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## Impact of breast cancer care pathways and related symptoms on the return-to-work process

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- The relation between care pathways and return-to-work process and job retention in cancer survivors should be further investigated.

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**Impact of breast cancer care pathways and related symptoms on the return-to-work process**

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**Background:**

Breast cancer (BC) treatments and related symptoms may affect return to work (RTW). The objective of this study was to investigate the impact of BC care pathways (timing and sequence of treatments) and related symptoms on RTW.

**Methods:**

The study population included working-age women with BC who were enrolled in the French CONSTANCES cohort from 2012 to 2018. BC treatments, antidepressants/anxiolytic and analgesic drug deliveries (used as proxies of depression and pain, respectively) and statutory sick pay (used to estimate RTW and time to RTW) were assessed monthly using data from the French national healthcare system database. BC care pathways were identified with the sequence analysis method. Cox models with time-dependent covariates were used to investigate the impact of BC care pathways and related symptoms on RTW and time to RTW, after adjusting for age and socioeconomic characteristics.

**Results:**

73.2% (231/303) of women returned to work within 2 years after BC diagnosis. Five BC care pathway patterns were identified: (i) BC surgery only, (ii) BC surgery and radiotherapy, (iii) BC surgery and chemotherapy, (iv) BC surgery and chemotherapy and radiotherapy, and (v) BC surgery and long-term alternative chemotherapy/radiotherapy. The hazards ratios of non-RTW were significantly higher for women who received BC surgery and long-term alternative chemotherapy/radiotherapy and for >55-year-old women. Time to RTW was significantly longer in women who received chemotherapy (patterns iii to v) and in women with antidepressant/anxiolytic and analgesic drug deliveries.

**Conclusions:**

This study highlights the value of considering the dynamic, cumulative, and temporal features of BC care pathways and related symptoms to facilitate the RTW of women with BC >

**Key messages:**

- This study emphasizes the necessity to consider the holistic and temporal aspect of care pathways.