**Appendix Table F5. Therapeutic studies of physical therapy interventions that did not contribute to synthesis of evidence due to poor quality or inclusion of patients with hip OA**

| **Author, Year Design Risk of bias** | **Physical therapy intervention** | **Subject characteristics** | **Intention to treat** | **Adequate allocation concealment** | **Reporting of baseline characteristics** | **Baseline similarity of subjects in treatment groups** |
| --- | --- | --- | --- | --- | --- | --- |
| Ravaud, 2004111 RCT Risk of bias low | Exercise | Age: 66.7  % women: 70.1 BMI: 27.75 Comorbidity: Not available Prior treatment: NSAID: 64.7%; SYSADOA: 41.3%; IA treatment: 29.3% | Yes | Not reported | Yes | Not reported |
| Hinman, 2007112 RCT Risk of bias low | Exercise | Age: 62.4  % women: 67.6 BMI: 33.4 Comorbidity: Not available Prior treatment: analgesics: 50.7%; NSAIDs: 45.1%; nutraceuticals: 39.4% | Yes | Yes | Yes | Yes |
| Harlow, 2004113 RCT Risk of bias low | Pulsed electromagnetic fields | Age: 66.6  % women: 38.3 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Yes | Not reported | Yes | Yes |
| Cochrane, 2005114 RCT Risk of bias low | Exercise | Age: 69.74  % women: 62.82 BMI: 29.76 Comorbidity: Obesity 47%, Cardiovascular 16%, Gastrointestinal 11%, Other musculoskeletal 8%, Cancer 7% Prior treatment: Not available | Yes | Yes | Yes | Yes |
| Fransen, 20076 RCT Risk of bias low | Hydrotherapy | Age: 70.2  % women: 73.7 BMI: 30 Comorbidity: Comorbidity score (0-16): 4.7  Prior treatment: Not available | Yes | Not reported | Yes | Yes |
| Pisters, 2010115 RCT Risk of bias low | Education | Age: 64.8  % women: 77 BMI: 28.509 Comorbidity: 0.64 Prior treatment: Not available | Yes | Yes | Yes | Yes |
| Hurley, 2007116 RCT Risk of bias low | Exercise | Age: 66.9  % women: 70.3 BMI: 30.2 Comorbidity: Not available Prior treatment: Not available | Yes | Not reported | Yes | Yes |
| Heuts, 2005117 RCT Risk of bias low | Education | Age: 51.6  % women: 59.7 BMI: 28.2 Comorbidity: Not available Prior treatment: Not available | Yes | Not reported | Yes | Yes |
| Foley, 200323 RCT Risk of bias low | Exercise aquatic | Age: 70.9  % women: 49.5 BMI: Not available Comorbidity: Heart conditions: 34% Respiratory condition: 39%; Other: 95% Prior treatment: Not available | Yes | Yes | Yes | Yes |
| Hansson, 201018 RCT Risk of bias low | Education | Age: 62.5  % women: 85.1 BMI: 28.1 Comorbidity: Not available Prior treatment: Not available | Yes | Not reported | Yes | Yes |
| Allen, 201013 RCT Risk of bias low | Self-management support (telephone-based) | Age: 60.1  % women: 7 BMI: 31.8 Comorbidity: Not available Prior treatment: Not available | Yes | Not reported | Yes | Yes |
| Veenhof, 2006118 RCT Risk of bias low | Behavioral graded activity program | Age: 65  % women: 77 BMI: 29 Comorbidity: 0.64 Prior treatment: Not available | Yes | Yes | Yes | Yes |
| van Baar, 2001119 RCT Risk of bias medium | Exercise | Age: 67.9  % women: 78.5 BMI: Not available Comorbidity: 63% for TG 62% for CG Prior treatment: 59% for TG 64% for CG | Yes | Yes | Yes | No |
| Halbert, 2001120 RCT Risk of bias medium | Education | Age: 68.9  % women: 59.4 BMI: 27.81 Comorbidity: Not available Prior treatment: Not available | No | Not reported | Yes | Yes |
| Hughes, 2004121 RCT Risk of bias medium | Exercise | Age: 73.59  % women: 84 BMI: Not available Comorbidity: % treated for Cardiovascular disease 58.5, Asthma: 5.1, Emphysema: 5.1, Diabetes: 11.4, Cancer: 6.4  Prior treatment: Not available | No | Not reported | Yes | Yes |
| Wang, 200724 RCT Risk of bias medium | Exercise | Age: 66.2  % women: 84.2 BMI: Not available Comorbidity: Not available Prior treatment: Not available | ITT planned, but not executed | Not reported | Yes | Yes |
| Minor, 1989122 RCT Risk of bias medium | Exercise | Age: 60.6  % women: 81.7 BMI: Not available Comorbidity: Not available Prior treatment: Not available | No | Not reported | Yes | Yes |
| Moffett, 1996123 RCT Risk of bias medium | Short wave | Age: 63  % women: 63.04 BMI: Not available Comorbidity: Not available Prior treatment: Not available | No | Yes | Yes | Yes |
| Hopman-Rock, 2000124 RCT Risk of bias medium | Education | Age: 65  % women: 83 BMI: 27.5 Comorbidity: arthritis in hand or other joints (65%), Back problems or hernia nuclei pulposi for >3 months (32%), high blood pressure (27%) Prior treatment: Not available | No | Not reported | Yes | Yes |
| Wetzels, 2008125 RCT Risk of bias medium | Education | Age: 74.53  % women: 75.96 BMI: Not available Comorbidity: Not available Prior treatment: Not available | No | Not reported | Yes | Yes |
| Trock, 1993126 RCT Risk of bias medium | Pulsed electromagnetic fields | Age: Not available  % women: Not available BMI: Not available Comorbidity: Not available Prior treatment: Not available | Unclear | Yes | Yes | Yes |
| Belza, 2002127 RCT Risk of bias medium | Exercise aquatic | Age: 65.7  % women: 86.3 BMI: Not available Comorbidity: Number of comorbid conditions = 4 Prior treatment: Not available | No | Not reported | Yes | Yes |
| Song, 2007128 RCT Risk of bias medium | Tai Chi | Age: 63  % women: 100 BMI: Not available Comorbidity: Not available Prior treatment: Not available | No | Not reported | Yes | Yes |
| Hughes, 2006129 RCT Risk of bias medium | Exercise | Age: 73.35  % women: 83.15 BMI: Not available Comorbidity: Hypertension:55%, Cardiovascular disease: 45%, Asthma: 7%, Emphysema:4% , Diabetes:14% , Cancer: 4% Prior treatment: Not available | No | Not reported | Yes | Yes |
| van Baar, 1998 130 RCT Risk of bias medium | Exercise | Age: 68  % women: 78.5 BMI: Not available Comorbidity: 62.5 Prior treatment: 61.5% medical treatment | Yes | Yes | Yes | No |
| Cadmus, 2010131 RCT Risk of bias medium | Aquatic exercise | Age: 65.9  % women: 86 BMI: 31.6 Comorbidity: 4 chronic conditions Prior treatment: Not available | No | Not reported | Yes | Yes |
| Gill, 2009132 RCT Risk of bias high | Exercise aquatic vs. aerobic | Age: 70.4  % women: 62.2 BMI: 31.1 Comorbidity: Not available Prior treatment: 17% previous joint replacement | No | No | Yes | Yes |
| Evcik, 2002133 Non RCT Risk of bias high | Exercise | Age: 56.35  % women: 65.43 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Sen, 2004134 Non RCT Risk of bias high | Exercise | Age: 56.61  % women: 82.29 BMI: 27.73 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Jan, 1991135 Non RCT Risk of bias high | Ultrasound | Age: 62.4  % women: 100 BMI: 23.6 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Svarcova, 1987136 Non RCT Risk of bias high | Ultrasound | Age: 63.37  % women: Not available BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Hill, 1999137 Non RCT Risk of bias high | Balneotherapy | Age: 71  % women: 80 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Hurley, 1998138 Non RCT Risk of bias high | Exercise | Age: 61.387  % women: 70.1 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Tohyama, 1991139 Non RCT Risk of bias high | Insole | Age: 57  % women: 85.45 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | No | Not available |
| Sasaki, 1987140 Non RCT Risk of bias high | Insole | Age: 59.2  % women: 82.55 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | No | Not available |
| Norton, 1999141 Non RCT Risk of bias high | Exercise | Age: 66.58  % women: 100 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Konishi, 200946 Non RCT Risk of bias high | Home-based exercise | Age: 69.37  % women: 100 BMI: 24.62 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| de Jong, 2004142 Non RCT Risk of bias high | Exercise | Age: 69  % women: 71 BMI: Not available Comorbidity: Number of chronic conditions=2.2 Prior treatment: Not available | Not available | Not available | No | Not available |
| Fransen, 1997103 Non RCT Risk of bias high | Exercise | Age: 66.24  % women: 80 BMI: 28.98 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | No | Not available |
| Domaille, 2006143 Non RCT Risk of bias high | Exercise | Age: 66.9  % women: 62 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | No | Not available |
| Coleman, 2008144 Non RCT Risk of bias high | Education | Age: 66  % women: 75.95 BMI: Not available Comorbidity: cardiovascular 45%; mental health 11%; gastrointestinal 30%; endocrine 18%; musculoskeletal 20%; osteoporosis 18%; multiple comorbidities 64.5%; other 61%; No comorbidities 15% Prior treatment: Not available | Not available | Not available | No | Not available |
| Fisher, 1993145 Non RCT Risk of bias high | Quantitative progressive exercise muscle rehabilitation program added to physical therapy program | Age: 63.9  % women: 50 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | No | Not available |
| Elbaz, 2010146 Non RCT Risk of bias high | Exercise | Age: 62.5  % women: Not available BMI: 32.1 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Erhart, 2008147 Non RCT Risk of bias high | Shoe | Age: 60.2  % women: 46.8 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | No | Not available |
| Kilicoglu, 2010148 Non RCT Risk of bias high | Balneotherapy | Age: 69  % women: 50 BMI: 29.3 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| King, 2008149 Non RCT Risk of bias high | Exercise | Age: 48.4  % women: 14.3 BMI: 29.3 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Shimada, 2006150 Non RCT Risk of bias high | Insole | Age: 67  % women: 73.9 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Sled, 201014 Non RCT Risk of bias high | Exercise | Age: 62.98  % women: 57.5 BMI: 27.38 Comorbidity: Not available Prior treatment: Not available | Not available | Not available | Yes | Not available |
| Huang, 2000151 Non RCT Risk of bias high | Transcutaneous Electrical Nerve Stimulation | Age: 53.8  % women: 88.9 BMI: Not available Comorbidity: Not available Prior treatment: Not available | Not available | Not available | No | Not available |

NR - not report