# Geriatric Considerations for the Hospitalist

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## Disclosure of Interests:

None

## Objectives:

- Explore medicine's relationship with the "oldest old"
- Define barriers to geriatrics care in the hospital
- Assess available research directly to common hospitalist cases:
  - Anticoagulation in A-fib
  - Dialysis initiation/outcomes
  - PEG tube placement

## Parking Lot:

- Healthcare system cost considerations
- Communication strategies
- Dealing with families

"Aging is the neglected stepchild of the human life cycle. Though we have begun to examine death, we have leaped over that long period of time preceding death known as old age."

-Butler, R. N., Why survive?: Being old in America

"In medicine, we work with a biased sample. When older people are doing well and when they are ill but otherwise fairly well, we think of them as middle-aged, if we think of them at all. That leaves 'old' associated with the common, disquieting extreme: old people who are ill, disabled, or almost dead."

- Dr. Louise Aronson, Elderhood

"Gomers, an acronym for get out of my emergency room. . . A human being who has lost — often through age — what goes into being a human being. . . Before the House of God, I had loved old people. Now they were no longer old people, they were gomers, and I did not, I could not love them, anymore"

-Shem, S. House of God



"I'M NOT GOING TO SUGARCOAT IT, MR. FINKLY...
AT THIS RATE, IN A FEW MORE YEARS, YOU COULD BE PRESIDENT."

The Week, 2022

## New Physicians on the Block

#### **GERIATRICIAN**

1909: "Geriatrics" term coined by Dr. Nascher

1988: Geriatric board certification initiation

- Only 41.5% of geriatric fellowship spots filled 2023
- 7,300 board certified geriatricians

#### HOSPITALIST

1996: "Hospitalist" term coined by Dr. Goldman and Dr. Wachter

1997: SHM founded

- 50% growth of adult hospitalists between 2012 and 2019
- 44,037 adult hospitalists

#### Case 1:

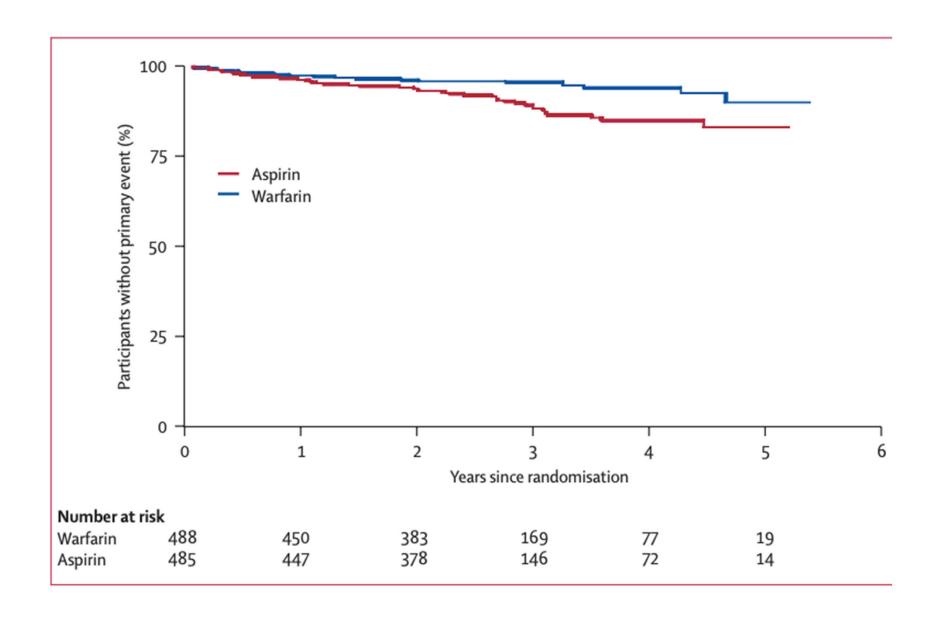
Mr. L. Durley is a \_\_\_\_\_ year old male with h/o HTN who presented for palpitations. He is diagnosed with new non-valvular atrial fibrillation which is now well-controlled with beta-blocker therapy.

His CHADVASC=3. You are considering anticoagulation.

## Warfarin v Aspirin: Composite Outcome

- 973 patients ≥75 years old + A-fib in primary care setting, BAFTA
- RCT: warfarin v ASA 75 mg
- Primary outcome: Fatal/disabling CVA, ICH, arterial embolism
- Secondary outcome: All cause mortality, bleeding events

	Warfarin	Aspirin
Number of patients	488	485
Age (years)	81-5 (4-3)	81.5 (4.2)
Age group		
75-79	197 (40%)	200 (41%)
80-84	196 (40%)	190 (39%)
≥85	95 (19%)	95 (20%)



	Warfarin		Aspirin		Warfarin vs aspirin	
	N	Risk per year	N	Risk per year	RR (95% CI)	р
Death						
All causes	107	8.0%	108	8.4%	0.95 (0.72-1.26)	0.73
Fatal primary endpoint	15	1.1%	23	1.8%	0.63 (0.31–1.26)	0.16
Other vascular death*	41	3.1%	34	2.7%	1.16 (0.72–1.88)	0.53
Non-vascular death*	51	3.8%	51	4.0%	0.96 (0.64–1.45)	0.84
Secondary vascular outcomes (fatal and non-fatal)						
All strokes	33	2.5%	61	4.9%	0.52 (0.33-0.80)	0.002
All strokes plus TIA	40	3.1%	70	5.7%	0.55 (0.36-0.82)	0.002

## Warfarin v Something Else: All-Cause Mortality

- 1800 patients <a>65</a> years old + Afib community dwellers
- Retrospective observational study
- Primary outcome: all-cause mortality, average follow-up 2 years

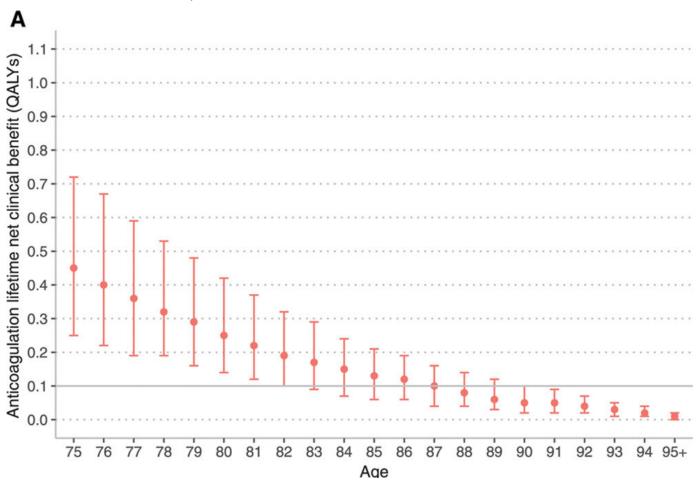
Mortality Prognostic Score	HR
MPI-SVaMA-1	0.64
MPI-SVaMA-2	0.68
MPI-SVaMA-3	0.55

## Warfarin v Apixaban v Nothing: QALY

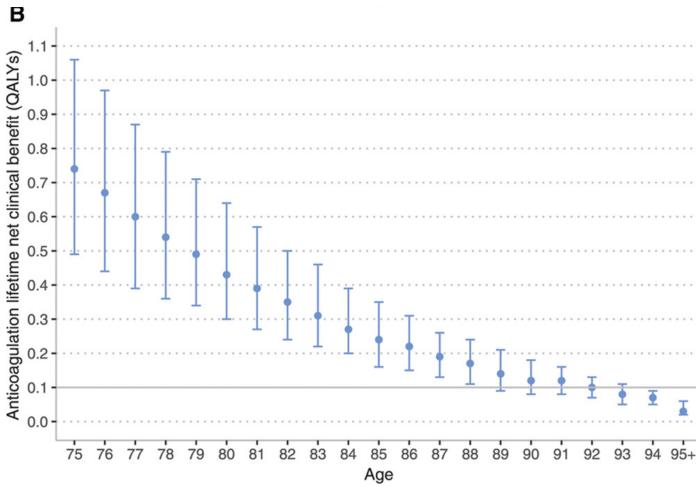
- 15,000 patients >75 yo + Afib from PREPER-AF registry
- Decision analytic cohort study
- Primary outcome: QALY with 0.10 being significant

Intervention	QALY
Lung Cancer Screening (55-75)	0.02
High Dose Statin > Reg Statin	0.10
ASA for Primary Ppx in DMII	0.19

## Warfarin on QALY

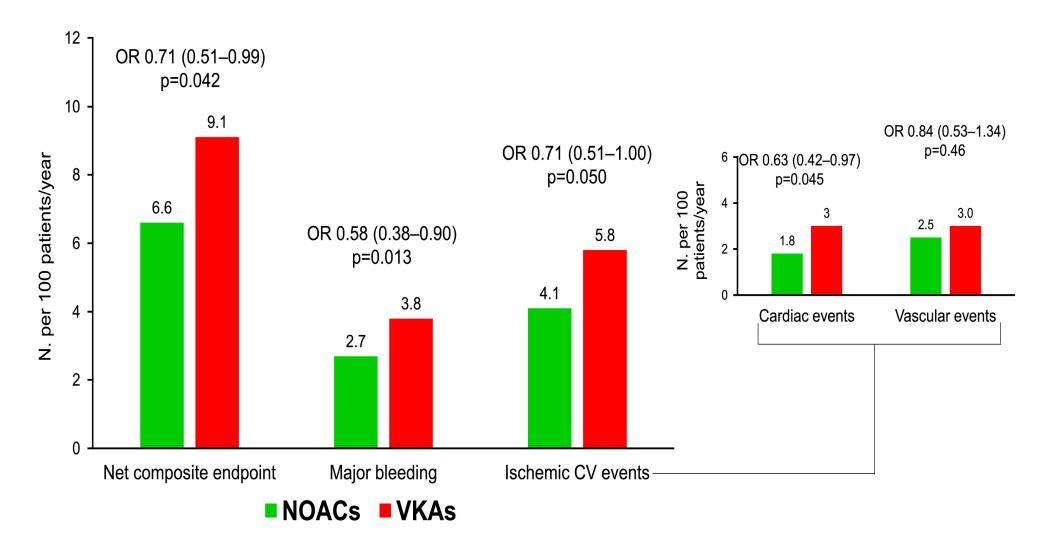


## Apixaban on QALY



## Warfarin v NOAC: Net Composite Outcome

- 3800 patients >75 yo + Afib from PREPER-AF registry
- Primary outcome: net composite:
  - Major bleeding
  - Ischemic events (CVA, ACS, revasc, TIA, systemic embolism)



#### Other Notes:

- Lack of evidence for antiplatelet agents (Taiwan-NHIRD, AVER-ROES)
- Lack of evidence for reduced dose apixaban (ORBIT-AF)
- Maybe evidence for 15 mg edoxaban (ELDERCARE-AF)
- Fall risk/SDH risk is consistently over-considered

## My Practice Take-Aways:

• If anticoagulating, commit . . . to apixaban

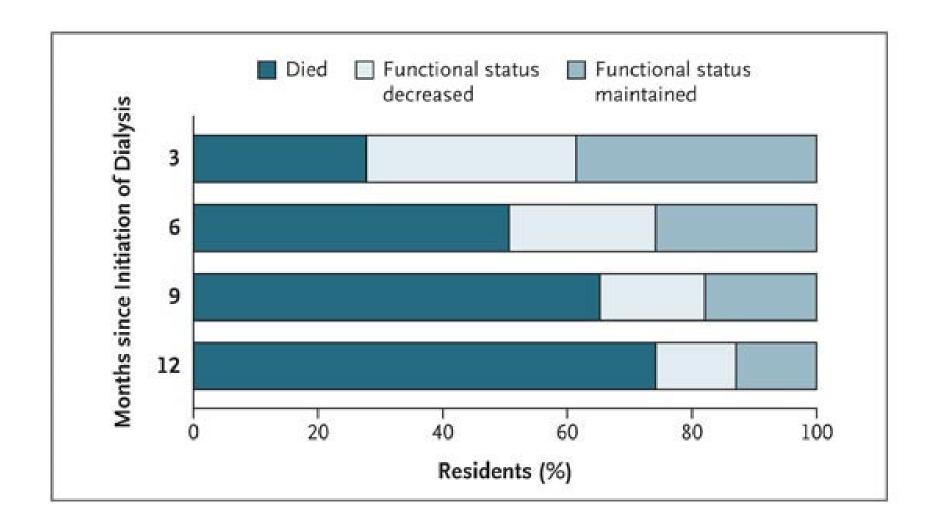
- By 75, switch patients on warfarin to apixaban
- By 85, start talking overall risk/benefit
- At 90, DC anticoagulation

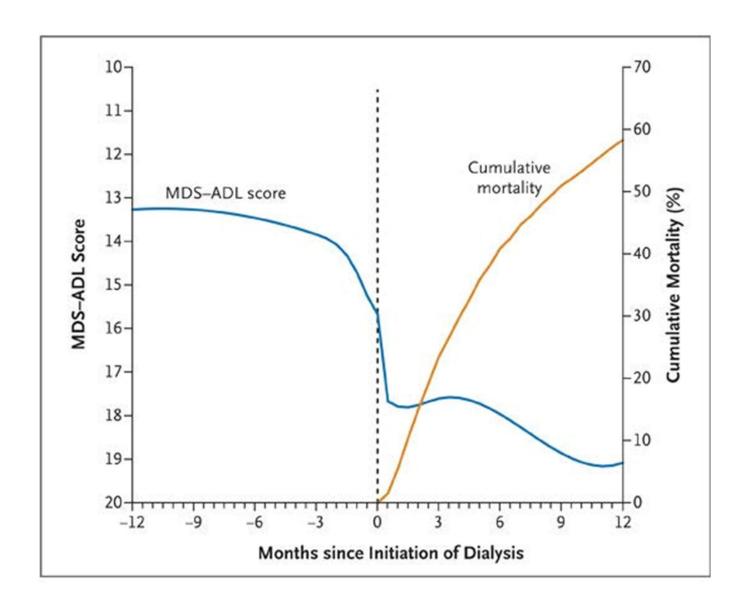
## Case 2:

Mr. Jerry Atrix is a \_\_\_\_\_ year old male who presents with progressive renal failure. Nephrology team is offering dialysis, and patient/family ask you your thoughts on prognosis.

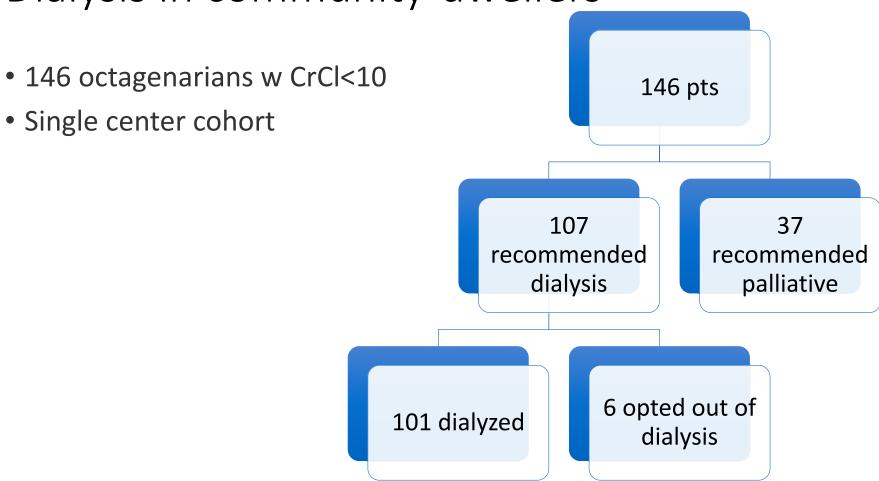
## Dialysis in nursing home patients

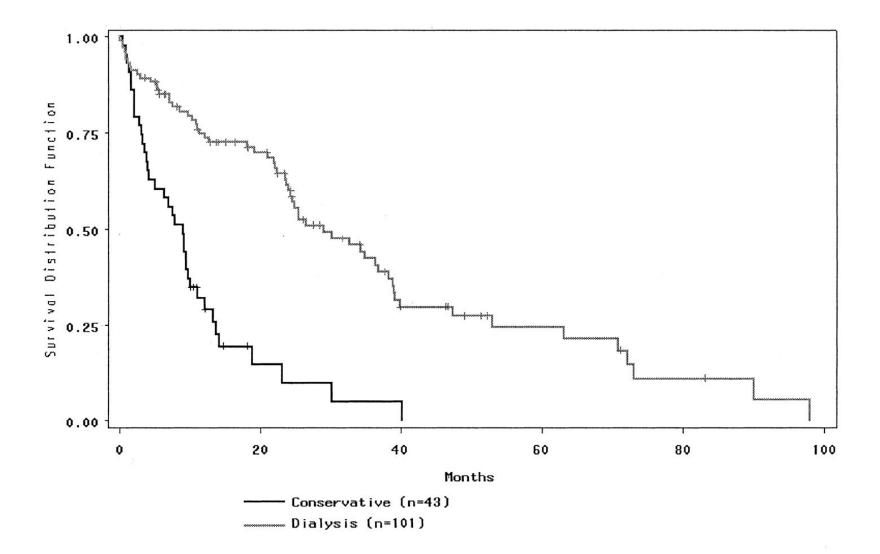
- 3700 nursing home residents, average age 73
- 69% initiated on dialysis during hospitalization
- Registry review





Dialysis in community-dwellers





#### Other Notes:

- Large gap in GOC conversations in dialysis
- High rate of patient regret in dialysis (Davidson, 2010)

## My Practice Take-Aways:

- Start talks early
- Quality of life decline is significant and early
  - Especially in CNH
- Duration of life extended especially in well-selected patients

### Case 3:

Ms. Octa Genarian is a \_\_\_\_ yo female who presents after a significant L-MCA stroke. She is dysarthric with right-sided hemiparesis with mild improvements in the first week of stay. She remains a high aspiration risk after 2 weeks of hospitalization.

Family wishes to discuss with you PEG tube placement.

"... [B] ecause of its simplicity and low complication rate, this minimally invasive procedure also lends itself to over-utilization. Therefore, as percutaneous endoscopic gastrostomy enters its third decade, much of our effort in the future needs to be directed toward the ethical aspects associated with long-term enteral feeding. In addition to developing new procedures and devices, or to perfecting existing ones, we as physicians must continuously strive to demonstrate that our interventions truly benefit the patient."

-Dr Michael Gauderer, 2000

#### PEG tube in advanced dementia

- No mortality benefit (Cochrane Review 2009)
- No pressure ulcer benefit (Cochrane Review 2009, Teno et al 2012)
- No decrease in aspiration pneumonia (Peck et al 1990)
- Possible increase in all three of these outcomes (Yen-Feng Lee, 2021)
- Consensus among:
  - American Geriatrics Society
  - Alzheimer's Association
  - Academy of Nutrition and Dietetics
  - American Academy of Family Physicians

## Thickened Liquids

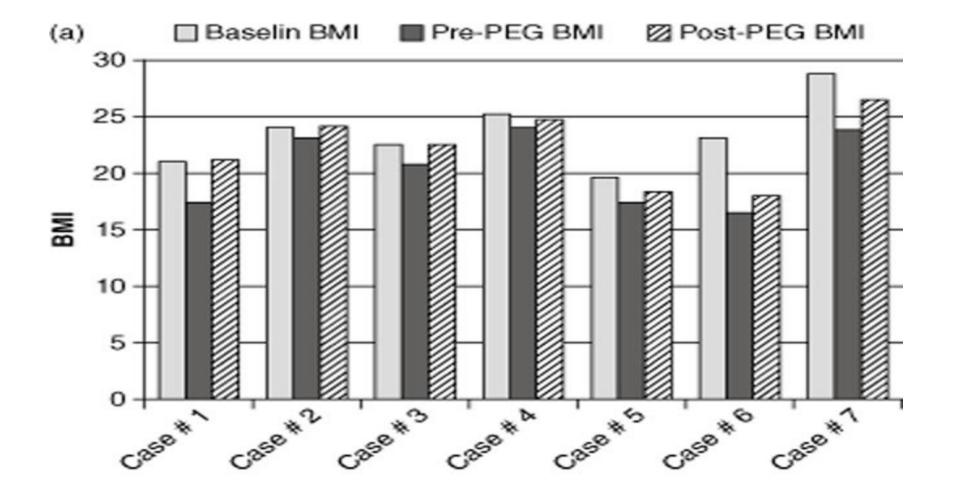
May 6, 2024

## Thinning Evidence for Thickened Liquid Diets in Dementia and Dysphagia

Eric Widera, MD<sup>1,2</sup>

## PEG tube with intact cognition

Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7
92	93	86	88	72	81	89
Female	Male	Female	Male	Female	Male	Female
Caucasian	Caucasian	Caucasian	African American	Caucasian	Caucasian	Caucasiar
Failure to	Cardiac	Failure to	Dysphagia	Tonsillar	Failure to	Failure to
thrive	cachexia	thrive		carcinoma	thrive	thrive
Severe	DM type 2,	Peptic	HTN, BPH,	CAD s/p	Parkinson's	HTN,
reflux,	severe ischemic	ulcer	Prostate	CABG,	disease,	dysphagia
esophageal	cardiomyopathy	disease,	cancer s/p	seizures,	COPD,	spine
strictures	(EE 30%)	recurrent	androgen	squamous cell	Reflux,	fractures,
	(EF 30%)	Clostridium	ablation	cancer of	BPH	TIA, DJD
		difficile		tonsils s/p		
		infection,		chemotherapy		
		chronic		and radiation		
		pain, DJD				



## PEG Tube Appropriateness

#### Age

 $0 = \le 59$ 

1 = 60-74

2 = 75-89

3 = ≥ 90

#### Anticoagulated

0 = no1 = yes

#### **Prognosis**

0 = > 1 yr

1 = 6 m - 1 yr

2 = 3 m - 6 m

3 = < 3 m

## Recent infection

0 = none

1 = required antibiotics in last 2

weeks

## Nutritional status

0 = low risk

1 = medium risk

2 = high risk

#### **Anatomy**

1 = obesity

1 = hiatus hernia

1 = previous

abdominal surgery

## Dysphagia severity

0 = no dysphagia

1 = mild

2 = moderate

3 = severe

#### **Comorbidities**

Charlson

Comorbidity Index

= 24 maximum

Figure - Survival in patients referred for gastrostomy Placement, based on initial RFH-GRS

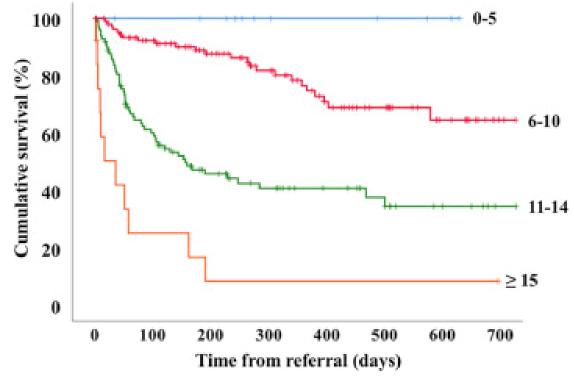


Table – Risk-benefit associated with gastrostomy placement

RFH-GRS	Gastrostomy indicated?	Risk	Decision details	
0-5	Yes/No	Low	Decision depends on the indication	
6-10	Yes	Medium	Patient likely to benefit	
11-14	Yes	Medium- High	Benefits may outweigh risk	
≥ 15 No		High	Benefits unlikely to outweigh risk	

## My Practice Take-Aways:

- Clear no for severe dementia
- Screen for acutely life-ending illness
- Risk stratify to assess benefit if cognitively intact
- Avoid plan of prolonged nasogastric feeds

"I'm ninety-three, and I'm feeling great. . . It shouldn't surprise me if at this time next week I'm surrounded by family, gathered on short notice to help decide, after what's happened, what's to be done with me now"

-Roger Angell, This old man: all in pieces

"Imagine we liked, loved, respected, admired, and were inspired by all [those gray-, white-, and absent-haired people] and when they got older still and needed some elp from us, we offered them a world and a worldview that said: We still see you... both for who you were and for who you are, a person completing the full arc of a human life."

-Louise Aronson, Elderhood

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