Direct Access Testing

A Physician's Perspective

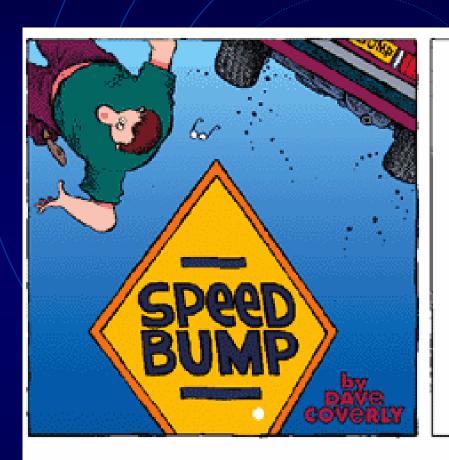
Verlin K. Janzen, MD



- Do physicians have a view on DAT?
- Concerns / Risks
- Benefits & to whom?
- Recommendations

What do physician's think about DAT?

- Professional Organizations
- 'Study' AAFP State officer's listsery
 - 18 responses





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Informal 'Study'

 $N \pm 18$

- For (2), Against (7), Neutral (9)
- Aware of: Yes (8), No (7)
- Repeat Test? Yes (6), No (2), Depends (3)
- WB CT in Community: Yes (7), No (5)

- First do they want it?
 - ? Is/will advertising/marketing creating demand?

• "Many health conscious individuals wish to have lab testing performed but want to avoid the inconvenience and expense of physician office visit."

Henry Soloway, MD

• "Public is becoming better informed and are *capable* of taking responsibility for their actions"

John Halsey, PhD

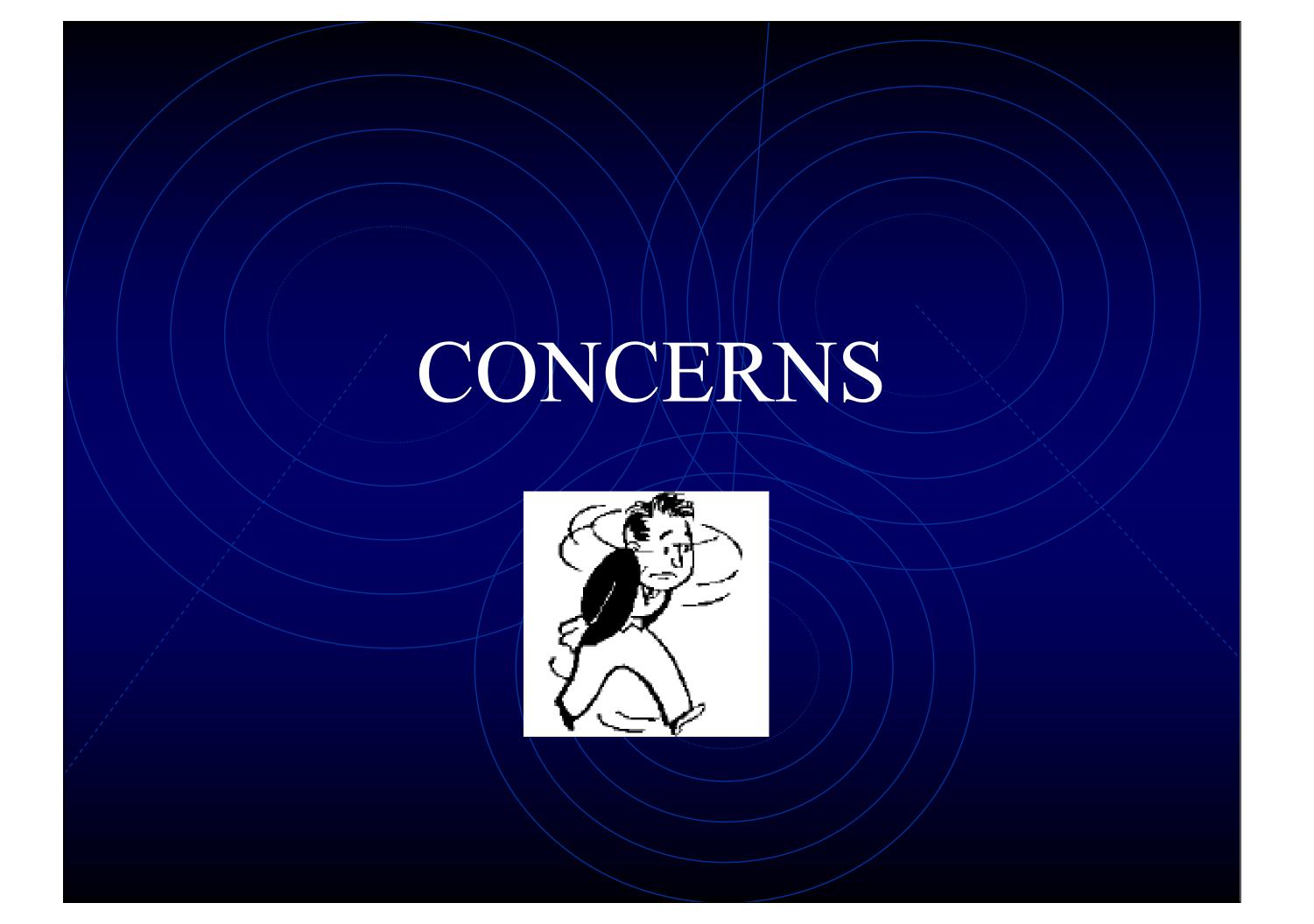
- Patients have *seemingly* simple questions
 - Am I pregnant? Do I have AIDS? Have I taken too much Coumadin? Is my cholesterol too high? Will my drug test be positive?
- Convenience easy access / rapid TAT
- Access payor restrictions on testing
- Haven't learned about / won't accept EBM
- To verify accuracy of prior testing



"Anonymous is more than confidential"

Dr. Halsey

- HIV testing why not use STD clinic?
 - stigma attached to being seen there
 - not 'anonymous'
- Drugs of abuse
 - parents checking kids
 - pre-employment, pre-insurance
- Concerns about insurance database
- Concerns about employer finding out
- Privacy for healthcare workers



- Are the tests necessary?
 - Is there any potential benefit?
 - Is there harm w/ unnecessary testing?
- Normal process w/ patient request
 - If necessary / reasonable order
 - If not recommended <u>discuss pros/cons</u>
 - Harm ≈ Benefit probably order
 - Harm > Benefit probably wouldn't order



"We can't be absolutely certain until we run some tests, but your initial blood work indicates that you may have a large spear through your right shoulder."

Concerns • Can clients of DAT lab be smart consumers of diagnostic tests?



"My thigh hurts. Could it be my thyroid?"

- Can clients of DAT lab be smart consumers of diagnostic tests?
- Can they reliably interpret the results?
 - Clients are "anxious, educated, somewhat affluent"
 - "The public is becoming better informed"
 - ? Cholesterol of 280 last yr vs 265 this yr
 - ? What does the result mean for THEM?
 - ? Can they understand / will they read handouts
 - ? (-) preg test could still be pregnant

TC 234 HDL 36 Trig 180 LDL 158

Patient	32 yo white male	52 yo white male	52 yo white male
Known CHD/ASD	No	No	No
Diabetes	No	No	No
Cigarette Use	Yes	No	Yes
Hypertension	Yes – 160 systol	Yes – 160 systol	Yes – 160 systol
Treatment	No	No	No
FH prem CHD	Yes	Yes	Yes

10-yr CHD Risk	9%	12%	26%
LDL Goal / Rx	< 130 / > 100	< 100 / > 130	< 100 / > 130

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10-yr CHD Risk		
LDLGoal / Rx		

Diabetes Screen



QuickLook

Price \$40.00

Results can provide information on or about your

Sugar metabolism

This test requires

Blood sample

Preparation for your visit

- · Wear sleeves that roll up easily
- Fasting required 8 hours before your test

QuesTest™ panel includes

- qlucose
- hemoglobin A1C, screening.

This QuesTest™ panel is available at full service and purchase only locations.

Since when do you screen for diabetes with an A1c?

Will patient know what to do with A1c of 6.8 and blood sugar of 188?

Nutrition and Vitamin Panel



QuickLook

Price \$95.00

Results can provide information on or about your

- Blood health
- Cardiovascular health
- Immune system.
- Iron metabolism

- Sugar metabolism
- Vitamin and mineral levels

This test requires

Blood sample

Preparation for your visit

- · Wear sleeves that roll up easily
- Fasting required 8 hours before your test

QuesTest™ panel includes

- vitamin B12
- follows
- calcium.
- tron
- total iron binding capacity
- total cholesterol
- HDL cholesterol
- LDL cholesterol
- triglycerides
- qlucose

When the patient receives report with calcium in the normal range, will they assume they don't need to take calcium for their osteoporosis?

- Cost to individual & system
 - Unnecessary tests / Evidence Based Medicine
 - Incidentalomas false positives
 - Especially with large profiles
 - How will 'anxious, affluent, educated' react?
 - Cost (\$, anxiety, worry, risk)
 - Frequent re-tests / churning
 - Will insurance eventually be forced to cover?

- Bad news result
 - Response denial, scared, suicidal
- Delayed Diagnosis False Reassurance
 - False (-)
 - Wrong test
 - Wrong Reason
 - Fad tests

- Unproven tests Commercialism
- Advertising / Marketing
- Unscrupulous providers

- If there is \$\$ there will be more labs
 - Competition low margins cut corners

http://www.health-tests-direct.com/reasons_for_blood_tests.htm

BLOOD TESTS? WHY GET BLOOD TESTS? Here are FOUR very good reasons...

Very good reason #1: "You have SYMPTOMS of an illness." Weight loss that is sudden, headaches that are constant, continued low energy levels, skin sores that do not heal or heal too slowly...any one of these symptoms is a strong signal that your body gives you to let you know "something" is wrong with you physically. A blood test can tell you "what" is wrong! It's easy to order your test by toll-free phone: 1-800-456-4647 x 207.

Very good reason #2: "You have NO SYMPTOMS of an illness." Many diseases such as AIDS, and other *life-threatening* maladies like **heart disease**, **liver and kidney disorders** and numerous quite serious illnesses will often exist in your body *without* ANY symptoms for many *weeks* - and even exist for many *months* - long *BEFORE* symptoms become obvious to you...*or to your doctor!* Why on earth should you *wait* for "symptoms"? Check your body's health *today*...with a simple, inexpensive blood test. **Call us toll-free!**

Very good reason #3: "You want to know if you are PREGNANT." A laboratory test of a woman's blood can accurately determine pregnancy as early as 7 days after conception- and that is as much as two weeks earlier than a urine test (e.g., an "over the counter" home-test you get from a drug store) can reveal! Why wonder? Find out sooner and more accurately if you are pregnant...with a simple, low-cost blood test. Call us!

Very good reason #4: "PREVENTION. You just want peace of mind!" A laboratory can test your blood for more than 5,600 different diseases, maladies, and your personal levels of very important and critically important vitals. Many individuals choose to routinely test their blood one to three times annually to ensure that their body is healthy and disease-free. At the very least, you should want to catch a potentially life-threatening illness well BEFORE it becomes an irreversible health crisis for you! A blood test may do just that (it's called PREVENTION). **Call us toll-free: 1-800-456-4647 x 207.**

Which are some of the more popular tests?

Our most popular test for first-time clients is the VIP PLUS. This test establishes a comprehensive foundation of all aspects of your health, upon which future tests can be measured. Once this baseline has been established, many clients use the SuperChemistry as a regular check of progress, and to monitor the effects of a change in diet, exercise, or lifestyle.

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Why do I need a Complete Blood Count (CBC)?

A CBC is the most frequently performed lab test. It provides a great deal of information about the three kinds of cells in the blood - red blood cells, white blood cells, and platelets. It is most frequently used as a screening test, as an anemia check, and as a test for infection, but it is also used to aid in the diagnosis and treatment of a large number of other conditions. Included in the CBC are hematocrit, hemoglobin, red blood cell count, red blood cell indices, white blood cell count, white blood cell differential, and platelet count.

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Why do I need a Thyroid Profile?

The thyroid is one of the most important glands in the body. This hormone regulates the metabolism of the body by increasing the rate of the reactions taking place in the body's cells. The test is used to evaluate the symptoms of excess (hyperthyroidism) such as unexplained weight loss, tremor, nervousness, rapid heart rate, diarrhea, or the sensation of always being too hot. Symptoms of too little thyroid hormone (hypothyroidism) are unexplained weight gain, tiredness, dry skin, or the sensation of always being too cold. Back to Top

AMERICAN ASSOCIATION OF CLINICAL ENDOCRINOLOGISTS MEDICAL GUIDELINES FOR CLINICAL PRACTICE FOR THE EVALUATION AND TREATMENT OF HYPERTHYROIDISM AND HYPOTHYROIDISM

"The sensitive thyroid stimulating hormone (TSH or thyrotropin) assay has become the single best screening test for hyperthyroidism and hypothyroidism, and in most outpatient clinical situations, the serum TSH is the most sensitive test for detecting mild thyroid hormone excess or deficiency."





CancerSafe epMARKERS

(back)

\$529

Why test with CancerSafe® MARKERS

In order to cover a large range of cancers, the CancerSafe test incorporates the main tumor markers that are available worldwide. Utilization of materials and reagents from experts Roche-Boehringer and Abbott laboratories, this test can look for breast, ovarian, lung, uterine, prostate, testicle, colorectal, pancreas, liver, stomach, and thyroid cancers.

The Pathologies and their tumor markers

||Prostate ||PSA; FPSA and ratio

||Testicle ||BHCG; AFP

| Colorectal | CEA; CA 19-9; CA 125 | Pancreas | CEA, CA 19-9; CA 72-4

||Liver ||AFP; CEA|

||Esophagus ||CEA; CYFRA 21-1|

||Thyroid ||CEA; NSE

||Bladder

TPA; CEA; CYFRA 21-1

Disclaimer

The "epMARKERS"® (CancerSafe) blood test is a screening for evidence of cancer in the bloodstream. By participating in this screening exam, you acknowledge that it is a prevention exam, the result of which does not in any way constitute a medical diagnosis. It is understood that this test is: NOT a replacement for routinely recommended screening tests, including, but not limited to, mammography, colonoscopy/fecal blood testing, PAP. smear/bimanual pelvic exam, or any physical exam. It is understood that a positive test result or results should be discussed with your physician as soon as possible, because this may be an indication of an underlying cancer. Positive results may occur with benign conditions, also, at times and further evaluation by a physician would be necessary to determine the significance of a positive result(s). A negative result does not in any circumstance mean that there is no cancer present, just that it is not indicated by the Cancersafe testing at this time. If any warning signs of cancer are present, including, but not limited to the signs/symptoms listed below, you understand that consultation with a physician immediately is necessary and that the CancerSafe testing would not take the place of such consultation

Testimonial

"Thank you DLS for saving my life. I took advantage of your valuable program and learned that I had prostate cancer. I am now cancer free and owe my life to early detection."

Tommy Wells, retired employee of the La. Dept. of Insurance

Who should perform the test?

Everyone over 50 should perform it once a year, or more if required, building your baseline and data for the future, as years pass your report will include graphs, demonstrating the evolution of the markers to assist in treatment and prognosis.

What is the Cost?

The cost of the entire panel is \$529, which includes shipping of your specimen to the laboratory that processes the epMARKERS CancerSafe tests. If positive results are indicated, you will receive a follow-up test at no cost.

Results Example

MARKER	RESULT	REFERENCE RANGE
CA 15-3	15.5 U/ml	< 40.0
CA 19-9	12.7 U/ml	< 35.0
CA 125	32.0 U/ml	< 35.0
CA 72-4	0.8 U/ml	< 5.2
AFP	1.7 ng/ml	< 15.0

Date: Tue, 18 Feb 2003 00:28:33 -0500 From: MWS < MWS @ alofferstoyou.com>

Reply-to: Reply@alofferstoyou.com

Subject: US doctors and meds without a doctor visit!



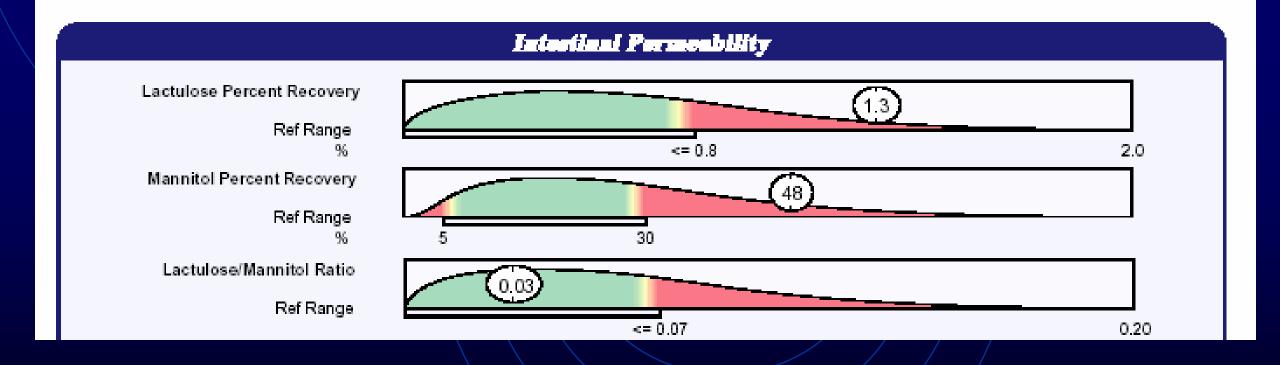
Intestinal Permeability

Completed:

Age: 38 Received:

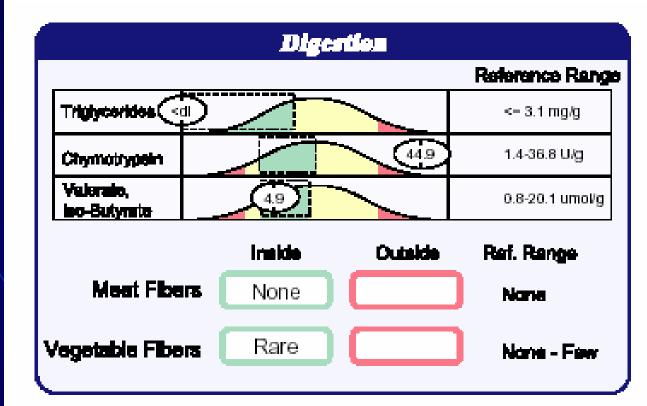
Sex: F Collected:

MRN:





Comprehensive Digestive Stool Analysis



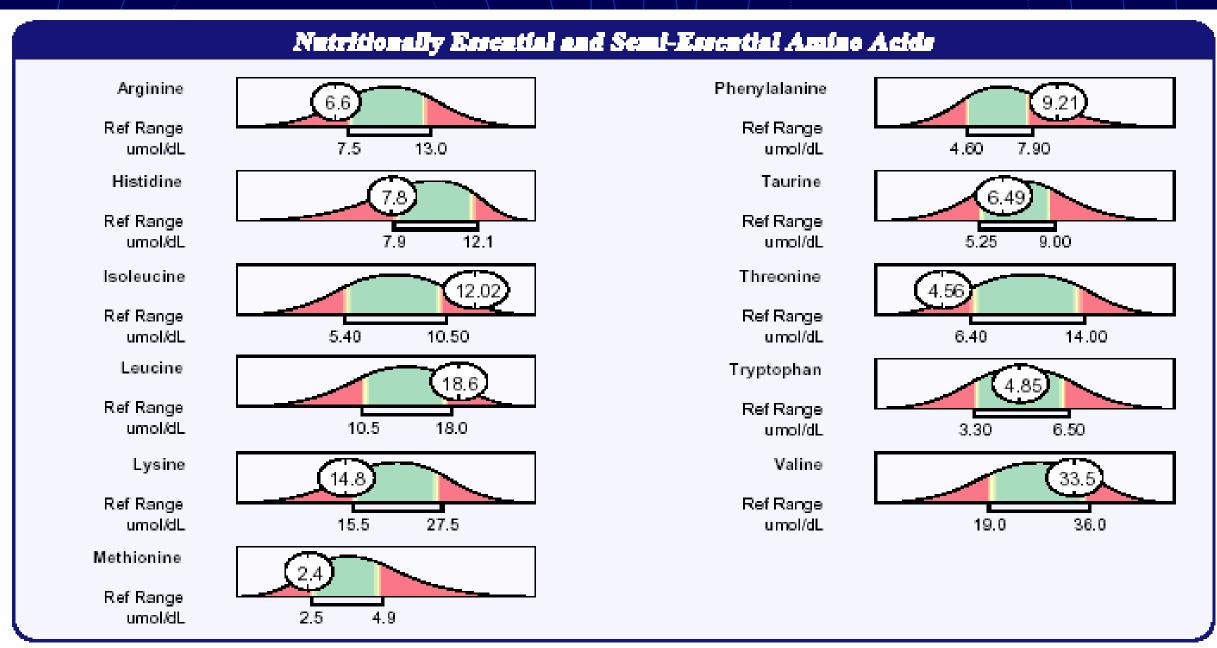
	Absorption	
		Reference Range
Long Chain Fatty Aolds	44	<= 15.0 mg/g
Cholesterol	0.6	<= 3.2 mg/g
Total Facal Fat	NR	<= 16.6 mg/g
Total SCFAs	70.9	23.8-165.4 umoVg

Bacteriology Beneficial Bacteria Lactobacillus species Escherichia coli Bifidobacterium Additional Bacteria alpha haemolytic Streptococcus gamma haemolytic Streptococcus Citrobacter freundii Klebsiella pneumoniae

Metabalic Markers Reference Range n-Butyrain 2.4-39.4 umol/g Bete-3,683 937-4,500 U/g Glucuron idease pН 6.1 6.0-7.2 SCFA distribution Acetete 46-72 % Propionate 12-34 % n-Butyrate 32 10-32 % immunology Inside **Outside** Reference Range



Amino Acid Analysis (Plasma)



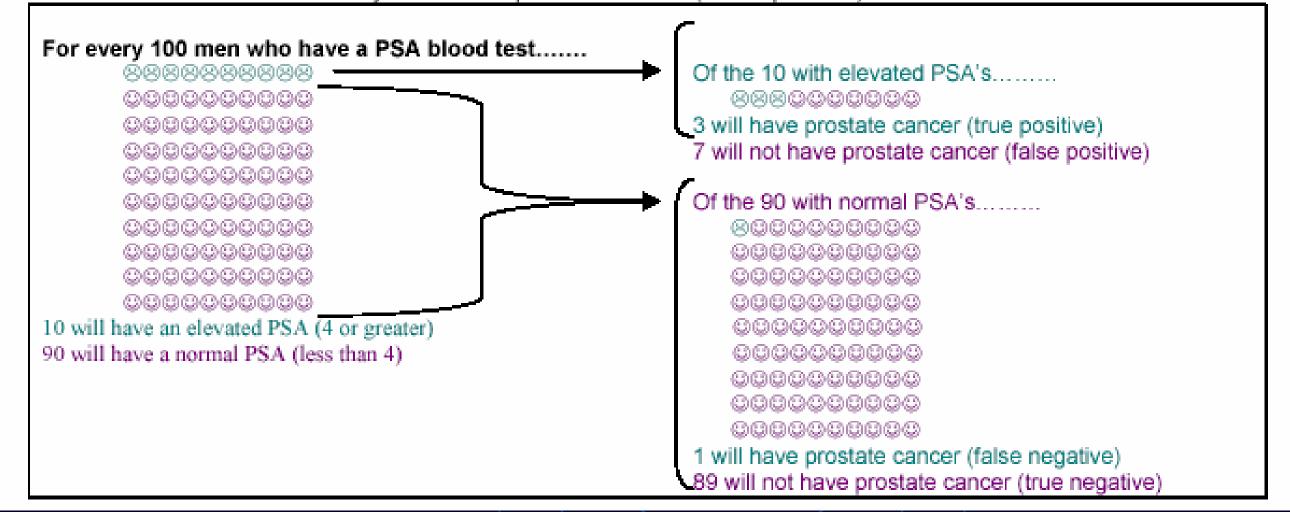


- Improper preparation / collection
 - Hemoccult, fasting, TDM, urine cultures
- Lack of informed consent
 - PSA, HIV, genetic tests

PSA Testing

There are 4 possible outcomes to a PSA test:

- Your PSA is normal and you do not have prostate cancer (a true negative)
- Your PSA is normal but you do have prostate cancer (a false negative)
- Your PSA is elevated but you do not have prostate cancer (a false positive)
- Your PSA is elevated and you do have prostate cancer (a true positive)



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PSA Testing

If you have prostate cancer you must make a tough decision of whether or not to treat it. Most treatments can have bad side effects. It is not known whether treatment or no treatment results in better quality of life. It is not known whether treatment prolongs life. Here are some of the things that can happen after treatment:

Possible Outcomes of Treatment

Dadiation	Connections
Radiation	Surgery
Unknown	Unknown
2 in 1000	1 in 200 younger men
	1 to 3 in 100 older men
40 in 100	30* to 90 in 100
	*nerve sparing surgery
60 in 100	32 in 100
1 in 100	7 in 100
5 in 100	12-20 in 100
11 in 100	30 in 100
	2 in 1000 40 in 100 60 in 100 1 in 100 5 in 100

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PSA Testing

It is up to you and your doctor to decide whether you should have a PSA. The correct decision is the informed decision. Talk to your doctor and decide what factors are important to you. Here are some Pros and Cons to consider:

Possible advantages to having a PSA test:		Possible disadvantages to having a PSA test:	
•	It may give reassurance if it's normal It can find many cancers earlier than is possible by a digital rectal exam	It may miss cancer and give a false reassurance that there is no cancer It may lead to a biopsy and anxiety when a man has no	
•		Cancer Treatment at early stages may not help men live longer and treatment has risks of side effects	

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Concerns

- Improper preparation / collection
 - Hemoccult, fasting, TDM, urine cultures
- Lack of informed consent
 - PSA, HIV, genetic tests
- Drugs of Abuse to pass pre-employment or insurance physical

Concerns

- What do we do with positive tests & requests for phone treatment?
 - Strep
 - UTI
 - Protime



Concerns

- Teachable moment opportunity to educate patients may be lost
 - time to address preventive medicine
 - address patient-specific issues / risks
 - encourage healthy lifestyle



We're dealing with real people

39 y/o lady called requesting blood sugar because she was having urinary frequency like a friend recently diagnosed with diabetes. Didn't want appointment - last checkup was 8 years ago after last child.

? not concerned about UTI ??



Results of office visit

Blood sugar	91
Cholesterol	290
Triglycerides	220
HDL	29
LDL	217
Breast exam	Normal
Pap smear	Abnormal,
probably cured with in-office	ce procedure

What if...

She'd gone to DAT lab for blood sugar?

How long before she would have had pap smear?

What would have been outcome?

We're dealing with real people

- Male on chronic steroids for COPD. Dr requested DEXA showed osteoporosis.
- Went to DAT for 'heel DEXA' was normal so refused treatment.
- Finally repeated DEXA at another facility, again positive consented to treatment

We're dealing with real people

- 27 y/o with (+) FH for diabetes. Presents for complaints of thirst & urinary frequency.
- Has been doing blood sugars on his mother's machine x 9 months. Brings log frequently over 300

• He's sure he doesn't have diabetes because some have been normal.

Why do patients want DAT?

• "Many health conscious individuals wish to have lab testing performed but want to avoid the inconvenience and expense of physician office visit."

Henry Soloway, MD

• "Public is becoming better informed and are *capable* of taking responsibility for their actions"

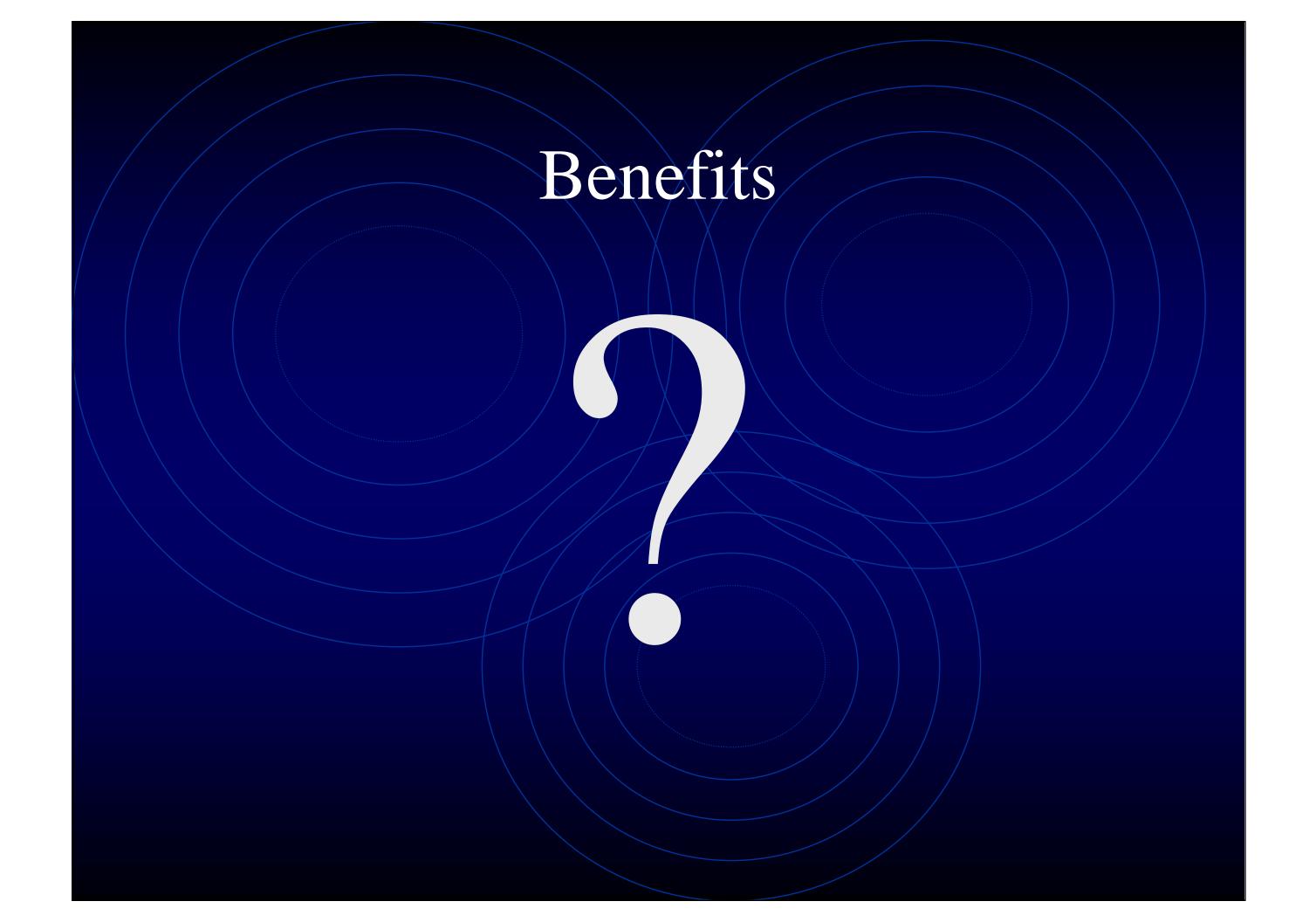
John Halsey, PhD

Janzen says ...

"Patients often don't want to see their doctor, but sometimes it is for the best."

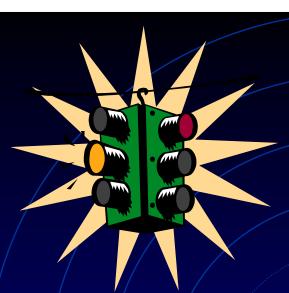
"Patients come in for darnedest reasons and we must be ready to educate when they do."







- Early detection
- Convenience 'snow-birds'
- Anonymous
- Income stream for labs



Recommendations

- Limited menu
- Limit/restrict advertisement/marketing
- No reimbursement by insurance
- No reports sent to physicians
- Lab responsible for pre & post counseling
- Anonymous vs confidential



Consider

- Why are we here?
- Why is there demand?
- What have we done wrong?
- More coming CT, MRI, PET etc etc

Food for thought ...

Does 'taking active role in your health' mean ...

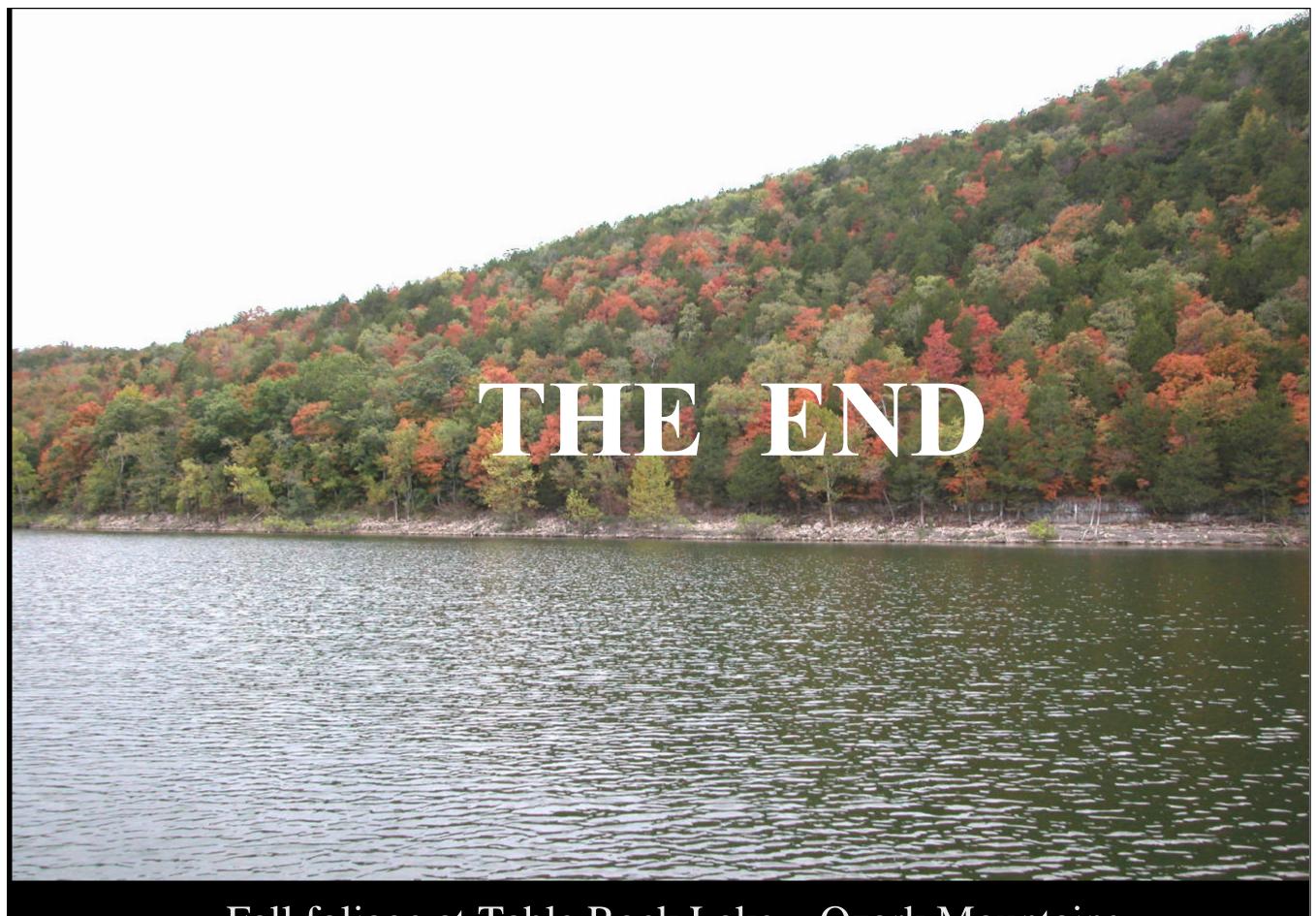
- Ordering your own tests, prescribing your own medications, or should it mean
- Being aware of information learning to be your own advocate learning about your health conditions making lifestyle changes to improve your health/condition

déjà vu

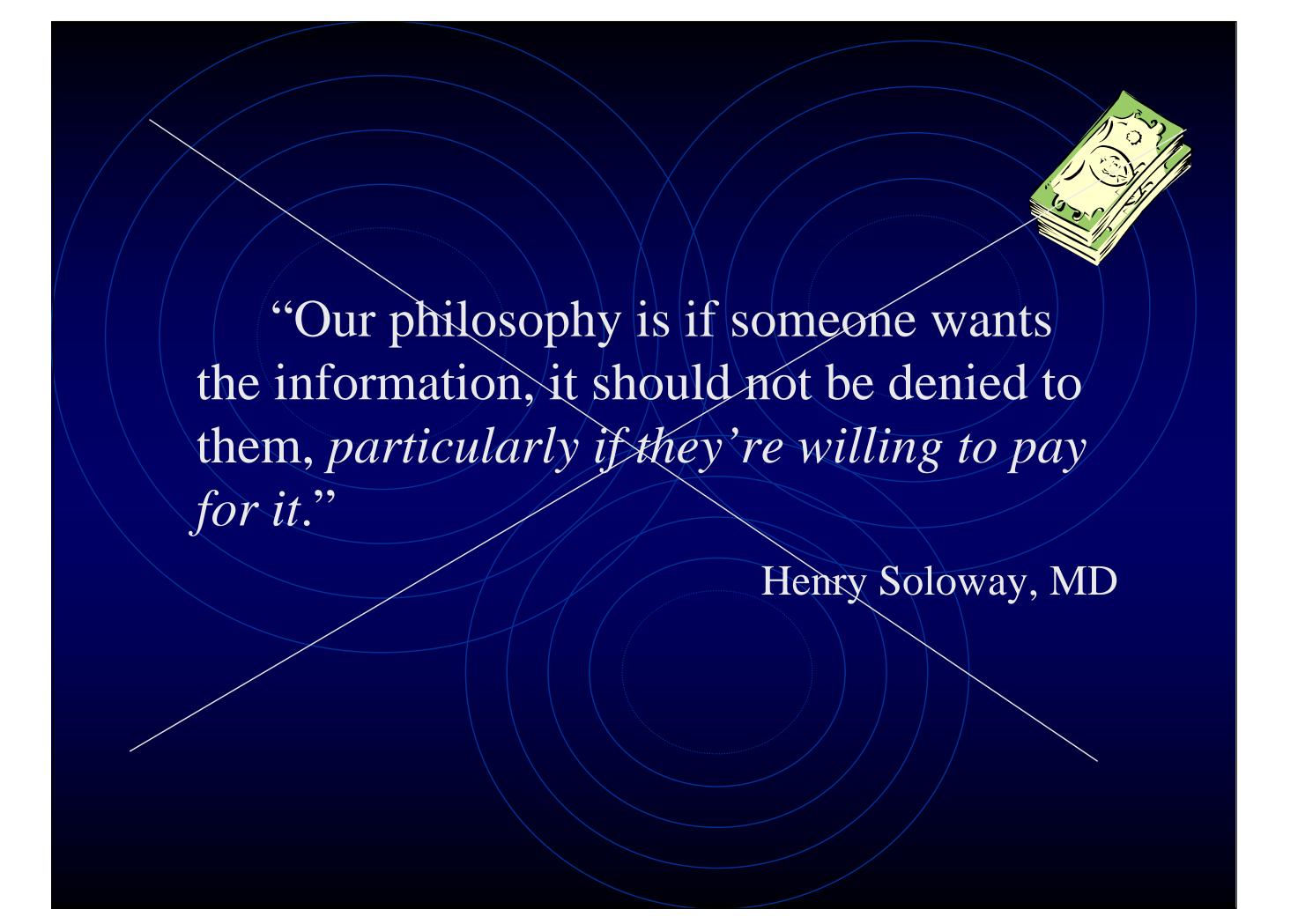
• If there is any truth to the old proverb that "one who is his own lawyer has a fool for a client," the Court ... now bestows a constitutional right on one to make a fool of himself.

ATTRIBUTION: Dissenting opinion in 6-3 ruling that allowed a defendant to refuse counsel, 30 Jun 75





Fall foliage at Table Rock Lake – Ozark Mountains



- Don't send results to me don't hold me liable
- Envision your whole community getting 'screening' CEA's and CA-125's
- As an entrepreneurial enterprise, those running the lab have incentive to encourage more testing, no matter what the down sides, especially as they bear no responsibility for the complexity and/or complications of follow-up.

The clinical evaluation of the patient using labs includes the responsibility for proper collection, specimen handling, receipt and review of the information, evaluation of the results in light of the other patient problems/information, notification and education of the patient about the results, liability for the correctness of the results and management of the data and storage of that information often for the life of the patient. It is NOT JUST the chemical analysis or taking of pictures.

- Family physicians and pediatricians should be well-informed as to which tests are of some screening value and which are not.
- Why do we then want to have patients spend money getting tests which are not recommended?
- What have we, as a medical society, done or failed to do that has made this attractive?
- What do we need to do to fight this trend, to ensure our patients spend their money where it will serve their health?

- I have been asked about CT scans for cardiac disease. This is now being perceived as more important & more accurate than BP checks, cholesterol & glucose screening, and diet & exercise!!
- It is often a rip-off. The studies, if interpreted, are so full of hedges as to be useless

- We will either have low risk people getting normal tests (? is this really reassuring), or
- symptomatic people getting inapprop tests (carotid duplex for chronic cervical muscle pain), or
- high risk people reaffirming the presence of disease which is already getting max medical Rx (coronary calcium index in people on statins, beta/ca blockers nitrates and ASA...and who still smoke).