Supplementary Table 1. Floor-based, spinal isometric exercise library for prostate cancer patients with spinal bone metastases to cater for varying physical capabilities and training progression rates.

<table>
<thead>
<tr>
<th>Exercise</th>
<th>Instruction</th>
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| Abdominal Brace #1:           | **Start position:** Supine on floor with arms by their side, knees bent and feet on the floor.  
| - Single Leg Lift             | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Slowly raise one foot off the floor until shank is parallel to the floor. Hold for 10 seconds. Lower foot to floor and repeat on the other limb.  
|                               | **Volume:** Perform 2-4 sets of 8-12 repetitions.  
|                               | **Rest:** 60 seconds between sets.                                                                                                                                                                           |
| Abdominal Brace #2:           | **Start position:** Supine on floor with arms by their side, knees bent and feet on the floor.  
| - Double Leg Lift             | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Slowly raise both feet off the floor until both shanks are parallel to the floor. Hold for 10 seconds. Lower both feet to floor.  
|                               | **Volume:** Perform 2-4 sets of 8-12 repetitions.  
|                               | **Rest:** 60 seconds between sets.                                                                                                                                                                           |
| Abdominal Brace #3:           | **Start position:** Supine on floor with hands resting on hips, knees bent and feet on the floor.  
| - Leg Fall Out                | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Slowly allow one leg to rotate outward towards the floor by relaxing the adductor muscles. Do not allow rotation at the spine or pelvis. Repeat on opposite leg.  
|                               | **Volume:** 2-4 sets of 8-12 repetitions  
|                               | **Rest:** 15 seconds between sets.                                                                                                                                                                           |
| Abdominal Brace #4:           | **Start position:** Supine on floor with hands resting on hips, knees bent and feet on the floor.  
| - Foot Slide                  | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Slowly slide one leg out (extending at the hip and knee) and back along the floor. Repeat on opposite leg.  
|                               | **Volume:** 2-4 sets of 8-12 repetitions  
|                               | **Rest:** 15 seconds between sets.                                                                                                                                                                           |
| ‘All Fours’ Position #1:      | **Start position:** Prone, resting on knees, with outstretched hands beneath the shoulders.  
| - Hip Hinges                  | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Slowly flex at the hips and knees, moving backward. Patient should sit into this position so that their buttocks touches their heels while arms remain fixed. Return to start position.  
|                               | **Volume:** 2-4 sets of 8-12 repetitions  
|                               | **Rest:** 15 seconds between sets.                                                                                                                                                                           |
| ‘All Fours’ Position #2:      | **Start position:** Prone, resting on knees, with outstretched hands beneath the shoulders.  
| - Arm Extension                | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Lift one arm off the ground. Maintain balance by holding a neutral and firm spine. Pause for 5 seconds before slowly lowering back to the floor. Repeat on alternate arm.  
|                               | **Volume:** 2-4 sets of 8-12 repetitions  
|                               | **Rest:** 30 seconds between sets.                                                                                                                                                                           |
| ‘All Fours’ Position #3:      | **Start position:** Prone, resting on knees, with outstretched hands beneath the shoulders.  
| - Leg Extension                | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Lift one leg off the ground. Maintain balance by holding a neutral and firm spine. Pause for 5 seconds before slowly lowering back to the floor. Repeat on alternate leg.  
|                               | **Volume:** 2-4 sets of 8-12 repetitions  
|                               | **Rest:** 30 seconds between sets.                                                                                                                                                                           |
| ‘All Fours’ Position #4:      | **Start position:** Prone, resting on knees, with outstretched hands beneath the shoulders.  
| - Arm & Leg Extension          | **Instruction:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Lift one arm and the opposite leg off the ground. Maintain balance by holding a neutral spine. Pause for 5 seconds before slowly lowering back to the floor. Repeat on the alternate arm/leg combination.  
|                               | **Volume:** 2-4 sets of 8-12 repetitions.  
|                               | **Rest:** 30 seconds between sets.                                                                                                                                                                           |
| Bridge #1:                    | **Start position:** Supine on floor with hands by their side, knees bent and feet on the floor.  
| - Full Hip Extension           | **Instructions:** Pre-activate and set abdominals to hold a neutral spine position (isometric). Lift hips to align with shoulders and knees. Pause for 5 seconds in this position prior to slowly lowering hips back to the floor.  
|                               | **Volume:** 2-4 sets of 8-12 repetitions.  
|                               | **Rest:** 60 seconds between sets.
| Bridge #2: | Start position: Supine on floor with hands by their side, knees bent and feet on the floor.  
Instructions: Pre-activate and set abdominals to hold a neutral spine position (isometric). Lift hips to align with shoulders and knees. Once in this position, slowly extend and straighten one leg. Slowly return extended leg back to the floor before also lowering the hips back to the floor. Alternate between legs.  
Volume: 2-4 sets of 8-12 repetitions.  
Rest: 60 seconds between sets. |
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<td>Single Hip Extension</td>
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| Bridge #3: | Start position: Lying on their side, with arm abducted, resting on their forearm.  
Instructions: Pre-activate and set abdominals to hold a neutral spine position (isometric). Lift hips to align with shoulders and knees. Maintain knee contact with the floor. Hold this position for up to 90 seconds (or as long as achievable without compromising technique). Alternate sides. This can be progressed by performing this exercise with legs fully extended (resting on forearm and feet).  
Volume: Hold for 10-90 seconds. Repeat 2-4 times.  
Rest: 60 seconds between sets. |
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<td>Side Bridges</td>
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| Bridge #4: | Start position: Prone, resting on knees, with outstretched hands beneath the shoulders.  
Instructions: Pre-activate and set abdominals to hold a neutral spine position (isometric). Straighten legs while arms remain outstretched, ensuring abdominals remain braced. Hold this position for up to 90 seconds (or as long as achievable without compromising technique). This can be progressed by performing this exercise while resting on forearms.  
Volume: Hold for 10-90 seconds. Repeat 2-4 times.  
Rest: 60 seconds between sets. |
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<td>Prone Planks</td>
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**Note:** Always maintain neutral spine and control pelvic tilt. Spine must be supported through abdominal bracing to ensure safe delivery of these exercises [60]. Practitioners must always be cautious and observant to ensure correct technique and posture is upheld. Patients with cervical bone metastases are contraindicated for Bridge #1 or Bridge #2 and should not perform these two exercises.