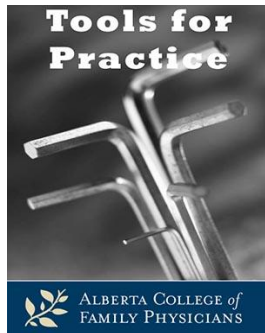


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## **The depressing evidence for antidepressants in the elderly**

**Clinical Question: How effective are antidepressants for treating depression in the elderly?**

**Bottom Line: The efficacy of antidepressants in the elderly is inconsistent and may decrease as patients age. From 80% to 40% of elderly patients will recover with antidepressants, with some studies showing no difference from placebo response rates. Harms of antidepressants are common, with ~20% stopping due to adverse effects.**

### **Evidence:**

- 5 recent systematic reviews of randomized, placebo-controlled trials (RCTs) used different ages for inclusion:
  - All antidepressants, mean age ~70, followed mostly 4 weeks (range 3-20), statistically different rates of "recovery" (achieving a set change in or reaching a predetermined depression score):<sup>1</sup>
    - Tricyclic Antidepressants (TCAs) (10 RCTs): 75% versus 51% (placebo), Number Needed to Treat (NNT)=5.
    - Selective Serotonin Reuptake Inhibitors (SSRIs) (2 RCTs): 83% versus 72% (placebo), NNT=10.
  - SSRIs and newer antidepressants only: 10 RCTs, mean ages 68-80, followed 6-12 weeks, statistically different rates of:<sup>2</sup>
    - Response (>50% improvement in symptoms): 44% versus 35% (placebo), results inconsistent.
    - "Remission": 33% versus 27% (placebo), results inconsistent.
  - Any antidepressant: 15 RCTs, mean follow-up ~7 weeks:<sup>3</sup>
    - Response (>50% improvement in symptoms): decreased with age:
      - 54% for mean age 44, 42% for mean age 73.
      - Placebo response rates similar regardless of age (~33-39%).
        - Post-hoc analysis: no difference from placebo when limited to studies over age 65.
  - SSRIs only: 12 RCTs, mean ages 70-79, followed for mostly 8 weeks:<sup>4</sup>
    - Response or remission: no difference compared to placebo.
  - Limitations: Often based on secondary analysis.

**Context:**

- Likely no difference in efficacy between TCAs and SSRIs, but adverse-effect withdrawals higher with TCAs (24% versus 17%).<sup>5</sup>
- Elderly patients may respond to antidepressants slower than adults, possibly requiring 10-12 weeks before effects seen.<sup>2</sup>
- Chronic illness often co-exists with depression in elderly patients, along with frailty, possibly mitigating effects.<sup>6</sup>
- Cognitive Behavioural Therapy has been inconsistently shown to improve depression symptoms in the elderly.<sup>7,8</sup>
- In the elderly, antidepressants have been associated with a similar fall risk as benzodiazepines.<sup>9</sup>
- Antidepressants may not be effective in treating depression in dementia.<sup>10</sup>

**Authors:**

Adrienne J Lindblad BSP ACPR PharmD, Shan Lu MD CCFP

**Disclosure:**

Authors do not have any conflicts of interest to declare.

**References:**

1. Wilson K, Mottram PG, Sivananthan A, *et al.* Cochrane Database System Rev. 2001; 1:CD000561.
2. Nelson JC, Delucchi K, Schneider LS. Am J Geriatr Psychiatry. 2008 Jul; 16 (7): 558-67.
3. Tedeschini E, Levkovitz Y, Iovieno N, *et al.* J Clin Psychiatry. 2011 Dec;72(12):1660-8.
4. Tham A, Jonsson U, Andersson G, *et al.* J Affect Disord. 2013. 205:1-12.
5. Mottram PG, Wilson K, Strobl JJ. Cochrane Database System Rev. 2006;1:CD003491.
6. Vaughan L, Corbin AL, Goveas JS. Clin Interv Aging. 2015. 10:1947-58.
7. Wilson K, Mottram PG, Vassilas C, *et al.* Cochrane Database System Rev. 2008; 1:CD004853.
8. Jonsson U, Bertilsson G, Allard P, *et al.* PlosOne. 2016; 11(8):e0160859.
9. Woolcott JC, Richardson KJ, Wiens MO, *et al.* Arch Intern Med. 2009;169:1952-60.
10. Dudas R, Malouf R, McCleery J, *et al.* Cochrane Database System Rev. 2018;8:CD003944.

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