

Drugs and Seniors Municipal Drug Strategy Network Day



24 February 2017
Sara Rosaline Lavoratore BSc Phm ACPR CGP RPh
Primary Care Pharmacist
Rideau Community Health Services



the original disease to the side effects."

Overview

- Practical medication safety tips for everyone
- The paradox in prescribing to the elderly
- Inappropriate prescribing in older adults
 - A focus on sleeping pills

Helpful Tips

- Use one community pharmacy
- Bring a medication list with you!
 - Pharmacy print out doesn't cut it

Medical Expense Report - Confidential

Canceled orders and orders that are still being processed are not included.

Report Date Range Jan 1, 2016 through May 2, 2016 Created on: May 02, 2016

Dashboard3 Dtest 6273 marguerite dr Newark, CA 94560



Date Filled/ Date Written	Prescription/ Store Number	Drug Name/ National Drug Code	Prescriber	Quantity/ Refill #	Days Supply	Dispense as Written	Patient Paid
02/08/2016	8803320/ 9062	Advanced Formula De Tab/ 41280020031	ABAD JOHN PHILAMER	30/1	30	0	\$999.76
02/08/2016	8803319/ 9062	Advanced Formula De Tab/ 41280020031	ABAD JOHN PHILAMER	30/1	30	0	\$999.76
02/08/2016	8803318/ 9062	Advanced Formula De Tab/ 41280020031	ABAD JOHN PHILAMER	30/1	30	0	\$999.76

\$2999.28

Pharmacies visited

Helpful Tips

- Ask about medication changes at each visit
- Record allergies and intolerances
 - Know reaction/intolerance experienced
- Lock up medications at home, especially narcotics, sedatives and hypnotics
- Return un-used medications to the pharmacy for safe disposal

Helpful Tips

- Ask if over the counter medicine is safe for you
- Sharing medications, especially opioids, sedatives and hypnotics, can be deadly
- Know what "take as needed" or "take as directed" means

5

ABOUT YOUR MEDICATIONS

when you see your doctor, nurse, or pharmacist.

1. CHANGES?

Have any medications been added, stopped or changed, and why?



What medications do I need to keep taking, and why?

3. PROPER USE?

How do I take my medications, and for how long?

4. MONITOR?

How will I know if my medication is working, and what side effects do I watch for?

5. FOLLOW-UP?

Do I need any tests and when do I book my next visit?



Remember to include:

- drug allergies
- vitamins and minerals
- herbal/natural products
- all medications including non-prescription products

Ask your doctor, nurse or pharmacist to review all your medications to see if any can be stopped or reduced.





Visit safemedicationuse.ca for more information.









C.2016 HMP Caract

Drugs and Seniors

THE GLOBE AND MAIL*



The recently released reports,

The records show 22 such inci one was medication administe Dr. Rachel Morehouse, a psychiatrist and the medical director at Saint John Regional Hospital's Atlantic Sleep Centre in New Brunswick. for The Globe and Mail

The dangers of sleeping pills for seniors

NAMES CARR

Published Thursday, Aug. 20, 2015 05:00AM EDT Last updated Thursday, Aug. 20, 2015 10:48AM EDT

This is the second of a nine-part print and online series looking at the science of sleep and the vital role of sleep in maintaining overall health.

"There's a reason no one ever wakes up after a restful night in bed and says: "I slept like a senior citizen."

As people age, their ability to get a good night's sleep becomes more elusive. And, to add insult to injury, those who might have reached for a sleeping pill to get through the night when they were younger are no longer good candidates for doing so after age 65 or 70.

t year.

ong time and

Paradox in prescribing for the elderly

- Seniors (65+) comprise 15% of the population,
 and consume nearly a third of all drugs
- Aging impairs the way the body handles drugs



Paradox in prescribing for the elderly

Aging impairs the way the body handles drugs



Paradox in prescribing for the elderly

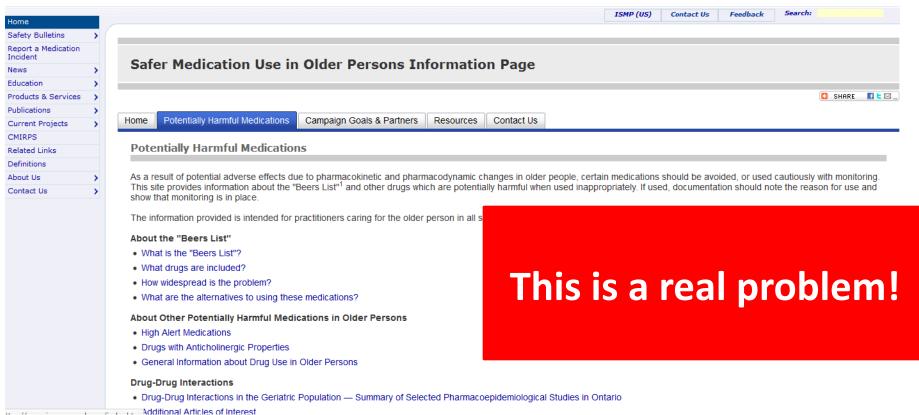
- Elderly are commonly under represented in clinical trials.
- "Old" patients in clinical trials tend to be in their early 60s and in quite good health.
- "Old old" are a messy lot for clinical trials
 - More likely to be taking interacting drugs
 - More likely to have multiple medical problems
 - More likely to die or suffer serious adverse effect

Inappropriate prescribing



Institute for Safe Medication Practices Canada

A Key Partner in the Canadian Medication Incident Reporting and Prevention System (CMIRPS)



Inappropriate prescriptions

CMAJ OPEN

Research

Research

Frequency and cost of potentially inappropriate prescribing for older adults: a cross-sectional study

Steven G. Morgan PhD, Jordan Hunt MA, Jocelyn Rioux BSc, Jeffery Proulx BSc, Deirdre Weymann MA, Cara Tannenbaum MD MSc

Inappropriate prescriptions



Research

Table 1: Proportion of provincial drug plan enrollees aged 65 years or more who filled	1 1 or more potentially inappropriate
prescription* in 2013, by province, sex and age group	

	Provident and American	Age, yr; no. (%) of enrollees								
Province	Population (%) aged ≥ 65 yr covered by NPDUIS database	Women			Men					
		65-74	75-84	≥ 85	All ages	65-74	75-84	≥ 85	All ages	Overall
British Columbia	769 993	89 636	57 288	34 735	181 659	58 678	39 299	16 049	114 026	295 685
	(89.0)	(41.5)	(44.6)	(50.1)	(43.9)	(28.8)	(34.5)	(41.2)	(32.0)	(38.4)
Alberta	411 322	54 514	34 388	16 304	105 206	33 675	21 163	7 267	62 105	167 311
	(91.7)	(46.5)	(47.6)	(47.0)	(46.9)	(31.5)	(35.0)	(37.0)	(33.2)	(40.7)
Saskatchewan	149 505	14 672	11 764	8 762	35 198	9 455	7 166	3 246	19 867	55 065
	(93.5)	(39.4)	(42.8)	(46.9)	(42.2)	(27.0)	(32.5)	(35.9)	(30.1)	(36.8)
Manitoba	171 195 (93.8)	19 942 (43 3)	13 606 (44 8)	9 209	42 757 (44 4)	12 905 (30 8)	8 353 (35 M)	3 501 (38 1)	24 759 (33 0)	67 516 (39 4)
Ontario	1 971 856	200 391	152 241	89 780	442 412	128 933	96 492	39 125	264 550	706 962
	(95.9)	(36.7)	(43.0)	(46.1)	(40.4)	(26.2)	(33.8)	(38.9)	(30.2)	(35.8)
New Brunswick	73 482	10 650	6 236	5 969	24 857	6 591	4 689	1 690	12 970	37 827
	(55.2)	(55.3)	(57.3)	(61.0)	(57.2)	(40.6)	(44.6)	(50.9)	(43.1)	(51.5)
Nova Scotia	112 780	15 000	10 303	6 559	31 862	10 039	6 539	2 013	18 591	50 453
	(67.5)	(47.0)	(49.0)	(49.7)	(48.2)	(373)	(42.8)	(45.3)	(39.9)	(44.7)
Prince Edward	23 051	2 208	1 393 (34.6)	784	4 385	1 324	813	199	2 336	6 721
Island	(91.8)	(33.6)		(36.8)	(34.5)	(21.5)	(25.0)	(21.9)	(22.6)	(29.2)
Newfoundland	49 310	7 658	5 787	3 153	16 598	5 383	3 762	1 097	10 242	26 840
and Labrador	(54.9)	(56.0)	(58.0)	(60.1)	(57.4)	(48.5)	(51.8)	(53.5)	(50.2)	(54.4)
All high-data- coverage provinces†	3 496 922 (92.6)	381 363 (39.4)	270 680 (43.9)	159 574 (47.0)	811 617 (42.2)	244 970 (27.7)	173 286 (34.1)	69 387 (38.9)	487 643 (31.0)	1 299 260 (37.2)

Note: NPDUIS - National Prescription Drug Utilization Information System.

^{*}All prescriptions meeting the Beers Criteria based on drug, dosage and duration.*

[†]Provinces in which at least 85% of the population aged 65 years or more is covered by the NPDUIS database: British Columbia, Alberta, Saskatchewan, Manitoba, Ontario and Prince Edward Island.

Inappropriate prescriptions

l	Table 3: Proportion of enrollees who filled 1 or more potentially inappropriate prescription
I	for the 20 most frequently used drugs on the Beers list and estimated average per-capita
I	cost, by sex

	% of enrollees who filled ≥ 1 potentially inappropriate prescription			Estimated average per-capita cost of potentially inappropriate prescriptions, \$			
Drug	Women	Women Men Overall V		Women	Men	Overall	
Lorazepam	11.0	6.1	8.8	6.95	3.46	5.40	
Nitrolatamoin	8.3	1.9	5.5	3.23	0.75	2.13	
Amitriptyline	3.9	2.0	3.1	4.12	1.85	3.11	
Quetiapine	2.8	2.2	2.5	8.24	5.95	7.22	
Clonazepam	3.0	1.9 1.9	2.5 2.4	3.02 5.25	1.82 3.50	2.49 4.47	
Zopiclone	2.9						
Conjugated estrogens	4.2	0.0	2.4	3.71		2.06	
Glibendamide	1.7	2.7	2.2	1.80	2.52	2.12	
Indomethacin	0.7	2.6	1.6	0.30	1.09	0.65	
Terazosin	0.4	2.9	1.5	0.82	5.04	2.70	
Oxazepam	1.8	1.1	1.5	1.61	0.84	1.27	
Risperidone	1.6	1.1	1.4	5.48	3.64	4.66	
Estradiol	2.6	0.0	1.4	5.95		3.31	
Temazepam	1.6	1.2	1.4	1.41	0.96	1.21	
Metoclopramide	1.3	1.0	1.2	0.65	0.45	0.56	
Amiodarone	0.7	1.1	0.9	1.41	2.26	1,79	
Meloxicam	1.1	0.6	0.9	1.65	0.93	1.33	
Cyclobenzaprine	1.0	0.9	0.9	0.54	0.40	0.48	
Diclofenac, combinations	0.8	0.8	0.8	3.98	3.59	3.80	
Alprazolam	1.1	0.6	0.8	0.96	0.49	0.75	

Most common inappropriate medication was lorazepam.



If you're worried about taking so many tablets I could prescribe you some valium...

- Mr. AB (76 years of age) comes to see his provider.
- His wife recently passed away, and he can't sleep at night.
- He has anxiety, racing thoughts, and tremendous sadness.
- A sedative-hypnotic, lorazepam, is prescribed.
- He is counseled about the risks, but it is unlikely he takes much of this in.
- A month later, he is back asking for more pills.

Pop culture love benzos





Eminem; My Mom

"My mom loves valium and lots of drugs
That's why I am like I am 'cause I'm like her
Because my mom loved valium and lots of drugs
That's why I'm on what I'm on 'cause I'm my mom"

Salt-N-Pepa; **Santa Baby**"Slip a benzo under the tree for me
A 98 convertible, light blue"

A bit about benzodiazepines

- Large group of drugs. . .
 - Lorazepam (Ativan®), diazepam (Valium®), clonazepam
- Multiple approved and off label uses
 - Sleep disorders, seizure disorders, anxiety, alcohol withdrawal, muscle relaxant, etc.
- Rapid efficacy (within minutes)
- Withdrawal appears to be very difficult
 - Difficult to ascertain reappearance of anxiety or withdrawal symptoms

Journal List > BMJ > v.349; 2014 > PMC4159609



BMJ. 2014; 349: g5205.

Published online 2014 Sep 9. doi: 10.1136/bmj.q5205

PMCID: PMC4159609

Benzodiazepine use and risk of Alzheimer's disease: case-control study

<u>Sophie Billioti de Gage</u>, PhD student, ¹ <u>Yola Moride</u>, professor, ^{2,3} <u>Thierry Ducruet</u>, researcher, ² <u>Tobias Kurth</u>, director of research, ^{4,5} <u>Hélène Verdoux</u>, professor, ^{1,6} <u>Marie Tournier</u>, associate professor, ¹ and Bernard Bégaud, professor ¹

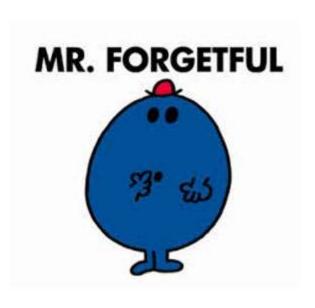
<u>Author information</u> ► <u>Article notes</u> ► <u>Copyright and License information</u> ►

This article has been cited by other articles in PMC.

Š







Managing Insomnia & Benzodiazepines

- Cognitive behavioural therapy targeted at insomnia is effective.
 - Do not assume that older people cannot engage in therapy.
- Work with your doctor and pharmacist to help taper off benzodiazepines.
 - No matter how rushed health care providers may seem, it is in everyone's best interest to find healthier ways to deal with insomnia.

Healthy Sleep Hygiene

BEFORE BEDTIME



Avoid caffeine, nicotine and alcohol before bedtime



Avoid heavy meals within two hours of bedtime



Avoid energetic exercise within three hours of bedtime

SETTING READY TO SLEEP



Develop a bedtime ritual so that your body knows you are getting ready to go to sleep



Reduce extreme light, temperature, and noise in your bedroom



Include an hour of quiet time before bed such as reading, watching TV or listening to music

SLEEP TIME



Keep your sleep regular
– same bedtime,
same rise time.
Aim for 8 hours
of sleep each night.



Bedrooms are <u>ONLY</u> for sleep and sex How many screens do you have in your bedroom?



If you can't sleep after 20 minutes, get up and do something boring until you feel tired, then try again.

Remember everyone has nights where they can't sleep.

The more you worry, the worse this worry can become.

If you are concerned about your sleep contact your family doctor.



Sleep Disordered Breathing Unit Respiratory Services



Questions?



Email: slavoratore@rideauchs.ca