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| **TABLE S1**  Inclusion and Exclusion criteria of trials included in Systematic Review and Meta-Analysis | | | | | |
|  | **Ashar et al. 2024** | **Borgmann et al. 2019** | **Carvalho et al. 2016** | **Ikemoto et al. 2020** |
| **Inclusion criteria** | * Chronic back pain for at least half of the days in the past 6 months. * Average pain intensity of 4 or more on a 10-point NRS during screening. * Age within the specified range (not explicitly stated in the provided text). * No history of metastatic cancer or autoimmune conditions. * Eligible for MRI. | * Adults aged 18 years or older. * Chronic low back pain lasting for at least 12 weeks. * Pain intensity of at least 3 on a NRS. * Ability to provide informed consent. * No contraindications for participation in the study. | * Adults aged 18 years or older. * Diagnosed with chronic low back pain for at least 3 months. * Pain intensity rated at least 3 on a 0-10 NRS * No recent changes in medication or treatment for back pain. * Ability to provide informed consent. | * Age over 20 years * Persistent chronic low back pain for a minimum duration of 6 months * A score of at least 3 on a 10-point NRS for subjective pain intensity |
| **Exclusion criteria** | * Pain intensity less than 4/10. * Pain experienced less than half the days in the past 6 months. * Leg pain greater than back pain. * Hyper/hyposensitivity to the evoked back pain device. * Declined to participate. * Other unspecified reasons for exclusion. | * Acute pain conditions or recent surgery related to the back. * Serious underlying conditions (e.g., malignancy, infection, fracture). * Neurological deficits affecting the lower limbs. * Current use of opioids or other strong analgesics. * Participation in other clinical trials within the last 30 days. * Pregnancy or breastfeeding. | * History of serious medical conditions (e.g., cancer, neurological disorders). * Recent surgery on the back or spine. * Current use of opioids or other strong analgesics. * Participation in other clinical trials within the last 30 days. * Pregnancy or breastfeeding. * Cognitive impairment affecting the ability to provide informed consent. | * No wish to participate * Pain radiating to the lower leg * Ongoing treatment for malignant tumors, spinal fractures, or spinal infections * Autoimmune diseases * Spondyloarthropathy * Age 75 years and older with a T-score lower than 2.5 on dual-energy X-ray absorptiometry * History of fragile spinal fractures * History or current use of steroids for more than 3 months * Prominent spinal kyphosis or degenerative lumbar scoliosis (Cobb angle over 30°) * Thoracic or lumbar surgeries performed less than 3 months previously * Medication associated with dementia * Suspected cognitive disorder * Cases considered ineligible by the researchers. |

MRI, Magnetic Resonance Imaging; NRS, Numerical Rating Scale.