**Supplementary Table 5: Intervention and delivery details for included studies classified as treatment and procedures interventions using the OMAHA category**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Trial ID (Country)** | **Aim** | **Study design** | **Participants (Cancer****Trajectory)** | **Comparison groups** | **Name of intervention** | **WHAT (procedures)** | **Interventionist using** **CANO definition****(Nurse-led or Nurse-facilitated)** | **HOW** | **WHERE** | **WHEN** | **HOW MUCH** |
|  |  |  |  |  |  |  |  |  |  | ***Frequency***  | ***Time/session*** | ***Intervention duration*** | ***Total dose*** |
| Adamsen 2007 (Adamsen et al., 2009)(Denmark) | Effect of group exercise in people undergoing chemotherapy | Parallel RCT (ISRCTN05322922) | 269 adults (Multiple, TX) | UC | Exercise | Multimodal high intensity exercise | SPEC\*(NF) | Group, Face-to-face | University hospital | 4 sessions | 9 hours | 6 weeks | 54 hours |
| Boland 2003 (Boland et al., 2003) (UK) | Clinical and cost effectiveness of two methods of Hickman line insertion | Parallel RCT (NR) | 470 adults (Multiple, TX) | Bedside (blind) approach to Hickman line insertion  | Image-guided approach to Hickman line insertion | Venipuncture of the subclavian vein and insertion of Hickman line | SPEC(NL) | 1-to-1, Face-to-face | Acute cancer centre | 1 session | NR | NA | U |
| Celebioglu 2015 (Celebioglu et al., 2015)(Turkey)  | Effect of massage therapy on pain and anxiety | 2 groups, CBA (NR) | 25 children(Lymphoma, TX) | UC | Massage therapy | IT or BMA procedure performed after massage therapy | SPEC\*(NL) | 1-to-1, Face-to-face | Inpatient, Hospital | 1 session | 10-15 mins | NA | 10-15 mins |
| Du Pen 2000 (Du Pen et al., 2000) (USA) | Educational intervention aimed at reducing cancer pain | Parallel RCT (NR) | HCP and 105 adult patients (Multiple, TX) | No algorithm trained practitioners | Algorithm trained practitioners | Training on a decision-tree model for pain treatment  | SPEC(NF) | Group, Face-to-face | Multiple settings in community and hospital | 1 session | 5 hours | NA | 5 hours |
| Glazener 2011 (Glazener, 2011) (UK) | Clinical effectivenessand cost-effectiveness of PFMT  | 2 parallel RCT (Radical RCT and TURP RCT) (ISRCTN87696430) | 411 adults (Prostate, TX) | UC | Radical intervention therapy OR TURP intervention therapy | Assessment, PFMT training, self management, lifestyle advice and BF training | SPEC\*(NF) | 1-to-1, Face-to-face | Hospital and home | 4 session | 45-60 mins | 12 weeks | Up to 4 hours |
| Hansson 2010 (Hansson, 2010) (Denmark) | Feasibility and psychosocial impact of HBHC  | 2 groups, CBA (NR) | 51 children (haematological oncology (leukaemias and myeloma), TX) | UC | Home-based healthcare | Treatments and procedures (e.g. IV antibiotics, IV chemotherapy, blood samples, CVC cleansing)  | SPEC(NL) | 1-to-1, Face-to-face | Home | 21 visits (average of 3 visits/ day) | Varied (10 - 200 mins) (median 20 mins/ visit) | Total of 942 HHBC visits delivered over 17 months (median 5 months) | U  |
| Hedén 2009 (Hedén, 2009)(UK) | Effectiveness of active versus passive distraction on fear, distress and pain during needle procedures | Parallel RCT (NR) | 28 children (Cancer type- NR, TX) | Passive distraction (heated pillow)  | Active distraction (blowing bubbles) | Active distraction during needle insertion (blowing bubbles)  | GEN\*(NF) | 1-to-1, Face-to-face | Hospital | 1 session | NR | NA | U |
| Hui 2013 (Hui et al., 2015) (Hong Kong, PRC) | To compare screening colonoscopy performance between nurse and medical endoscopists | Parallel RCT (NCT01923155) | 731 adults (S&P, Scr) | Medical-led endoscopy | Nurse-led endoscopy | Performed screening colonoscopy independently | SPEC\*(NL) | 1-to-1, Face-to-face | Hospital | 1 session | NR | NA | U |
| Karagozoglu 2013 (Karagozoglu and Kahve, 2013)(Turkey) | Effectiveness of massage on chemotherapy-related fatigue and anxiety | 2 groups, qRCT (NR) | 40 adults (Multiple, TX) | UC | Massage | Back massage delivered as per protocol | U(NL) | 1-to-1, Face-to-face | Hospital | 1 session | 60-75 mins  | NA | 60-75 mins |
| King 2000 (King et al., 2000)(Australia) | Evaluates costs, preferences and outcomes of chemotherapy delivered at home | 2 groups, crossoverRCT (NR) | 87 adults (Multiple, TX) | Hospital based chemo | Home-based chemo | 3 chemotherapy regimens used to treat common cancers were delivered at home | SPEC(NL) | 1-to-1, Face-to-face | Hospital and home | U | U | 2 months for each stage of treatment (home and hospital) | U |
| Lee 2011c (Lee, 2011) (Korea) | Impact of an endoscopy nurse participating as a second observer in screening colonoscopy | Parallel RCT (NCT01124266) | 844 adults (S&P, Scr) | Single-observation group (colonoscopist only) | Dual observation group (colonoscopist and endoscopy nurse) | Colonoscopist and endoscopy nurse actively inspected the colonic mucosa  | SPEC\*(NF) | 1-to-1, Face-to-face | Hospital | 1 session | NR | NA | U |
| Limoges-Gonzalez 2011 (Limoges-Gonzalez et al., 2011) (USA) | Compare NP with GI for accuracy, safety and patient satisfaction in screening colonoscopy | Parallel RCT (NR) | 150 adults (S&P, Scr) | GI colonoscopy | Gastroenterology trained NP colonoscopy | Screening colonoscopy | SPEC\*(NL) | 1-to-1, Face-to-face | Hospital | 1 session | NR | NA | U |
| Molassiotis 2000 (Molassiotis, 2000) (Hong Kong, PRC) | Effectiveness of PMRT in managing post-chemotherapy nausea and vomiting | Parallel RCT (NR) | 7 adults (Breast, TX) | Anti-emetics | PMRT +anti-emetics | PMRT included progressive relaxation (tension-release), deep breathing, plus guided imagery.  | U(NL) | 1-to-1, Face-to-face, Tape recording | Hospital and home | 6 sessions | 35 mins/session | 1 week | 235 mins |
| Munday 2006 (Munday H et al., 2007) (UK) | Compared doctor-versus nurse-led Talc pleurodesis | Parallel RCT (ISRCTN59686582) | 20 adults (Lung, TX) | Doctor led Talc Pleurodesis procedure | Nurse-led Talc Pleurodesis procedure | Talc pleurodesis | SPEC\*(NL) | 1-to-1, Face-to-face | Hospital | 1 session | NR | NA | U |
| Ridner 2013 (i) (Ridner et al., 2013) (USA) | To evaluate APN delivered interventions for breast cancer related lymphedema | 3-arm RCT (NR) | 46 adults, (Breast, TX) | 1. LLLT2. combined treatment (MLD + LLLT) | MLD | MLD for 40 mins or LLLT for 20 mins | ADV\*(NL) | 1-to-1, Face-to-face | Private rehabilitation practice | NR | 30 mins/session | Trial duration 30 months | U |
| Sitzia 2002 (Sitzia, 2002)(UK) | Compare MLD with simple lymphatic drainage | Parallel RCT (NR) | 28 adults (Breast, TX) | Simple lymphatic drainage | MLD | Leduc massage method of MLD or simple lymphatic drainage applied to chest only (protocolised) | SPEC\*(NL) | 1-to-1, Face-to-face | Outpatient | 5 sessions | 40-90 mins/sesssion | 2 weeks | 400-900 minutes |
| Smith 2002 (Smith et al., 2002) (USA) | Effects of therapeutic massage on cancer symptoms  | 2 groups qRCT (NR) | 41 adults (Cancer type – NR; TX) | Attention control | Therapeutic massage + nurse interaction | UC plus Swedish massage  | SPEC\*(NL) | 1-to-1, Face-to-face | Inpatient, Hospital | 3 sessions | 15-30 mins | 1 week | 45 – 90 mins |
| Smith 2004 (Smith, 2004) (UK) | To compare home care with hospital care in people with multiple myeloma | cross-over RCT (NR) | 37 adults ((leukaemias and myeloma), TX) | 3 hospital based infusions followed by 3 home-based infusions | Crossover trial (3 home infusions followed by 3 hospital based infusions) | Intravenous infusions | SPEC\*(NL) | 1-to-1, Face-to-face | Hospital and Home | 1 session every 4 weeks | 90 mins/session | 6 months | 540 minutes |

Abbreviations: ADV: advanced oncology nurse; APN: Advanced practice nurses; BF: biofeedback training; BMA: bone marrow aspiration; CBA: controlled before and after study; CNS: clinical nurse specialist; cRCT: cluster RCT; CVC: central venous catheter; EoL: end-of-life; RCT; GEN: generalist nurse; GI: gastroenterologist; HBHC: hospital-based homecare; HCP: healthcare professionals; IT: intrathecal therapy; LLLT: low level laser therapy; MLD: manual lymphatic drainage; NA: not applicable; NF: nurse-facilitated; NL: nurse-led; NP: nurse practitioner; NR: not reported; PFMT: pelvic floor muscle training; PMRT: Progressive Muscle Relaxation Training; PT: physiotherapist; qRCT: quasi-randomised controlled trial; RCT: randomised controlled trial; Scr: screening; SPEC: specialist oncology nurse; TURP: transurethral resection of the prostate; TX: treatment; U: unclear; UC: usual care

\*Nurse training and qualifications were not clear, but two content experts reviewing full text thought that the description was most closely aligned with this category.

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