



## **Pharmacist Quick Reference Guide**

# Addressing the hidden risk of cumulative medicines load to reduce harm

The greatest predictor of medicine adverse effects occurring is the number of medicines taken.1





 $\uparrow$  medicines =  $\uparrow$  risk of cumulative toxicity =  $\uparrow$  risk of adverse effects



## Pharmacists' role in a person-centred stepwise approach to deprescribing.<sup>1</sup>



#### 1. Patient engagement and information gathering

- Obtain and reconcile a best possible medication history (BPMH)
- Discuss the person's goals of therapy with a holistic and culturally safe approach
- Consider the person's frailty and life expectancy
- Identify barriers to the person taking their medicines.



#### 2. Document indications, benefits and potential harms

- · Understand what is important to the person
- · Discuss the risks and benefits of each medicine
- · Identify the necessary or appropriate medicines
- · Identify unnecessary or inappropriate medicines
- Review for potential and actual medicine related adverse effects.



#### 3. Determine if medicine(s) can be ceased. Prioritise. Agree and share a plan.

- · Target lowest utility/highest risk medicines first
- Utilise tools such as the Veteran's MATES online calculator: Cumulative Medicine Risk Tool to assist with prioritising medicines
- Discuss preferred options with the person.

Medicine management plan recommendations should:

- · Identify medicines to taper, reduce or stop
- Include rationale for prioritising medicines (one medicine is targeted at a time)
- Provide a specific withdrawal or tapering plan if withdrawal reactions are expected or if clinically indicated
- Relay the person's preferred option(s) to the prescriber.

Recommendations to deprescribe can be adapted for each patient and medicine utilising the preferred language described in the Deprescribing tools - NSW Therapeutic Advisory Group - NSW Therapeutic Advisory Group (nswtag.org.au)



#### 4. Monitor, support and document

- Follow-up reviews allow monitoring for withdrawal reactions and to provide ongoing patient support.
- · Discuss the appropriate disposal of medicines and assist to remove unnecessary medicines, with the person's informed consent.

25% of patients who take multiple medicines have adverse effects directly attributable to one or more medicines.2









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## To identify medicine related adverse effects, consider<sup>2</sup>:

- Higher risk medicines: e.g. anticholinergics, antipsychotics, diuretics, antidepressants, opioids, and non-steroidal anti-inflammatory drugs (NSAIDS)
- Specific symptoms or laboratory markers (e.g. hypokalaemia)
- Medicines used to treat adverse reactions caused by other medicines (prescribing cascade).

## **Deprescribing resources:**

- Primary Health Tasmania (Tasmania PHN) deprescribing guides to reduce and cease specific classes of medicines: primaryhealthtas.com.au/deprescribingi
- Deprescribing Guides and Consumer Information Leaflets hosted on NSW Therapeutic Advisory Group (TAG) Inc's website: Deprescribing tools - NSW Therapeutic Advisory Group - NSW Therapeutic Advisory Group (nswtag.org.au)
- · Veteran's MATES deprescribing tools for GPs and pharmacists: www.veteransmates.net.au/tools
- · Deprescribing resources, information for the public and health professionals: www.australiandeprescribingnetwork.com.au
- RACGP aged care clinical guide (Silver Book) 5th ED Part A Deprescribing, 2019: www.racgp.org.au/clinicalresources/clinical-guidelines/key-racgp- guidelines/ view-all-racgp-guidelines/silver-book/part-a/ deprescribing

## Tools to assist with deprescribing in the older population:

- The Goal-directed Medication review Electronic Decision Support System (G-MEDSS)©"which includes:
  - the Goals of Care Management Tool
  - the Drug Burden Index (DBI) Calculator©3 and
  - the revised Patients' Attitudes Towards Deprescribing Questionnaire (rPATD).

Available at: https://gmedss.com

- 2023 American Geriatrics Society: Beers criteria<sup>4</sup>
- STOPPFrail (Screening Tool of Older Persons Prescriptions in Frail adults with limited life expectancy)<sup>5</sup>
- Anticholinergic Cognitive Burden calculator. 6 Available at: www.acbcalc.com
- START (Screening Tool to Alert doctors to the Right Treatment)7
- STOPP (Screening Tool of Older Persons' potentially inappropriate Prescriptions)8

### Other useful resources:

- PSA Guidelines for Comprehensive Medication Management Reviews
- · Aboriginal Community Controlled Health Organisations **Medicines Management Guidelines**
- Australian Commission on Safety and Quality in Health Care (ACSQHC): Quality Use of Medicines | Australian Commission on Safety and Quality in Health Care
- · Australian Commission on Safety and Quality in Health Care (ACSQHC): Medical reconciliation – resources for obtaining a best possible medication history
- · Australian Commission on Safety and Quality in Health Care (ACSQHC): Comprehensive Care Standard Identifying goals of care: Tips for patients and consumers (safetyandquality.gov.au)

- Australian Government Department of Veterans' Affairs. Cumulative Medicines Risk: Addressing The Hidden Risk of Cumulative Medicines Load to Reduce Harm. Veterans' MATES Therapeutic Brief. Aug 2022. At: https://www.veteransmates.net.au/topics/complex-medicines/therapeutic-brief/
- Scottish Government Polypharmacy Model of Care Group. Polypharmacy guidance, realistic prescribing. Scottish Government. 3rd edn. 2018.
- Hilmer SN, Mager DE, Simonsick EM, et al. A drug burden index to define the functional burden of medications in older people. Arch Intern Med. 2007 Apr 23;167(8):781-7 2023 American Geriatrics Society Beers Criteria Update Expert Panel. American Geriatrics Society 2019 updated AGS Beers criteria\* for potentially inappropriate medication use in older adults. J Am Geriatr Society 2019 updated AGS Beers criteria\*
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