

Page 73 Distinguishing guidelines, why so sparse?

- Novel area of research;
- So many types of cancer;
- Pathological effects of cancer;
- Treatment side-effects;
- People's reaction to being sick (attitudes and beliefs);
- How people cope;
- The need for individualisation.

2

Information gathering

• Critical to carry out thorough screening:

CANCER REHABILITATION

- Cardiovascular disease risk factors;
- Co-morbidities;
- Orthopaedic problems;
- Fitness level;
- Type, site and stage of cancer;
- Type, site and stage of treatment;Side effects of treatment (particularly fatigue index);
- Side effects of treatment
 Psychological condition;
- Particular attention to test time and condition on testing.



Cancer REHABILITATION Cancer-related Fatigue

 "The first step to treating CRF is to correct, if possible, medical conditions which can aggravate it (anaemia; drugs such as opiates, antihistamines, and anti-sickness medication; electrolyte imbalance; steroid withdrawal sedatives, depression, nocturia, night sweats and pruritis)" Thomas (2005)

4

Page 83

Page 45

Research summary



- Goals in early stage cancers should be set to restore strength and CV capacity and to prevent further demise;
- Goals in late stage cancers to be based on thorough screening of cancer condition and any further co-existing medical conditions;
- Patients with low levels of mobility can benefit from incremental, brief durations of work-rest over 5-10mins. If and when tolerated, the work intervals can be increased.

5

Page 83

Research summary

CANCER REHABILITATION

- Exercises should be based on safety and ability of which the cancer type allows. High impact activities should be avoided in patients with bone metastasis due to stress fracture risk, in low platelet count (<50,000 per micro litre) and peripheral neuropathies;
- Tumour site must be considered, as with surgical sites and avoided if there is a risk that the exercise will irritate the tumour or disturb stitching and scar tissue;
- The patient should exercise at least 4 days per week, not miss 2 consecutive days and rest at least once a week.

Research summary

CANCER REHABILITATION

- Gradual progression is advised. A training heart rate of 55-75% ${\sf HR}_{\sf max}$ for 20-30 minutes is a good place to start. In very debilitated patients however it may be necessary to reduce the heart rate to 40-45% $\ensuremath{\mathsf{HR}_{\mathsf{max}}}\xspace$; Chemotherapy patients at risk from cardio-toxicity
- must be supervised by an exercise professional; CV exercise should involve whole-body rhythmical actions such as walking, rowing, and cycling. In patients with poor upper arm mobility, the cross trainer or arm ergometer can be used. Resistance training should try to optimise compound exercises to avoid joint stress and to encourage co-anatomical muscular contractions.

7

Page 84

Page 84

CANCER REHABILITATION



- Progression should begin by increasing time and frequency before moving on to intensity;
- For those in remission, the goal is to return the patient to their pre-cancer fitness, strength and function—or better;
- Encourage core strength in the form of functional training, particularly in abdominal surgery and treatment. Localised core work may induce bleeding, so use cables and whole body functional training to engage the core.

8

CANCER REHABILITATION Procedure recommendation

- Physician referral;
- Review of physician examination;
- · In-centre screening and testing;
- Individualised exercise planning and prescription;
- Reassessment;
- Community-based ancillary services.





























