

 **Polypharmacy And Deprescribing**



Sonal Shah (PharmD)  
UHC C&S TX/OK Director Clinical Pharmacy

United Healthcare

1

---

---

---

---

---

---

---

---

**Disclosure :**

I have no actual or potential conflict of interest in relation to any product or service mentioned in this program or presentation.

2

2

---

---

---

---

---

---

---

---

**Objectives**

- Define Polypharmacy
- Discuss risk factors
- Discuss tools for polypharmacy screening
- Define Deprescribing
- Discuss techniques for deprescribing and reduce polypharmacy
- Conclusion/Questions

3

---

---

---

---

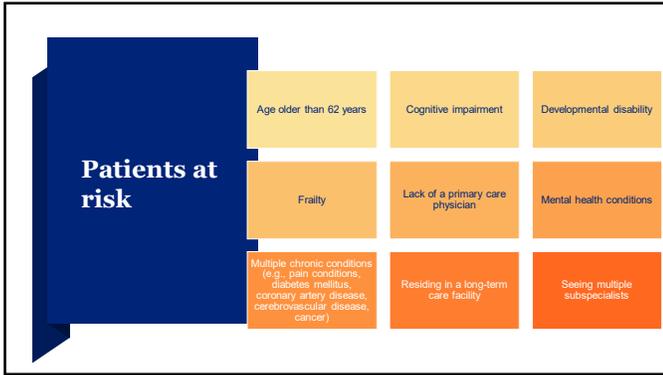
---

---

---

---





7

---

---

---

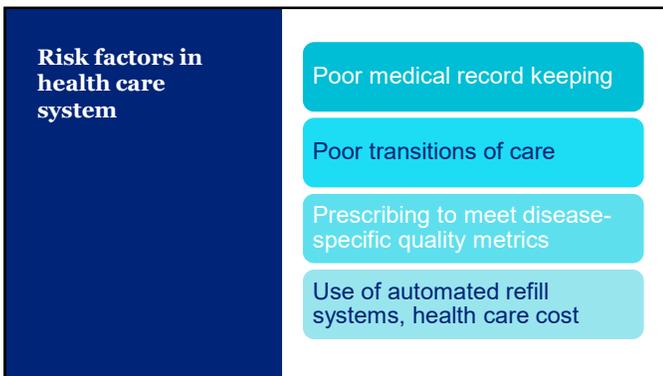
---

---

---

---

---



8

---

---

---

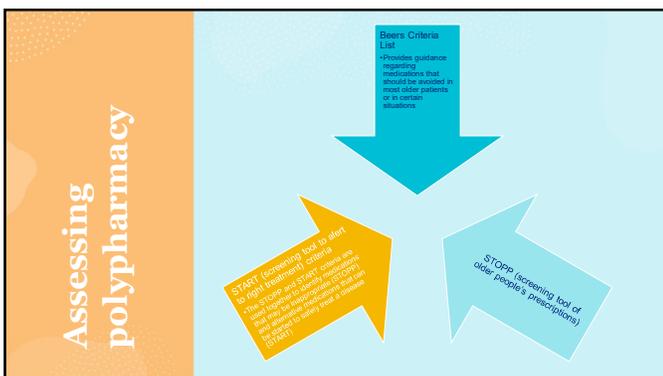
---

---

---

---

---



9

---

---

---

---

---

---

---

---



### Best Practices for Polypharmacy

- Member education about bringing all medications to their providers at each doctor's appointment and to ask for active med list to ensure patients are taking active/ most current medications
- Offer /assist the members to discuss concerns related to medications with the providers.



13

---

---

---

---

---

---

---

---

### Tips for Managing Polypharmacy

- Keep an accurate, updated list of your prescribed medications.**  
Ask each clinician you visit to review your list.
- Inform your doctor of any supplements, herbal products, and over-the-counter medications you are taking.**
- Understand why you are taking each of your medications.**  
Be aware of what side effects to look out for.
- Discuss ways to simplify your medication regimen with your doctor.**  
Ask if you can discontinue any medications.
- Take all medications as prescribed.**  
Do not suddenly stop taking any prescribed medication.



14

---

---

---

---

---

---

---

---

### Resources for Deprescribing

Resource	Comments
Beer's Criteria	List of medications that pose the highest risk to older adults, as well as alternatives
Bruyère Research Institute and the Canadian Deprescribing Network	Guidelines, shared decision-making aids, up-to-date research, and algorithms for discontinuing proton pump inhibitors, antihyperglycemics, antipsychotics, benzodiazepines, cholinesterase inhibitors, and memantine (Namenda)
Electronic health records, such as Epic or NextGen	Auto discontinuation of expired medications, which may help reduce polypharmacy
Epocrates, Micromedex	Check for drug-drug or drug-herbal interactions
MedStopper	Allows users to enter a medication list and receive recommendations regarding which medications might be discontinued or switched

\* Hall-Teremy, A., Scatenaugh, C., & Carroll, D. G. (2018, July 1). Polypharmacy: Evaluating Risks and Deprescribing. American Family Physician. <https://www.aafp.org/pubs/afp/issues/101/10/1332.html>

15

---

---

---

---

---

---

---

---

### Case Study : Ms. Linda

- Linda is aged 64 years and has multiple health problems, struggling daily with mobility and pain. She lives at home with her husband, who assists her with daily tasks, and enjoys looking after her grandchildren.
- Linda is attending the pharmacist-led polypharmacy clinic at her GP surgery in Fife for the first time and the systematic approach outlined in Box 1 is used during the consultation with her.
- Presuming that she is taking her medicines as listed on the patient medical history should be avoided. In advance, ask her to bring her medicines to her appointment. Before the consultation, you could also post her a copy of the 'Me and my Medicines' charter — a way of encouraging conversation around medicines between the patient and healthcare professional — to support shared discussions<sup>14</sup>.

• The Pharmaceutical Journal, Medicines optimization , 2019

16

---

---

---

---

---

---

---

---

---

---

Table 1: Summary of the patient's history and baseline laboratory values

Past medical history	Drug history	Baseline values
<ul style="list-style-type: none"> <li>•Hypertension</li> <li>•Osteoarthritis of the knee</li> <li>•Acne rosacea</li> <li>•Depression</li> <li>•Cervical spondylosis</li> </ul>	<ul style="list-style-type: none"> <li>•Aspirin 75mg, once daily</li> <li>•Doxazosin 6mg (2mg plus 4mg), once daily</li> <li>•Co-codamol 30/500mg, two tablets as required</li> <li>•Venlafaxine 37.5mg, twice daily</li> <li>•Bumetanide 1mg, twice daily</li> <li>•Nefopam 30mg, three times per day</li> <li>•Tramadol 50mg, take two three times per day</li> <li>•Fluticasone propionate nasal spray, two sprays as required</li> <li>•Ramipril 10mg, once daily</li> <li>•Lymecycline 408mg, once daily</li> </ul>	<ul style="list-style-type: none"> <li>•Body mass index: 32</li> <li>•Estimated glomerular filtration rate: 47mL/min/1.73 m<sup>2</sup></li> <li>•Creatinine clearance based on ideal body weight: 38mL/min</li> <li>•Most recent blood pressure reading: 115/84 (sitting)</li> <li>•Electrolytes normal</li> <li>•Electrocardiogram normal</li> <li>•sinus rhythm</li> <li>•Urinary albumin: creatinine ratio normal</li> </ul>

17

---

---

---

---

---

---

---

---

---

---

### Medication List after her medicine review

Table 3: Linda's medicines before and after her medicine review

Aspirin 75mg, once daily	—	Stopped
Nefopam 30mg, twice daily	—	Stopped
Venlafaxine 37.5mg, twice daily	—	Stopped
Fluticasone propionate nasal spray, two sprays, as required	—	Stopped
Doxazosin 6mg (2mg and 4mg), once per day	Doxazosin 4mg, once daily	Dose reduced
Bumetanide 1mg, twice daily	Bumetanide 1mg, daily	Dose reduced
Tramadol 50mg, two twice daily	Tramadol 50mg, four times per day	Dose reduced
Co-codamol 30/500, two tablets as required	Paracetamol 1g, four times per day	Replaced
Lymecycline 408mg, once daily	Topical metronidazole gel	Replaced
Ramipril 10mg, once daily	Ramipril 10mg, once daily	Unchanged

© 2020 United HealthCare Services, Inc. All rights reserved.

18

---

---

---

---

---

---

---

---

---

---

### Summary

The following changes to Linda's prescriptions have been made:

- Reduction in venlafaxine to 37.5mg once daily at night;
- Removal of co-codamol and fluticasone propionate from her repeat list as she is no longer taking them;
- Stop aspirin 75mg once daily;
- Change in tramadol dosing from 100mg three times daily to 50mg four times daily;
- Addition of regular paracetamol.

It is important to check that Linda has understood this plan. 'Teach-back' is a useful tool for this — ask her to explain her understanding of what has been agreed and what will happen next.

© 2022 United HealthCare Services, Inc. All rights reserved. 19

---

---

---

---

---

---

---

---

---

---

19

### Challenges to Deprescribing

- Time constraints
- Lack of communication between patients and providers
- Lack of systematic support hinder acceptance of deprescribing as routine medical care
- Patients with multiple prescribers may be reluctant for one physician to stop medications prescribed by another.



Hall-Tierney, A., Scarborough, C., & Carroll, D. G. (2019, July 1). Polypharmacy: Evaluating Risks and Deprescribing. American Family Physician. <https://www.azfap.org/doi/10.1032.html>.

---

---

---

---

---

---

---

---

---

---

20

### Polypharmacy and chronic conditions

<p><b>Diabetes</b></p> <ul style="list-style-type: none"> <li>- High risk for hypoglycemia (major concern in elderly) and falls</li> <li>- Begin with a provider-patient discussion on the possibility of reducing medications after lifestyle changes</li> <li>Diet</li> <li>Exercise</li> <li>Medication adherence</li> <li>Glucose monitoring</li> </ul>	<p><b>COPD</b></p> <ul style="list-style-type: none"> <li>- Association between polypharmacy (prior to admission) and COPD exacerbations leading to hospitalized patients</li> <li>- Polypharmacy should be assessed in COPD patients and deprescribing should be considered</li> </ul>
---	---

---

---

---

---

---

---

---

---

---

---

21

## Conclusion

- Polypharmacy continues to be an overlooked issue that is rising in especially in elderly populations
- Collaborating with physicians and other health care professionals to understand the deprescribing process could improve polypharmacy
  - Multidisciplinary involvement (physicians, pharmacists, specialists, caregivers, case managers, etc.)
- Polypharmacy affects the population in a negative way, especially those with chronic conditions
- Considering and effectively evaluating risk factors for polypharmacy and using tools available to assess who is at risk or determine polypharmacy
- Provider and patient/caregiver goals
- Patient engagement and shared decision making in deprescribing is essential

22

---

---

---

---

---

---

---

---

## References

1. Garfinkel, D., Ilhan, B., & Bahat, G. (2015, December). *Routine deprescribing of chronic medications to combat polypharmacy*. Therapeutic advances in drug safety. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4667766/>.
2. Halli-Tierney, A., Scarbrough, C., & Carroll, D. G. (2019, July 1). *Polypharmacy: Evaluating Risks and Deprescribing*. American Family Physician. <https://www.aafp.org/afp/2019/0701/p32.html>.
3. For patients with diabetes, consider 'deprescribing' to improve outcomes. Healio. (n.d.). <https://www.healio.com/news/endocrinology/20170807/for-patients-with-diabetes-consider-deprescribing-to-improve-outcomes>.
4. <https://pharmaceutical-journal.com/article/ld/polypharmacy-putting-the-framework-into-practice>

23

---

---

---

---

---

---

---

---



## Questions/Comments

## Thank You!

24

---

---

---

---

---

---

---

---