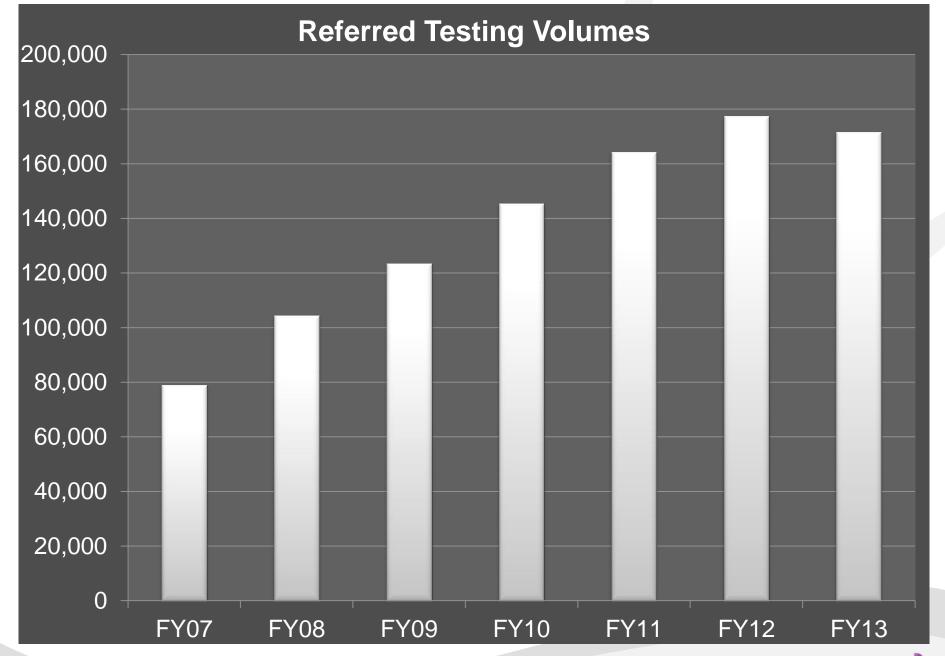


### **REVIEWING SEND OUT TESTS**



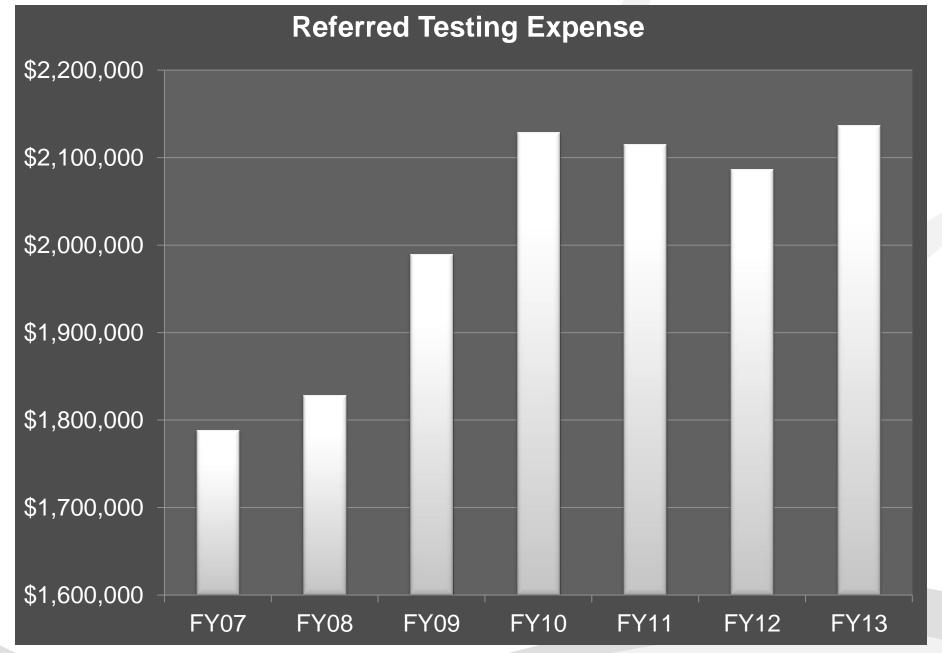














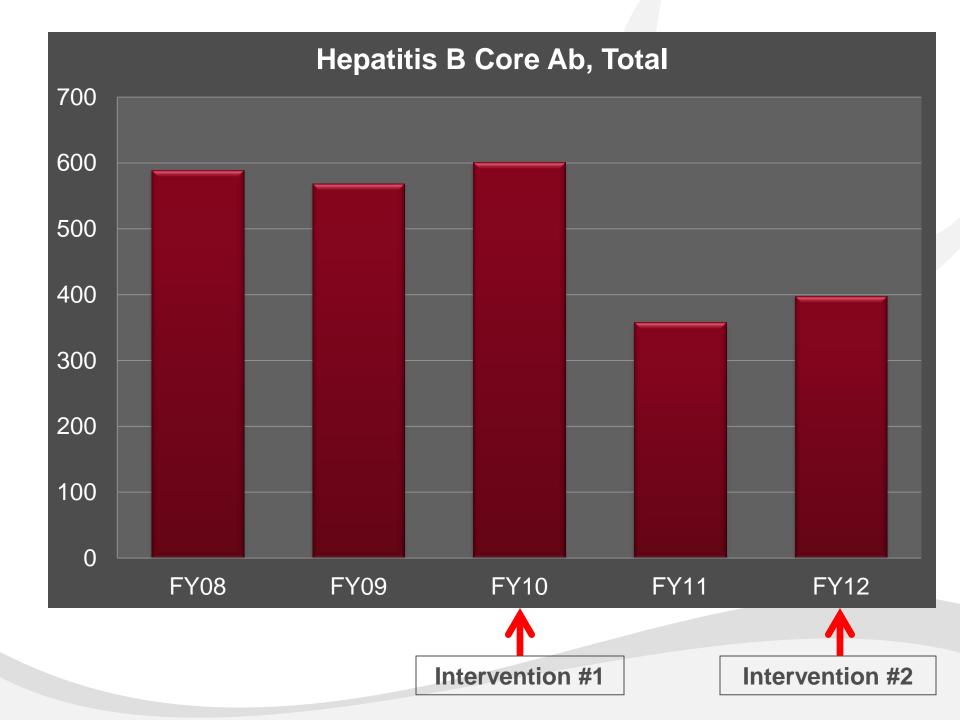
SWEDISHAMERICAN HOSPITAL

## Reviewing your send out tests—things you can do yourself

- Year to year comparisons
  - Top 25 referred tests
  - Look for change in volume or order pattern change
    - Physician or practice changes
    - Effect of CPOE, LIS, or HIS changes
    - Evidence based medicine or practice guideline changes and updates
  - Can I do any of these tests myself?





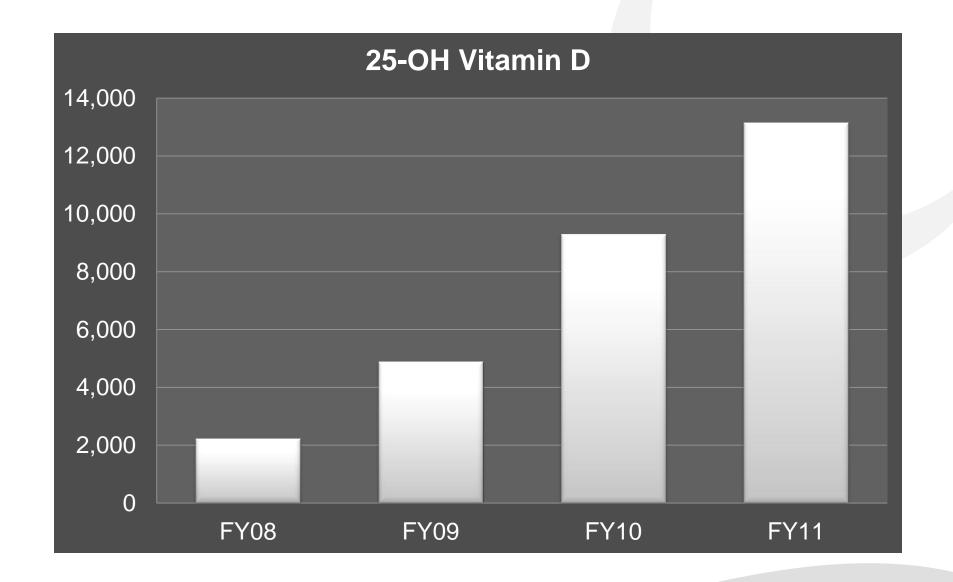


### Hepatitis B Core Ab, Total

	send out cost	in house cost
	\$9.92	\$3.30
FY12 volume	398	398
total cost	\$3,948.16	\$1,313.40
Savings		\$2,634.76











### 25-OH Vitamin D

	send out cost	in house cost
	\$16.25	\$8.95
FY11 volume	13,149	13,149
total cost	\$213,671.25	\$117,683.55
savings		\$95,987.70





## Evidence based medicine or practice guidelines

- The "trend" of celiac testing
- Following guidelines





### Celiac serology—who, what, where, and can I do better?

- Celiac testing being ordered by family practice, internal medicine, and mid-level providers like PA's and APN's and not just gastroenterologists
- Analysis of testing provided by a specialized laboratory (Laboratory "P") indicated a battery of tests being used for celiac serology testing
- Other national reference laboratories were using reflex testing in response to published guidelines

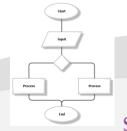




### Celiac serology—shotgun versus reflex

	Lab P	Lab A
	\$231.98	\$33.16
FY12 volume	182	182
total cost	\$42,220.36	\$6,035.12
savings		\$36,185.24









## Reviewing send out tests—now you need some expert help

- How do I compare to other labs?
  - Do we order more/less/same?
- Are we ordering
  - Inappropriate tests?
  - Outdated tests?
  - Duplicate or tests with limited use?





### What to look at and why?

- Mis-utilization/underutilization
  - APC resistance and Factor V Leiden
- Suboptimal/overutilization
  - Ova and Parasite testing
- Outdated or inappropriate testing
  - H. pylori serology testing
  - Aldolase





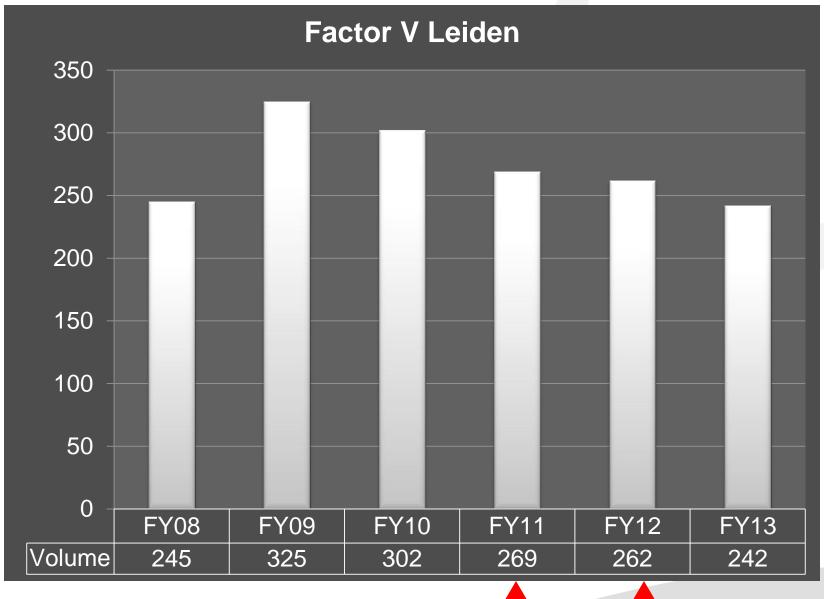
#### **APC and Factor V Leiden**

- "For factor V Leiden testing, functional testing (i.e. activated protein C (APC) resistance) is clinically equivalent to DNA testing as an initial test and is less costly."
- "Abnormal APC resistance test results can be followed up with PCR testing for confirmation and to distinguish homozygotes from heterozygotes."

### Screen with APC







Intervention #1



### Where are we now?

- Still too many Factor V Leiden being sent out
  - Inpatients
  - "shotgun orders" by certain providers
    - One oncologist
    - Multiple locum tenens hospitalists
- What now?
  - CPOE order screen/order set redesign
  - Pathologist intervention with certain providers
  - Bring the test in-house to better scrutinize orders?





### Ova & parasite testing

- First referred out in FY09
  - Staffing
  - Expertise
- No criteria for specimen submission or pre-screening
  - "If you have a specimen, it gets sent out"



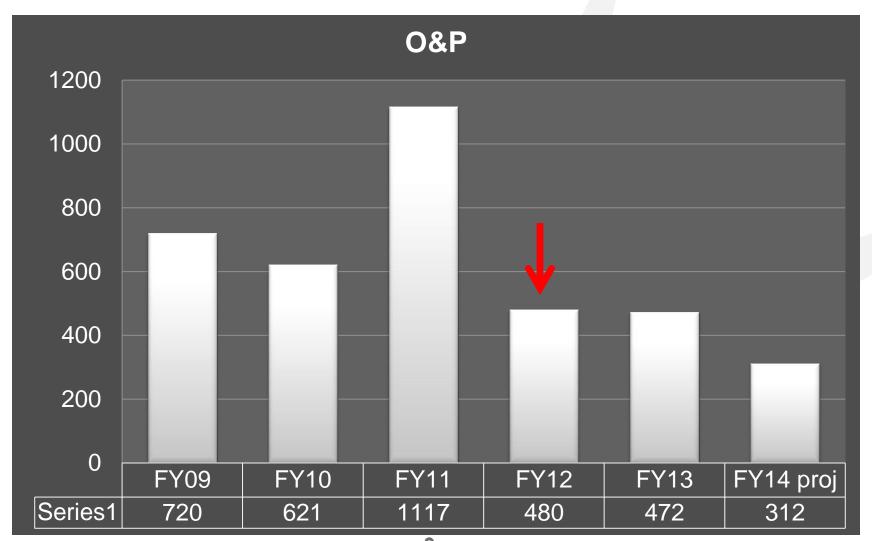


### Based on consultation.....

- Specimen criteria set up for sending out O&P beginning June 2011 and communicated by pathologist responsible for Microbiology
  - If patient is immunocompromised
  - If patient has a travel history
- If criteria <u>not</u> met, in-house Giardia and Cryptosporidia testing performed and specimen held 30 days
  - This information is communicated in report
- In 1<sup>st</sup> year
  - 57% reduction in unnecessary testing
  - Approximately \$38,000 in savings











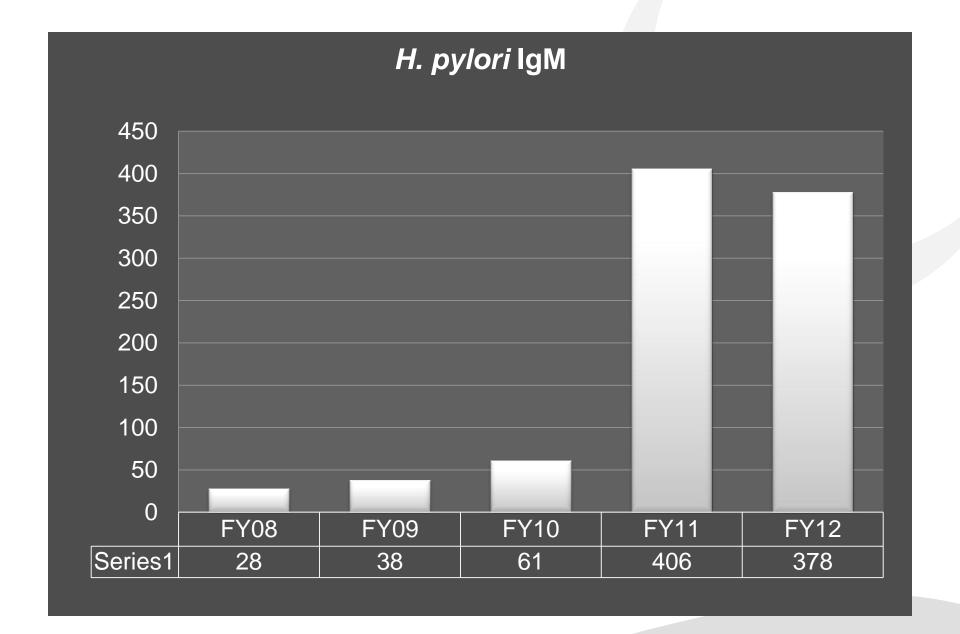


### Outdated or inappropriate testing

- H. pylori serology testing is not recommended per evidence based medicine
- Better methods available
  - Breath test
  - Stool antigen
- SAH appeared to order more than "normal" compared to other labs











- Drill down revealed inappropriate ordering across the system and not isolated to any one clinic or provider
- Communication regarding more appropriate testing (newsletter, specific individual letters, electronic "Dr. Hub" posting) not effective at changing ordering behavior
- All H. pylori serology tests removed from computerized order entry system and letters issued announcing discontinuation as of June 2012
  - Link to appropriate testing guidelines provided in letters





### **Aldolase**

- Considered outdated and of little clinical utility
- Drill down on orders
  - Single location
  - PA's and APN's
- Tried communication strategy regarding use of CK as an alternative





### FUTILITY

No matter how hard you try, you will fail.





### Aldolase—my nemesis







#### Success factors

- Data, data, and more data
- Willingness to dig into data
  - Get it to "talk to me"
- Real world savings
- Support from our reference lab (on-call pathologist, subject experts, online resources)
- "Can-do" attitude from lab supervisors to bring testing inhouse if needed
- Properly motivated and informed physicians





## Strive for progress not for perfection.





