

Decreasing the use of Benzodiazepines and Sedative Hypnotics in post operative older adults

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Background

Prevalence rates of Benzodiazepines and Sedative hypnotics

- •32% of adults >65years old are prescribed Benzodiazepines
- •59% of adults >65years old with psychiatric disorders are prescribed Benzodiazepines
- •25% of newly prescribed Benzodiazepines are continued 90days after discharge from the hospital Routine prescribing of Benzodiazepine and sedative hypnotics in older adults as first line for sleep has contributed to:
- Prolonged hospital stay
- Increased fall rates
- Increased development of delirium
- Increased use of patient safety sitters

Objectives

- Decrease prescribing of Benzodiazepines and sedative hypnotics by 5% within 90days of project initiation
- •Increase the prescribing of Melatonin as the first line for sleep

Methods

- Quality improvement Project
- Pre and post test survey design
- Retrospective comparison of Benzodiazepines and Sedative hypnotics prescribing patterns
- •Retrospective comparison of Melatonin prescribing patterns

References or Qr Code

Al-Aama, T., Brymer, C., Gutmanis, I., Woolmore-Goodwin, S. M., Esbaugh, J.,

M. Melatonin decreases delirium in elderly patients: A randomized, placebo-controlled trial. Int J Geriatr Psychiatry (2011) 26(7):687–94.10.1002/gps.258 Naiiar M Sulaiman S A Alieraisy M & Balubaid H (2018) The impact of a combined

Intervention

- Educational in-services for advanced practice providers, residents and nursing staff with focus on a)the adverse effects of benzodiazepine use amongst older adults b) Choosing wisely guidelines c) use of melatonin as a first line medication for sleep d) non pharmacologic measures of sleep promotion.
- Continuous transparent prescribing monitoring of providers, coupled with further education for specific providers as deemed necessary.

Measures & Analysis

- Total # of patients prescribed Benzodiazepines and Sedative hypnotics monthly in the pre vs post implementation phase
- •Total # of patients prescribed Melatonin in the pre vs post implementation phase
- •Rate of delirium on the unit measured by # of patient safety sitter hours utilized

Data Analysis

 Descriptive analysis and statistical analysis of the two data sets to monitor the impact of the intervention

Results

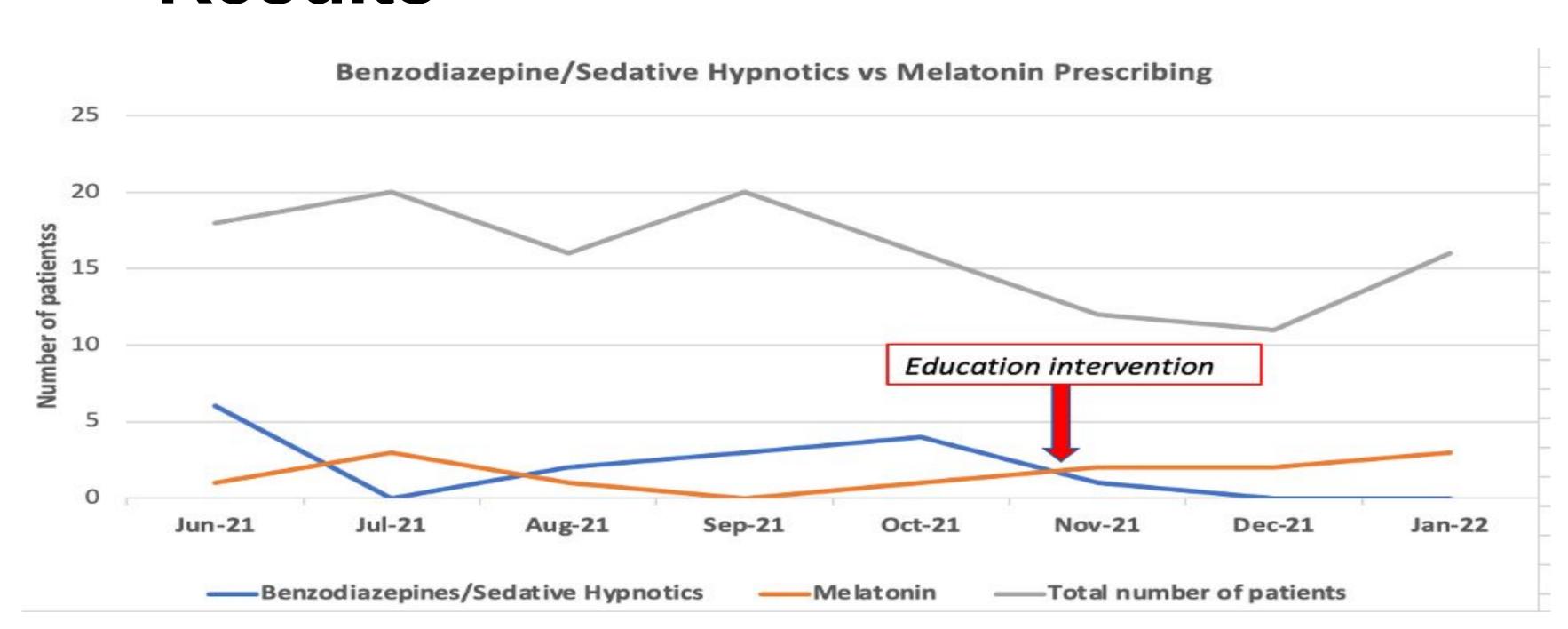
- •33% decreasing in prescribing of Benzodiazepine/sedative hypnotics
- •12% increase in prescribing of Melatonin
- •28% decrease in the use of patient safety sitter

Next steps

Replication of this project on a different unit for a prolonged period with the initiation of a revised order-set that would replace benzodiazepine with melatonin using an electronic order set

Results







Implications

- Educational intervention can be effective in changing prescribing practices amongst providers
- •Similar approach could effectively change prescribers' behavior over a periodpractice.

Conclusion

Provider education and nursing education, coupled with transparent monitoring of prescribing practices, decreased the prescription of benzodiazepines and sedative-hypnotics.