



Disentangling complex conditions Dementia research in CRIS

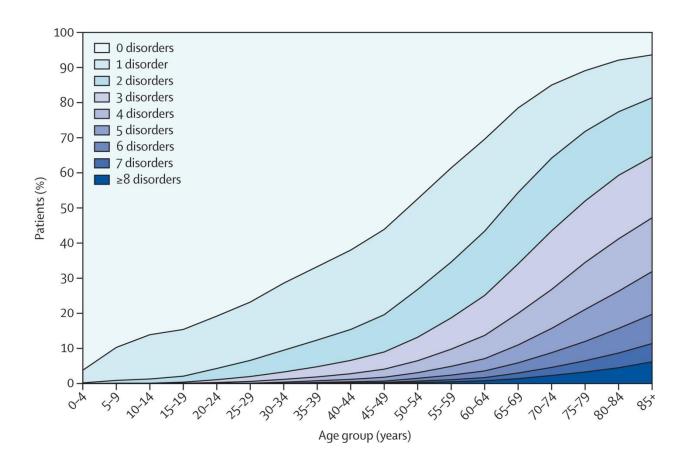
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Barnett et al., 2012, Lancet







Underrepresentation of Elderly People in Randomised Controlled Trials. The Example of Trials of 4 Widely Prescribed Drugs

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ORIGINAL INVESTIGATION

The Persistent Exclusion of Older Patients From Ongoing Clinical Trials Regarding Heart Failure

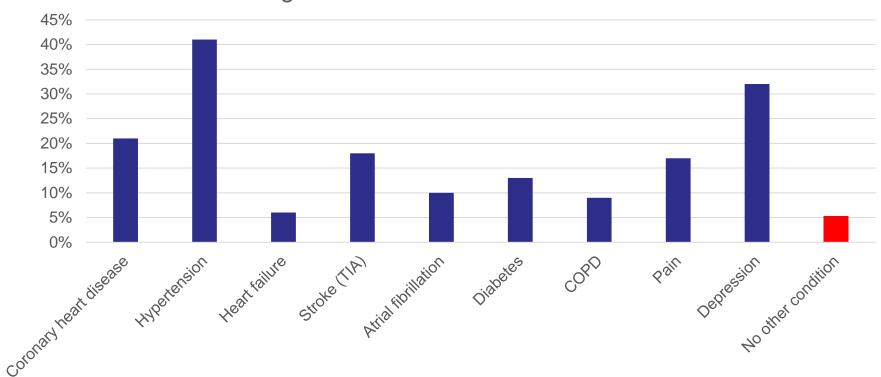
Antonio Cherubini, MD, PhD; Joaquim Oristrell, MD, PhD; Xavier Pla, MD; Carmelinda Ruggiero, MD, PhD; Roberta Ferretti, MD; Germán Diestre, MD; A. Mark Clarfield, MD, FRCPC; Peter Crome, MD, DSc; Cees Hertogh, MD, PhD; Vita Lesauskaite, MD, PhD; Gabriel-Ioan Prada, MD, PhD; Katarzyna Szczerbinska, MD, PhD; Eva Topinkova, MD, PhD; Judith Sinclair-Cohen, BSD; David Edbrooke, MD, FRCA; Gary H. Mills, MD, PhD

Exclusion of Older Adults from Ongoing Clinical Trials About Type 2 Diabetes Mellitus

Alfonso J. Cruz-Jentoft, MD, PhD, Marina Carpena-Ruiz, MD, Beatriz Montero-Errasquín, MD, Carmen Sánchez-Castellano, MD, and Elisabet Sánchez-García, MD







Guthrie et al., 2012, BMJ





Mini Mental State Examination





Mini Mental State Examination



	Placebo (n=712)	Risperidone (n=1009)	Haloperidol (n=115)	Total (n=1836)
Mean MMSE (SD)	9.0 (6.6)	8.3 (6.6)	8.0 (6.5)	8.5 (6.6)
Range	0-23	0-24	0-22	0-24

Howard et al., 2016, BJPsych

At death in 1400 C&I residents: Mean MMSE 15.3 (7.0)

Aworinde et al., 2018, BMC Psychiatry

At diagnosis in CRIS (n=14,093): Mean MMSE 18.6 (6.4)









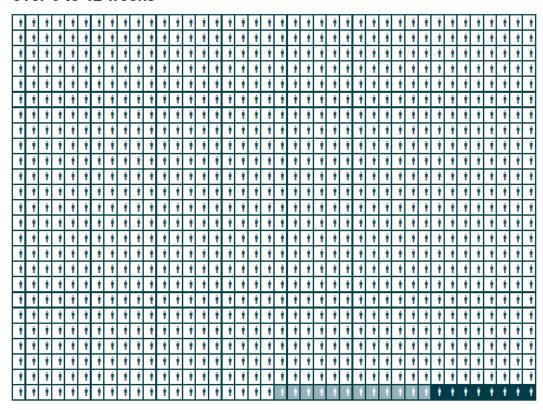








Effect of antipsychotics on the risk of stroke over 6 to 12 weeks



It is not possible to know in advance what will happen to any individual person.

NICE, 2018

Antipsychotics





Agitation & Psychosis (Ag+/Ps+)

HR: 0.96

(0.42-2.21)



Psychosis, but no Agitation (Ag-/Ps+)

HR: 2.16

(1.09-4.25)



Agitation, but no Psychosis (Ag+/Ps-)

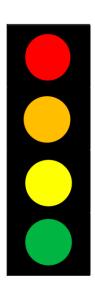
HR: 1.09

(0.63-1.86)

Anticholinergics



Anticholinergic effect on Cognition (AEC) scale

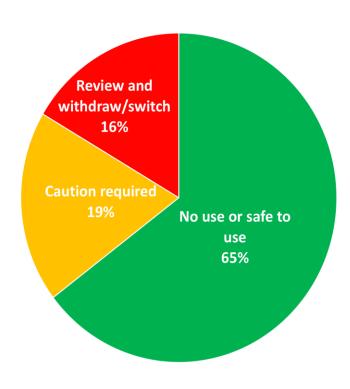


Score 3 – Review and withdraw/switch – 21 drugs

Score 2 – Review and withdraw/switch – 19 drugs

Score 1 – Caution required – 34 drugs

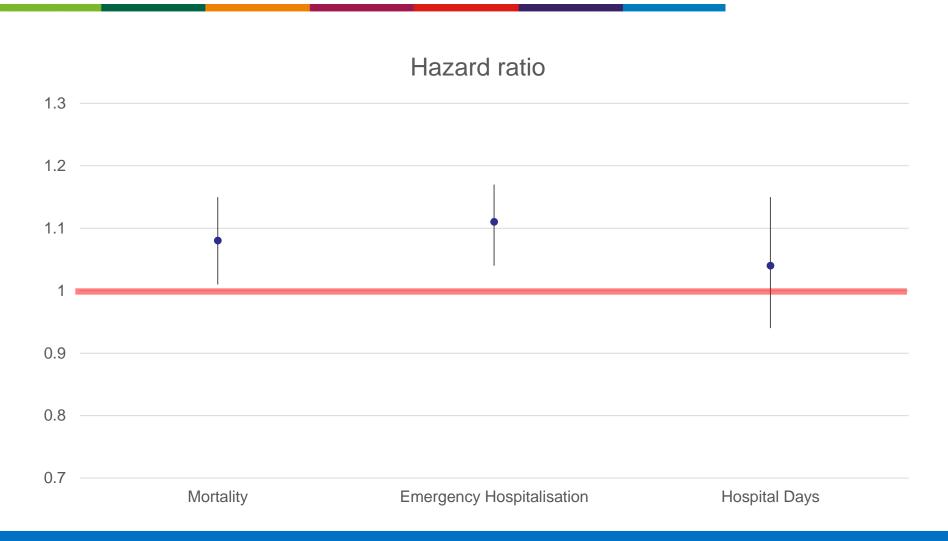
Score 0 – Safe to use – 159 drugs



Bishara et al., 2017, IJGP

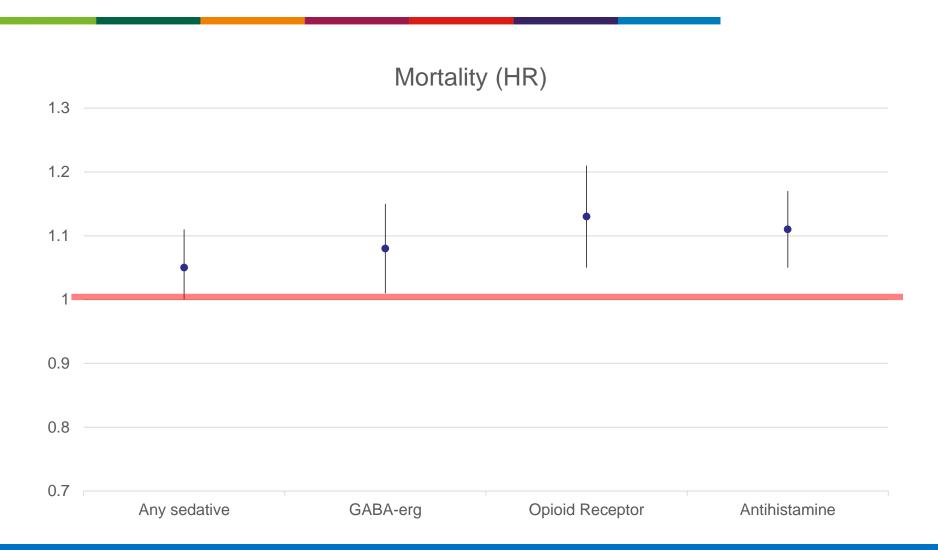
Anticholinergics





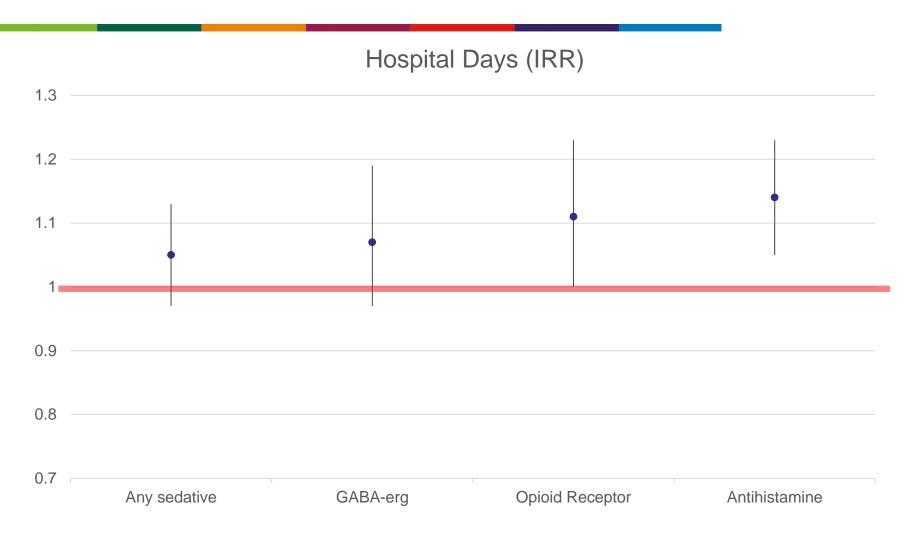
Sedatives





Sedatives









Label	Drug	Score	Dosage	
0	Aripiprazole	1	I.E Dosage and/or frequency	_ ×
0	Sertraline	1	I.E Dosage and/or frequency	×
2	Tolterodine	2	I.E Dosage and/or frequency	×
0	Amlodipine	0	I.E Dosage and/or frequency	_ ×

INTERPRETING THE SCORE

 Consider reviewing all individual drugs with an AEC score of 2 or above to see whether they can either be withdrawn or switched to a drug with a lower AEC score (preferably 0).

 The individual AEC scores of drugs are added together for each patient so as to calculate the total AEC score.

- Consider carrying out a medication review for all patients with a total AEC score of 3 or above to see whether the total AEC score can be reduced to the minimum possible.
- Note that some drugs may have an AEC score of 0 but can still cause cognitive impairment through other pharmacological mechanisms.
- Note that drug dosage is not taken into account when using this scale.



Add custom drug

Numbers below score badges represent total number of drugs per score category

4

Trazodone





Experts excited by brain 'wonder-drug'

By James Gallagher
Health and science reporter, BBC News website

① 20 April 2017

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Share

Scientists hope they have found a drug to stop all neurodegenerative brain diseases, including dementia.

In 2013, a UK Medical Research Council team stopped brain cells dying in an animal for the first time, creating headline news around the world.

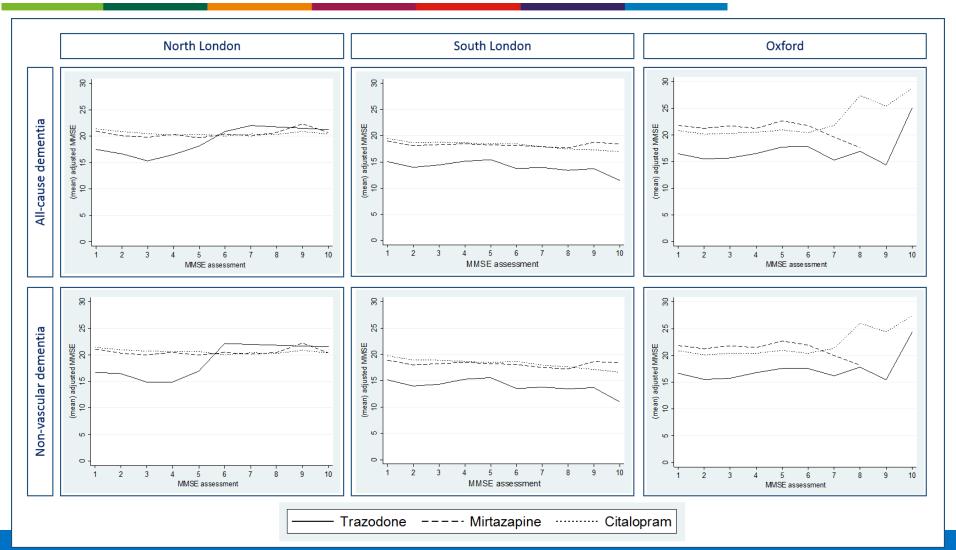
But the compound used was unsuitable for people, as it caused organ damage.

Now two drugs have been found that should have the same protective effect on the brain and are already safely used in people.



Trazodone

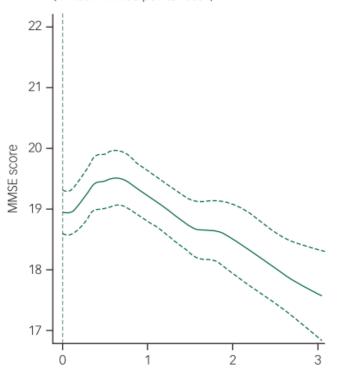




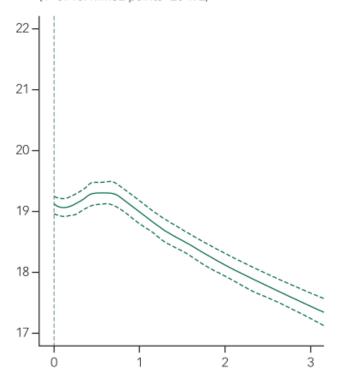


Centrally acting ACE-inhibitors

Patients receiving centrally acting ACE inhibitors (n=1207: MMSE points=5631)



Patients not receiving ACE inhibitors (n=3910: MMSE points=20492)



Fazal et al., BJPsych Open, 2017

