

metastatic disease (1.36 [1.27–1.46]), and survived <1 year but longer than 2 months post-diagnosis. The propensity for continued chemotherapy in patients' last month was significantly increased by being cared for by a medical oncologist (3.49 [3.04–3.99]) or in a teaching hospital (1.39 [1.11–1.74]) and with the highest intensity of total inpatient hospital beds (1.63 [0.99–2.68]) but was not influenced by regional healthcare resources (total hospital and hospice beds).

Conclusion: The propensity to continue chemotherapy in the last month of life was determined by patient demographics and disease characteristics, physician specialty, and healthcare resources at the primary hospital level. Maintaining a delicate balance between deciding to continue chemotherapy and starting palliative care remains a challenge. However, appropriate discussion of transition from curative to palliative care may minimize the over-estimated effectiveness of chemotherapy to achieve end-of-life care that best meets cancer patients' needs and preferences.

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POSTER

Pain and Insomnia in Institutionalized Cancer Patients: a Prospective Analysis

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Background: Pain and insomnia are among the most prevalent symptoms experienced by cancer patients. Although previous research has demonstrated that sleep disturbances are correlated with chronic pain little is known about the occurrence and severity of insomnia and pain between patients with cancer diagnoses. The aim of this study is to evaluate the relationship between pain and sleep disorders in this population.

Material and Methods: In this prospective observational study 142 cancer patients were interviewed by a single investigator. We surveyed the subjects' demographic and tumour-related characteristics. Sleep quality was assessed by a seven item questionnaire that investigated onset sleep problems, the presence of nighttime awakenings, restorative sleep and daytime sleepiness. Pain was assessed using the numerical verbal scale and participants were divided into 3 groups depending on self-reported pain: without pain, mild or moderate-severe pain.

Results: 66% of patients (n=89) presented pain with a median score of 3 (range 0–7) and 51.7% of them required opioide analgesics. Pain intensity and sleep quality weren't related with patient's demographic or clinical data. Median duration of nocturnal sleep was 6.74 hours (range: 3–10 hours) with a median of 1.72 waking by night (range: 0–10 aroused). All patients had at least one of the explored sleep alterations. Pain severity was found to be related with shorter sleeping time (p=0.05) and an increased number of night awakenings (p=0.01). Results showed higher pain levels predicted increased frequency in initiating sleeping problems (p=0.0001), frequency of non-restorative sleep reports (p=0.0001) and daytime sleepiness (p=0.0001).

Conclusions: Pain is related with worse sleep quality in different aspects: greater onset problems, more daytime sleepiness and more non-restorative sleep. Therefore, pain plays a major role in sleep disturbance among cancer patients. They are necessary new explorations to obtain more conclusive results, as well as studies including behavioral or pharmacological interventions.

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POSTER

Emotions, Picture and Radiotherapy

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Background: Drawing is one of the most important psychological projective tests. It deeply investigates human personality, gathering its essential aspects. Pictures are the reflection of the internal affective world (Winnicott, 1971) and they express feelings and conflicts (Quaglia, 2007) without inhibitions.

Material and Methods: In our Hospital, 50 patients in radiotherapy treatments were asked to undergo a specific psychological interview, to the Mini-Mac scale (Watson, 1994) and to illustrate their experience of radiotherapy. 90% of them completed test and interview, but only 60% of patients decided to make the picture.

Results: The refusal could express difficulties in facing the assignment, that could force patients to cope with inner emotions. Patients could simpler contain feelings during the tests. Results showed a decline of negative emotions such as fear and worry (2%).

The qualitative psychological analysis of the pictures revealed the prevalence of the following subjects: room of the radiotherapy (47%), rays of the machine (19.4%), streets (10.4%), clouds (7%) and a prevalence of the symbol of a circle (58.6%).

The sphere is the unconscious and universal symbol of unity and perfection, it is an archetype that represents psyche. A circle is often present in the pictures and in the dreams of a person who perceives a danger in his existence and fears for his integrity (Jung, 1964).

This evidence is linked to the emotional difficulties that patients should face during radiotherapy treatments, but they do not express in the interview. Prevalent coping styles of the patients that decided to paint were: reactivity (44.8%) and fatalism (41.3%). Coping styles of the other patients are distributed in a more homogeneous way: fatalism (37.5%), reactivity (31%), deny (25%) and anxiety (6.25%).

Conclusions: It is our aim to proceed in order to evaluate if the decision to omit the picture could be linked to a fear of facing inner emotions or to a characteristic personality.

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POSTER

A Qualitative Study of Survivorship Issues in the Families of Patients With Cancer

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Background: A cancer diagnosis has psychosocial impacts on the affected family, some experiencing increased distress. As cancer incidence and survival rates rise, the number of people living with cancer will increase significantly, but there is little studied of the impact on the family of one of their members surviving cancer.

Methods: 23 families (as defined by them) of cancer survivors (12 more than 3-years post-diagnosis) were recruited through Australian media and participated in a family interview covering long-term outcomes. Interviews were recorded, transcribed verbatim, and then thematically-analysed.

Results: Participants discussed various long-term sequelae within their families. Many reported challenges in managing changes in their working life and their geographical location. Some noted that the physical effects of cancer and treatment of the family member had changed what they could do as a family. For some, relationships with external family members were problematic due to disagreements regarding familial choices. Families spoke of difficulties in managing their own or others' emotions, or in adjusting to changes of personality or priorities exhibited by the cancer patient. Finally, several families raised management of cancer risk factors as problematic: views about the importance and consequences of behavioural change to manage risk varied, and could cause on-going tension.

Conclusions: These (relatively high-functioning) families faced ongoing psycho-social challenges long after diagnosis. Cancer changed the present circumstances and the future possibilities resulting in changed behaviour, and related to issues around identity. This required, adjustments within and without the family, which did not always occur. Some families may benefit by psycho-therapeutic family-centred interventions to address these issues.

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POSTER

Quality of Life (QoL) in Patients Receiving Treatment for Non-small Cell Lung Cancer (NSCLC) Across Europe: EPICLIN-Lung Study

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Background: Data collected from the EPICLIN-Lung study (NCT00831909) reflects outcomes approach and QoL assessment in a large scale European NSCLC population.

Materials and Methods: Patients (pts) with confirmed NSCLC attending the relevant hospital for the first time between 1 January and 31 March, 2009 were enrolled, and followed for a minimum of 12 months or until death. Only pts not participating in clinical trials were asked to participate in this QoL sub-study within the EPICLIN-Lung study. A sample of pts were asked to complete self-assessment questionnaires (FACT-L, EQ-5D) at baseline; subsequent QoL assessments were not mandatory.

Results: 3508 pts were enrolled in the EPICLIN-Lung study. Baseline (visit 1; V1) QoL data were available for 1626 pts; of these, 734 provided QoL data at visit 2 (V2). At V1, mean EQ-5D scores were 63.97±20.02 for pts <70 years old and 62.42±19.03 for pts ≥70 years old; p=0.179. Mean EQ-5D scores by disease stage at V1 were: 64.51±20.51 (Stage I); 68.24±18.72 (Stage II); 67.06±18.49 (Stage IIIa); 64.21±18.82