

When Should Preventive Therapies be Stopped in Older Adults

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Objectives

- Understand potential benefits/risk of cardiovascular (CV) medication in the "oldest old" population
- Use cognitive & physical function to tailor treatment to older adults
- Apply current CV guidelines to older adults appropriately

Aspirin for primary prevention

ASPREE trial

Aspirin (ASA) for primary prevention in healthy older adults

- 19,114 participants
 - 65yo + with No hx CV event, dementia, or disability
 - 4.7y median
 - 100mg ASA v placebo
- Rate of CV disease (Hazard ratio (HR) 0.95)
 - 10.7 event per 1000 person yr (ASA)
 - 11.3 event per 1000 person yr (placebo)
- Rate of Hemorrhage (HR 1.38)
 - 8.6 event per 1000 person yr (ASA)
 - 6.2 event per 1000 person yr (placebo)

ASA did not sig decrease CV risk

ASA sig increased bleeding risk

ASCEND trial

ASA for primary prevention in Diabetics (DM)

- 15,480 participants
 - DM but no CV disease
 - 7.4y mean
 - 100mg ASA v placebo
- Serious vascular events (Rate ratio (RR) 0.88, p=0.01)
 - ASA 8.5%
 - Placebo 9.6%
- Major bleeding (RR 1.29, p=0.003)
 - ASA 4.1%
 - Placebo 3.2%

ASA sig decreased risk of CV event in diabetics

ASA sig increased risk of major bleeding in diabetics

Statin therapy

PROSPER trial

Statin use for primary & secondary prevention in older adults

- 5,804 participants
 - 70-84yo – with history of OR risk factors for vascular disease
 - Pravastatin 40mg daily vs placebo
 - 3.2y avg
- CV events (HR 0.88, $p=0.014$)
 - 408 (statin) vs 473 (placebo)
- CHD death & non-fatal myocardial infarction (MI)
 - HR 0.81, $p=0.006$
- Stroke
 - HR 1.03, $p=0.8$

Statins reduced CV mortality & non-fatal MI's in older adults

Statins did not reduce stroke risk in older adults

STAREE trial

"STAtins in reducing events in the elderly"

- Primary prevention with low dose statin in older adults
 - 10,000 participants
 - 70yo +
 - Atorvastatin 40mg vs placebo
 - Measured outcomes
 - CV events
 - "disability free survival" (dementia, disability, death)

Individualizing therapy for older adults

Factors to consider

Age

- Oldest old subset

Frailty

- Chair rises

Cognitive status

- Mild cognitive impairment vs dementia
- Type of dementia – life expectancy

Factors to consider

Life expectancy

- Lee Schonberg Index (UCSF ePrognosis) - 5/10y mortality risk & life expectancy
 - Age, sex, BMI, general health status, hx cancer, lung disease, DM, smoking
 - Ability to walk $\frac{1}{4}$ mile without assistance
 - # hospitalizations over 12mo
 - IADL & ADLs assistance

Factors to consider

Medication & caregiver burden

- Polypharmacy – 10+
- Dosing interval/mode
- Cost

Quality of life

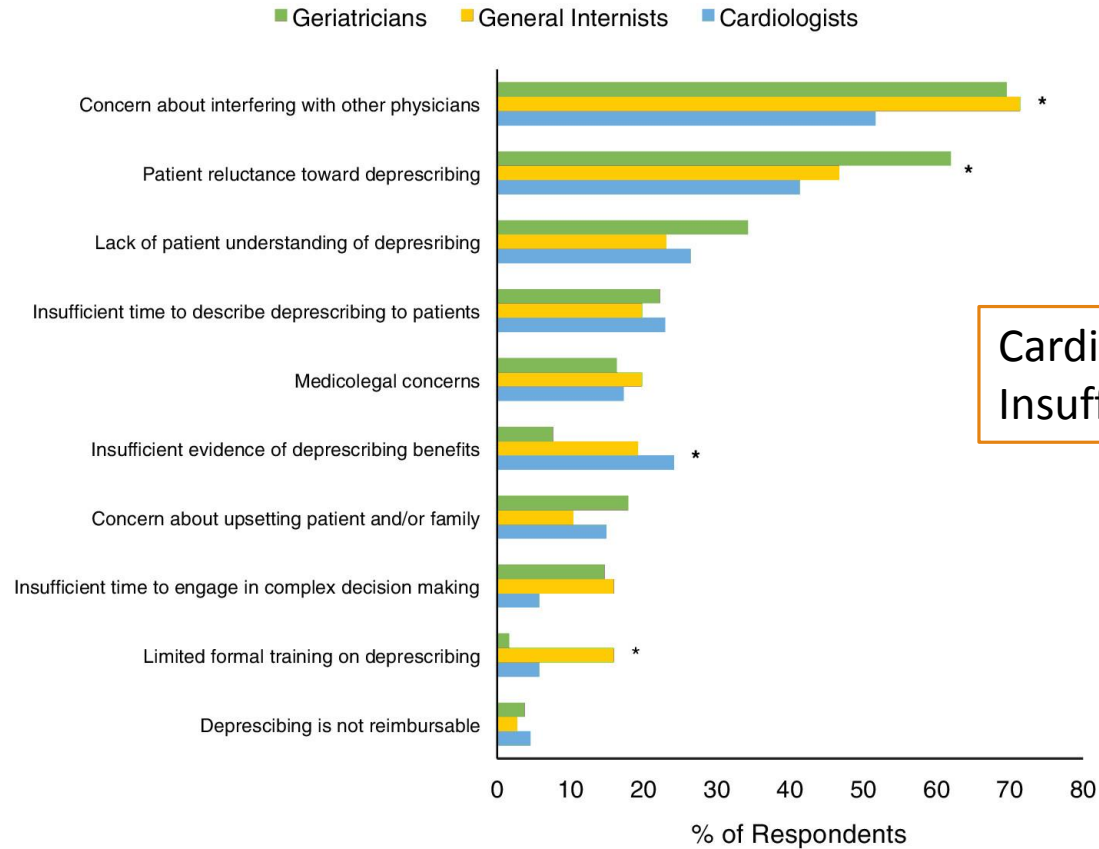
- Side effects of treatment vs expected benefits

Patient goals for care

Barriers to Deprescribing CV medications

Internists:
 1. Concern over other physicians
 2. Limited deprescribing training

Geriatricians:
 Patient reluctance



Cardiologists:
 Insufficient deprescribing evidence

*P<0.05

Questions??



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