DEPRESCRIBING IN THE ELDERLY



GERIATRICS REFRESHER DAY WEDNESDAY, APRIL 5TH, 2017 VÉRONIQUE FRENCH MERKLEY, MD, CCFP(COE) BRUYÈRE CONTINUING CARE

DISCLOSURES

I have no conflicts of interest to declare.



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DEPRESCRIBING (WWW.DEPRESCRIBING.ORG)

"The planned and supervised process of dose reduction or stopping of medication that may be causing harm or no longer be of benefit. The goal of deprescribing is to reduce medication burden and harm, while maintaining or improving quality of life."

"Deprescribing is part of good prescribing – backing off when doses are too high, or stopping medications that are no longer needed."

LEARNING OBJECTIVES

- 1. Identify factors that motivate deprescribing.
- 2. Work through a case that illustrates the development of a deprescribing plan.
- 3. Review simple strategies that can help to make deprescribing changes "stick".
- 4. List key resources for future reference.

SYSTEM FACTORS DRIVING DEPRESCRIBING

- Rising medication costs (CIHI 2008; 6 provinces)
 - One billion from publicly funded programs (17.4% of health care spending)
- Increased health care utilization
 - Adverse drug events account for 10-17% of elderly patient hospital admissions; as many as 75% are preventable
 - > 1 in 9 ER visits due to drug-related adverse events
 - Those with adverse drug reactions incur more health services

DEPRESCRIBING TRIGGERS FOR HEALTH CARE PROVIDERS

- Identification of high-risk medications
 - Beers criteria, STOPP/START criteria
- Medications contributing to geriatric syndromes such as cognitive impairment, falls etc.
- Prescribing cascades
- Multiple medications (sometimes > 25)

PATIENT MOTIVATORS FOR ENGAGING IN DEPRESCRIBING

- Feeling frustrated about taking too many pills...and still not feeling well
- Seeing their health and well-being priorities acknowledged
- Having the opportunity to discuss the HCP's concerns about their medications
- Feeling empowered to participate in setting the deprescribing agenda going forward



CHALLENGES: MULTIMORBIDITY AND POLYPHARMACY

- Prevalence of chronic illness increases with age:
 - 65-69: men 35%, women 45%
 - 80 yrs +: men 53%, women 70%
- As comorbidities accumulate, management becomes more challenging:
 - "Guideline Gridlock"
- One comorbidity can increase the risk of another
 - e.g. dementia and delirium
- More specialists involved = competing priorities and risk for miscommunication
- Patient's priorities often lost

CHALLENGES: NON-ADHERENCE

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Intentional: Too many! Why bother?

Nonintentional: Too complex!
 Forgets....

THE CASE OF MRS. A.

- 84 yr old widow, living alone
- Severe knee pain limiting mobility
- Often confused, unable to get out of bed
- 3 falls in the last year
- Doesn't want to go out anymore
- Children think she should no longer be living alone
- Referred to the Geriatric Day Hospital by her family physician

MRS. A.'S MEDICATION LIST In dosette:

- Ibuprofen 400mg twice daily
- Lorazepam 1mg at bedtime
- Warfarin daily as directed
- Metoprolol 50mg twice daily
- Ramipril 5mg daily
- Furosemide 40mg twice daily
- Atorvastatin 40mg daily
- Lansoprazole 30mg daily
- Oxybutynin XL 10mg daily
- Vitamin B12 1200mcg daily
- Slow-K (potassium) daily
- Calcium/Vitamin D twice daily

Not in dosette:

- ASA 81mg daily
- Dimenhydrinate 50mg at bedtime
- Lakota capsules four times daily
- Dextromethorphan syrup at bedtime

IDENTIFYING MEDS TO BE TARGETED

Explicit approaches

- Screening criteria such as Beers, STOPP/START
- Many limitations:
 - Do not capture all drug-related problems and prescribing cascades
 - May inadvertently identify a useful medication as potentially inappropriate
 - Have limited evidence for reducing morbidity, ADR's, ER visits, mortality
 - Are not patient-specific

Implicit approaches 😳

- Assess each medication for indication, effectiveness, safety, compliance
- Always ask: "Could this be caused by a drug?"



MRS. A.'S MEDICATION HISTORY



MRS. A'S PRESCRIBING WEB



MRS. A'S DRUG-RELATED PROBLEMS

(*NOT CAUGHT BY SCREENING)

- 1. high risk of bleeding secondary to combination of warfarin, ASA, ibuprofen and Lakota (has easy bruising and some gum bleeding)
- 2. states no longer having benefit from ibuprofen for **knee pain**; may be contributing to her hypertension and bleeding risk with warfarin; patient willing to try regular acetaminophen instead*
- 3. high blood pressure may improve with stopping ibuprofen, in which case (and in order to minimize orthostatic hypotension and ankle swelling), she may no longer need amlodipine*
- 4. if **ankle swelling** improves with stopping amlodipine, consider tapering furosemide (which may also help with OH)*
- 5. if we taper furosemide, try to stop potassium (at risk of hyperkalemia because of ramipril)*
- 6. once ibuprofen, ASA and Lakota stopped, will not likely require ongoing lansoprazole as she does not describe a history of either heartburn or ulcer*
- cough may be due to ramipril and her use of dextromethorphan is likely contributing to confusion and falls*
- 8. high dose and frequent use of dimenhydrinate may be contributing to fatigue and fall risk*
- 9. periodic nausea may be due to potassium*
- 10. urinary urgency and incontinence may be contributed to by high dose of furosemide and by taking the furosemide in the evening*
- 11. dry mouth may improve with a lower dose of oxybutynin*
- 12. risk of falls and morning fatigue are likely contributed to by lorazepam

STRATEGIC (DE)PRESCRIBING FOR MRS. A.

- Start with medications with:
 - Risk of harm with no known benefit
 - Indication but unknown/minimal benefit
 - Benefit but side effect or safety issues
 - *** involve the patient in choosing where to start
- Adapt guidelines for the frail elderly

E.g. appropriate BP targets

- Use combination pills when possible
- Reduce medication-taking frequency
 - Aim for daily or bid dosing if possible

- Unclear/no indication
- Little chance of ADWE

MRS. A.'S GDH INTERVENTIONS



MRS. A.'S GDH INTERVENTIONS

- Stop amlodipine
- Increase acetaminophen dose
- Start lorazepam taper
- Provide sleep hygiene education

Week 4

Week 5

- Switch acetaminophen to small dose hydromorphone
- Taper ramipril
- Start furosemide taper
- Add lactulose

- Stop ramipril
- Stop furosemide
- Stop potassium
- Taper oxybutynin



MRS. A.'S GDH INTERVENTIONS



AFTER A 10-WEEK GDH ADMISSION:

- Mrs. A's medications
 - Hydromorphone 0.5mg q12h
 - Hydrochlorothiazide 12.5mg daily
 - Bisoprolol 2.5mg daily
 - Warfarin as directed
 - Caltrate Select with vitamin D twice daily
 - Lactulose 15ml daily

- Mrs. A's life
 - Knee pain improved
 - Getting out of house now
 - Urgency and nocturia better (up 1-2 x/night)
 - Sleep improved (to bed 10pm, up about 7am)
 - Meal times normal (8, 12, 6)
 - Bruising/gum bleeding gone
 - No heartburn, nausea, cough or swollen ankles



STRATEGIES TO HELP DEPRESCRIBING "STICK"

- Involve the patient/family in decisions and monitoring
- Be up front about how long ADWE's can last
- Work with team members to trial non-drug approaches
- Follow up and document progress
- Communicate clearly with other involved HCP's
 - Especially the community pharmacist
- Use a variety of educational media
 - Verbal, written handouts, medication logs to organize info
- Empower patients to avoid future problems

HELPING DEPRESCRIBING "STICK": THE SPEEDIMEMO

DATE	URGENT	RÉPONSE DEMANDÉE REPLY REQUIRED	RÉPONSE NON-NÉCESSAIRE NO REPLY REQUIRED
ENVOYER À I SEMD TO		SERVICE I DEPARTMENT	
Dr. V. French Merkl Extentionary Geria Kic Day Hospital Service/Department	CY HSV Hda SVH Dah	OBJET I SUBJECT MIS P.	
MESSAGE Dear Doctor,			CONTRACTOR OF THE CASE OF THE OWNER
Mrs P is curr midst of reviewi I have a few que	ng ver m estions fi	heds. With H	nis in mind,
() She routinely form			has not had
Could we stop it (2) Medication comp	n pliance is	a challenge,	50 to simplify
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HELPING DEPRESCRIBING "STICK": A DIFFERENT RX

Pharmacie / Pharmacy	Télécopieur / Fax:			
FYI Dr	Télécopieur / Fax:			
	Télécopieur / Fax:			
ORDONNANCE PRESCRIPTION	Date			
Mrs. P				
15 mg po daily, * 1 m will improve complia 3 Decrease furosemid weeks (doses later k all of these changes hav Refit fois tous les jour Refit fois tous les jour aday Bervice / Department: Hôpital do jour / by Hospital 43, ne Bruyer St.	be) tead start rivaroxaban nonth (once daily dosing ance) le to borng po qam,*2 in the day trigger nactur ve been reviewed & appro by the pt's cardiologist			
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ABOUT WHAT IS DEPRESCRIBING? CADEN RESEARCH RESOURCES NEWS GET INVOLVED

Helpful Links

Explore these links to find free deprescribing websites and resources. Please note that the links found on this page are not endorsed by deprescribing.org/CaDeN unless otherwise stated. The Helpful Links are listed here as they may address gaps in evidence that deprescribing.org and its affiliates have yet to fill.

5 Questions to Ask About Your Medications

The Institute for Safe Medication Practices Canada suggests five questions to ask your health provider about your medications, especially if you are on a number of drugs.

RxISK

This drug safety website provides resources and access to data on prescription drugs you can't get anywhere else. It includes questions to ask before you take a medication, a side effects checker, a drug interaction checker, and a self-quiz to find out if you may be on too many drugs. You can also look up drugs and safety information and report a side effect.

Therapeutics Letter (Reducing Polypharmacy: A Logical Approach)

This letter discusses the issues around elders who are on a multitude of drugs and suggests that medication regimes should be challenged routinely. Logical approaches to working with this problem are suggested.

In this section

Deprescribing Algorithms

Deprescribing Information Pamphlets

Deprescribing Patient Decision Aids

Helpful Links

Patient and Clinician Stories

Publications



NEW ONLINE MODULE

HTTP://WWW.BRUYERE.ORG/EN/POLYPHARMACY-DEPRESCRIBING

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Home > Quality of Care and Patient Safety Modules > Polypharmacy and Deprescribing

Education

- > Education at Bruyère
- Continuing Education
- Quality of Care and Patient Safety Modules
- How to Use MEDITECH
 Common Infections
- Creating Effective Consultation

Letters

- > Advance Care Planning
- Cognitive Impairment and Driving
- > End-of-Life Care
- > Family Conferences
- Polypharmacy and Deprescribing
- > Resources

Polypharmacy and Deprescribing

This module will help improve your understanding of polypharmacy and provide you with an approach for deprescribing. You will learn how polypharmacy develops over time, as well as how to recognize common drug-induced symptoms and prescribing cascades. Throughout the module you will apply an approach for deprescribing to a fictional case.

Module

We recommend using either Internet Explorer or Safari web browsers on a PC or Mac. This module is not compatible with Firefox.

> Polypharmacy and Deprescribing

Contact the Learning and Development Team at learning@bruyere.org to request the script for the above modules.

MEDSTOPPER

medstopper.com



MedStopper is a deprescribing resource for healthcare professionals and their patients.

- Frail elderly?
- 2 Generic or Brand Name:
- hydro
- 3 Select Condition Treated:

Q

Generic Name Brand Name Condition Treated Add to MedStoppe dihydroergotamine DHE 45 Select Condition ADD hydrochlorothiazide Microzide blood pressure 0 ADD Vicodin hydrocodone Select Condition ٢ ADD ADD hydrocortisone Select Condition 0

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Previous Next

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Arrange medications by: Stopping Priority								
	Stopping Priority RED=Highest GREEN=Lowest	Medication/ Category/ Condition	May Improve Symptoms?	May Reduce Risk for Future Illness?	May Cause Harm?	Suggested Taper Approach	Possible Symptoms when Stopping or Tapering	Beers/ STOPP Criteria
		fluoxetine (Prozac) / SSRI / depression	:	:0	:0	If used daily for more than 3-4 weeks. Reduce dose by 25% every week (i.e. week 1-75%, week 2-50%, week 3-25%) and this can be extended or decreased (10% dose reductions) if needed. if intolerable withdrawal symptoms courc (usually 1-3 days after a dose change), go back to the previously tolerated dose until symptoms resolve and plan for a more gradual taper with the patient. Dose reduction may need to slow down as one gets to smaller doses (i.e. 25% of the original dose). Corrall, the rate of discontinuation needs to be controlled by the person taking the medication.	nausea, diarrhea, abdominal pain, sweating, headache, dizziness, cold and flu- like symptoms, anxiety, irritability, trouble sensory experiences (e.g. electric shock-like feelings, visual after images), sound and light sensitivity, muscle aches and pains, chills, confusion, pounding heart (palpitations), unusual movements, agitation, distress, agitation, distress, satiston, distress, suicidal ideation	Details
		hydrochlorothiazide (Microzide) / Thiazide / blood pressure	<u>(;)</u>		:	If used daily for more than 3-4 weeks. Reduce dose by 50% every 1 to 2 weeks. Once at 25% of the original dose and no withdrawal symptoms have been seen, stop the drug, If any withdrawal symptoms occur, go back to approximately 75% of the previously tolerated dose.	chest pain, pounding heart, heart rate, blood pressure (re-measure for up to 6 months), anxiety, tremor	Details
		levothyroxine (Synthroid, Levoxyl , Levothroid) / Thyroid / hypothyroid with symptoms	(:)	::	\odot	Taper based on TSH and symptoms	return of hypothyroid symptoms (tiredness, weakness, weight gain, hair loss, constipation, depression, coarse dry hair, hair loss)	None
×		psyllium (Metamucil) / Constipation / constipation	\odot	::	\odot	If used daily for more than 3-4 weeks. Reduce dose by 50% of the original dose and no withdrawal symptoms have been seen, stop the drug. If any withdrawal symptoms occur, go back to approximately 75% of the previously tolerated dose.	return of gastrointestinal symptoms	None

MedStopper Plan

