


National Trends in Opioid, Benzodiazepine & Anticholinergic Orders in Long-Term Care


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Background

 Concurrent use of opioids and benzodiazepines is associated with an increased risk of overdose and death.^{1,2}

 Use of multiple anticholinergics can lead to cognitive decline.³

 The Centers for Medicare & Medicaid Services added 2 new quality measures that will impact 2027 Star Ratings⁴:

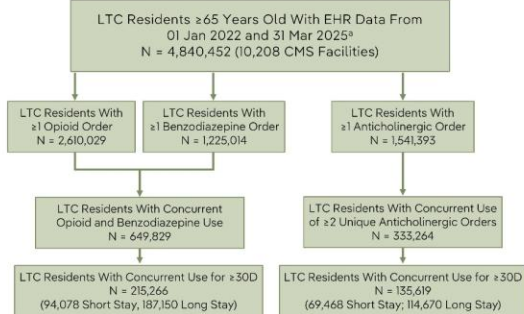
- Concurrent use of opioids and benzodiazepines
- Polypharmacy use of multiple anticholinergic medications in older adults

Objective

To use electronic health record (EHR) data to describe concurrent use of opioids and benzodiazepines (Op+Benz use) and use of ≥2 unique anticholinergic medications (ACH use) among long-term care (LTC) residents in the United States.

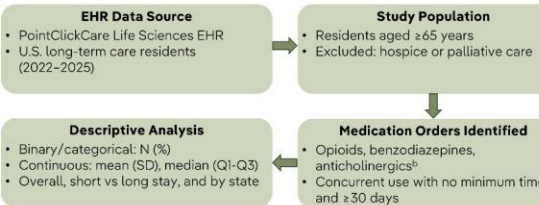
Methods

Setting & Population



^a Data was sourced from EHR data from PointClickCare's Life Sciences database representing a comprehensive view of prescribing practices in the LTC setting.

Analysis



^b Anticholinergics were identified based on the Anticholinergic Cognitive Burden Scale, Beers Criteria, and clinical judgement.

Results

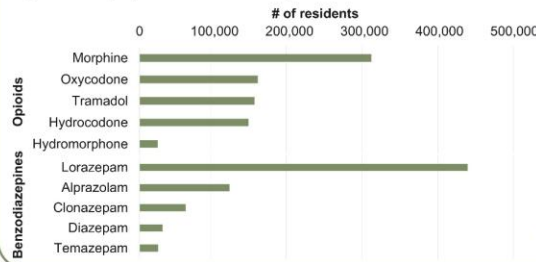
Table 1A. Summary of Opioid and Benzodiazepine Orders

Op+Benz Use, N = 649,829		Op+Benz Use, N = 649,829	
Opioid Order Duration, Days		Benzodiazepine Order Duration, Days	
Mean (SD)	58.4 (116.5)	Mean (SD)	36.4 (91.8)
Median (Range)	17 (1, 1329)	Median (Range)	11 (1, 1664)
Unique Opioid Medication Count		Unique Benzodiazepine Medication Count	
Mean (SD)	1.5 (0.7)	Mean (SD)	1.1 (0.4)
Median (Range)	1 (0, 8)	Median (Range)	1 (0, 5)

Figure 1A. Proportion of Residents with ≥30D of Op+Benz Use By State



Figure 2A. Top Opioid and Benzodiazepine Orders



215,266 residents had Op+Benz use for greater than 30 days

CENTRAL states typically had higher prevalence of Op+Benz use

47% of residents with Op+Benz use had ≥1 medication order for morphine

*Op+Benz use = concurrent opioid and benzodiazepine use

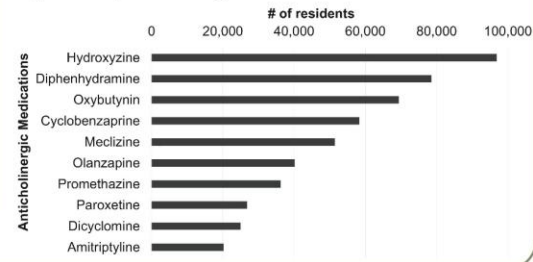
Table 1B. Summary of Anticholinergic Orders

ACH Use, N = 333,264	
Anticholinergic Order Duration, Days	
Mean (SD)	76.3 (124.6)
Median (Range)	28.6 (1, 1317)
Unique Anticholinergic Medication Count	
Mean (SD)	2.3 (0.7)
Median (Range)	2 (1, 10)





Figure 1B. Proportion of Residents with ≥30D of ACH Use By State



Figure 2B. Top Anticholinergic Orders






Implications

-  Medication reviews and deprescribing protocols for LTC residents to reduce harmful drug exposure may play a critical role.
-  Targeted quality improvement initiatives and resource allocation in regions with higher prevalence of high-risk medication use.
-  Proactive, data-driven strategies are essential for safer, smarter medication management and Star Ratings success.
-  Health plans with post-acute or skilled nursing facility members may be negatively impacted by these new Star Rating measures.

Acknowledgements

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Summary

-  The study reveals widespread and prolonged use of high-risk drug combinations among older adults in LTC.
-  Long-stay residents face high exposure to multiple medications, increasing their vulnerability to adverse effects.
-  Geographic variation in medication use patterns reveals specific states and regions where concurrent high-risk prescribing is most prevalent.

References

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