Sleep disturbance is associated with post cancer fatigue:

findings from a prospective cohort study



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Introduction

In patients with cancer:

- Daytime fatigue
- Poor quality sleep
 more common than healthy populations

Fatigue -multiple causes:

disease process cancer treatment medications psychological factors sleep disturbance Post hoc analysis - prospective cohort study*

Aim:

Prospectively explore relationship between sleep disturbance and development of post cancer fatigue

^{*} FolCan study Goldstein et al JCO 2012

- •218 women (age 52; married; educated)
 - Early stage breast cancer
 - 50% post menopausal
 - Baseline post surgery
 - •Followed intensively for 12m postadjuvant Rx

Assessments

- Sleep self reported questionnaire items
 - Difficulty falling asleep
 - Sleeping less than 5 hours
 - Repeated awakenings during sleep
 - Restlessness during sleep
 - Waking up before wanted to
 - Waking feeling unrefreshed
- Principal components analysis confirmed single factor 'sleep'

- Fatigue Cross-sectional case rate
 - 24% post surgery
 - 42% end Rx
 - 19% at 6months post treatment
- Continuous fatigue (post cancer fatigue)
 - 19% 1 month post Rx
 - 12% 12 months post Rx

End treatment
 Poor sleep reported by
 71% of cases with CRF
 33% who did not report fatigue

6 months post Rx
70% of cases with CRF
25% who did not report fatigue

Predictors of continuous fatigue to 6months post treatment (PCF)

(inc. sleep disturbance score; Rx type; menopausal status)

Sleep disturbance at 1 month post Rx OR 1.2, p=0.047

Treatment type & menopausal status **did not** predict PCF

i.e. Women premenopausal at baseline not more likely to become fatigue cases at 6m post Rx X^2 .01; p = .92

Discussion points

- Obtain good history of symptoms
- Investigations only when warranted (PSG)
- Targeted early interventions for insomnia
 - Behavioural
 - Cognitive

Educational

components

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