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Phase 1	0-6 Weeks Post-op
Rehabilitation Goals	 Proper healing of the incision Educate the patient in minimizing pain Independence in ambulation and ADLs Increased patient's aerobic tolerance Good sitting and standing posture Good motor control and body mechanics for all transitional and functional activities Good setting of all pelvic ring musculature Minimal pain and inflammation
Appointments	 Every 1 to 2 weeks to advance home exercise program or more as indicated by re-assessment
Weight Bearing	Toe-touch weight-bearing
Precautions	 Limit hip flexion to 90 degrees (use a toilet seat extender) No end-range lumbar or hip motions Avoid lifting, twisting or excessive bending from the lumbar spine, pelvis, and/or hips
Treatment Strategies	 Instruct patient in protecting and promoting healing for their incision Gait training as needed with maintenance of proper weightbearing restrictions. Stair training as indicated with proper weightbearing restrictions. Transfer training with good motor control and proper weightbearing restriction Bed mobility training with good motor control Instruction in proper sitting and standing posture. ADL training with maintenance of a neutral spine/pelvis and correct body mechanics Instructed in icing to control pain and inflammation



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Therapeutic Exercises	 Instruct in Phase 1 postoperative SI joint fusion exercises: Diaphragmatic/abdominal breathing Transversus abdominis and multifidus setting Pelvic floor setting Gluteal setting (bilateral/simultaneous) Latissimus dorsi setting (bilateral/simultaneous) Quadricep setting (bilateral/simultaneous) Hamstring setting (bilateral/simultaneous)
Advancement Criteria	 No increase in SI joint pain or reproduction of lower extremity pain with therapy and/or home exercise program Independence in phase 1 postoperative SI joint fusion exercises Tolerance of 15 minutes of exercise and walking with an assistive device Independence in ADLs for dressing, self-care and hygiene



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Phase 2	6-8 Weeks Post-op
Rehabilitation Goals	 A fully healed scar with good mobility No gait deviations with weight-bearing as tolerated Good sitting and standing posture Good body mechanics and motor control with maintenance of a neutral spine/pelvis during transitional activities Progression to phase 2 postoperative SI joint fusion stabilization exercises Fair to good static and dynamic standing balance Good pain control and no significant inflammation
Appointments	 Every 1 to 2 weeks to advance home exercise program or more as indicated by re-assessment
Weight Bearing	Weight-bearing as tolerated
Precautions	 Avoid excessive SI joint loading Avoid twisting and end-range movements of the lumbar spine and hips Follow lifting restrictions as established by physician
Treatment Strategies	 Monitor incision for proper healing and scar tissue mobility (instructed in scar tissue mobilization as indicated) Instruct in progressive weightbearing during ambulation weaning off the assistive device as tolerated and as ordered by surgeon Reinstruct in maintaining good posture, motor control and body mechanics during activities of daily living
Therapeutic Exercises	 Instruct in Phase 2 postoperative SI joint fusion exercises: Reinstruct in co-contraction of the transversus abdominis, multifidus and pelvic floor as indicated by reassessment Supine bilateral arm lifts Supine or sitting isometric hip abduction, adduction, internal rotation and external rotation Side-lying bent knee hip abduction Prone bilateral shoulder horizontal abduction and extension Sitting upper extremity AROM progressing to light isotonic and Thera-Band strengthening
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Therapeutic Exercises Continued	 Initiate standing balance exercises in bilateral stance, progressing to step stance, depending on weight- bearing restrictions established by surgeon
Advancement Criteria	 No increase in SI joint pain or reproduction of referred pain with therapy and/or home exercise program. Independent in-home exercise program for phase 2 Able to hold a co-contraction of the multifidus, transversus abdominis, and pelvic floor muscles during all transitional activity and home exercises Fair to good static and dynamic standing balance without an assistive device Independent in postural correction in sitting, standing, and lying Dynamic sitting and standing tolerance of 15 to 20 minutes Able to ambulate for 20 minutes at a moderate pace



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Phase 3	8-12 Weeks Post-op
Rehabilitation Goals	 Normal scar tissue mobility Independence in a progressive walking program/cardiovascular exercise program Normal sitting and standing posture without verbal cues Able to progress to unsupported SI joint stabilization exercises Able to progress to advanced balance training exercises in standing Pain and inflammation under control
Appointments	 Every 1 to 2 weeks to advance home exercise program or more as indicated by re-assessment
Weight Bearing	 Full weight-bearing during all transitional activities, functional activities, and gait
Precautions	 Avoid reproduction of any SI joint or lower extremity pain Avoid pre-loading the spine in a posterior pelvic tilt (maintain a neutral spine/pelvis). Avoid lumbar flexion or lifting exercises in the early a.m., secondary to diurnal variations in fluid level in the intervertebral disc (more hydrated in the early a.m.). Focus on low load high repetitions to improve endurance rather than high load low repetitions for strength. Adherence to weight lifting restrictions as indicated by surgeon.
Treatment Strategies	 Manage scar tissue development and mobility Instruct in a progressive walking program at a moderate rate, correcting any gait deviations identified during the gait assessment Reinstruct in postural correction and proper body mechanics for ADLs and functional activities as needed.
Therapeutic Exercises	 Instruct in Phase 3 postoperative SI joint fusion progressive exercises in unloaded and in loaded positions: Supine unilateral arm lifts Supine double leg bridges with upper extremity assist progressing to no upper extremity assist Supine bent leg raises, progressing to straight leg raises CONTINUED ON NEXT PAGE



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Therapeutic Exercises	 Side-lying bent leg hip abduction progressing to straight leg hip abduction
Continued	 Prone or quadruped unilateral shoulder flexion progressing to unilateral hip extension, then simultaneous shoulder flexion with opposite hip extension Upper/lower extremity strengthening exercises sitting on an exercise ball or stool with a neutral pelvis/spine position Squatting to 45 degrees, progressing to 60 degrees and then to 90 degrees Single-leg balance training, progressing to single leg standing hip exercises and single leg step taps Mobilization and stretching of tight tissues above and below the fusion site
Advancement Criteria	 No increase in SI joint pain or reproduction of any lower extremity pain with therapy and/or home exercise program. Independence in home exercise program for phase 3 Able to perform squats with the maintenance of a neutral pelvis and no hip internal rotation. Able to demonstrate proper breathing technique along with a neutral pelvis during all home strengthening exercises. Good static and dynamic standing balance Demonstrate good dynamic sitting and standing tolerance of 20 to 30 minutes. Able to tolerate walking and/or a cardiovascular exercise for 30 minutes, demonstrating no gait deviations



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Phase 4	12-24 Weeks Post-op
Rehabilitation Goals	 Normal posture Normal lumbar and hip AROM without increasing or reproducing symptoms Manual muscle testing will reveal 5/5 strength for all trunk and bilateral lower extremity musculature Progression to more advanced SI joint stabilization exercises Progression to functional lift training and achieving all functional goals identified by patient No mechanical signs or symptoms No pain with ADLs
Appointments	 Every 1 to 2 weeks to advance home exercise program or more as indicated by re-assessment
Weight Bearing	No weight-bearing restrictions
Precautions	 Reproduction or increase in any symptoms with repetitive lumbar or hip motions Avoid pre-loading the spine/pelvis in a posterior pelvic tilt Avoid repetitive and sustained end-range lumbar flexion or heavy lifting exercise in the early a.m. secondary to diurnal variations in fluid level of the intervertebral disc (more hydrated in the early a.m.) Focus on low load to high resistance to improve endurance, rather than high load low resistance for strength Adherence to weight lifting restrictions as indicated by surgeon
Treatment Strategies	 Instruct in a progressive walking program at a brisk rate Instruct in cardiovascular exercises (swimming, cycling, Nordic track, elliptical, stair climber)
Therapeutic Exercises	 Instructed in Phase 4 postoperative SI joint fusion progressive exercises: Push-ups in standing at the wall, progressing to a table, and then to the floor Planks in standing, progressing to supine, prone lying and side-lying if tolerated Supine stabilization exercises on the exercise ball Prone stabilization exercises on the exercise ball Functional lift training (ADLs and job specific)



Therapeutic Exercises Continued	 Forward, lateral and backward step ups Standing elastic band hip strengthening exercises Elastic band resisted gait (forward, backward and
Continued	 Elastic band resisted gait (forward, backward and lateral) Lunges in all planes, adding elastic band resistance as tolerated
Advancement Criteria	 No increase in or reproduction of SI joint pain or lower extremity pain with therapy and/or home exercise program. Independent in a home exercise program for phase 4 Lumbar and hip AROM with in functional limits 5/5 trunk and lower extremity strength with manual muscle testing Demonstrate a floor to waist lift, waist to crown lift, front carry up to 30 feet, unilateral carry up to 30 feet, push/pull up to 30 feet with good body mechanics and no reproduction of pain Demonstrate dynamic sitting and standing tolerance of greater than or equal to 30 minutes Able to tolerate walking and/or cardiovascular exercise for greater than or equal to 30 minutes



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Phase 5	24 Weeks Post-op and Beyond
Rehabilitation Goals	 Patient independence in a comprehensive home exercise program Able to participate in a full mechanical evaluation of the low back and hips without pain or increased symptoms Functional capacity results will be suitable for employment, sports, and ADLs Full return to activity or fully redefined activity level Able to maintain normal posture Normal lumbar and hip AROM 5/5 for all trunk and hip musculature with manual muscle testing Good cardiovascular fitness Patient responsive to mechanical signs and symptoms
Appointments	• PRN
Precautions	 Any mechanical signs or symptoms with testing Any neurological signs and symptoms with testing
Treatment Strategies	 Instruct in a comprehensive home exercise program to maintain functional status Perform a full mechanical evaluation of the lumbar spine and bilateral hips Set up a functional capacity evaluation (results suitable for employment, sports and ADLs) if ordered by physician Instruct patient in returning to full activity or fully redefined activity level Instruct in prophylaxis: Maintenance of normal posture Maintenance of functional trunk/lower extremity strength Maintenance of good cardiovascular fitness Responsiveness to mechanical signs and symptoms Being proactive to prevent future exacerbations
Advancement Criteria	 Achievement of all Phase 5 goals Full understanding of prophylaxis