



ACKNOWLEDGEMENT OF COUNTRY



The Sydney North Health Network and Northern Sydney LHD wish to acknowledge Australia's Aboriginal peoples – the traditional custodians of the land on which we meet and work.

We pay our respects and recognise their continued connection to land, water and community and honour their ancestors, Elders past, present and emerging.



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HOUSEKEEPING



- Please turn your mobile phones off
- Bathrooms
- Emergency Exits
- Geriatrician Q&A session:

Please prepare your questions to ask the Geriatricians at end of event

Use event evaluation QR code at the end of the night to:

Provide feedback on tonight's event

Register your interest for future education events

To register for Keeping Well and Independent Program







www.snhn.org.au

HealthPathways IMPROVING PATIENT OUTCOMES



HealthPathways is an online health information website which supports GPs, hospital doctors, nurse practitioners, pharmacists, allied health and other clinicians.

HealthPathways supports:

- Condition management
- Service navigation
- Referral to specialists, facilities, public and private services
- Access to reference materials
- Access to patient educational resources

Patient benefits:

Health Northern Sydney Local Health District

- Improved coordination of care
- Referral to specialists when appropriate

Clinician benefits:

- Save time clinical information and service information easily accessible in the same place, avoid needing to look up information in multiple places
- Up to date information responsive to GP needs, e.g. with suite of resources relating to COVID being produced and available at short notice
- GPs can provide direct feedback on a topic which prompts assessment by the HealthPathways team

Local Health District benefits:

- Hospital avoidance due to better managed care in the community
- Appropriate use of tertiary resources

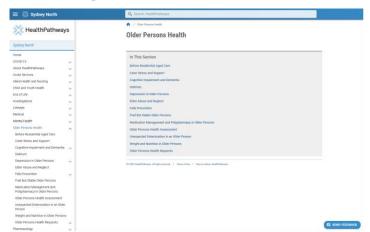




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HealthPathways

FEEDBACK









TIP: If you notice something needs updating, use this feedback icon to update the team directly!





HealthPathways

NEXT STEPS



- Login to the HealthPathways website and view available localised pathways
- Install the HealthPathways desktop icon



- Start using HealthPathways in your practice
- Use the floating feedback button if updates are required
 - SEND FEEDBACK
- For more information contact healthpathways@snhn.org.au







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Agenda



7:00pm – 7:10pm	Introduction	Hannah Hanfy – Coordination and Integration Manager, PHN	
	Opening remarks	James Inglis – Director of Operations – Integrated Care, NSLHD	
7:10pm – 7:30pm	Dementia and Driving	Dr Alexandra Annesley - Geriatrician, Hornsby Ku-ring-gai Hospital, Geriatrician to GP Service	
7:30pm - 7:50pm	Tripping on Drugs – Deprescribing	Dr Praveen Sivabalan -Geriatrician, Royal North Shore Hospital, Geriatrician to GP Service and Memory Clinic Dr Linda Xu - Geriatrician and General Physician, Ryde Hospital,	
7:50pm – 8:10pm	Frailty	Dr Linda Xu - Geriatrician and General Physician, Ryde Hospital, Geriatrician to GP Service	
8:10pm – 8:30pm	Keeping Well and Independent	Dr Charbel Badr -General Practitioner (FRACGP)	
8:30pm – 8:50pm	Q&A with Geriatricians	Dr Linda Xu, Dr Praveen Sivabalan and Dr Alexandra Annesley	
8:50pm – 9:00pm	Evaluation	Hannah Hanfy	
	Closing remarks	Eugene McGarrell – General Manager, Commissioning and Planning, PHN	







www.snhn.org.au

Geriatrician to GP Service

The Geriatrician Outreach to GP service provides Geriatrician support to GPs in their management of complex older and frail patients who are at risk of hospitalisation within next three months.

Geriatrician support may include:

- · Advice regarding patient care
- Patient assessment
- · Referral for investigation or to other services

Eligibility criteria:

- Any GP located in the Northern Sydney region Patients living in Northern Sydney region:
- With complex health needs or has aged-related illness

Referral Process:
• No formal process
GPs can refer via phone call or email



complex health needs, at risk of hospitalisation To make a referral:

Ryde Hospital (Monday to Friday)

E: NSLHD-Ryde-Geriatricianadvice@health.nsw.gov.au



Geriatrician support for older patients with complex health needs, at risk of hospitalisatio

To make a referral: Hornsby and Ku-ring-gai Hospital (Monday to Friday) T: 0478 784 215





Geriatrician support for older patients with complex health needs, at risk of hospitalisation To make a referral:

Royal North Shore Hospital (Monday to Friday)











С

SPEAKER INTRODUCTION

Welcome to our speakers for Geriatrician Outreach to GP Service



- Dr Alex Annesley, Staff Specialist Geriatrician, Hornsby Ku-ring-gai Hospital, Geriatrician to GP
- Dr Praveen Sivabalan, Staff Specialist Geriatrician, Royal North Shore Hospital, Geriatrician to GP Service and Memory Clinic
- Dr Linda Xu, Staff Specialist Geriatrician and General Physician, Ryde Hospital, Geriatrician to GP Service







www.snhn.org.au

Keeping Well and Independent Program

The Keeping Well and Independent Program (KWIP) assists GPs and practices to help complex, older patients access services which will help them to avoid hospitalisation. It is available to all practices within the Sydney North PHN.

Program eligibility:

 Patients aged 75 years or older, considered to be at high risk of preventable hospital admission, living in the community within the Northern Sydney region

Practices will be supported by the PHN, including:

- · Payment for program sign-on and participant enrolment
- Additional funding via a Care Coordination grant, to support program activities
- Quarterly reviews, and assistance with hospitalisation data and patient selection

Services available to patients from participating practices include Geriatrician Outreach, Rapid Response, Hospital in the Home, GP Social Work service and Healthy Ageing Services (Community Transport and PACE)









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Dementia and Driving

Dr Alexandra Annesley Geriatrician Tuesday 6th February 2024



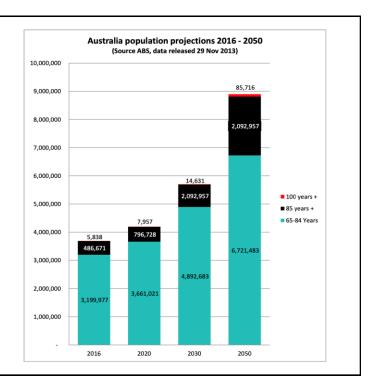
Mrs W

- 73 year old lady living with family on farm (7000 acres)
- Driving > 50km into town for shopping as well as using her ride-on mower around the land
- Diagnosed with Alzheimer's dementia early 2022
- Family concerned "judgement on the roads" not as good
- Mixed up local roads (despite knowing them well)
- · Daughter-in-law no longer allowed grandchildren in the car with her
- RMS informed on diagnosis on-road driving assessment FAILED
- Mrs W and family appealed driving lessons and second test. FAILED again
- Struggling to accept decisions made currently seeking a second Geriatric opinion.....
- Reportedly still driving ride-on mower around the farm....

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We are an Ageing Population

 1 in 6 Australians (3.9 million people or 15.9%) aged 65 years or older



Older Drivers

- Aged driving population increasing
- Advanced age alone is not a barrier to driving
- Functional ability and medical issues are main considerations
- Transport NSW requires medical assessment and older person testing
 - 75 years and above
 - · annual fitness to drive medical assessment report
 - 85 years and above
 - · annual FTD medical report AND a choice of
 - Restricted licence (10km from place of residence) OR
 - Older Driver Test with an accredited tester for Service NSW to obtain an unrestricted licence every 2 years

Institute of Driver Health

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Driving is complex

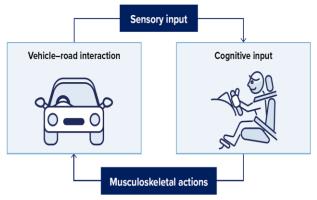
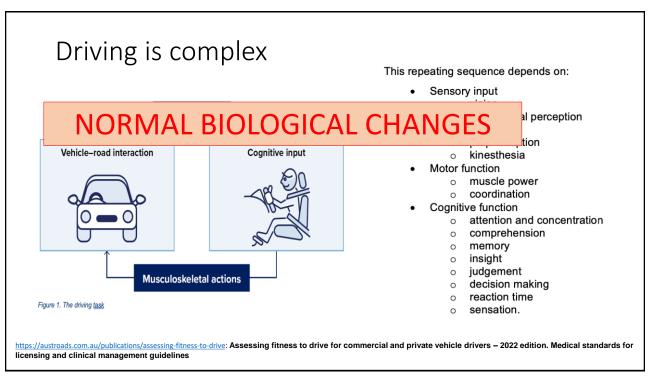


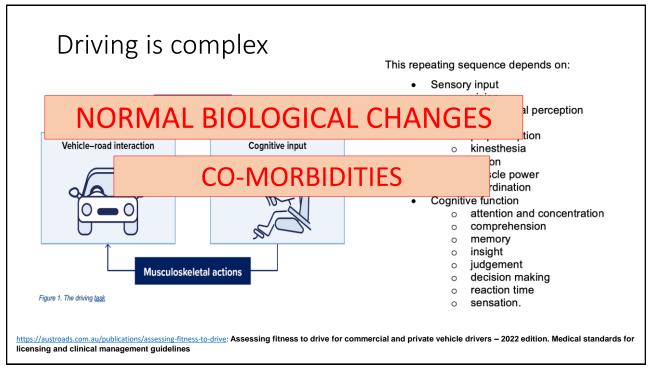
Figure 1. The driving task

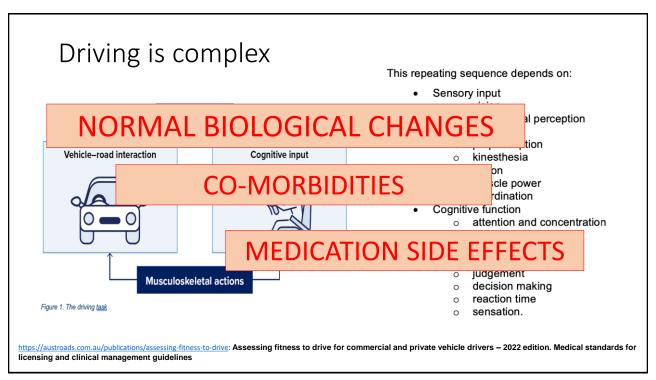
This repeating sequence depends on:

- Sensory input
 - o vision
 - visuospatial perception
 - hearing
 - proprioception
 - o kinesthesia
- Motor function
 - o muscle power
 - coordination
 - Cognitive function
 - attention and concentration
 - comprehension
 - o memory
 - insight
 - judgement
 - decision making
 - reaction time
 - sensation.

https://austroads.com.au/publications/assessing-fitness-to-drive: Assessing fitness to drive for commercial and private vehicle drivers – 2022 edition. Medical standards for licensing and clinical management guidelines







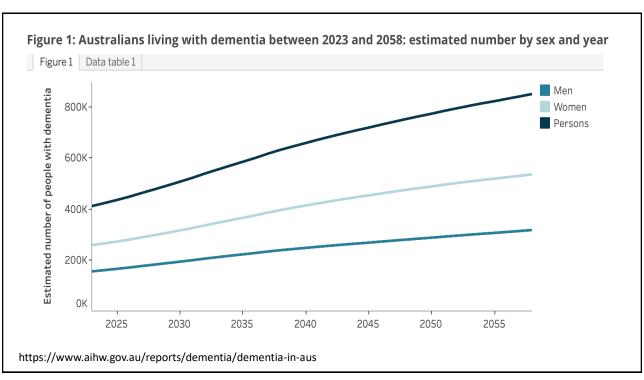
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"It's not known exactly what happened or who was at fault. The prince told police officers at the scene that he was momentarily blinded by the sun while pulling onto a main thoroughfare."



NYTimes.com

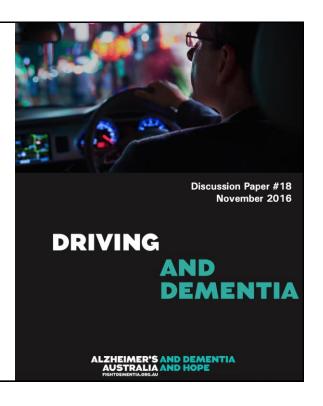
Where does Dementia fit in?



- **➤Over 40% of people with dementia drive**
 - **▶20%** patients responsible for at least 1 accident between onset of symptoms and diagnosis
 - >2-5 times greater accident risk than controls
 - ▶10 x more likely to fail an on-road driving assessment

Kim YJ et all. An International Comparative Study on Driving Regulations on People with Dementia. J Alzheimers Dis (2017);56(3):1007-1014. Chee JN et al. Update on the risk of motor vehicle collision or driving impairment with dementia: A collaborative international systematic review and meta-analysis. Am J Geriatr Psychiatry 2017 25, 1376-1390.

- The ability to drive safely is dependent on:
 - Decision-making capacity
 - · Reaction time
 - Visuospatial perception and other sensory processing
 - Memory
 - Judgement
 - Attention and planning
- All these attributes are eventually affected by dementia.



Driving and dementia: the evidence

Monash University Accident Research Centre 2021



- · Very comprehensive systematic review
- Examined crash risk with medical conditions
- "The risk associated with young drivers and alcohol impaired drivers ... overwhelms all of the medical condition groups to such an extent that medical risks seem relatively minor"
- Seven medical conditions with relative risk for crash of > 2:
 - · Alcohol use disorder
 - Epilepsy
 - Sleep
 - Vision
 - Multiple Medical Conditions (Diabetes with Neuropathy)
 - Dementia
 - Stroke

Courtesy of A/Prof Kurrle

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What are the warning signs?

- · Navigation forgetting routes, getting lost in familiar surroundings
- Misjudging the distance between cars or speed of other cars
- Poor coordination
 - · Difficulty choosing between the accelerator or brake pedals when stressed
 - · Poor hand-eye coordination
- Not giving way at intersections or inappropriate stopping in traffic
- Slowed response time difficulty multi-tasking
 - · Requiring guidance from passengers
- Lacking insight and denying any deficits

Rapoport, M. J. et al. An international approach to enhancing a national guideline on driving and dementia. Current Psychiatry Reports vol. 20 (2018)

Dementia – when should driving cease?

There is consensus that people with moderate or severe dementia are no longer fit to drive

Rapoport MJ et al. An international approach to enhancing a national guideline on driving and dementia. 2018. *Curr Psychiatry Rep* **20**, 16.

27

International Consensus Guidelines for Driving and Dementia

- Developed for Canadian Medical Association Driver's Guide
- Mainly consensus guidelines by an expert group including clinicians and driver assessors

#	Recommendation	Class of Evidence
1	Dementia often has a direct effect upon fitness to drive, and clinicians should address cognitive compromises that may impact fitness to drive.	С
2	Diagnosis of dementia alone is not sufficient to withdraw driving privileges.	A
3	Severe dementia is an absolute contraindication to driving.	C
4	It is unlikely that safe driving can be maintained in the presence of moderate dementia (e.g. the additional presence of basic ADL impairments) and is to be strongly discouraged. If the patient desires to drive, they should be formally assessed and monitored very carefully.	В

Rapoport 2018

But.....

- What about mild dementia?
- Does the type of dementia matter?
- What about mild cognitive impairment?



When is the right time to stop?

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Mild dementia

Is driving feasible in early dementia?

Australia and New Zealand Society for Geriatric Medicine Position Statement: Driving and Dementia, 2022

Driving capacity is

- -task specific
- -deserves individualised assessment
- -on-road driving component by a suitably trained professional

It is not reasonable to justify licence suspension based solely on a diagnosis of mild dementia.



https://anzsgm.org/wp-content/uploads/2022/12/ANZSGM-Position-Statement-Driving-and-Dementia-FINAL.pdf

Courtesy of A/Prof Kurrle

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Austroads Guidelines: Driving and Dementia (June 2022)

- Conditional licence only for people with a diagnosis of dementia
- Person with dementia must notify driver licensing authority
- At least annual review taking into account:
 - Nature of the driving task
 - Information about impairment and impact on driving
 - Results of practical driver assessment, if required
 - Opinion of an appropriate specialist may be considered



https://austroads.com.au/publications/assessing-fitness-to-drive/ap-g56

Is driving feasible in early dementia?

YES

- Conditional licence
- · Regular reviews of fitness to drive
- · Consider "on-road" driving assessment
- Begin transition to other forms of transport early
- When appropriate, encourage self limiting of driving and then surrendering of licence – "retiring" from driving, and obtain RMS photo ID card



Courtesy of A/Prof Kurrle

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Dr S

- 80M retired obstetrician
- Diagnosed with Alzheimer's disease 2022
- Keen cyclist with PROBUS and cycles weekly on road with friends
 - Losing way on familiar cycling routes and friends having to guide him
- Wife had no initial concerns re driving capability
 - RMS informed of diagnosis and passed on-road assessment
- Six months later moved house to a different suburb...
- Drove around new local area and became lost. Had to walk 2km to get home in the middle of Summer. Forgot his phone and wife couldn't get in touch with him. Has struggled to learn new routes and wife worried he is making errors.
- Decided himself to stop driving indefinitely. Now looking into alternative community transport
- · On-road cycling now also stopped

Does the type of dementia matter?

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- Strongest predictors of accident risk: visuo-spatial attention and spatial judgement deficits
- Non-ADD patients likely to fail on-road assessments earlier



JAGS October 2019 Vol 67(10) Toepper; Driving Fitness in Different Forms of Dementia

Risk evaluation for driving safety depending on severity and type of different dementia syndromes



ADD: Alzheimer disease dementia

DLB: dementia with Lewy

bodies

FTD: frontotemporal

dementia

MCI: mild cognitive impairment

PDD: Parkinson disease

dementia

VaD: vascular dementia.

Driving Fitness in Different Forms of Dementia: An Update. Toepper et al. Journal of the American Geriatrics Society October 2019, Volume 67 (10), p 2186–2192

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Mrl

- 80M
- Diagnosis of DLB
- Intermittent visual hallucinations, restless legs, REM sleep disturbance
- Visuospatial and processing speed deficits
 - · Wife reports "veering outside lane at times"
 - Hit a wall reversing out of driveway
- Commenced on rivastigmine
- Advised to inform RMS
- 6 Months later had not informed RMS and still driving...
- Cognitive screening scores stable
- Second discussion regarding informing RMS and he consented to me writing a letter on his behalf....now awaiting on-road driving assessment



What about Mild Cognitive Impairment?

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Driving and MCI

- Limited evidence of increased driving error rates, concluding that MCI <u>does not</u> significantly impair driving
- Where there is impairment across multiple cognitive domains such as visuospatial, attention and executive functions, it may be appropriate to consider the driver's fitness to drive and perform an assessment
- Among safe drivers, MCI and CN drivers exhibit similar on-road error profiles, suggesting driver restrictions based on MCI status alone are unwarranted

Austroads.com

On-Road Behavior in Older Drivers With Mild Cognitive Impairment. <u>Eramudugolla</u> R et all, J Am Med Dir Assoc 2021 Feb;22(2):399-405 Assessment of Driving Safety in Older Adults with Mild Cognitive Impairment, Anstey KJ et al. <u>J Alzheimers Dis.</u> 2017; 57(4): 1197–1205.

Road bikes/ride on mowers.....

- NSW Road Rules: a bicycle is considered a vehicle and has the same road rules as other vehicles
 - However no formal licencing required.......
- Car (Class C) licence required to drive a ride-on mower

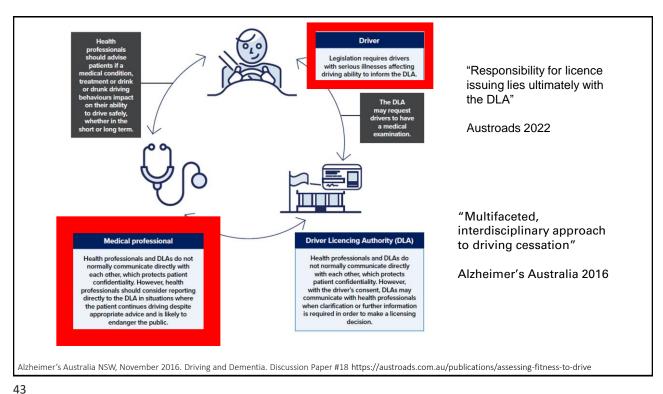




 $\frac{https://www.nsw.gov.au/driving-boating-and-transport/vehicle-registration/conditional-and-seasonal/vehicle-sheets/mower https://legislation.nsw.gov.au/view/html/inforce/current/sl-2014-0758\#pt.15$

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Where do we, as health professionals, fit in?



+3

Useful Resources

Medical Professionals

- Dementia and Driving pathway: for clinicians and healthcare professionals
- https://www.fightdementia.org.au/sites/default/files/VIC/ documents/HP%20QUICK%20 REFERENCECARD_FINAL.pdf
- Conversations about Dementia and Driving: for health professionals and clinicians https://www.fightdementia.org.au/sites/default/files/VIC/ D&DHelp%20Sheet_2015_FINAL.pdf
- Dementia and Driving: GP's Toolkit (Video) https://www.youtube.com/watch?v=zJ0N12dC lo

People with dementia and carers

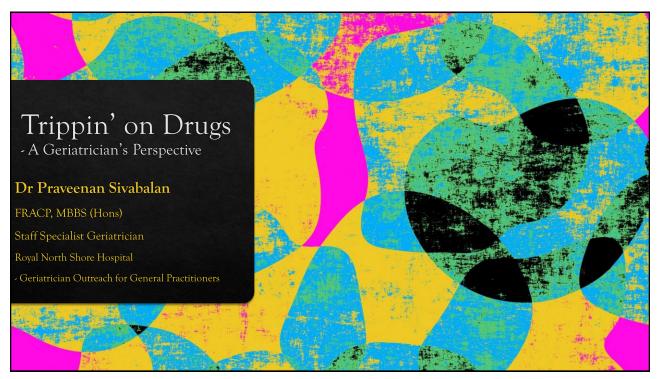
- Alzheimer's Australia Help sheet 4: Information for people with dementia – Driving
- https://www.fightdementia.org.au/sites/default/files/helpsheets/He lpsheet-InformationForPeopleWithDementia04-DrivingAndDementia_english.pdf
- Alzheimer's Australian Help sheet 7: Caring for someone with dementia – Driving
- https://www.fightdementia.org.au/sites/default/files/helpsheets/Helpsheet-CaringForSomeone07-Driving_english.pdf
- Changed conditions ahead: Dementia and Driving Guide for Families and Carers https://uc.fightdementia.org.au/files/VIC/documents/Dementiaand-Driving-guide-for-family-carers.pdf
- Staying on the Move with Dementia https://nsw.fightdementia.org.au/sites/default/files/NSW-Stayingon-th-move-with-dementia-booklet.pdf
- On the road 65plus http://roadsafety.transport.nsw.gov.au/downloads/65plus.pdf
- Dementia and Driving: A decision Aid http://smah.uow.edu.adv.content/groups/public/@web/@smah/@n mih/documents/doc/uow179550.pdf

Alzheimer's Australia NSW, November 2016. Driving and Dementia. Discussion Paper #18



Thankyou

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FALLS, POLYPHARMACY & DEPRESCRIBING

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FALLS

Risk Factors

- Drugs
 - Psychotropic medications
 - · Antidepressants, mood stabilisers, neuroleptics, benzodiazepines
 - Sedation and orthostatic hypotension



Seeherunwong et al (2022) Int J Ment Health Syst, Montero-Odasso et al. (2022) Age and Ageing,

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'It takes a child one year to acquire independent movement and ten years to acquire independent mobility. An old person can lose both in a day' Professor Bernard Isaacs (1924-1995)

Falls Prevention

- Evidence mixed + varied study quality
 - Inconsistent intervention, setting, cognitive impairment
- Multifactorial + multidisciplinary interventions
 - Exercise
 - Medication review psychotropic medication + polypharmacy
 - · Conflicting data
 - Increasing staff awareness, monitoring and supervision
 - Patient education less effective with cognitive impairment
 - Safe wandering areas, footwear and flooring (fall injuries)
 - Sensory interventions (vision, hearing)
 - Home safety assessment OT

Bunn et al (2014) BMC Nurs, Savage & Matheis-Kraft (2001) J Geront Nurs, McMinn et al. (2016) HealthTimes, Seeherunwong et al (2022) Int J Ment Health Syst, Gillespie et al. (2012) Cochrane, Cameron et al. (2012) Cochrane, Montero-Odasso et al. (2022) Age and Ageing,





Interventions for preventing falls in older people living in the community (Review)

Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Gates S, Clemson L, Lamb SE



ORIGINAL INVESTIGATION

Exercise Effects on Bone Mineral Density, Falls, Coronary Risk Factors, and Health Care Costs in Older Women

The Randomized Controlled Senior Fitness and Prevention (SEFIP) Study

Wolfgang Kemmler, PhD; Simon von Stengel, PhD; Klaus Engelke, PhD; Lothar Haberle, PhD; Willi A. Kalender, PhD, MD



Cochrane Database of Systematic Reviews

Exercise for preventing falls in older people living in the community

Sherrington C, Fairhall NJ, Wallbank GK, Tiedemann A, Michaleff ZA, Howard K, Clemson L, Hopewell S, Lamb SE

Age and Ageing 2022; \$1: 1-36 https://doi.org/10.109?/ageing/afac205

World guidelines for falls prevention and management for older adults: a global initiative

MONTRIO-COASSO 233, NATHALIE WIN DER VEIDE 23, FEBRER C. MARTINÉ, MIREO PETROVIÇÍ, I TANÉS, JERRIR REC^(0,1), SAUA AGURAR-NAWARRO ¹, NIE B. ALEXANDER ¹), CLEHENS BECCIR¹, SAUA ¹, ROBER BOURE¹, LAN D. CASHDON¹, PECHADI CANCOUR¹, LINY CLEHON ¹, REPORTO ¹, DE LORDON ¹, CHONG ¹, TERMANDO E GÓRGO ², TERMANDO E CORRESTO ³, NAMECY EL ARRIBA ³, JOSE EL JERGO ³, NAMECY EL ARRIBA ³, JOSE EL JERGO ³, TERMANDO E PERMANDO ³, NAMECY EL ARRIBA ³, JOSE EL JERGO ³, TERMANDO ³, PENDAR ³, PENDAR ³, PENDAR ³, JOSE EL JOSE ³, MARTINO EL GORGO ³, ALES CONTROLES ³, ANDO PERMANDO ³, ALES NESTORO ³, SAUDO ³, SAUDO ³, PENDAR ³, ANDO ³, PENDAR ³, ANDO ³, PENDAR ³, ANDO ³, PENDAR ³, SAUDO ³, ANDO ³, PENDAR ³, ANDO ³, PENDAR ³, PENDAR ³, PENDAR ³, ANDO ³, PENDAR ³, PENDAR ³, PENDAR ³, PENDAR ³, ANDO ³, PENDAR

Interventions for preventing falls in older people in care facilities and hospitals (Review)

Cameron ID, Gillespie LD, Robertson MC, Murray GR, Hill KD, Cumming RG, Kerse N fington *et al. International Journal of Bel* (2020) 17:144 s://doi.org/10.1186/s12966-020-01041-3

REVIEW

Evidence on physical activity and falls prevention for people aged 65+ years: systematic review to inform the WHO guidelines on physical activity and sedentary behaviour

Catherine Sherrington^{1,2*}, Nicola Fairhall^{1,2}, Wing Kwok^{1,2}, Geraldine Wallbank^{1,2}, Anne Tiedemann^{1,2}, Zoe A. Michaleff^{1,2}, Christopher A. C. M. Ng⁴ and Adrian Bauman⁵

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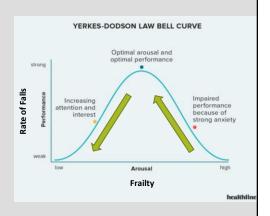
Exercise – Community

- High certainty evidence reduces rate of falls by 25% + number of people falling by 15%
- Types
 - Multicomponent (group or home based)
 - Balance + functional 24% reduction
 - Multiple types balance + functional + resistance 34% reduction
 - Tai chi 19% reduction
 - High intensity with progression
 - Uncertain benefit resistance, dance, walking alone
- Reduced risk of fall-related fracture 27%
 - Improved bone mineral density
 - · Decreased fall rate
- Reduced fear of falling

Gillespie et al. (2012) Cochrane, Kemmler et al. (2010) Arch Int Med, Cameron et al. (2012) Cochrane, Sherrington et al. (2019) Cochrane, Montero-Odasso et al. (2022) Age and Ageing Sherrington et al (2020) IJBNPA

Exercise – Care Facilities

- Inconsistent evidence
 - Increased falls in frail residents
 - · High level nursing care
 - No strength to mobilise/stand
 - Reduced falls in less frail residents
 - Intermediate level nursing care



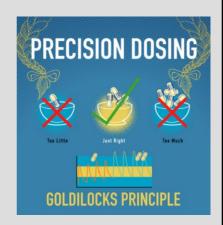
Cameron et al. (2012) Cochrane

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POLYPHARMACY

Prescribing

- Good prescribing
 - Right medicine at the right dose
 - Meet an individual's therapeutic needs
 - Appropriate duration
 - Reassessment & monitoring
 - Risk-benefit profile is constantly shifting
 - Especially in older people with multimorbidity



Quek et al. (2023) AJGP, Reeve et al (2018) Expert Opinion on Drug Safety

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Prescribing cascades

- Drug related adverse reaction
 - Misinterpreted as a new medical condition
 - 2nd medication used to manage the symptoms
 - Examples
 - Loop diuretics for ankle oedema (calcium channel blocker).
 - Steroids → PPI → magnesium → calcium
 - Osteoporosis → falls → fracture



Quek et al. (2023) AJGP

DEPRESCRIBING

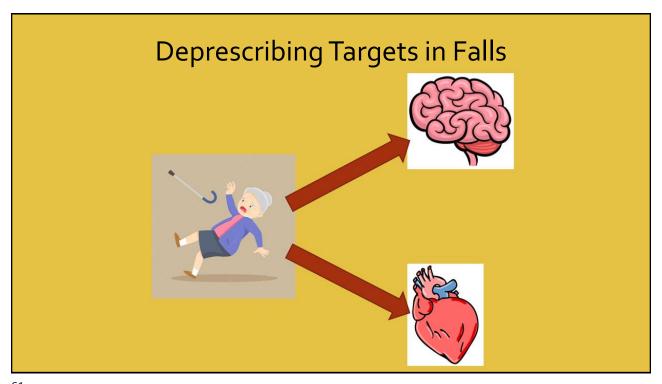
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Deprescribing

- Planned withdrawal of medicines
 - Causing harm or not helping an individual
- Reactive vs Proactive
 - Mostly reactive
 - Adverse drug reaction
 - Therapeutic failure
 - Should be more proactive



Quek et al. (2023) AJGP, Montero-Odasso et al. (2022) Age and Ageing, Varghese, Ishida & Koya (2022) StatPearls, O'Donnel & Ibrahim (2022) BMC Geriatrics, Mach et al. (2021) J Gerontol A Biol Sci Med Sci Reeve et al (2018) Expert Opinion on Drug Safety



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EXAMPLES

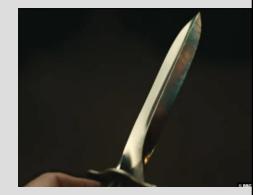


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ANTIPSYCHOTICS ANTIDEPRESSANTS BENZODIAZEPINES

General Principles

- Treating underlying psychiatric illness may indirectly improve falls risk
 - Untreated depression 37% increased risk of falls
- Psychotropics strongest predictors of falls
 - Increase frailty, cognitive impairment, hip fractures
- Options
 - Can it be stopped?
 - Lowest possible dose
 - Alternatives
 - Can other CNS medication be reduced?
 - Prescribe exercise



Carpels et al. (2022) Alpha Psychiatry, Seeherunwong et al (2022) Int J Ment Health Syst, Montero-Odasso et al. (2022) Age and Ageing, AGS Beer Criteria Update Expert Panel (2023) JAGS Seppala et al. (2018) JAMDA

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Antidepressants

- Rising prescription of antidepressants
 - Long-term use (>12 months) > new diagnoses
 - Average duration of use 4 years (6-12 month recommended)
- 30-50% of patients continue treatment without any benefit
- Consider >6 months after recovery of depressive episode

Lee et al. (2023) The Permanente Journal, Steinman & Reeve (2023) UptoDate, NSWTAG, Keks, Hope & Keogh (2016) Aust Prescr, Coe et al (2023) Prim Health Care Res Dev, Wallis, Donald & Moncrieff (2021) AJGP

Antidepressants

- Monitor:
 - Withdrawal antidepressant discontinuation syndrome
 - Generally resolves within 1-2 weeks (sometimes > 12weeks)
 - Relapse
 - Generally occurs >4-8 weeks after stopping
 - Risk of recurrence after stopping 2 years maintenance therapy
 - 60% over 2 years
- Alternative therapy
 - Exercise
 - Psychologist cognitive behavioural therapy
 - Apps Calm
- Involve Psychiatrist

Table 3:

Pneumonic device FINISH for antidepressant discontinuation syndrome signs and symptoms

FINISH

Flu-like symptoms (fatigue, lethargy, general malaise, muscle aches/headaches, diarrhea)

Nausea

Imbalance (gait instability, dizziness/lightheadedness, vertigo)

Sensory disturbances (paresthesia. "electric shock" sensations, visual disturbances)

Hyperarousal (anxiety/agitation)

Lee et al. (2023) The Permanente Journal, Steinman & Reeve (2023) UptoDate, NSWTAG, Keks, Hope & Keogh (2016) Aust Prescr, Coe et al (2023) Prim Health Care Res Dev, Wallis, Donald & Moncrieff (2021) AJGP

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Antipsychotics - BPSD

- Increased risk of mortality in elderly patients with dementia
- Behaviours in dementia change over time as the disease progresses
- Plan for deprescribing should come with prescribing
 - Consider (3 months) when:
 - · Symptoms stabilised
 - Symptoms did not improve

Considerations

For every 5 to 11 patients with dementia, without psychosis, 1 will have a reduction in their behavioural or psychological symptoms from taking an antipsychotic for around 12 weeks. 4 to 10 will not.

- One death is prevented for every 6 dementia patients who have long term antipsychotic discontinued before it is taken for more than 1 year.
- One death is prevented for every 22 dementia patients who have short term antipsychotics discontinued after around 12 weeks.
- One death will be prevented for every 100 patients with dementia who avoid antipsychotic treatment for behavioural or psychological symptoms.
- One stroke is prevented for every 37 patients with dementia who avoid 8 12 weeks of antipsychotic treatment for behavioural or psychological symptoms.

Steinman & Reeve (2023) UptoDate, Bjerre et al. (2018) Can Fam Physician, McFarlane & Cunningham (2021) Aust Prescr

Antipsychotics – BPSD

- Monitor
 - Withdrawal
 - Recurrence of behaviours restart lowest possible dose
 - · Retrial deprescribing in a few months
- Non-pharmacological strategies DSA
- Alternatives
 - Analgesia
 - Dementia medications acetylcholinesterase inhibitors, memantine
 - Antidepressants

Steinman & Reeve (2023) UptoDate, Bjerre et al. (2018) Can Fam Physician, McFarlane & Cunningham (2021) Aust Prescr

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Benzodiazepines – insomnia

- · Plan for deprescribing should come with prescribing
 - Benefits decrease over time 25 minutes of extra sleep
- Slow taper
 - 25-50% dose reduction every 2 weeks (slower if long term users > 1 year)
 - Consider 12.5% reduction end of taper or drug free days.
 - · Consider substitution to longer acting benzodiazepines (e.g. diazepam, oxazepam) diminished withdrawal
- Monitor
 - Withdrawal
 - 1-3 days (short acting agents) vs 5-10 days (longer acting agents)
 - Can last 6-8 weeks
 - Recurrence 1-2 weeks
 - Retrial weaning at 6-12 weeks
- · Alternative therapy
 - Exercise during day avoid at night
 - CBT-Insomnia
 - · Sleep hygiene
 - · Avoid nicotine, caffeine & alcohol

Steinman & Reeve (2023) UptoDate, NSWTAG, Cheung et al (2023) The Lancet, Scrandis & Duarte (2019) The Nurse Practitioner, Pishock (2022) Nur Primary Care, Croke (2019) Am Fam Physician,

ANTICHOLINERGICS

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Anticholinergics – Urological

- Oxybutynin, Solifenacin
- Associated withMortality

 - Impaired cognitive function dementia, delirium
 - · Brain atrophy
 - Impaired physical function + falls
 - · Increased frailty
 - Urinary retention (worse with BPH)
 - · Reduced appetite, dry mouth (poor dentition), constipation
- · Consider other drug causes diuretics, prazosin, AChE-I
- Alternatives untreated urinary urge/incontinence → falls Non-pharmacological
- Regular toileting
 - · Limiting alcohol/caffeine
 - · Limiting fluid intake prior to bed
 - · Continence pads
 - Mirabegron, vaginal oestrogen
 - Urologist urodynamics, percutaneous tibial nerve stimulation
- Recurrence of symptoms within 2 weeks
- Anticholinergic discontinuation syndrome (withdrawal) 1-3 days (last up to 8 weeks)
 Based on the Drug Burden Index (DBI), which measures cumulative exposure to medicines with anticholinergic and cade tive effects.
 - · Dose reduction

Figure 2: Impact on patient outcomes



Exposure to anticholinergic and sedative burdenb is

60% increase in fall-related hospitalisations



Use of medicines with anticholinergic effects for ≥ 3 months has a

50% 个 increased risk of dementia compared to non-use



Exposure to anticholinergic and sedative burden

30% increase in mortality for

older people

Seppala et al. (2018) JAMDA, Quek et al. (2023) AJGP, AGS Beer Criteria Update Expert Panel (2023) JAGS, NPS (2021) NPS MedicineWise, O'Donnell et al. (2017) JPPR, Ilhan et al. (2023) European Geriatric Med

PREGABALIN

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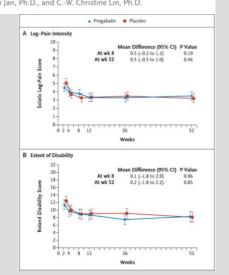
ORIGINAL ARTICLE

Trial of Pregabalin for Acute and Chronic Sciatica

Stephanie Mathieson, M.Chiro., Christopher G. Maher, Ph.D., Andrew J. McLachlan, Ph.D., Jane Latimer, Ph.D., Bart W. Koes, Ph.D., Mark J. Hancock, Ph.D., Ian Harris, Ph.D., Richard O. Day, M.B., B.S., M.D., Laurent Billot, M.Sc., M.Res., Justin Pik, M.B., B.S., Stephen Jan, Ph.D., and C.-W. Christine Lin, Ph.D.

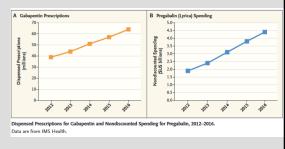
- 2017 Randomised, double blind, placebo controlled trial NEGATIVE
- 209 patients
- Pregabalin 150-600mg/day vs placebo
- Primary outcome Leg pain intensity score 8 & 52 weeks
 - Secondary outcomes extent of disability, back pain intensity, QOL measures
- Result
 - No significant improvement in primary or secondary outcomes.
 - Adverse events significantly higher with pregabalin
 - Dizziness
- Limitations
 - · Acute back pain/sciatica tends to be self limiting
 - Nociceptive vs neuropathic pain
 - Majority had nociceptive pain less responsive to pregabalin

Mathieson et al. (2017) NEJM, Quek et al. (2023) AJGP, AGS Beer Criteria Update Expert Panel (2023) JAGS,



Pregabalin

- Evidence of benefit for some types of neuropathic pain
 - Post-herpetic neuralgia
 - Diabetic peripheral neuropathy
 - Fibromyalgia
 - Stroke/trauma low quality
- Pregabalin/Gabapentin increased community prescription
 - No benefit over placebo for chronic low back pain/sciatica
- Risks
 - Sedation
 - Caution with opioids.
 - Ataxia
 - Falls



Mathieson et al. (2017) NEJM, Attal & Barrot (2017) NEJM, Baron et al (2010) Pain, Goodman & Brett (2017) NEJM, Derry et al (2019) Cochrane

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ANTIHYPERTENSIVES

Hypertension in the Elderly – Guidelines Differ

- America
 - ACC
 - BP <130/80mmHg
 - ACP/AAFP
 - SBP < 150mmHg
- Europe
 - ESC/ESH
 - SBP 130-139mmHq, DBP 70-79mmHq
 - NICE
 - Age < 80 years SBP < 140/90mmHg
 - Age >80 years SBP < 150/90mmHg

- Australia
 - General <140/90mmHg
 - Older age (>75) SBP< 120mmHg
- Korea
 - SBP < 140mmHq
- Canada
- SBP < 120mmHg

	ACC/AHA 2017	ACP/AAFP 2017	ESC/ESH 2018
Definition of Older Patients	≥65 years	≥60 years	Elderly 65-79 years Very Old ≥80 years
BP Threshold for Initiation of Pharmacotherapy	≥130/80 mmHg	SBP ≥150 mmHg	Elderly ≥140/90 mmHg Very Old ≥160/90 mmHg
Blood Pressure Target	<130/80 mmHg	SBP <150 mmHg	SBP 130-139 mmHg DBP 70-79mmHg

Kulkarni et al. (2020) American College of Cardiology, Masoli et al. (2020) Age and Ageing, Shin & Kim (2022) Clinical Hypertension

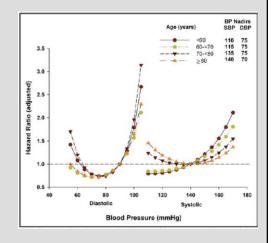
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Hypertension in the Elderly - Frailty + Age matters

- Non-Frail RCT
 - SPRINT Trial (2015)
 - Intensive control (SBP < 120) improved
 - · Cardiovascular outcomes IHD, stroke, heart failure
 - · Mortality
 - U shaped association for DBP and CV risk
 - Higher AKI + syncope

• Frail - observational studies

- Cardiovascular risk increases with SBP > 150mmHq
- Increased mortality SBP<130mmHq, DBP < 80mmHq
- Lowest Mortality risk Age ≥ 75 years
 - SBP 140-160mmHg
 - DBP 80-90mmHg
- No increased mortality risk with hypertension
 - >75 years + moderate to severe frailty
 - >85 years



Kulkarni et al. (2020) American College of Cardiology, Masoli et al. (2020) Age and Ageing, Atkins & Perkovic (2019) Aust Prescr, Benetos, Petrovic & Strandberg (2019) Circulation Research

Antihypertensives

- Deprescribing
 - Orthostatic hypotension

 - Reduced life expectancy
- Prioritise cardioprotective anti-hypertensives
 - Beta-blockers selective
 - Decreased falls risk (e.g. cardioprotective effects)
 - Non-selective may increase falls
 - Loop diuretics
 - · Increased falls risk

Benetos, Petrovic & Strandberg (2019) Circulation Research

- Alpha-blockers (e.g. prazosin)
 - Orthostatic hypotension
- Central alpha agonist (e.g. Clonidine)
 - CNS effects, bradycardia, orthostatic hypotension
- Nifedipine
 - Risk of myocardial ischaemia, hypotension
- Consider other medications steroids, NSAIDs, HRT

Quek et al. (2023) AJGP, O'Donnel & Ibrahim (2022) BMC Geriatrics, AGS Beer Criteria Update Expert Panel (2023) JAGS, Reeve et al (2018) Expert Opinion on Drug Safety, de Vries et al (2018) JAMDA

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Antihypertensives

- Recurrence within 3-4 months
 - Normotensive 40% at 1 year, 26% at 2 years
 - Recovered dilated cardiomyopathy 40% of patients relapsed at 6 months
- Non-pharmacological approaches
 - Exercise
 - · Reduced dietary sodium
 - · Smoking cessation

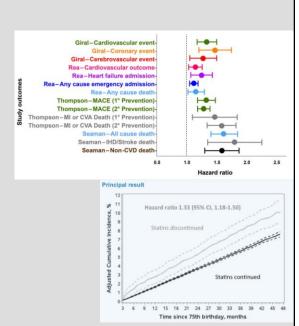
Reeve et al (2018) Expert Opinion on Drug Safety, de Vries et al (2018) JAMDA, Reeve et al. (2020) Cochrane

STATINS

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Statin Discontinuation

- · Associated with increased
 - Adverse cardiovascular outcomes
 - Emergency admissions
 - Mortality
- · Primary prophylaxis
 - 33% increased risk of admission for cardiovascular event
 - Per 1000 post discontinuation patient years
 - 9 more major adverse cardiovascular event (MACE)
 - 2 deaths
- Secondary prophylaxis worse
 - Per 1000 post discontinuation patient years
 - 11 more major adverse cardiovascular event (MACE)
 - 6 deaths
- All observational studies need RCT
 - Statins in the Elderly (SITE)
 - STAtin therapy for Reducing Events in the Elderly (STAREE)



Giral et al (2019) European Heart Journal, Thompson et al (2021) JAMA Network Open, Rea et al (2021) JAMA Network Open, Thomas, Ellison & Taffet (2023) JAGS

- Many guidelines refer to statins as inappropriate for patients:
 - Life expectancy < 2 years
 - Advanced dementia
- RCT 381 patients
 - Improved QOL
 - Deprescribing safe no statistically significant difference in mortality + few cardiovascular events
 - Trend towards mortality in statin discontinuation ? underpowered
 - Continuing statin not likely to be harmful

JAMA Internal Medicine | Original Investigation

Safety and Benefit of Discontinuing Statin Therapy in the Setting of Advanced, Life-Limiting Illness A Randomized Clinical Trial

Jean S. Kutner, MD, MSPH; Patrick J. Blatchford, PhD; Donald H. Taylor Jr, PhD; Christine S. Ritchie, MD; Janet H. Bull, MD; Diane L. Fairclough, DrPH; Laura C. Hanson, MD; Thomas W. LeBlanc, MD; Greg P. Samsa, PhD; Steven Wolf, MS; Noreen M. Aziz, MD, PhD; David C. Currow, BMed; Betty Ferrell, PhD; Nina Wagner-Johnston, MD; S. Yousuf Zafar, MD; James F. Cleary, MD; Sandesh Dev, MD; Patricia S. Goode, MD; Arif H. Kamal, MD; Cordt Kassner, PhD; Elizabeth A. Kvale, MD; Janelle G. McCallum, RN, MSN; Adeboye B. Ogunseitan, MD; Steven Z. Pantilat, MD; Russell K. Portenoy, MD; Maryjo Prince-Paul, PhD; Jeff A. Sloan, PhD; Keith M. Swetz, MD; Charles F. Von Gunten, MD, PhD; Amy P. Abernethy, MD, PhD

Kutner et al (2015) JAMA Intern Med, Quek et al. (2023) AJGP, de Vries et al (2018) JAMDA

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ASPIRIN

ORIGINAL ARTICLE

Effect of Aspirin on All-Cause Mortality in the Healthy Elderly

John J. McNeil, M.B., B.S., Ph.D., Mark R. Nelson, M.B., B.S., Ph.D., Robyn L. Woods, Ph.D., Jessica E. Lockery, M.B., B.S., Rory Wolfe, Ph.D., Christopher M. Reid, Ph.D., M.P.H., Brenda Kirpach, C.C.R.A., Raj C. Shah, M.D., Diane G. Ives, M.P.H., Elsdon Storey, M.B., B.S., D.Phil., Joanne Ryan, Ph.D., Andrew M. Tonkin, M.B., B.S., M.D., et al., for the ASPREE Investigator Group*

- ASPREE Trial 2018
 - 19,114 patients (Australia + USA)
- Primary Prophylaxis
 - No benefit disability free survival, cardiovascular disease
 - Also seen in ARRIVE TRIAL
 - Potential for harm
 - Increased GI bleeding increases with age
 - Increased mortality (cancer related GI) Australian patients
 - 1.6 excess deaths per 1000 person years
- Secondary prophylaxis
 - Indicated

McNeil et al. (2018) NEJM, Gaziano et al. (2018) The Lancet, Quek et al. (2023) AJGP, AGS Beer Criteria Update Expert Panel (2023) JAGS

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ANTICOAGULATION

Anticoagulation, AF and falls

- Anticoagulation is underprescribed (50% of elderly patients) due to falls risk and bleeding
- "Fear the clot, not the bleed" Benefits of anticoagulation outweigh risk
 - Ischaemic strokes tend to be more devastating/permanent than anticoagulation associated haemorrhage
 - Risk of ischaemic stroke 9x higher than risk of ICH in patients with AF (regardless of anticoagulation status)
 - Anticoagulation reduces risk of stroke by 2/3
 - Oldest patients derived greatest benefit
- "295 falls in 1 year" for the risk of falls related haemorrhage outweigh benefit of warfarin for stroke
 - Consider the type of falls + injuries
 - Mitigate falls risk
- AF + high risk of falls → 1.9 x higher risk of intracranial haemorrhage
 - No difference between warfarin, aspirin, no antithrombotic therapy
 - 30 day mortality higher with warfarin (51.8% vs 33.6%) for ICH

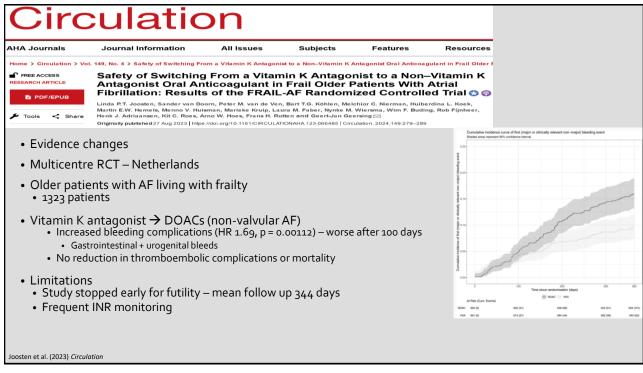
Hagerty & Rich (2017) Cleveland Clinical Journal of Medicine, Shanah et al. (2020) Cureus

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Anticoagulation - Non-valvular AF + VTE

- Warfarin vs DOACs (non-valvular AF + VTE)
 - Higher risk of major bleeding (esp intracranial haemorrhage) with warfarin
 - Consider continuing if long term use and well controlled INRs
- Dabigatran vs Apixaban
 - Higher risk of major bleeding + GI bleeding in older adults
- Rivaroxaban vs Apixaban
 - Higher risk of major bleeding + GI bleeding in older adults
 - Indications for Rivaroxaban
 - · Once daily dosing preferred
 - ?Reduced creatinine clearance > 15mL/min +/- dialysis (reduced dose 10mg daily)
 - Emerging evidence that Apixaban is safe in end stage renal failure (RENAL-AF)

AGS Beer Criteria Update Expert Panel (2023) JAGS, Benz & Eikelboom (2022) Circulation, Tseng et al. (2023) EJHaem, Noseworthy et al. (2016) Chest, Jaksa et al (2022) BMJ Open



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PROTON PUMP INHIBITORS

Proton pump inhibitors

- Risks
 - · Falls and fractures
 - · C. difficile infection
 - · Chronic kidney disease
 - · Altered absorption of nutrients
 - B₁₂ deficiency
 - · Hypomagnesaemia
 - · Hypocalcaemia
- Avoid scheduled use > 8 weeks
- Clarify **Indication** High risks for deprescribing:
 - Chronic NSAID use + Corticosteroids
 - Barrett's/erosive/eosinophilic oesophagitis
 - · Peptic strictures
 - Pathologic hypersecretory syndrome
 - Prior bleeding gastric ulcer/High bleeding risk liaise with gastroenterologist
 - Failure of drug discontinuation

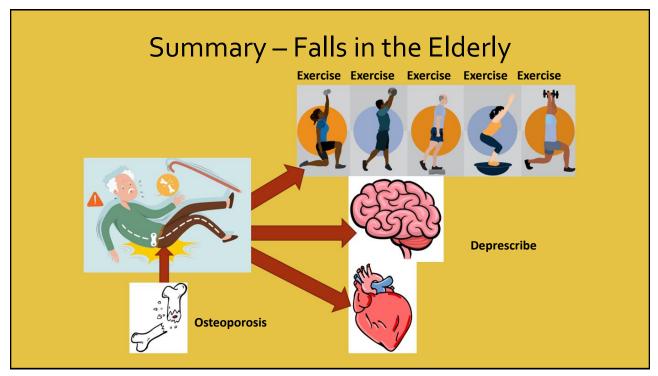
Targownik, Fisher & Saini (2022) Gastroenterology, Quek et al. (2023) AJGP, AGS Beer Criteria Update Expert Panel (2023) JAGS, Reeve et al (2018) Expert Opinion on Drug Safety AlHarkan et al (2023) BMC Geriatrics, Seppala et al. (2018) JAMDA, NSWTAG, Boghossain et al (2017) Cochrone, Steinman & Reeve (2023) UptoDate

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Proton pump inhibitors

- Recurrence of symptoms requiring resumption of long term PPI
 - GORD, dyspepsia, unknown 30-70% over 12 months
 - Halved by intermittent use of alternative therapies (H2 antagonists, antacids)
 - Rebound hypersecretion within 4 weeks
 - PRN or tapered PPI
- Lifestyle modifications diet, weight, smoking

Targownik, Fisher & Saini (2022) Gastroenterology, Quek et al. (2023) AJGP, AGS Beer Criteria Update Expert Panel (2023) JAGS, Reeve et al (2018) Expert Opinion on Drug Safety AlHarkan et al (2023) BMC Geriatrics, Seppala et al. (2018) JAMDA, NSWTAG, Boghossain et al (2017) Cochrane, Steinman & Reeve (2023) UptoDate



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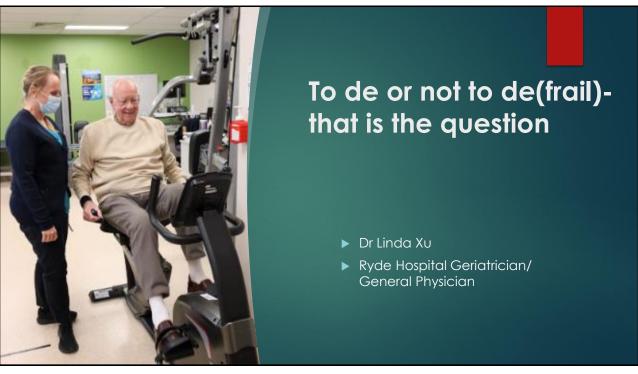
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Declarations

- Sponsored attendance by Abbott at Muscle Health in GP Roundtable Meeting July 2023 as NSW Council Member of Australia and New Zealand Society for Sarcopenia and Frailty Research (ANZSSFR)
- Consultative role in Estia Health Clinical Governance Committee
- NSW Council Member of ANZSSFR
- NSW Aged Care Roundtable
- ANZSGM NSW Secretary
- ▶ ACI RACF Outreach Community of Practice
- ANZSGM Out of Hospital Special Interest Group
- ▶ Northern Sydney Healthy Ageing and Palliative Care Advisory Group

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84yo Ms T referred to G2G

- ▶ 6 months of lightheadedness/weakness and fatigue
- Known to have postural drops in BP up to 25mmHg
- Seen by two cardiologists
- ▶ Intermittent nausea, poor appetite and lost 4kg
- Cancer screen FOBT, mammogram, CXR and CT abdomen
- ► CT- ?Intraductal papillary mucinous neoplasm in pancreatic ducts. Unchanged infrarenal AAA 4.8cm diam.
- ▶ Sleep apnoea and new CPAP machine-?cause of fatigue

Medical background

- ▶ OSA
- ► Type 2 Diabetes Mellitus
- ► CABG 1993 and coronary stents (RCA: ► Diverticular disease DES)
- ► TIA 2019- expressive dysphasia
- ▶ PPM 2019
- ► Atrial tachycardia with 2:1 block 2022
- ► Carotid endarterectomy bilateral
- ▶ Hyperlipidaemia
- ▶ Hypertension

- Hysterectomy
- ► Stress incontinence-sling operation
- ▶ Bilateral cataracts and ?macular degeneration- on 10 weekly injection
- Anxiety and depression
- ► Atrial fibrillation
- ▶ Subarachnoid haemorrhage
- ► Aortic aneurysm- abdominal- 5.1cm on u/s August 2023

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Medications

- ► Aspirin 100mg daily
- ▶ Linagliptin/metformin 2.5/500mg BD
- ▶ Diamicron MR 120mg nocte
- Optisulin solostar 16 units predinner
- ▶ Digoxin 62.5mcg nocte
- Flecanide 50mg as needed
- Sotalol 40mg BD
- ► Methanamine Hippurate 1g BD
- Omeprazole 20mg nocte
- GTN spray 400mcg PRN
- Colecalciferol 1000 units daily
- ► Ezetimibe/rosuvastatin 10/40mg daily
- Fenofibrate 48mg daily

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		Question	Scoring
FRAIL Scale	F	FATIGUE How much of the time during the past 4 weeks did you feel tired? A= All or most of the time B= Some, a little or none of the time	A = 1 B = 0
► Morley 2012	R	RESISTANCE In the last 4 weeks by yourself and not using aids, do you have any difficulty walking up 10 steps without resting?	Yes = 1 No = 0
Money 2012	A	AMBULATION In the last 4 weeks by yourself and not using aids, do you have any difficulty walking 300 metres OR one block?	Yes = 1 No = 0
	I	ILLNESS Did your Doctor ever tell you that you have? O Hypertension Diabetes Cancer (not a minor skin cancer) Chronic lung disease Heart attack Congestive heart failure Angina Arthritis Kidney disease	0 – 4 answers = 0 5 – 11 answers = 1
	L	LOSS OF WEIGHT Have you lost more than 5kg or 5% of your body weight in the past year?	Yes = 1 No = 0

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Dizziness resolved after review with sleep physician and compliant with CPAP
F atigue most of time. Last feel fine 18 months ago. GDS 8
R esistance- able to do 10 steps
A mbulation- use to do 5 mins on treadmill >1 mth prior
I llness- multiple
L oss of weight- 6kg
FRAIL scale 4/5 (= frail)

Issues

- Frailty and sarcopenia with unintentional weight loss
- Depression
- ▶ Needing services- transport, shopping (as physical aspects of this difficult), cleaning

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Management plan

- Referral to CAReS (Ryde Hospital outpatient)
 - Social worker
 - Dietitian
 - Physiotherapy
- Carer Gateway info
- ▶ RAS info
- Consideration of antidepressant if mood does not improve with exercise
- ▶ Home exercises- sit to stand
- ▶ 6 month review

John and Dorothy

- ▶ John-85yo
- Increasingly unsteady gait
- ► Referred to the Community Aged Care and Rehab Services (CAReS) at Ryde Hospital for opinion and management in regard to mobility and falls risk



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Medical background

- ▶ Asthma
- ▶ Siatica
- **▶** BPH
- ▶ Hypertension
- ▶ OA
- ▶ THR 2022
- ▶ Renal impairment

Medications

- ▶ Dutasteride/ tamsulosin
- ▶ Budesonide 400mcg 2 BD
- ▶ Telmisartan 80mg daily
- ► Oxycodone 2.5mg TS and PRN
- ▶ Pregabalin 25mg mane, 75mg nocte
- ► Allopurinol 150mg daily
- ▶ Pantoprazole 20mg daily
- ▶ Ventolin PRN
- ▶ Rivaroxaban 10mg daily

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- Active and healthy life in NSW Police force for over 40 years rising to rank of Superintendent
- Member of local surf club, played golf and lawn bowls
- ▶ No longer bowling after knee operation and mobility decline
- ▶ Mobility: w/s and fatigue easily
- Many near misses and trips

John's FRAIL score

- ▶ How much of the time during the past 4 weeks did you feel tired? : A = All or most of the time
- ▶ In the last 4 weeks by yourself and not using aids, do you have any difficulty walking up 10 steps without resting? : Yes
- ▶ In the last 4 weeks by your self and not using aids, do you have any difficulty walking 300 metres? : Yes
- Did your Doctor ever tell you that you have: Hypertension, Cancer (not a minor skin cancer), Asthma, Arthritis, Kidney Disease
- Frail:Illness interp: 1
- Have you lost more than 5kg or 5% of your body weight in the past year?Yes
- Total Score: 5
- Frail total interp : Frail

- ▶ Fit and Strong 6 week fitness program
 - ▶ target frail and pre-frail people
 - ▶ focus on strength, balance, endurance
 - ▶ teach clients how to exercise safely
- ▶ 1:1 sessions and group class and met other "gym buddies".
- Dietitian
- Speech path including FESS (video fluoroscopy)
- Social worker- accessing and managing services to support
- ▶ OT- Home safety assessment
 - ▶ Number of aids implemented- grab rails near external doors, ramps, rail in shower and toilet
- Geriatrician for medication review

Result

- ▶ Pre-program- walking stick and short distances. Few falls in home
- Post program- no walking stick around home and yard
- ► FRAIL scale 2/5 (pre-frail) 3 months later

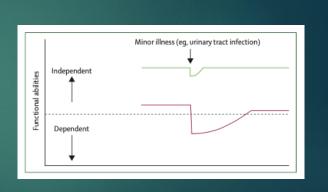


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"Frailty is a state of increased vulnerability to poor resolution of homoeostasis after a stressor event, which increases the risk of adverse outcomes, including falls, delirium, and disability. " Clegg et al. Lancet 2013.

ACI Acute Care Taskforce working definition:

"A predominantly age-related state of patient fragility or increased vulnerability that results from a compromised ability to maintain homeostasis and limited functional reserves across multiple physiologic systems."



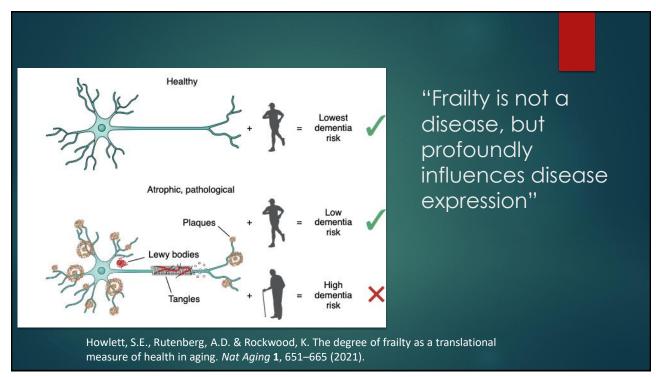
Frailty

- Reduced physiological reserve resulting in poor physical function.
- ▶ Increases individual's risk of functional dependence, institutionalisation, death
- Studies indicate people who have both cognitive impairment and slow walking speed 5x more likely to develop dementia

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Prevalence of frailty

- NZ acute hospital adult inpatients: 49%
- Australian community over 65 yo: 21% frail, 48% pre-frail
- European community over 65yo: 17%
- Australian acute hospital medical inpatients over 75 yo: 55%





	Assessment Score	Intervention	Referral/ Follow up
	FRAIL scale 0 = robust	Encourage ongoing activity levels Provide Staying Active and on your feet and Eating Well resource	Re-do FRAIL scale in 12 months Community exercise with balance/resistance component. Try NSLHD Stepping On and Healthy Lifestyle classes. Example of exercises in Saying Active and On Your Feet booklet and NSW exercise venues: ww.activeandhealthy.nsw.gov.au
	FRAIL scale	If Frailty Score is positive, address underlying c	auses as sugges ted below
	1-2 = Pre-frail FRAIL scale >3 = Frail	Consider screening for reversible causes of fatigue (sleep apnoea, depression, anaemia, hypotension, hypothyroidism, B12 deficiency)	Consider referral to Geriatrician / Specialist for complex care patients Consider referral to Occupational Therapy for functional and home review
F	Feeling fatigued most or all of the time	Use EPWORTH scale, K10 or Geriatric Depression scale in Health Assessment	Consider referral Psychologist using Mental Health Care Plan Consider referral to Aged Care organisation for loneliness support (isolation can be a cause of fatigue!)
R	Resistance against gravity - Difficulty walking up 10 steps without resting	 Consider referring to an individualised progressive exercise program with resistance and strength component 	Physiotherapy or Exercise Physiologist for exercise prescription If has diabetes- group session Medicare funded ex. physiologist Healthy Lifestyle for group exercise prescription and/or Stepping On Get Healthy for free telephone-based health coaching NSHNS Safe and Steady program
A	Ambulation- Difficulty walking 300 metres unaided	Consider referring to an Individualised progressive exercise program with resistance and strength component	Physiotherapy or Exercise Physiologist for exercise prescription Healthy Lifestyle for group exercise prescription and/or Stepping On Get Healthy for free telephone-based health coaching Exercise options https://www.activeandhealthy.nsw.gov.au
1	Having 5 or more Illnesses	Review indication, side effects and use of medication (evidence for use of some medicines changes after 75!) Consider discussing with pharmacist Consider reducing/de-prescribing superfluous medication	Pharmacist for comprehensive medication review, (HMR item 900) Occupational Therapy for functional and home safety review Self-management support from aged care org volunteer
L	Loss of > 5% weight in 12 months	Consider screening for reversible causes of weight loss and consider Protein and caloric supplementation/ food fortification (75mg protein per day required-range of products available at pharmacy) Advice and encourage healthy eating: provide "Eating Well" resource	Weigh and assess BMI – record in patient record Dietician for diet review and management Add Sustagen Meal Delivery Services Speech pathologist for ewallowing review Dentist for dental review (pain/infection/ill fitting dentures) Occupational Therapy for functional and home cooking ability review



SPEAKER INTRODUCTION



Welcome to our speakers for Keeping Well and Independent Program

- Dr Charbel Badr, General Practitioner (FRACGP)
- Hunters Hills Medical Practice







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Clinic Medical Team

Allied health

- Physiotherapy

- Dietitian

- Psychology

On site medical Specialists

- Cardiology

- Respiratory

- Endocrine

- Gastroenterology

- Geriatrician

- Nephrology

- Audiology

- Podiatry

- Pathology collection

On site surgical specialists

- General / Colorectal

- Orthopaedic

- Vascular

- plastics

- Urology

- Gynaecology

GP TEAM

Medical Director

15 GPs (M & F)

Care Coordinator

4 Nurses

KWIP Coordinator (intake + flow)



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KWIP program



Multiple services based on patient need



Nurse case management / care coordination and follow up



Long term GPs, working as a team, home and aged care visits



Co-located allied health and specialist services as needed



Good relationships with local pharmacies for medication reviews



Access to geriatrician at Ryde or upstairs as needed



VIP services for KWIP program patients

Phone call review and Triage by RN when needed

Nurse appointment at the practice within 4 hours or 1st in AM

Nurse case management, phone calls, assistance with bookings etc

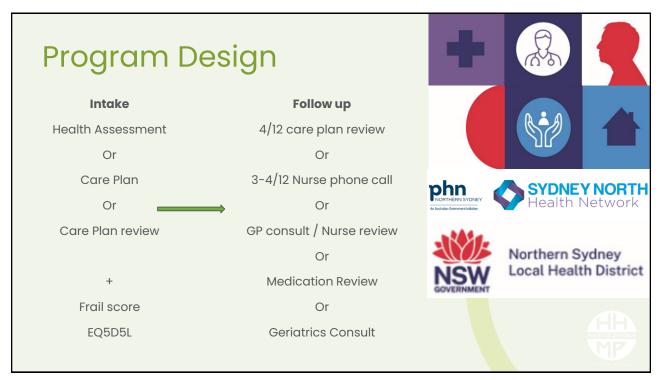
Seen by a practice Dr if required same day or next day at latest

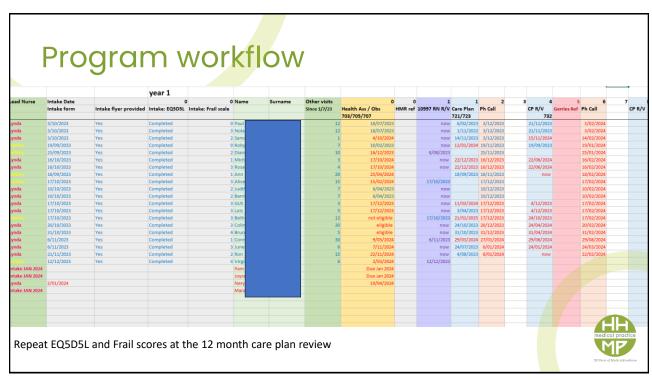
Fit in with their own Dr the next day that Dr is in the practice

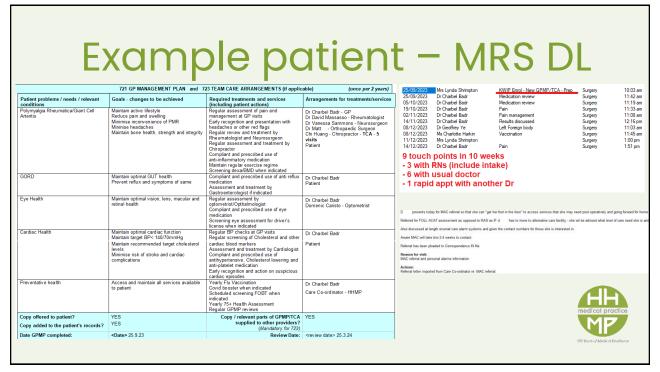
Priority for home visits with the Dr or an RN check in if appropriate



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Example patient - MR CJ

Patient problems / needs / relevant conditions	Goals - changes to be achieved	Required treatments and services (including patient actions)	Arrangements for treatments/services
Cardiac Health PPM/Defib insitu Known CCF Recent non Sustained VT Previous Atrial Fibrillation Mitral Valve repair - 2018	Maintain optimal cardiac function Maintain target BPS + 410/70mHg Maintain recommended target cholesterol levels Minimise risk of stroke and cardiac complications	Regular PP-checks at GP wists Regular screening of Cholesterol and other cardiac blood markers Assessment and treatment by Cardiologist Compliant and prescribed use of antihypertensive, Cholesterol lowering and anti-platelet medication Early recognition and action on suspicious cardiac episodes	Dr Charbel Badr - GP A/Frof Eugene Kotlyar - Cardiologist Kelly Hanly - Cardiac RN - RNSH Patient
Bone Health Known Osteoarthritis Borderline Osteopenia	Maintain bone health, strength and integrity Prevent falls and fractures Minimise pain Maintain active and independent lifestyle Maintain active and independent lifestyle	Regular assessment of pain and management at GP visits Regular screening BMD/Dexa when indicated Assessment and treatment by Podiatrist Compliant and prescribed use of Bone health medication Maintain regular exercise regime	Dr Charbel Badr Sophia Gould - Podiatrist - TCA - 5 visits
Renal Health Known Chronic Renal failure	Maintain optimal Kidney Function Minimise organ complication due to Diabetes and CKD	Regular screening of renal markers Regular review and assessment by Nephrologist	Dr Charbel Badr Prof Jacob Sevastos - Nephrologist
Skin Health Prev SCCs Prone to skin tears/wounds Current treatment for Seb Cyst	Maintain lesion free skin Identify early suspicious and suspect lesions Treat and heal sebacous cyst on Right front chest	Regular Skin checks at GP Assessment and treatment by Dermatologist Early recognition and action on suspect lesions Sun safe strategies undertaken by patient to protect skin	Dr Charbel Badr RNs at HHMP
Increasing Frailty	Maintain independent living Mininise falls and hospital admissions Ensure safe medication protocols Promote safe and familiar surroundings Monitor cognition	Regular assessment at GP visits Assessment and treatment by Geriatrician Yearly MMSE in 75+ HAS HMR review if indicated KWIP program enrolment and participation	Dr Charbel Badr KWIP program My Aged Care
Preventative Health	Access and maintain all services available to patient	Yearly Flu Vaccination Covid booster when indicated Scheduled screening FOBT when indicated Yearly 75+ Health Assessment Regular GPMP reviews	Dr Charbel Badr Care Co-ordinator - HHMP
Copy offered to patient?	YES	Copy / relevant parts of GPMP/TCA	YES
Copy added to the patient's records?	YES	supplied to other providers? (Mandatory for 723)	

20/10/2023	Mrs Lynda Shrimpton	KWIP enrollmeent	Surgery	12:15 pm
20/10/2023	Mrs Pari Khadka	Wound review	Surgery	12:45 pm
23/10/2023	Ms Charlotte Harkin	Wound care	Surgery	12:40 pm
23/10/2023	Mrs Lynda Shrimpton	GPMP/TCA - Prep	Surgery	2:47 pm
24/10/2023	Dr Charbel Badr	Care plan	Surgery	9:29 pm
25/10/2023	Dr Leo Tam	?Gout, Wound care	Surgery	12:28 pm
25/10/2023	Ms Charlotte Harkin	Wound care	Surgery	1:21 pm
27/10/2023	Ms Ashley Elek	Wound care	Surgery	3:48 pm
10/11/2023	Dr Rachel LaBlack	Blood test results	Surgery	12:26 pm
21/11/2023	Dr Geoffrey Ye	Gouty tophi, Skin tag	Surgery	2:29 pm
21/11/2023	Ms Ashley Elek	Wound care	Surgery	3:47 pm
22/11/2023	Dr Geoffrey Ye		Surgery	1:55 pm
2/11/2023	Dr Leo Tam	?Tophus, Results review	Surgery	3:06 pm
24/11/2023	Dr Geoffrey Ye	Results discussed	Telephone	9:58 am
27/11/2023	Ms Ashley Elek	Wound care	Surgery	3:15 pm
27/11/2023	Dr Charbel Badr	Dressing change	Surgery	3:30 pm
29/11/2023	Ms Ashley Elek	Wound care	Surgery	2:51 pm
01/12/2023	Ms Ashley Elek	Wound care	Surgery	2:48 pm
04/12/2023	Mrs Gabrielle Mctieman	Wound care	Surgery	2:38 pm
06/12/2023	Ms Ashley Elek	Wound care	Surgery	1:51 pm
08/12/2023	Dr Leo Tam	Wound care, Skin tag	Surgery	12:35 pm
08/12/2023	Ms Charlotte Harkin	Wound care	Surgery	12:48 pm
11/12/2023	Ms Ashley Elek	Wound care	Surgery	2:42 pm
	ich points from			
 Multip 	le nursing inpu	ts		
		>45min each		

- 4 doctors involved



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KWIP Progress

Patients registered = 30 (100 % of our target)

Intake questionnaires and education = 100%

Health Assessments up to date = 86%

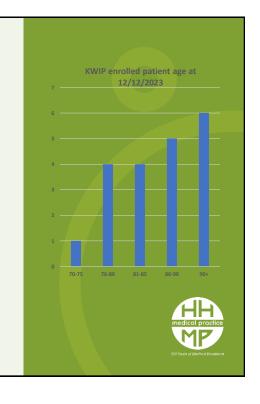
Care Plans up to date = 75%

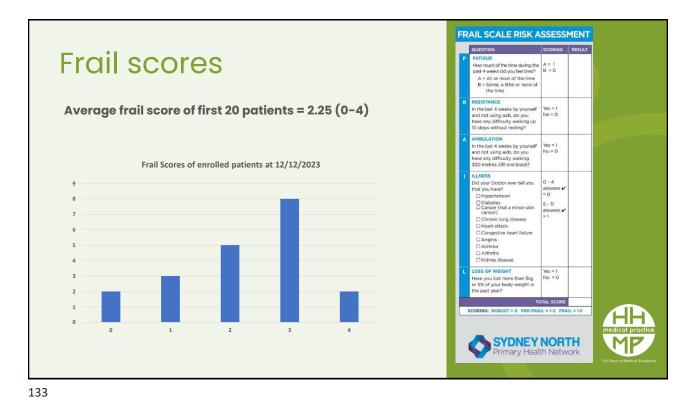
At least 1 other GP contact in first 5 months = 100%

First phone call for patients who are due = 20 100%

At least 1 nurse contact in first 5 months = 100%

Appointments pre booked





Planned Next Steps

Increase geriatrics reviews→ Our primary focus was on registration so our Reviews are behind schedule for about 50% of patients

Medication reviews → We are in the process of finalising a systematic way to refer patients who need it

Improve workflow → A continuous process where we change the order of tasks as we learn from the program or individualise for various patients what would suit them best

Bigger drive / more staff > The process has been led by a few doctors (early adopters) we plan to widen this to more doctors in the practices

Home assessments → Roll this out for those who need it

Case management → increase the roles done and independence within a framework – take this to the next level!



Issues

Primary Sense → takes some getting used to

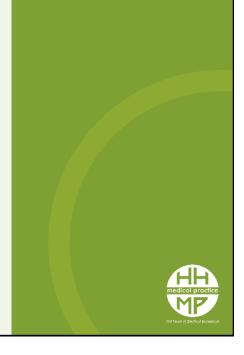
Provided patient lists → these are a guide only so can be hit and miss / use your own knowledge of your patient population

Intake feedback (in person) → This is very difficult for patients to do independently or from home, most of them need to be done with the RN at the clinic

EQ-5D-5L→ document this score, so we when repeated you can compare and look for improvement.

Patient movement→ patients can move off the program if they go into nursing home or no longer need support

Patient resistance Some patients feel they do not need the extra support and decline to join program.



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150 Years of Medical Excellence

Q&A Session with Geriatricians



- Dr Alexandra Annesley
- Dr Praveeen Sivabalan
- Dr Linda Xu

Please raise your hand with your question







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