Abstracts

351 CHANGE IN EMPLOYABILITY FOLLOWING BARIATRIC SURGERY FOR MORBID OBESITY

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Objectives This is a pilot report of the first 75 respondents undertaken as part of a larger study to assess if there is improvement in employability after bariatric surgery.

Methods An assessment of 75 patients who had undergone bariatric surgery between January 2005 and Dec 2008. Case note data extraction and a patient questionnaire was used to collect demographic data, pre-op and post-op morbidity, employment status and benefits being received.

Results 59 (79%) of the respondents were female. The average age at the time of the bariatric surgery was 44 years. The average pre-operative BMI was 49 and post-operatively 38 (p < 0.05); mean duration since operation of 5.6 years. Pre-operatively there was 151 obesity related co-morbidities and 63 (42%) post-operatively (p < 0.05). Total number employed pre and post operative was 53 (71%) and 47 (63%) respectively (non-significant). In the group employed pre-operatively, 39 (74%) remained employed post-operatively, 6 (11%) became unemployed sick/disabled, 4 (8%) became economically inactive due to looking after family/care/voluntary work, 2 (4%) retired, 1(2%) became a student and 1 (2%) was unemployed but seeking work. In the pre-operative group who were un-employed sick/disabled, 8 (73%) remained sick/disabled, 2 (20%) were now employed and 1 (9%) was unemployed but seeking work. A total of 59 state benefits where being received at the pre-operative stage and this only decreased a small amount to 56 (p = 0.38).

Conclusions The study suggests that despite improvements in BMI and co-morbidity there were non-significant changes in post-operative employment, the majority of the unemployed-sick disabled pre-operatively remaining unemployed sick/disabled post-operatively and there was a negligible decrease in benefits being received. An intervention study on the impact of vocational rehabilitation on return to work post bariatric surgery is needed to identify the rate of employment which can be improved by such action.

Session: 25. Shift work and health

352 NIGHT WORK AND RISK OF HORMONE RECEPTOR-DEFINED BREAST CANCER

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Objectives In 2007, the International Agency for Research on Cancer classified shift work that involved circadian disruption as possibly being carcinogenic to human breast cancer (Group 2A), which bases on limited epidemiological evidence. Five relevant epidemiological studies have been published since 2007. However, a systematic and quantitative assessment of published studies is not available.

Methods Three cohort and seven case-control studies were identified from the MEDLINE database from 1970 to August 2012 without restrictions and by reviewing reference lists from retrieved articles. Studies that reported relative risk estimates with 95% confidence intervals (CIs) for the associations of interest were included. Except the duration of night-shift, available data of night-shift frequency and cumulative night-shift were also extracted from these studies. Summary estimates of association were obtained using the fix or random-effects models.

Results The pooled relative risk (RR) per 5-year of night-shift was 1.05 [95% confidence interval (CI): 0.87–1.28] for night-shift work duration. Cumulative night-shift was positively associated with breast cancer risk (RR = 1.13 per 500 night-shift; 95% CI = 1.07–1.21; four studies), night-shift frequency was not associated with breast cancer risk (RR = 1.01 3-shift/month; 95% CI = 0.99–1.03; three studies).

Conclusions From this meta-analysis indicate that cumulative night-shift is positively associated with breast cancer risk, although the night-shift work duration didn’t associate with breast cancer risk. Further studies are needed to confirm these findings.

354 CORRELATIONS BETWEEN NIGHT SHIFT WORK AND THE DEVELOPMENT OF BREAST CANCER: SYSTEMATIC REVIEW

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