

Why is this talk needed, relevant and worthy of your time?

Evolution of the profession



Why is Patient Management beyond the auditory and balance mechanism vital?

- Patient Care exceed expectations
- Recognition by medical community
- Integral part of health care delivery system
- Reinforce and enhance referral path from PCP's

The Referral Protocol

- Select specialist that accepts patient's insurance
- While the patient is in your office, call the specialist's office and make the appointment
- Send a 4-5 sentence letter to specialist outlining your observation and reason for referral
- Expect to receive a letter concerning the patient's diagnosis and treatment
- Discuss the patient's satisfaction with the consultation on their next visit.



- Relationship between audiology and other health care providers
- Pressure on internal medicine
- Multidisciplinary care
- Audiology = frequent patient exposure and long relationship duration
- Look for opportunities to capitalize on the above

Opportunities for Observation

- First thought best thought
- Getting to the exam room
- Taking a history
- Exam
- Repeat encounters



- Demeanor
- Overall appearance
 - Clothing
 - Skin/face/hands
 - Respiratory status
 - Posture and body shape
- Who is with them?





Common Medical Conditions

Depression Cardiovascular Disease Diabetes "Polypharmacy" Common Skin Cancers

Depression

- Prevalence 2-10% of population
- Risk factors in older populations:
 - female, single (for any reason), co-morbid conditions, functional impairment, social isolation
- May be the first observable illness in stroke, diabetes, cancers, thyroid disease, cardiovascular disease (Arch Intern Med. 2005;165(11):1260-6.)^c
- Treatment of depression can improve other illnesses - pain management and diabetes. (JAMA. 2003;290(18):2428-9 and Ann Intern Med. 2004;140(12):1015-24.)

Depression – What you observe

- flat affect, poor social interaction, lack of motivation with care, lack of engagement.
- Screen for it:
- "During the past month, have you been bothered by feeling down, depressed or hopeless?"
- "During the past month, have you been bothered by little interest or pleasure in doing things?"

These two questions were 95 % sensitive and 57% specific diagnosing major depression (J Gen Intern Med. 1997;12(7):439-45.)

Depression – Next Steps

- Notify primary physician
- Notify family members
- Engage patient?
- Caveats: taboo subject in older populations, depressed people will not seek care, may be clue to other illness







Cardiovascular Disease – What you observe

- is there a change in exertional capacity?
- swelling or weight gain?
- use of nitroglycerin?
- shortness of breath with exertion?
- leg pain with walking?

Cardiovascular Disease – Next Steps

- Notify the primary physician
- Notify the cardiologist?
- Notify the family
- Ask about medication compliance
- Is the patient safe?
- Caveats: always think about acute vs. chronic changes

Adult Onset Diabetes

- Definition and nomenclature: Type 2, Noninsulin dependent, glucose intolerance
- Risk factors: family history, ethnicity, obesity, exercise status, smoking, dietary patterns
- Prevalence 8% of Cauc., 8% Hisp., 11% AA, and 28% Native Americans (Diabetes Care. 2006;29(7):1585.)





Diabetes – Observations and Thoughts

- Think of it especially in balance patients
 - does the patient have "diabetes in the eyes?"
 - does the patient see an endocrinologist?
 - Remember proprioceptive loss and autonomic dysfunction with gait and balance problems
- Often "co-exists" with cardiovascular disease
- Remember progressive, slow disease

Diabetes – Next Steps

- Suggest more aggressive control/review of behaviors with primary or endocrine physicians
- Discuss concerns with family
- Caveats: complex subject, requires multiple changes in lifestyle, may want to keep recommendations broad – "encouraged patient to reevaluate diabetic regimen and diet."

Polypharmacy

- Many patients with 2-3 diagnosis on 10-15 medications
- Adverse event risk high
- Why? Many subspecialist, many symptomatic problems, patients sometimes do not challenge physicians
- Frequent changes
 – multiple names, new doses, new medications
- OTC meds increase complexity

Medications	Chanadh & Farm	Ci-	4	Chronic	Effective I C
Medication	Strength & Form	Sig	Active	Chronic	Effective
C Allopurinol	300 mg lablet	I tablet po daily.	Yes	Unknown	Unknown
G Benicar	20 mg l ablet	T tablet PU UD.	res	Unknown	Unknown
Clonidine	U.2 mg lablet	two tabs po qd.	Yes	Unknown	Unknown
Co enzyme Q10	200 mg	T tab PU QU.	Yes	Unknown	Unknown
C Enteric Loated Aspirin	31 mg Tablet, Delayed Release (E.U.)	I tablet po daily.	Unknown	Unknown	Unknown
Co rerrous suirate	27mg 2E se Tablat	1 po qa.	res	Unknown	Unknown
Hydralazine	25 mg i abiet	T (ab PU TID.	res	Unknown	Unknown
	400 mg	PU BID.	res	Unknown	Unknown
	10 mg i abiet	1 tabet PU QD.	Yes	Unknown	Unknown
Magux	400 mg lablet	i po qa.	res	Unknown	Unknown
	20 mg Lablet	two tabs I d.	Tes	Unknown	Unknown
- Flevaciu	so mg susp, delayed helease for hecon	T tablet po dally.	res	Unknown	Unknown
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Polypharmacy - Examples

- Diuretics and antihypertensive agents
- Combinations or dosing of NSAIDS
- Antibiotics and immunosuppressant agents
- Recent hospitalizations
- Dosing of many medications with liver disease, kidney disease, or heart failure needs to be altered



- Ask patients to bring a list of medication to each visit
- Learn what medications/classes can lead to hearing or balance problems
- Ask about OTC and herbal/natural medications
- Ask about hospitalizations and illnesses requiring IV antibiotics

Polypharmacy – Next Steps

Caveats:

- Medication list/dose should be verified via phone before changes made
- Medication concerns should be discussed with prescribing physician
- Simplification would be ideal, but not always practical

Dermatology Basics

- •Basal Cell Carcinoma
- Squamous Cell Carcinoma
- Melanoma

Resource for comprehensive dermatology conditions www.dermatlas.med.jhmi.edu/derm













Melanoma – What to look for

- Think "ABCDE"
- Asymmetry
- Border (uneven)
- Color (inconsistent)
- Diameter (>eraser)
- Elevation



Skin Cancers – Observations

- Think of them
 - pay attention to lesions on head and neck
 - can occur under hair and on scalp
 - common on ear
 - pay attention to changes over time

Skin Cancers - Next Steps

- Discuss with the patient carefully
- Call primary physician discuss "concerning findings"
- Refer to dermatologist?
- Take a picture?
- Document?









A Visible Clue to Disease

- 12,745 person Copenhagen City Heart Study (1976-2009, 100% follow up)
- Hazard ratios and 10 year risk for myocardial infarction, ischemic stroke, presence of atherosclerosis, and death in patients with and without Xanthelasmata
- BMJ 2011;343:d5497



What do you do?

- Don't scare the patient
- Ask about primary and cardiac care
- Gently emphasize need for seeing primary care and working on risk factor modification
- Remember dead and disabled patients are not good clients...



Reaction by the Medical Community

PCP

88 yr female has not had a physical for 30+ years

"High Cholesterol ... thanks for your referral"

Reaction by the Medical Community

Dermatology:

Patient presents with suspected basal cell on neck

"great pick-up, thanks for your referral"

