Geriatric MVP's for NP's	
TTUHSC SON Annual NP Conference	
March 2 <sup>nd</sup> , 2018 Dr. Shannon M Tapia MD, Geriatrician	
DBJECTIVES	
SECTIVES	
Describe the challenge of polypharmacy for the elder patients and trategies to manage medications effectively in patients with chronic	
lness.	
Identify components of an effective cognitive evaluation for patients with suspected cognitive decline/ impairment.	
3. Explore advance care planning processes and advanced directives	
ncluding ethical, legal, and practical considerations.	
COGNITION EVALUALTION and	
DEMENTIA	
Recognizing issues and follow through.	

F : 1 : 1		
Epidemiology		
Prevalence • Most associated with advancing years	Cost to System  • World Report on Alzheimer's	
More older people = more people with dementia	Total was over \$604 billion     annually – direct costs of medical	
During the next hour there will be 50 new cases of Dementia diagnosed	care, social care and informal care  • Personal/Family costs	
24 new diagnoses of Breast Ca     52 new MI deaths     4 MVA deaths	<ul> <li>In 2010 family caregivers provided 17 billion hours of care, estimated to cost \$202.6 billion in US alone.</li> </ul>	
Definition of Dementia	(DSMV)	
"An acquired syndrome of decline sufficient to affect daily life in an authorized guidelines does not have	in at least two cognitive domains, alert patient, which according to to include memory" – 2013 edition	
of GRS • Cognitive Domains:	to include memory 2013 cardon	
<ul> <li>Learning and memory</li> <li>Language (Aphasia)</li> <li>Executive Function (impaired ability</li> </ul>	to recognize, abstract, and/or plan).	
Complex Attention     Perceptual-motor (Agnosia and Apraxia)     Social cognition (Agnosia)		
DSH-IV and DSH-5 criteria for	demonsts 8589 a criteria for major	
DON: 10' criteria for dissection  43. Names important  43. It least on all the following: - Agrees:	nemocopitate disorder (predisor) (filmmental)  A. Enders of significant soptimis disclare has a processed and object-move on their processes of significant continue to a real morphism discounts.  (Entrying and diseases)  (Entrying and diseases)	
- Agreement Agreement Agreement	Success fundos Comples allandos Comples allandos Escalados Barrios Bar	
concadionalizations, and represent a significant dealers from a previous level fembrookers.  C. The completes deleted device of control exclusives storing the course of felicines.	institute, spikalizare should be ricepard of the curples instruction and subsides of data from your bear going to the data from your bear going to the curples of the curples of the data from your bear going to the data from your bear going to the curples of the curples of the south and on the south and the south and the south and the south and the south and so so so so so so so so so so	
For dispersion controls of dements with transferenced dements, please refer to marketactions and dispersion of shoulded COR. Reproduct and shadout around.	cellation and area of the common of the comm	
* Builderica of Saddine et Doude din Concentra or the decidare that the two barriers a profit memory of the concentration of the concentration of the memory of building all leading or, in the advance decidance of the concentration of the concentration of the Edwardson, Co. (20) Management of the Management of the concentration of the concentration of the Management of the concentration of the concentratio	of the individual, instanced problem infrarest, the control of the control of th	

ADL's/IADL's		
ADES/TADES		
Activities of Daily Living • Functional mobility	Instrumental Act of Daily Living  • Ability to Use Telephone/computer	
Bathing/showering     Dressing	Shopping     Food Preparation	
Self-Feeding	Housekeeping     Laundry	
Personal Hygiene     Toilet Hygiene	Transportation Manages own medication	
	Manages own finances	
MILD COGNITIVE IMPA	IRMENT	
	emory, executive function, language,	
or visuospatial perception) to a de measurable, but not to a degree the independent living.		
	s a 25/30 on their MMSE but has no d day-to-day.	
• 12 % per year of identified MCI proceed to AD.		
Normal Cognitive Aging		
Sometimes forgetting names & appointments but remembering them	Vision changes related to cataracts	
Making occasional errors when	<ul> <li>Sometimes having trouble finding right word</li> <li>Misplacing things from time to time &amp;</li> </ul>	
balancing a checkbook     Occasionally needing help to use settings on microwave or to record	retracing steps to find them  Making a bad decision once in a while	
Getting confused about day of week but figuring it out later	<ul> <li>Sometimes feeling weary of work, family &amp; social obligations</li> <li>Developing a specific routine and</li> </ul>	
	being irritable when that is disrupted	

RISK FACTORS AND PR	EVENTION	
(mostly for AD)		
RISK FACTORS  • DEFINITE  • Age  • Family Hx	PROTECTIVE FACTORS  • DEFINITE	
Family Hx     APOE4 allele     Down Syndrome     Depression	None     POSSIBLE	
Depression     POSSIBLE     Head trauma     Fewer years of formal education	NSAIDs     Antioxidants	
Late-onset Major Dep Dx CV risks (HTN, DMII, obesity, HL) Smoking Delirium	<ul> <li>Intellectual activity</li> <li>Physical activity</li> <li>Statins.</li> </ul>	
Postmenopausal HT	Saans	
ASSESSMENT		
SCREENING     Controversial – no consensus as to	whether we should or shouldn't – USPSTF	
says there is "insufficient evidence"	" to say that we should be screening. ence" because the studies just haven't	
<ul> <li>Do know that dementia is under-re a low threshold to trigger investigation</li> </ul>	cognized/underdiagnosed, so should have tion for cog impairment (CI)	
there are short realistic screening t IQCODE	on of the Medicare wellness visit – for GP's ools – such as Mini-Cog, GPCOG, MIS,	
<ul> <li>??? Treatment options? Does our in consequences? Does early Diagnos support?</li> </ul>	ntervention change long-term is allow for better societal or emotional	
Differentia Diagnosis –	Dementia vs. a	
Dementia Syndrome		
Delirium     Psychiatric Disorder     Bipolar Affective, Schizophrenia, Late-life delusional disorder, Major Depression,		
Physical Disorders     Electrolyte imbalance, Thyroid disease	, Parkinson's, B12 deficiency, sleep	
deprivation, untreated OSA, AIDS, etc  Structural Brain Lesions Tumor, stroke  Medication/Drugs Seizure Disorder Untreated Pain		

		zheimer's Associa gns	tioi	n Ten Warning	
	ح. ح	,			
	1.	Recent memory loss that affects job performance	6.	Problems with abstract thinking	
	2.	Misplacing items	7.	Difficulty performing familiar tasks	
	3.	Problems with language	8.	Changes in mood or behavior	
	4.	Disorientation to time and place	9.	Changes in personality	
	5.	Poor or decreased judgment	10.	Loss of initiative	
Whe	n s	a Clinician Shoul	4 c	usnect	
			u s	uspect	
• Poor r • Medic	ecol atio	late office appointments lection of past important i n "non-compliance"			
proble	m	cerns of memory loss that gagement in the office visi		eed the patient's recognition of a	
<ul> <li>Tentat</li> </ul>	iven	less in previously confiden to appearance, hygiene o	t pa		
<ul><li>Unexp</li><li>Unusu</li></ul>	lain ally	ed weight loss jovial or evasive response			
• De no	vo D	epression.			
Ε\/ <b>Λ</b> Ι	11/	ATION			
	.07	111011			
• Complet		i <b>nd P</b> Hx from patient or often more helpful)	• T	ntal Status Exam HERE ARE MANY VALIDATED	
<ul> <li>Function</li> <li>IADL's)</li> </ul>	onal	Assessment (ADL's and		ESTS — TOO MANY  • MMSE  • Montreal Cognitive Assessment (MOCA)	
<ul> <li>Physic</li> </ul>	al ar	ALL medications, assess and drug use. Id neurological exam	• s	http://www.mocatest.org/ LUMS	
<ul> <li>Exclud freque demer</li> </ul>	e de ntly ntia d	pression (although depression and co-exist). – PHQ9 or GDS.	C	ttp://medschool.slu.edu/agingsuc essfully/pdfsurveys/slumsexam_0 .pdf	

Cognitive Screening Tests	
• Many exist	
<ul> <li>Should be comfortable with at least 2 (I recommend Mini-Cog for short, MOCA or SLUMS for longer)</li> </ul>	
Tests DO NOT provide diagnosis	
But DO provide supportive evidence     Give a numerical score, not a functional assessment	
Not all patients with normal scores are normal, and not all abnormal     scores a demonstration.	
scores = dementia.  • Patient's baseline is extremely important, better to follow over time.	
Comparisons of some Cognitive Tests	
Test Orient Reg/ Remote/ Praxis, Aphasia Attention Abstraction Executive	
Test. of crief. Reg/ Remote/, Pracis, Aphysical Attention Abstraction Executive (sen/sp) (Memory spatial Fluency Status)	
Mini-COG X (76%/89%)	
MOCA	
SLUNS X X X X X X X X X X X X X X X X X X X	
(78%/100%)	
Adapted from Holsinger, et al. "Does this Patient have dementia?"	
JAMA. June 6, 2007. Vol. 297, No.21 Table 2	
Diagnostic WORKUP	
Diagnostic WORKUP	

Neuroimaging
Not necessary to diagnose AD
Non-contrast CT helpful to r/o
ICH, space-occupying lesions, or hydrocephalus
NRI often performed if Vascular dementia suspected.
More useful if onset c 65, symptoms come on suddenly or progress rapidly, evidence of focal neuro deficit on exam, recent hx of fall or head trauma, or concern for NPH.

Lab testing
• Definitive

• Case by case

• CBC, CMP, TFT's, vit B12, RPR

 HIV testing, serum folic acid and methylmalonic acid concentrations, U/A, Urine toxicology, EEG, LP Adapted from GRS 8th Edition – Table 34.3 – Diagnostic Features and Treatment of Dementia Syndromes

	nene or be	inchid 5yr	iaromics			
Syndrome	Onset	Cognitive Domains/Sx	Motor Sx	Progression	Imaging	Rx for Cognition
MCI	Gradual	Primary memory	Rare	Unknown, 12% per year -> AD	Possible global atrophy, small hippocampal volumes	Cholinesterase Inhibitors (Chl's) possibly protective for 18 months (SOE-A) in some pts
Alzheimer Disease (AD)	Gradual	Memory, language, visuospatial	Rare early, apraxia later on	Gradual (8-10 years)	Possible global atrophy, small hippocampal volumes	Chi's for mild to sever (SOE-A), memantine for moderate to severe stages.
Vascular Dementia	Sudden or stepwise	Depends on location of ischemia	Correlates with ischemia	Gradual or stepwise with further ischemia	Cortical or subcortical changes on MRI	Consider Chi's for cognitive deficit only (SOE-C), Risk Factor modification (manage HTN, HL, and Diabetes).
Lewy Body Dementia	Gradual	Memory, visuospatial, hallucinations, fluctuating sx's.	Parkinsonism	Gradual but Faster than AD	Possible global atrophy. SPECT/PET show reduced metabolism/perfusion occipital lobes	Chi (SOE-B); +/- carbidopa/levodopa for movement symtptoms
Frontotemporal Dementia	Gradual w/ onset < 60 yo	Executive disinhibition, apathy,	None	Gradual but faster than AD	Atrophy most prominent in frontal and temporal lobes	NONE RECOMMENDED

# Rx of Cognitive Dysfunction

- Patients with Dx of mild/moderate AD should receive trial of AcetylCholinesterase (Achl) Inhibitor
   Data show Achl's compared with placebo for 1 yr show statistical benefit for cognition but no significant clinical benefit.
  - We believe that really they slow cognitive decline more than help with global improvement
  - Most studies used time to NH placement as endpoint for determining effectiveness (if started during mild/mod AD can delay need for NH up to 18months).
- Studies have shown benefit of Achl's in LBD, likely vascular and PDD.....not so much FTD.

## More on Rx

- For the AChI's
  - NNT

    - Improve cognition: 6-12
       Prevent Global Decline: 12
    - Delay Nursing home placement: 6
- Here's the rub • NN to Harm:

• 12

Functional Assessment Staging of Alzheimer's Disease. (FAST)	
<ul> <li>1 - No difficulties, either subjectively or objectively</li> <li>2 - Complains of forgetting location of objects. Subjective Word Finding Difficulties.</li> </ul>	
<ul> <li>3 – Decreased Job Junction evident to co-workers; difficulty in traveling to new locations. Decreased organizational capacity</li> <li>4 – Decreased ability to perform complex tasks (e.g., planning dinner</li> </ul>	
for guests), handling personal finances (e.g. forgets to pay pills), difficulty marketing, etc.  5 – Requires assistance in choosing proper clothing to wear for day,	
season, occasion	
FAST CONTINUED	
6	
<ul> <li>a. Difficulty putting clothing on properly without assistance.</li> <li>b. Unable to bathe properly: e.g., difficulty adjusting bath water temperature) occasionally or more frequently over the past weeks.</li> <li>c. Inability to handle mechanics of toileting (e.g., forgets to flush the toilet,</li> </ul>	
more frequently over the past weeks.  • d. Urinary incontinence, occasional or more frequent  • e. Fecal incontinence, (occasional or more frequently over the past week)	
FACT CONTINUED	
FAST CONTINUED	
a. Ability to speak limited to approximately a half dozen different words or fewer, in the course of an average day or in the course of an intensive	
<ul> <li>interview.</li> <li>b. Speech ability limited to the use of a single intelligible word in an average day</li> </ul>	
<ul> <li>c. Ambulatory ability lost (cannot walk without personal assistance).</li> <li>d. Ability to sit up without assistance lost (e.g., the individual will fall over if there are no lateral rests [arms] on the chair).</li> </ul>	
• e. Loss of the ability to smile.	

COGNITIVE CARE KIT  • Can be found at this address thats; Javawa and confunction:  care fuelish health Cognitive care before  **Suggested resources are those that the AAPP panel of experts have chosen as the most effective, comprehensive, and evidence-based information.  **Additional resources provide additional resources and approaches physicular, spotestic, smilles, conspieurs and support team members shall gious a good overview of AO  **Next Confusion Language Parents**  **Post Next Confusion Language Parents**  **Dy Virgins Morris and Robert Rubbins**  **Post March Visia Genou, 2007 – now adapted to a movie  **Demantia Beyond Drugs: Chamling the Culture of Corr – by G. Alice  **Demantia Beyond Drugs: Chamling the Culture of Corr – by G. Alice  **Next Language Parents**  **Post Confusion, 2011, AGS, Contains, All your Engeritys, 15** edition, 2011, AGS, Contains, All your Engeritys, 15** edition, 2013, AGS, Holsinger, et al. "Does the Patient have dementia?" JAMA, June 6, 2007, Vol. 279, No. 21  **UpToDate.**	American Academy of Family Physicians(AAFP)	
Suggested resources are those that the AAFP panel of experts have chosen as the most effective, comprehensive, and evidence-based information.  **Additional resources provide additional resources and approaches many find useful in providing care for patients with cognitive impairment.  **IF FREE FOR PROVIDERS AND PATIENTSHIHIII  **REFE FOR PROVIDERS AND PATIENTSHIHIIII  **PREE FOR PROVIDERS AND PATIENTSHIHIIII  **REFE FOR PROVIDERS AND PATIENTSHIHIIIII  **REFE FOR PROVIDERS AND PATIENTSHIHIIIII  **REFE FOR PROVIDERS AND PATIENTSHIHIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	COGNITIVE CARE KIT	
chosen as the most effective, comprehensive, and evidence-based information.  * Additional resources provide additional resources and approaches physicians, patients, families, caregivers and support team members may find useful in providing care for patients with cognitive impairment.  * Is FREE FOR PROVIDERS AND PATIENTS!!!!!!!  **RESOURCES**  * The 36 Hour Day** by Nancy Mace and Peter Rabins.  * A useful book for caregivers and imminimenters that gives a good overview of AD * * * * A useful book for caregivers and imminimenters that gives a good overview of AD * * * * A useful book for caregivers and imminimenters that gives a good overview of AD * * * * * * * * * * * * * * * * * *	care/public-health/cognitive-care.html	
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<b>ADVANCED</b>	<b>DIRECTIVES</b>	and	EOL
PLANNING			

- It's harder in Texas FYI





Copyright by Signe Wilkins

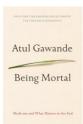
# Physician's Recent Thoughts on EOLD's

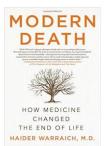
- Recent survey conducted by Perry Undem and for The JA Hartford Foundation, Cambia Health Foundation and California HealthCare Foundation released April 2016 regarding Physician's (who routinely treat those 65 and up) views on ACP and EOLD's found:

   92% said it was very or extremely important to have these conversations.

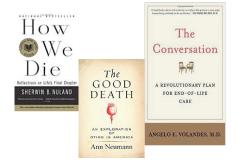
  - Top reasons were 1) honoring patients' values and wishes 2) reducing unnecessary or unwanted hospitalizations at the EOL 3) patient/family member satisfaction 4) Reducing healthcare costs 5) increasing number of patients who receive hospice care.
  - Biggest barriers were 1) Time 2) disagreements between family and patient 3) Provider not knowing when the right time is to have the conversation 4) feeling like the convo might be uncomfortable 5) not wanting the patient to perceive provider as giving up hope 6) not knowing what is culturally appropriate for the patient.

## This is not new news





"The more medicalized death gets, the longer people are debilitated before the end, the more cloistered those who die become, the



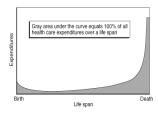
## Websites On This

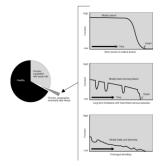
- http://www.northtexasrespectingchoices.com/
- <a href="http://theconversationproject.org/">http://theconversationproject.org/</a>
- http://polst.org/

From 2003 RAND report

RAND Health White
Paper 137 – Living Well
at the End of Life

While this was published in 2003, the trend still holds true today and indeed is more exacerbated in 2016. Americans concentrate majority of Health Care Expenditures in Final Years (actually months) of Life





## Conceptualizing the Money

- Per CMS.gov, Medicare spending was 646.2 billion dollars \$\$\$ in 2015.
- Many studies over the years since Medicare's inception have shown that Americans spend between 27 and 33% of their Medicare dollars in the final year of life and that about 1/3 of costs occurring in the last month of life.
- Doing the math, that's roughly 194 billion dollars in this day and age trying to avoid the inevitable.
- Interestingly, the percentage of medicare dollars in final year of life has not changed since Medicare started.
- This suggests more something about our cultural avoidance of death, how medicare was set up from the get-go, and the costs of healthcare today than anything else when we are compared to other developed nations.

## When Should these Conversations be Had?

- NOW, not later, not in period of acute decline when patient and family is confronted with grief.
- Patient or surrogate must have capacity components of capacity are understanding, appreciation, reasoning and communication of choice.
- If the first time this conversation is had is on the inpatient setting, it's probably too late for a smooth discussion. It is still necessary, but will be that much more difficult.

The decision making abilities, their definitions, and questions to	
assess them Decision-moiling ability Definition, Sample questions	
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UpToDate*	
Who should be having these conversations	
with patients?	
Or the Medical Professionals?	
The Lawyers?	
E dh Forst day	
Tapia's Top 10 Barriers to End-Of-Life-	
Discussions	
1) Physicians/providers aren't paid well to have the discussions. Medicare still emphasizes procedures to time based services. THIS COULD BE REASONS 1-10.	
Same reason Geriatrics is a dying field.	
<ul> <li>2) Huge disconnect between medical community understanding of value of interventions and patients/surrogates understanding of what modern medicine can do – education to bridge the gap takes time, we don't get paid for that.</li> </ul>	
can do – education to bridge the gap takes time, we don't get paid for that.  3) Increasing Distrust of Medical Field – Trust building takes time, we aren't paid for that.	
for that.	

tor that.

4) Confusion regarding terminology in EOLD's even amongst medical community (e.g. What is implied with a DNR order?) – Education to clear the confusion takes time, we aren't paid for that.

5) Lack of training and experience in medical training in End-Of-Life Conversations for Providers – who would pay for extra education on something they receive little return on when they have 6 digits in debt?

### Tapia's Top 10 Barriers to End-Of-Life-Discussions (cont)

- 6) Consistent messages from popular culture and medical training that death/aging are the enemy patients spend more time watching TV than listening to their physicians/providers.
- 7) Lack of consistency in how to document and record patients' preferences when discussed if we were incentivized to do this well, someone would figure it out real quick.

   8) Sarah Palin "Death Panels"
- 9) Difficulty in Navigating diversity in cultural values and personal preferences takes TIME, you get the pattern.
- 10) Family Drama and Surrogates again, takes time to manage, often not face-to-face patient visit time.



- cc I		_
Official	LOVAC	Lorma

- https://hhs.texas.gov/laws-regulations/forms/advance-directives
  - Directive to Physicians and Family or Surrogates
  - Medical Power of Attorney
  - Out-Of-Hospital DNR
  - Declaration For Mental Health Treatment
- http://www.northtexasrespectingchoices.com
  - TEXAS MOST form Medical Orders for Scope of Treatment.

### Questions for patients to consider in guiding a Directive to Physicians

- 1) What kinds of things are important to you in your life?
- 2) If you were not able to do the activities you enjoy, are there any medical treatments that would be too much?

  3) What fears do you have about getting sick or medical care?
- Do you have any spiritual, religious, philosophical, or cultural beliefs that guide you when you make medical decisions?
- 5) If you had to choose between living longer or having a higher quality of life, which would you pick?
- 6) How important is it for you to be at home when you die?

Taken from "The Conversation – A Revolutionary Plan for End-Of-Life-Care" by Dr. Angelo E. Volandes, M.D.

15

Questions Patients should	consider when
choosing a health proxy?	

- 1) Does your proxy understand what your values and priorities are? Do you trust your proxy with your life?
- 2) Will your proxy be able to separate his or her feelings from yours and act on your wishes?
- 3) Will your proxy be a strong advocate of your expressed choices even if others – including your family members – disagree?
- 4) Does your proxy live near you and will he or she be available when you need help the most?

Taken from "The Conversation – A Revolutionary Plan for End-Of-Life-Care" by Dr. Angelo E. Volandes, M.D.

Secti	on 1
Wrkter	n legal documents
Living	will
Durel	ble power of attorney
Orga	n denations
Wishe	s concerning specific medical procedures
Organ	n donation
	ry dielysis
	opulmonary resuscitation
	retors
	siel nutrition
	sal hydration
	rel comments
Secti	
Overal	attitude toward health
Percep	tion of the role of physician and other health caregivers
Thoug	hts about independence and control
Person	al relationships
Overal	attitude toward life
Attitud	e toward illness, dying and death
Religio	us background and beliefs
Living	environment
Attitud	le concerning finances
Wishe	s concerning funeral

UpToDate\*

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Termin	Evaluate the patient to discuss that purery condition and describe requiring \$2500 medium cons	"Prodit you file to talk place and exper Support in the fature, and how we yould make many your written him followed?"
Trahorases	allows patient to determine from Particular planning, and allowine for in the nation allows local-red	Accept you like in hell offered this by yourself, or one these offered you model the he per self-
Telepholika Laudina	To distinguish what the palents's professionaling is expending the or has emissed shouldness at the present does	What is not independently allow your medical electrics? "What have your dealers have you?"
words Absention	To provide that shorted an about the chance that may be lead in the letters, and vibules to the patient's own surest mode of continue.	For a patient with recurrent cancer. An example: This case year carrier paties best, it is not condition that will be broken under the discussion that year of year tip, the a present discussion that year of year tip, the a present discussion.
Product Names distant	To departure if the patient has thought about the medical case they whell like to home in the bases.	"Max potenties copy to southed to have entirell the docume. We disoding about with drawing a settleton or going on frequent? What would not have marked in that observe?"
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Bid ic? jestemon	To gate the patient to distribute another processing about ACT, including to the contrast of t	"If you prese he shap trenditing, mouth you wish for the annual shape that the obtains for any first the parties of the partie
standy a surruptic decision et aller	To constitute name potentin who self-cach and file other washes to the coat by or who to send the other file.	"If you became written both driver (Indian), what kind of care their should provide you, who wought you want to their mobiles of desirate for you?" ACR! If the parties of common mobiles personny, and its assistant of privacy according to the parties of privacy according to the parties of privacy.
Disease wheat the rate of a corregate	To ensure underdigrafting on him the same rights disclose hallow would be describe the below	"I recitations under to particular in disciplines about your said, your surrigate would be called in as fulf-or what threate be done."
learning	In some that the eCo decision of the patient as lesses in that their seed than, and seedfully, in the surrogate(s)	"A wood to report at it had your family brown of your mobile and decime for the falses. The metales letting everyone here of at you have closed as your spring to decime make."
Innet	Enterages the palary to complete ACF fame, which will believe the charges that water are believed as the falary.	These are reportant decreases that will report one care in the belone. We should make seen to patches in undergo."
No. of Contrast	Spaces of Managama on angular basis services that ICP decisions amounts online that decisions	"Analogue Rip In repet your advance you plane"   just have in male one than still selled your water (refer, command to plane on shift the last."

A Physicia	an's Guide to Ta	alking About End-Of-		
Life Care	Initiating Discussion			
• Est	ablish a supportive relationship with patier point a surrogate decision maker	nt and family rences. Go beyond stock phrases with probing	•	
<ul> <li>Step 2 – 6</li> </ul>	Clarifying Prognosis			
• Use	direct, yet caring truthful, but sustain spirit e simple everyday language dentifying EOL Goals			
• Fac	ilitate open discussion about desired medi-	cal care and remaining life goals. share similar goals; maximizing time with essary procedures, maintaining functionality, and		
<ul> <li>Step 4 – I</li> <li>Pro</li> </ul>	nimizing pain. Developing a treatment plan wide guidance in understanding medical op ike recs regarding appropriate treatment			
• Cla	ike recs regarding appropriate treatment rify resuscitation orders tiate timely palliative care, when appropria	te.		
A Physicia J Gen Into	an's Guide to Talking About End-of-Life Care, Richard 8 em Med. 2000 Mar; 15(3): 195–200. doi: 10.1046/j.1! MCL1495357	8 Balaban 525-1497.2000.07228.x		
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TEXAS M	OST		•	
		-content/uploads/TexasMOSTFinal2262016.pdf		
<ul> <li>WHAT IS THE M</li> <li>Medical Orde</li> </ul>	MOST? rs for Scope of Treatment – TX s	pecific version of POLST		
<ul> <li>"In 1991 lead</li> </ul>	ing medical ethicists in Oregon d	n Orders for Life Sustaining Treatment) discovered that patient preferences for end-of-	•	
for the patien	its with serious illness or frailty -	gnizing that advance directives were inadequate — who frequently require emergency medical new tool for honoring patients' wishes for end- ation, the program became known as Physician	•	
Orders for Life	ent. After several years of evalua e-Sustaining Treatment (POLST).' eplace a Directive to Physic	,		
<ul> <li>Purpose is to</li> </ul>	work together with an Advanced	d Directive in specific patients populations (near re fulfilled in an Emergency setting.		
			•	
Standa	rd The current standard o	of care during an emergency is to do		
of Car	e everything possible in an there is a <u>mes</u>	attempt to save someone's life, unless dical order to the contrary.		
ACP docu	Advance Care Pla uments allow individuals to share	n Documents re their treatment preferences in the		
even	t they can no longer speak for t	hemselves. There are two kinds.  Medical Orders		
Includes	Advance directives     Living Wills     Health Care Power of Attorney	Do Not Resuscitate (DNR) Orders     Physician Orders for Life-Sustaining     Treatment (POLST) forms – name varies by     state-see www.polst.org	•	
Purpose	Identify a surrogate decision maker. Provide general wishes about treatments individual wants.	Orders emergency personnel to provide specific treatments during a medical emergency.	•	
Who Needs	All competent adults	Seriously III individuals. POLST Forms are only those individuals for whom health care professionals wouldn't be surprised if they died within a year.	•	
Can be used during an emergency	No. These are used to develop care plans, but are not orders EMS can follow.		•	
			•	

Figure 18 TMC \$197.35 SACE  OUT. OF-HOSPITAL DO-NOT-RESUSCITATE (OOH-DNR) ORDER  TAXAS BEFARIUMY OF \$14 TM REAL IN SERVICES  TAXAS BEFARIUMY OF \$14 TM REAL IN SERVICES  TO SERVICE AND THE SERVICES AND THE SERVI	R Print Form	
Neuro's fall ligit care:  A. Declaration of the <u>philipropes</u> : Lancorporoni and a local stransor days, ident flast security for fallowing resourchains compositions accordance on the philipropes of the security of the secur	interest for any	
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E. Declaration es helled of the <u>passage passage</u> can diversify the control of the passage passage can be passaged to a place of the control	or continued for the persons	
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Makey in the finite of Years and County of	e or the date.	
TEXAS MEDICAL ORDERS FOR SCOPE OF TREATMENT (MOST) [TXMOSTCOall! First Name: Last Name: Fallow this MOST and nations conferences for	ilon2-26-16]	
First Name: Last Name: Follow this MOST and patient preferences for Any section not completed implies fall in Mose of Birth: Date of Birth: Date Form Prepared: translate the form. Sent the Mose not invalidate the form. Sent the Mose not invalidate the form. Sent the provided by all patients,	irst, then contact a physician. eastment for that section and OST with the patient for all care and dignity will be	
PHYSICIAN RESUSCITATION ORDER: If patient does not have a pulse an Attempt Resuscitation (CPR) Place tube in the windpipe, electrical shocks to the compression, and IV tubes for fluids/medications.	the chest, chest	
Description of the second of t	esuscitate Form completed	
□ FULL INTERVENTIONS: Transfer to a hospital, and if necessary to ICU. Use commeasures, and may add medically appropriate ICU interventions like, but not lin intubation/ventilator support, ICU-only medications, and dialysis.	nfort and selective mited to,	
SELECTIVE INTERVENTIONS: If necessary, transfer to a hospital. In addition to add interventions like intravenous antibiotics, non-invasive breathing support in the second of the second	(BIPAP/CPAP), and fluid	
COMFORT INTERVENTIONS ONLY: Avoid hospitalization unless needed to pro on symptom control, dignity, and allowing gentle, natural death should it occur- interventions like oral, subcutaneous, or intravenous medications (e.g., opioids) oxygen, and emotional/spiritual support.	. Use comfort	
ADDITIONAL ORDERS:		
MEDICALLY ASSISTED NUTRITION/HYDRATION  Offer nutrition and hydration by mouth at all intervention levels if feasible.  No medically assisted nutrition.		
Osas Unless medically contra-indicated*, defined trial of medically assisted nut Length of trial Goal Long-term medically assisted nutrition.		
*In some circumstances including, but not limited to, heart, lung, liver or kidney failure, assisted increase suffering or hasten death, and is therefore medically contraindicated.  DOCUMENTATION OF DISCUSSION AND SIGNATURES:  Discussed with:  Rationale	for these orders:	
Patient (Patient has capacity) (Choose all Pleath Care Agent or Decision Maker: Court Appointed Guardian (Relationship, Name) Others in Attendance: (Relationship, Name) Medical Others in Attendance: (Relationship, Name)	that apply) (Directive to Physicians mily or Surrogates) Power of Attorney	
Physician Signature: My signature certifies both the order and preferences above Print Physician Signature:  Print Physician Name:  D	ve and the basis for them. Date: Phone Number:	
Patient or Patient's Surrogate Signature:  Print Patient or Surrogate's Name, if Signing:  SEND FORM WINT PATIENT WHEN A TRANSFERRED OR DISCHARGE	Date: Phone Number:	
GERO FORM HITTPATIENT THERE FEIT THOROGENIEU UN UNCHANGE		

Patient Last Name:	First Name:	DOB:	
Facilitator Information: If someone other than Facilitator Last Name:	patient's physician is facilitating this con Facilitator First Name:	rversation: Credentials:	Phone Number:
	Instructions for MOST Form		
What is MOST? MOST stands for Medical Orders for Scope of Treath preferences that travels with the patient from one site	nent. It is a physician order set and care plan of treatment to another.	nning tool based upon pal	ent treatment
Intent or Purpose of MOST: The MOST form is inte- care between hospitals, nursing facilities and other si	tes of care. The order and treatment preferer	e and improve communic noes should be based up	tion about that health in:
<ul> <li>The patient's medical condition as determine</li> <li>The patient's preferences as directly expresipatient can't communicate and lacks a Living</li> </ul>	sed by the patient, the Living Will, or by the p	patient's surrogate (patier	representative) if the
Section A: Translates patient preferences regarding breathing. If a patient is not in cardiopulmonary arrest DNAR/AND order does not mean that other health or			
DNAR/AND order does not mean that other health pr information Regarding Cardio-Pulmonary effective when a patient dies unexpectedly, age when death would not be a surprise. CF	Resuscitation (CPR): CPR is sometimes in CPR is rarely effective in advanced cancer, or PR started in the nursing home almost never	helpful but other times ca organ failure, other advar leads to survival. If CPR	be harmful. It is most sed illness, or advances s initially successful in
resuscitating a patient, the patient will be on benefit from CPR based on their medical co	a breathing macrine in the ICU. Patients shi ndition.	ould discuss with their pr	sician the potential to
Section B and C: Provide guidance for more specific medical appropriateness, and local medical and nursi	orders which a treating physician may issue ing facility policy. These sections apply when	e according to the patient n a patient has a pulse an	medical condition, is breathing.
is MOST a Valid Physician Order for Non-EMS Per other than Emergency Medical Services professional ORDER MAY BE HONORED BY HEALTH CARE PE	rsonnel? Yes. MOST is a valid order for heal s, as stated in Section 166.102 of the Texas i	ith care personnel in an o	t of hospital setting
licensed nurse or person providing health care service	es in an out-of-hospital setting may honor a p	physician's do-not-resusc	ate order.
Is MOST a Valid Physician Order for EMS Persons signatures) Texas-Out-of-Hospital DNR is present.			
What Should Health Care Professionals (Other this facility, Honor the order to attempt or not attempt CPI community. If patient is transferred to any other medi	an EMS) Do With This Form? Make the form If and patient treatment preferences in accordical facility, send the form with the patient.	m a part of the patient's m dance with the standard o	idical record in your care in your
Living Will, MPOA, and OOH-DNR Order: MOST is order or device [Tex. H&S Code, 166.102(b)] Althoug	h this MOST conveys important information a	about a patient's treatmen	preferences, it does
not replace a Living Will, MPOA, or OOH-DNR Order professionals should be aware that when responding DNR Order or identification device. [Tex. H&S Code,	to a nall for assistance FMS nersonnel shall	R Order controls over this I honor only a properly ex	AOST. Health care cuted or issued OOH
Copy of MOST and HIPAA: A copy of a completed thealth care providers as necessary for treatment purposes.	MOST is as valid as the original, and HIPAA posses. The complete MOST and associated of	permits disclosure of a co documents will also be av	rpleted MOST to othe
physicians electronically via a secure local health info Review: Physicians and patient/surrogate should rev	rmation exchange.		
preferences. If no changes, physician may simply init create a new form!  Date of Review	ial the date of review in the boxes above. If cl	hanges are desired by th	patient or surrogate,
Physician Initials	ON ALL TRANSFERS BETWEEN	HEALTHCARE SIT	S
w to Get Paid f	or Advanced	Care F	lannir
ginning January 1, 2016	Advance Care Plan	nning (ACD	codes we
ded to the Physician Fe			coues we
CPT codes are 99497			
ey can be used in any so rogate has a face-to fac			
sician's qualified desig	nee (NPP).		
ey are considered "Volutionally in the context of			
nsurance amounts app			
vice.			

### ACP Codes Broken Down.

CPT CODE	99497	99498
TIME	Min of 16 minutes up to 30 minutes.	Each additional 30 min, starting at 46 minutes
Medicare Reimburses	86\$	up to 76\$
Haikus to	Sixteen to Thirty It's 99497 For ACP Talks	Add codes to visits With routine E and M codes In any setting
Drive it home	Each extra thirty It is 99498 Added onto first	Talks are Face-to-Face With Patients or Surrogates To get the monies.

# EOLD's in the Bible Belt

- Majority Christians (although that's a diverse term)
- Pervasive belief in the "Will of God" and notion that God is in control.
- This informs decision making, however it frequently isn't fully informed due to the lack of understanding of medicines' limitations.
- Christians in the Bible Belt do share a common belief in God's plan for life from its natural beginning to its natural end.
- Get to know the chaplain, Pastors, and Religious in the community. They are a resource.

### EOLD's in the Bible Belt

- I commonly hear patients tell me they want to be "Full Code" or for us to "do everything" possible because they feel that is what God asks of them to respect their own God-given life.
- us to "Deveryiming" bussine because they here intal its wind dou asks of them to respect their own God-given life.

  Depending on the situation (rapport and relationship with community "doing everything" is fulfilling God's pian.

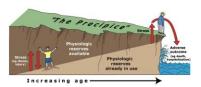
  After educating about what our medical procedures such as CPR, or even in specific contests PEG tubes, can achieve; I frequently make the case that perhaps the medical community is artificially and unnaturally thratining God's pian to take them home to Him by intervening with these invasive/unnatural and frequently unsuccessful procedures.

  About 60% of the time, patients or surrogates change their code status. Roughly 30% are not off-put by it, but rather request more status. Roughly 30% are not off-put by it, but rather request more status. Roughly 30% are not off-put by it, but rather request more status. Roughly 30% are not off-put by it, but rather request more active status. Roughly 30% are not off-put by it, but rather request more more processed to the status. Roughly 30% are not off-put by it, but rather request more status. Roughly 30% are not off-put by it, but rather request more status. Roughly 30% are not off-put by it, but rather request more active status. Roughly 30% are not off-put by it, but rather request more active status. Roughly 30% are not off-put by it, but rather request more active status. The 10% where I have not succeeded has been when dealing in an emergency stuation with a greiving child/Spouse as decision maker.....and there just wasn't time to develop the rapport.

References (not already cited)	
<ul> <li>J. John A. Hartford Foundation, Cambia Health Foundation, California HealthCare Foundation. Physicians' views toward advance care planning and end of life care convenations: findings from a national survey among physicians who regulath yre trea platents 65 and older.</li> <li>http://www.lhartfound.org/mages/uploads/resources/ConversationStopper_Poll_Memo.pdf. Published April 16, 2018.</li> </ul>	
http://www.medicaring.org/whitepaper/. *Living Well at the End of Life – Adapting Health Care to Serious Chronic Illness in Old Age *Lynn, Joann MD, Adamson David M. Rand Health White Paper WP-137 (2003)  Bernacki RE, Biock SD, for the American College of Physicians High Yadue Care Task Force. Communication About Serious Illness Care Goalsh Review and Synthesis of Best Practices. JAMA Intern Med. 2014;721(21):934-0203. doi:10.1001/jamainternmed.2014.5271 2014;714(21):934-0203. doi:10.1001/jamainternmed.2014.5271 2014;714(21):934-934-934-934-934-934-934-934-934-934-	
Murphy DI et al. The Influence of the Probability of Survival on Patients Preferences Regarding Cardiopulmonary Resuscitation. NEIM: Feb 24, 1994. Vol 330. No 8.     http://www.northbearsepsetinghoises.com/wp-content/uploads/FACTSHEET2-2016.pdf	
https://www.cms.gov/Jourteach-and-Education/Medicare-Learning-Networks-MIX/MD/PDG00xf5/0xm/doas/AyanceCare/Panning.gdl-earning-Networks-MIX/MD/PDG00xf5/0xm/doas/AyanceCare/Panning.gdl-https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PhysicianFeeSched/Downloads/FAQ-AdvanceCare-Panning.gdl	
Advance-Lare-Pianning.pdr	
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POLYPHARMACY/MED	
MANAGEMENT	
For the Geriatric Patient or Medically Complex	

		te		

- HOMEOSTASIS the tendency toward a relatively stable equilibrium between interdeper elements, esp. as maintained by physiological processes
- HOMEOSTENOSIS is the concept that from maturity to senescence, diminishing physiologic reserves are available to meet challenges to homeostasis....with aging, the area in which the older person can bring themselves back to homeostasis narrows (aka becomes stenotic) -> increased vulnerability to disease that occurs with



## Basic Changes in Physiology to Keep in Mind always when Rx'ing to the Aged

- 1) Older people have more physiologic variability than younger people. Can't make assumptions.
- 2) Most of the "Evidence Based Medicine" that dictates protocol and standards of care are aiming to prevent death and often do not include people 80+ years old in the studies.
- 53) Body's ability to store, metabolize, and get rid of medications changes drastically as aging changes composition (more percent fat in muscle and bone marrow), liver is not functioning at 100%, kidney clearance decreased by 10mL/decade, etc....
- 4) Dementia is highly under-recognized, ability for many aged adults to manage Rx meds safely in outpatient setting should be considered.
   5) Patient goals matter most. Must find these out before considering options for or against prescribing medications.

- Increase in co-morbidities with age Physiologic Changes - Genetic Variability - Pharmacokinetics - Pharmacokynamics  - Pharmacokynamics  - Prescribing (PIP)	
Potentially Inappropriate Prescribing  Risk > Benefit - Nowing patient's goals is important to understand risk vs benefit.  Over-Prescribing Excessive doses/duration of medicines (start low, go slow) Polypharmacy Mis-Prescribing Unfavorable choice of medicine, dose, or duration.  Under-Prescribing Not Prescribing a clinically indicated medicine, despite the patient not having any contra-indication to that medicine.	
Initial drug	

UpToDate\*

### WHY THIS MATTERS

- While only about 14% of US pop is > 65 years (as of 2010), the elderly account for 25% of ED visits due to ADE's.
- Roughly 50% of hospitalizations due to ADE's are in the elderly
- 82% of American Adults take at least one medication and 29% take 5 or more.
- 3.5 BILLION DOLLARS spent on extra medical costs of ADE's YEARLY.
- At least 40% of costs of ambulatory (non-hospital settings) ADE's are estimated to be *preventable*



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- "Pill for every III" mentality among many patients and their family.
- Culturally Americans are not accepting of aging or dying. We are still in denial and will go to illogical lengths to prevent it.
- People do not understand the potential harms of medications, no thanks to big-pharma and media.
- obspirations and media.

  Physicians/Providers are not paid to take the time needed to reassure, educate and counsel patients. But we feel like we have to do something, and if it's not surgery, our something is a medication.....and we're not allowed to use placebos.
- $\bullet \ \ American \ Healthcare \ System \ is \ extremely \ fragmented.$
- This and many more factors make it very hard to do the right thing for our patients in day to day clinical practice. But still – Do the right thing! "DO NO HARM"

### **BEERS CRITERIA**

- Developed in 1991 by Dr. Mark Beers (a geriatrician) and expert panel and first published in 1991 in Archives of Internal Med.
- Have been updated in 1997, 2003, 2012 and 2015.
- "The "Beers Criteria" contains lists of medications that pose potential risks outweighing potential benefits for people 65 and older. By considering this information during routine care, practitioners may prevent harmful side effects, including those that could be lifethreatening and other "adverse drug events"." – Wikipedia.
- It is meant to be a guide to physicians but not to replace professional judgment. There are a number of limitations.

Fublic 4. 2015 American G with Cautien in Older Adults	eriatrics Society Beers Centeria	for Potentially Inappropriat	e Medicas	one to He Used
Ongo	Hattoneie :	Recommendation	Quality of Evidence	Strength of Spootstandalan
ngov to privary presenter of	Lab of extense of barefit versus risk to study and ultil		LIN	(Dring)
Despera	increased risk of guarromatinus bleeding compared with warban and approach one with color larger-specific risk arthogopalants in adults aged 175; task of endance of efficacy and safety or indicated with CRI 200 of June	Use with coulons in in arbitis again u.ts. and in patients with OVI =30 mg/mm.	Moderate	Strong
Practical	Increased risk of bleeding in 1999 adults; benefit in highest-risk state white (e.g., three wife) pror reposed a fraction or distance statistical may offset risk.	Use with caution in adults aged alf5	Moderate	Vesa
Articoportotico Durativos Contant resignas	May waterfate or came systems of regimentals or systems of regimentals or hazaraneous create solution lave disease solution lave disease starting or charging straige to other shalls.	Use with caution	Moderate	Strong
-	May magniful question of springs in replactuals with history of success.	the wife course	Moran	Yes

Table 5. 2015 At Drug-Drug Interse	merican Gunatrics tions That Should	Society Beers Critical Be Avoidnt in Older	s for Petrostally Circulty to Adults	eportani Ni	en Anti-usfactio
Object Drug and Class	Interesting Drug and Class	Risk Rationals	Macanahambaham		Downgry of Hammenton dates
ACIn	Antionin or Stantaness	Perowal risk of Howkwinter	Aced routine was reasons for patients with genomerate faceledense with saless an milk	Marries	Brig
Artichotriergio.	Anticholinergio	frommed resi of . Quantities stations	Artist, myrinda number of artist-college; shugy (Table 1)	Molege	Strong.
Attoproports (i.e., TO/o and SSF0)	sZober OX-asie (High	Providence Fig. of Pality	And the if it Ob-ame dign't revise runte of Oil- ative trips	Moderni	Story .
Artigaychelica	2 other Dishabus shight	Increased into of Fight.	And total of all Olfs active drugs", minerial mineral of Olfs- wine drugs	Moderate	Strong
Benchaspes and norderadiagons, benchdatpine reagain spirite hypotics	of other CHE-schill.	Increased this of field and fractions	And too if all Olf-ative drugs, minimal number of Olf- ative drugs.	Hip	grost
Conticonteroids, and or parenterial	NSADI	fremmed risk of Phytics ofor disease or contracteding bandon	Avoid, if red possible, provide gastraintestinal protection	Mosean	Story
John	ACHS	Incremed risk of Lithurn toxicity	Acid, reprily lifeury	Moderne	Brong
STEATO	Loop duration	Ethiom toochy	Arcit, moreor literari conceptrations	Material	Strong
Brod Hogser agoral respects	Griffs, 5 total Og-azini	knowled risk of Falls	And total of all Otherson drugs? minimum number of Otherson	Hp	Tirm
Robers	Long division	Distressed risk of Ultimary incontinence in older women	Audi in older worren, urkess conditions warned both drugs	Motorie	Story
heart aftern	Greater	Proposed raik of Theophyline towary	Arac	Moderate	Divid.
erien	Amount	Parened frix of Deeding	Aud when possible moreov internal numerical case disease	Moderate	Street
Batturii .	MACK	District 168 of Besting	And other positing if used Notified, resident for streeting	Has	more .



STOPP/START	
Originally Developed in 2008 by Dr. Dennis O'Mahony and his team at Cork University Hospital.	
Came after recognition of many limitations to the Beers criteria.  Many of drugs on Beers really aren't even used in PC setting anymore (mepobramate, reserpine, etc)	
making it's application confusing.  Beers originally didn't take into account several important PIP's or drug-drug interactions (they have since worked on this with updates) Nor did it provide any guidance into undertreatment.	
Beers is used more as a research tool than a clinical aid.  Recognized need for tool more clinically applicable and usable.	
Is now used throughout Europe, was updated in March 2014	
STOPP Criteria	
<u>Screening Tool of Older Persons' potentially</u> inappropriate <u>Prescriptions</u>	
··· ·	
VERSION 2	
OMahony D, Gallagher P, Ryan C, Bytne S, O'Connor M, O'Sulhan D, STOPPHSTART criteria for potentially inappropriate prescribing in older people: version 2. Ago and Agency 2016, 44(2):213-218. Published electronically 16 October 2014	
Section A: Indication of medication	
Any drug prescribed without an evidence-based clinical indication.     Any drug prescribed beyond the recommended duration, where	
treatment duration is well defined.	
Any duplicate drug class prescription e.g. two concurrent NSAIDs,     SSRIs, loop diuretics, ACE inhibitors, anticoagulants (optimisation of	
monotherapy within a single drug class should be observed prior to	
considering a new agent).	

Section B: Cardiovascular System	
1. Digoxin for heart failure with normal systolic ventricular function (no clear evidence of benefit)	
<ul> <li>2. Verapamil or diltiazem with NYHA Class III or IV heart failure (may worsen heart failure).</li> <li>3. Beta-blocker in combination with verapamil or diltiazem (risk of heart block).</li> </ul>	
4. Beta blocker with bradycardia (< 50/min), type II heart block or complete heart block (risk of complete heart block, asystole).	
S. Amiodarone as first-line antiarrhythmic therapy in supraventricular tachyarrhythmias (higher risk of side-effects than beta-blockers, digoxin, verapamil or diltiazem)     6. Loop diuretic as first-line treatment for hypertension (safer, more effective	
alternatives available).  • 7. Loop diuretic for dependent ankle gedema without clinical, biochemical evidence or	
radiological evidence of heart failure, liver failure, nephrotic syndrome or renal failure (leg elevation and /or compression hosiery usually more appropriate).	
Section B: Cardiovascular System cont	
<ul> <li>8. Thiazide diuretic with current significant hypokalaemia (i. e. serum K × - 3.0 mmol/l), hyponatzemia (i. e. serum Na × - 130 mmol/l) hyporatzemia (i. e. serum Na × - 130 mmol/l) nor with a history of gout (hypokalaemia, hyponatzemia, hypercalcaemia and gout can be precipitated by thiazide diuretic)</li> <li>9. Loop diuretic for treatment of hypertension with concurrent urinary incontinence (may exacerbate</li> </ul>	
inconfinence).  10. Central yacting antihypertensives (e.g. methyldoga, clonidine, monoidine, rilendine, guarfacine), unless clear intolerance of, or lack of efficacy with, other classes of antihypertensives (centrally-active antihypertensives are generally less well tolerance by older people than younger people).	
<ul> <li>11. ACE inhibitors or Angiotensin Recentor Blockers in natients with hyperkalaemia.</li> </ul>	
<ul> <li>12. Aldosterone antagonists (e.g. spironolactone, eplerenone) with concurrent potassium-conserving drugs (e.g. ACTs, ARBs, amilioride, triamiterene) without monitoring of serum potassium (risk of dangerous hyperialaemia i.e. &gt; 6.0 mm/d) - serum is should be monitored regularly, i.e. at least every 6 months).</li> </ul>	
<ul> <li>3. Phosphodiesterase type 5 inhibitors (e.g. sildenafil, ladalafil, vardenafil) in severe heart failure characterised by hypotension i.e. systolic BP &lt; 90 mmHg, or concurrent nitrate therapy for angina (risk of cardiovascular collapse)</li> </ul>	
Section C: Antiplatelet/Anticoagulant Drugs	
1. Long-term aspirin at doses greater than 160mg per day (increased risk of bleeding, no	
evidence for increased efficacy).     2. Aspirin with a past history of peptic ulcer disease without concomitant PPI (risk of	
recurrent peptic ulcer ).  3. Aspirin, clopidagrel, dipyridamole, vitamin K antagonists, direct thrombin inhibitors or factor Xa inhibitors with concurrent significant bleeding risk, i.e. uncontrolled sewere typertension, bleeding disthesis, recent non-trivial spontaneous bleeding (high risk of	
bleeding).	
<ul> <li>4. Aspirin plus clopidogrel as secondary stroke prevention, unless the patient has a coronary stent(s) inserted in the previous 12 months or concurrent acute coronary syndrome or has a high grade symptomatic carotid arterial stenosis (no evidence of added benefit over clopidogrel monotherapy)</li> </ul>	
5. Aspirin in combination with vitamin K antagonist, direct thrombin inhibitor or factor Xa inhibitors in patients with chronic atrial fibrillation (no added benefit from aspirin)	

Section C: Antiplatelet/Anticoagulant Drugs Cont.	
<ul> <li>6. Antiplatelet agents with vitamin K antagonist, direct thrombin inhibitor or factor Xa inhibitors in patients with stable coronary, cerebrovascular or peripheral arterial disease (No added benefit from dual therapy).</li> </ul>	
7. Ticlopidine in any circumstances (clopidogrel and prasugrel have similar efficacy, stronger evidence and fewer side-effects).      8. Vitamin K antagonist (ident throughin inhibitor or factor Xa inhibitors for first deep	
<ul> <li>8. Vitamin K antagonist, direct thrombin inhibitor or factor Xa inhibitors for first deep venous thrombosis without continuing provoking risk factors (e.g. thrombophilia) for &gt; 6 months, (no proven added benefit).</li> <li>9. Vitamin K antagonist, direct thrombin inhibitor or factor Xa inhibitors for first</li> </ul>	
pulmonary embolus without continuing provoking risk factors (e.g. thrombophilia) for > 12 months (no proven added benefit).	
<ul> <li>10. NSAID and vitamin K antagonist, direct thrombin inhibitor or factor Xa inhibitors in combination (risk of major gastrointestinal bleeding).</li> <li>11. NSAID with concurrent antiplatelet agent(s) without PPI prophylaxis (increased risk of peptic ulcer disease)</li> </ul>	
peptic dicer disease)	
D. Central Nervous System and Psychotropic Drugs	
1. TriCyclic Antidepressants (TCA) with dementia, narrow angle glaucoma, cardiac conduction abnormalities, prostatism, or prior history of urinary retention (risk of worsening these conditions).	
<ul> <li>2. Initiation of TriCyclic Antidepressants (TCAs) as first-line antidepressant treatment (higher risk of adverse drug reactions with TCAs than with SSRIs or SNRIs).</li> </ul>	
<ul> <li>Neurolepits with moderate-marked antimuscarinic/anticholinergic effects (chiorpromazine, clozapine, flugenthiod, flughenzine, pipothiazine, promazine, zuclopenthiod) with a history of prostatism or previous urinary retention (high risk of urinary retention).</li> </ul>	
<ul> <li>4. Selective serotonin re-uptake inhibitors (SSRIs) with current or recent significant hyponatramia le. serum Na+ &lt; 130 mmol/l (risk of exacerbating or precipitating hyponatraemia).</li> <li>5. Benzodiazepines for 2 * weeks (no indication for longer treatment; risk of</li> </ul>	
<ul> <li>5. Benzodiazepines for 2 4 weeks (no indication for longer treatment; risk of prolonged sedation, confusion, impaired balance, falls, road traffic accidents; all benzodiazepines should be withdrawn gradually if taken for more than 4 weeks as there is a risk of causing a benzodiazepine withdrawal syndrome if stopped abruptly).</li> </ul>	
<ul> <li>6. Antipsychotics (i.e., other than quetiapine or clozapine) in those with parkinsonism or Lewy Body Dissase (risk of severe extra-yparmidal symptoms)</li> <li>7. Anticholinergics/partinuscarinics to treat extra-pyramidal side-effects of neuroleptic medications (risk of anticholinergic toxicity),</li> </ul>	
nearthree medications (state of anteriorine green energy)	
D. CNS/Psychotropic Cont.	
8. Anticholinergics/antimuscarinics in patients with delirium or dementia (risk of exacerbation of cognitive impairment).     9. Neuroleptic antipsychotic in patients with behavioural and psychological	
symptoms of dementia (BPSD) unless symptoms are severe and other non- pharmacological treatments have failed (increased risk of stroke).  10. Neuroleptica as hypnotics, unless sleep disorder is due to psychosis or dementa (risk of contuison, hypotension, extra-pyramidal side effects, falls).	
termenta (inst or comostor, impoterisor), exit a "pyramical since enects, isin).  11. Acetylcholinisetses inhibitors with a known history of persistent bradyardia (< trace) in the since of the since o	
2. A reliability and a second se	
efficacy)  14. First generation antihistamines (safer, less toxic antihistamines now widely available).	

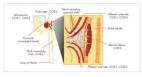
Section E: Renal System. The following drugs are potentially inappropriate in older people with acute or chronic kidney disease with renal function below particular levels of GGFR (refer to summary of product characteristics datasheets and local formulary

- guidelines)

  1. Digoxin at a long-term dose greater than 125µg/day if eGFR < 30 ml/min/1.73m2 (risk of digoxin toxicity if plasma levels not measured).
- 2. Direct thrombin inhibitors (e.g. dabigatran) if eGFR < 30 ml/min/1.73m2 (risk of bleeding)
- 3. Factor Xa inhibitors (e.g. rivaroxaban, apixaban) if eGFR
   15 ml/min/1.73m2 (risk of bleeding)

- Lam/min/1.73m2 (risk of bleeding)
   A. NSAID's ff eGFR < 50 ml/min/1.73m2 (risk of deterioration in renal function).</li>
   S. Colchicine if eGFR < 10 ml/min/1.73m2 (risk of colchicine toxicity)</li>
   Metformin if eGFR < 30 ml/min/1.73m2 (risk of lactic acidosis).</li>

FIGURE 5. Constitutive expression of COX-1 and COX-2 in the kidney.
Data from Nontal et al. FEBS Lett. 1999;457:675; Adopted with permission from Schnerman and Eriggs. J. Clin Invast. 1999;104:1007.





## F. Gastrointestinal System



- 1. Prochlorperazine or metoclopramide with Parkinsonism (risk of exacerbating Parkinsonian)
- 2. PPI for uncomplicated peptic ulcer disease or erosive peptic oesophagitis at full therapeutic dosage for > 8 weeks (dose reduction or earlier discontinuation indicated).
- •3. Drugs likely to cause constipation (e.g. antimacani miarchiolinergic drugs, oral iron, opioids, verapamil, aluminium antacids) in patients with chronic constipation where non-constipating alternatives are available (risk of exacerbation of constipation).
- 4. Oral elemental iron doses greater than 200 mg daily (e.g. ferrous fumarate> 600 mg/day, ferrous sulphate > 600 mg/day, ferrous gluconate> 1800 mg/day; no evidence of enhanced iron absorption above these doses).

54	
G. Respiratory System	
1. Theophylline as monotherapy for COPD (safer, more effective alternative; risk of adverse effects due to narrow therapeutic index).     2. Systemic corticosteroids instead of inhaled corticosteroids for	
<ul> <li>2. Systemic corticosteroids instead of inhaled corticosteroids for maintenance therapy in moderate-severe COPD (unnecessary exposure to long-term side-effects of systemic corticosteroids and effective inhaled therapies are available).</li> </ul>	
<ul> <li>3. Anti-muscarinic bronchodilators (e.g. ipratropium, tiotropium) with a history of narrow angle glaucoma (may exacerbate glaucoma) or bladder outflow obstruction (may cause urinary retention).</li> </ul>	
<ul> <li>4. Non-selective beta-blocker (whether oral or topical for glaucoma) with a history of asthma requiring treatment (risk of increased bronchospasm).</li> </ul>	
<ul> <li>5. Benzodiazepines with acute or chronic respiratory failure i.e. pO2     &lt; 8.0 kPa ± pCO2 &gt; 6.5 kPa (risk of exacerbation of respiratory failure).</li> </ul>	
<b>赤</b> 杰	
H. Musculoskeletal System	
<ol> <li>Non-steroidal anti-inflammatory drug (NSAID) other than COX-2 selective agents with high yor of pepticular disease paratriontischial Bedring, unless with normarine PRO of XI anagonist (risk.</li> <li>NSAID with severe typertension (risk of exacerbation of hypertension) or severe heart failure (risk of exacerbation of heart failure).</li> </ol>	
<ul> <li>3. Long-term use of NSAID (&gt;3 months) for symptom relief of osteoarthritis pain where paracetamol has not been tried (simple analgesics preferable and usually as effective for pain ratiof).</li> </ul>	
Long-term continuors code 0.2 months) as monotherapy for rheumatoid arthritis (risk of systemic corticosteroid dise-felts).     S. Conticosteroid (self-entral periodic intra-articular injections for mono-articular pain) for osteoarthrisis (risk of systemic corticosteroid dise-ffects).	
<ul> <li>6. Long-term MSAID or colcivion (&gt; 1x months) for chronic treatment of gout where there is no contramilication for a centime-codise; entire for get appropriate (becausally justime) modesse or contramilities of the propriate of each gouth.</li> <li>7. CDC selective MSAID, with concurrent entrodisecular disease (increased risk of myocardial inferction and strote).</li> </ul>	
8. NSAID with noncurrent corticosteroids without PPI prophylaxis (increased risk of peptic ulcer disease) 9. Oral bisphosphonates in patients with a current or recent history of upper gastrointestinal disease i.e. dysphaja, besophagitis, gastristis, doudentis, or peptic ulcer disease, or upper gastrointestinal bleeting (risk of relapse/pracertation of cookplast(s, esophagita) eutre, peosphagit stricture)	
<ol> <li>e. dyphnaga, o-expragint, gastrints, duodentis, or peptic uter disease, or upper gastrointestinal bleeding (risk of relapse/exacerbation of oesophagitis, oesophageal utec, oesophageal stricture)</li> </ol>	-
I. Urogenital System	
<ul> <li>1. Antimuscarinic drugs with dementia, or chronic cognitive impairment (risk of increased confusion, agitation) or narrow-angle</li> </ul>	
glaucoma (risk of acute exacerbation of glaucoma), or chronic prostatism (risk of urinary retention).	
<ul> <li>2. Selective alpha-1 selective alpha blockers in those with symptomatic orthostatic hypotension or micturition syncope (risk of precipitating recurrent syncope)</li> </ul>	

J.	Endocrine System
	1. Sulphonylureas with a glibenclamide, chlorprop



- Sulphonylureas with a long duration of action (e.g. glibenclamide, chlorpropamide, glimepiride) with type 2 diabetes mellitus (risk of prolonged hypoglycaemia).
- 2. Thiazolidenediones (e.g. rosiglitazone, pioglitazone) in patients with heart failure (risk of exacerbation of heart failure)
   3. Beta-blockers in diabetes mellitus with frequent hypoglycaemic episodes (risk of suppressing hypoglycaemic symptoms).

- 4. Oestrogens with a history of breast cancer or venous thromboembolism (increased risk of recurrence).
   5. Oral oestrogens without progestogen in patients with intact uterus (risk of endometrial cancer).
- 6. Androgens (male sex hormones) in the absence of primary or secondary hypogonadism (risk of androgen toxicity; no proven benefit outside of the hypogonadism indication).

Section K: Drugs that predictably inc	rease the risk
of falls in older people	* - 1

- 1. Benzodiazepines (sedative, may cause reduced sensorium, impair balance).
- 2. Neuroleptic drugs (may cause gait dyspraxia, Parkinsonism).
- 3. Vasodilator drugs (e.g. alpha-1 receptor blockers, calcium channel blockers, long-acting nitrates, ACE inhibitors, angiotensin I receptor blockers, with persistent postural hypotension i.e. recurrent drop in systolic blood pressure ≥ 20mmHg (risk of syncope, falls).
- 4. Hypnotic Z-drugs e.g. zopiclone, zolpidem, zaleplon (may cause protracted daytime sedation, ataxia).

## L. Analgesic Drugs

- 1. Use of oral or transdermal strong opioids (morphine, oxycodone, fentanyl, buprenorphine, diamorphine, methadone, tramadol, pethidine, pentazocine) as first line therapy for mild pain (WHO analgesic ladder not observed).
- 2. Use of regular (as distinct from PRN) opioids without concomitant laxative (risk of severe constipation).
- 3. Long-acting opioids without short-acting opioids for break-through pain (risk of persistence of severe

Section M: Antimuscarinic/Anticholinergic Drug	
Burden  Concomitant use of two or more drugs with	
antimuscarinic/anticholinergic properties (e.g. bladder antispasmodics, intestinal antispasmodics, tricyclic	
antidepressants, first generation antihistamines) (risk of increased antimuscarinic/anticholinergic toxicity)	
START Criteria	
Stant Citiena <u>S</u> creening <u>T</u> ool to <u>A</u> lert doctors to the <u>R</u> ight <u>T</u> reatment	
VERSION 2	
OMahony D, Galagher P, Ryan C, Byrne S, O'Corror M, O'Salwan D, STOPNSTART crieria for potentially responsible prescribing in older people: version 2. App. and Apoing 2016, 44(2):213-216. Published electronically 16 October 2014	
A. Cardiovascular System	
<ul> <li>1. Vitamin K antagonists or direct thrombin inhibitors or factor Xa inhibitors in presence of chronic atrial fibrillation.</li> </ul>	
2. Aspirin (75 mg – 180 mg once dally) in the presence of chronic atrial fibrillation, where Vitamin K antagonists or direct thrombin inhibitors or factor. X inhibitors are contraindicated. 3. Antiplatel therapy (aspirin or clopidogrel or prasugrel or ticagrelor) with a documented history of coronary, cerebral or peripheral vascular disease. 4. Antilitypertensive therapy where systolic blood pressure consistently – 160 mmlg and/or diastolic blood pressure consistently –90 mmlg; if systolic blood pressure > 140 mmlg and /or diastolic blood pressure > 90 mmlg; if diabetic. 5. Statin therapy with a documented history of coronary, cerebral or peripheral vascular disease, unless the patient's status's end-of-life or age is - 85 years. 6. Anglotensir Converting Enzymy (ACE) inhibitor with systolic heart failure and/or	
S. Angotelish Converting Enzyline (v.c.) immund with systom near trained another documented conony artery disease.     T. Beta-blocker with schaemic heart disease.     S. Appropriate beta-blocker (biosprotol, nebibvolo, metoprotol or carvediiol) with	
stable systolic heart failure.	

B. Res	piratory	System System
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- 1. Regular inhaled b2 agonist or antimuscarinic bronchodilator (e.g. ipratropium, tiotropium) for mild to moderate asthma or COPD.
- 2. Regular inhaled corticosteroid for moderate-severe asthma or COPD, where FEV1 <50% of predicted value and repeated exacerbations requiring treatment with oral corticosteroids.
- 3. Home continuous oxygen with documented chronic hypoxaemia (i.e. pO2 < 8.0 kPa or 60 mmHg or SaO2 <

C.	Central Nervous System and Eye	
С.	Central Nel Vous System and Lye	-

- 1. L-DOPA or a dopamine agonist in idiopathic Parkinson's disease with functional impairment and resultant disability.
   2. Non-TCA antidepressant drug in the presence of persistent major depressive symptoms.
- a. Acetylcholinesterase inhibitor (e.g. donepezil, rivastigmine, galantamine) for mild-moderate Alzheimer's dementia or Lewy Body dementia (rivastigmine).
- 4. Topical prostaglandin, prostamide or beta-blocker for primary open-angle glaucoma.
- S. Selective serotonin reuptake inhibitor (or SNRI or pregabalin if SSRI contraindicated) for persistent severe anxiety that interferes with independent functioning.
- 6. Dopamine agonist (ropinirole or pramipexole or rotigotine) for Restless Legs Syndrome, once iron deficiency and severe renal failure have been excluded.

## D. Gastrointestinal System



- 1. Proton Pump Inhibitor with severe gastrooesophageal reflux disease or peptic stricture requiring dilatation.
- 2. Fibre supplements (e.g. bran, ispaghula, methylcellulose, sterculia) for diverticulosis with a history of constipation.

3	3

E: N	1u	sculoskeletal System
		Disease-modifying anti-rheumatic drug rheumatoid disease.

- (DMARD) with ac
- 2. Bisphosphonates and vitamin D and calcium in patients taking long-term systemic corticosteroid therapy.
- systemic corticosteroid therapy.

  3. Vitamin D and calcium supplement in patients with known osteoporosis and/or prevous freighlity fracture(s) and/or (Bone Mineral Density T-scores more than -2.5 in multiple sites).

  4. Bone anti-resorptive or anabolic therapy (e.g. bisphosphonate, strontium ranelate, teriparatice, denosumab) in patients with documented osteoporosis, where no pharmacological or clinical status contraindication exists (Bone Mineral Density T-scores > 2.5 in multiple sites) and/or previous history of fragility fracture(s).

  5. Vitamin D supplement in older people who are housebound or experiencing falls or with osteopenia (Bone Mineral Density T-score is > -1.0 but < 2.5 in multiple sites).

  6. Xanthine-oxidase inhibitors (e.g. allopurinol, febuxostat) with a history of recurrent episodes of gout.

  7. Folic acid supplement in patients taking methotexate.

## F. Endocrine System



1. ACE inhibitor or Angiotensin Receptor Blocker (if intolerant of ACE inhibitor) in diabetes with evidence of renal disease i.e. dipstick proteinuria or microalbuminuria (>30mg/24 hours) with or without serum biochemical renal impairment.

## Section G: Urogenital System

- 1. Alpha-1 receptor blocker with symptomatic prostatism, where prostatectomy is not considered
- 2. 5-alpha reductase inhibitor with symptomatic prostatism, where prostatectomy is not considered necessary.
- 3. Topical vaginal oestrogen or vaginal oestrogen pessary for symptomatic atrophic vaginitis.

Section H: Analgesics	
<ul> <li>1. High-potency opioids in moderate-severe pain, where paracetamol, NSAIDs or low-potency opioids</li> </ul>	
are not appropriate to the pain severity or have been	
ineffective.	
<ul> <li>2. Laxatives in patients receiving opioids regularly.</li> </ul>	
Section I: Vaccines	
Section 1. vaccines	
1. Seasonal trivalent influenza vaccine annually	
<ul> <li>2. Pneumococcal vaccine at least once after age 65 according to national guidelines</li> </ul>	
national guidelines	
Appropriate prescribing in the elderly  1. Is there an indication for the drug?	
Is there an indication for the drug?      Is the medication effective for the condition?	
3. Is the dosage correct?	
Are the directions correct?  S. Are the directions practical?	
Are there clinically significant drug-drug interactions?	
7. Are there clinically significant drug-disease/condition interactions?	
8. Is there unnecessary duplication with other drugs?  9. Is the duration of therapy acceptable?	
<ol> <li>Is this drug the least expensive alternative compared with others of equal usefulness?</li> </ol>	
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LInToDate*	

A step-wise approach to reviewing medications for older adults	
order addities	
Approach	
Review current drug therapy  Discontinue potentially unnecessary therapy	
Consider adverse drug events as a potential cause for any new	
symptom	
Consider non-pharmacological approaches	
Substitute with safer alternatives	
Reduce the dose	
Use beneficial therapies when indicated	
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UpToDate*	
Things I see regularly like it's no big	
thingbut it IS!	
<ul> <li>Elderly frail patient with CHF and PAF on ACE-I at almost max dose, beta-</li> </ul>	
blocker, Anticoagulation, maybe a diuretic, all appropriate according to the	
EBM and "studies" and yet they can't walk because they're dizzy and their	
BP is 100/60. BUT, they're rate controlled, so there's that.	
PCP's prescribing drugs that require renal dosing in elderly patient's who	
haven't had a recent updated Cr or GFR calculation in yearse.g.	
nitrofurantoin, Bactrim (sulfa/Trimethoprim), Gabapentin, this list could go	
on forever.	
Initiating a benzo in a late-60ies or early 70ies widow for sleep trouble or	
anxiety but never actually stopping it or addressing the chronicity of the	
issue.	
More things that happen all the time	
wore things that happen all the time	
<ul> <li>People 75 and up on anti-hypertensives, and taking NSAIDs.</li> </ul>	
Patients on medications that require close monitoring (digoxin,	
coumadin, etc) but not being monitored closely.	
<ul> <li>Large Anticholinergic burden of medications, new complaint of cognitive issues (or constipation, or dizziness or dry mouth), and</li> </ul>	
rather than first looking to meds as possible issue, cascade of tests	
and costly diagnostics is initiated.	
Tramadol use in people with CKD or in patients with hx of Seizure or  made that lower saigure threshold.	
meds that lower seizure threshold.	
Specialists starting atorvastatin or rosuvastatin in patients 85+ yrs	

Things I see in West TV Nursing Home /AL 22	
Things I see in West TX Nursing Home/AL - ??	
Leaving elderly patients on ISS during skilled rehab     Treating type II diabetes with ISS and mealtime insulin with no basal acting	
• Serotonin Syndrome – have seen it at least 5 times and I've only lived	
in West TX for 2.5 years. – due to addition of things like buspar, haldol, trazodone, tramadol, etc etc without taking away the meds that aren't working.	
<ul> <li>Non EBM – patients with CHF not on ACE-I or documentation for why not, reckless use of reglan (honestly unless the patient is on hospice DO NOT USE IT IN THE ELDERLY)</li> </ul>	
Final note to the Nurse Practitioners	
<ul> <li>It is you who will be doing the brunt work of Geriatric care, particularly in the AL setting and the LTC setting.</li> </ul>	
<ul> <li>Find a physician to work under who you can trust, who doesn't only care about volume and money, and who is responsive to you when</li> </ul>	
you ask their opinion.  • DO NOT QUESTION YOURSELF WHEN QUESTIONING A PHYSICIAN	
SPECIALIST IF YOU ARE THE PCP!!!! – Often specialists don't look at the big picture, as a PCP you must. You can politely decline their	
recommendations because you likely know your patient better, their history and their goals.	
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