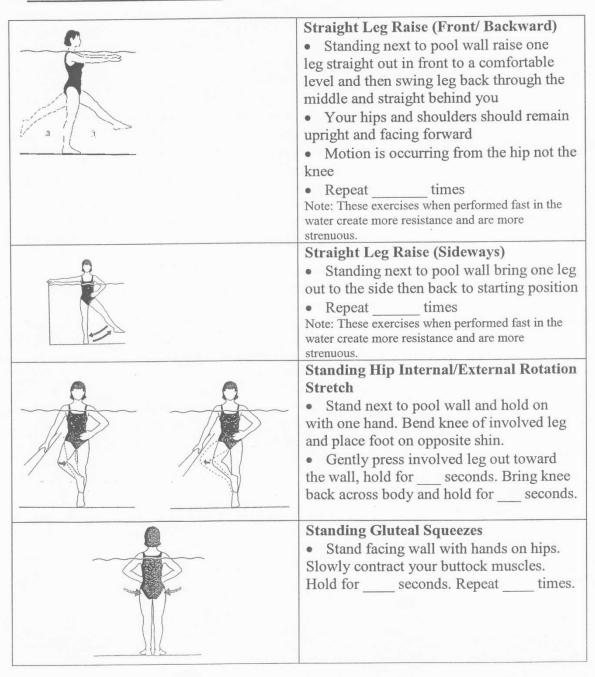
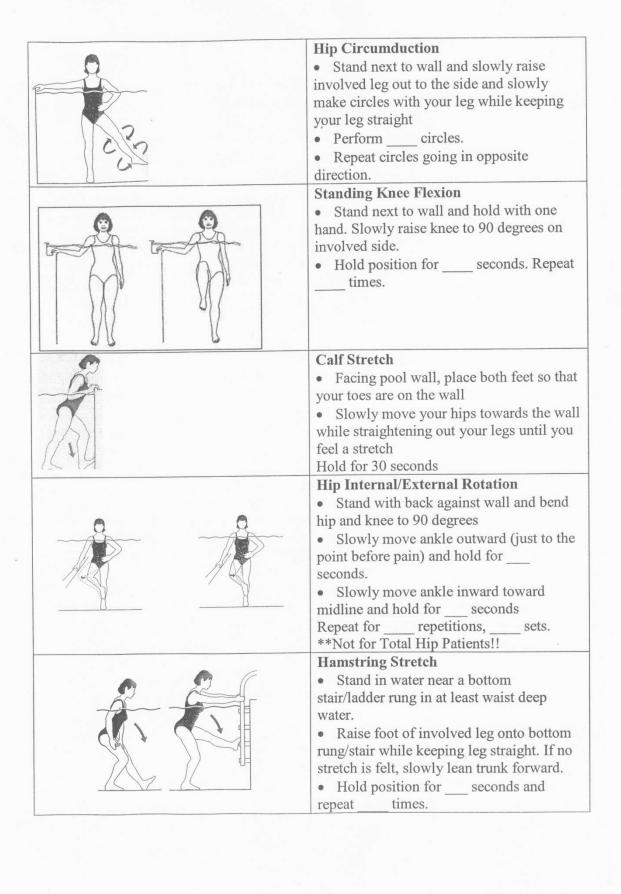
Stage 1A: Active Range of Motion (AROM)

- Begin at Week 2 Post-Op using a water-proof dressing
- Goals of stage 1A rehab:
 - Begin to regain motion in chest deep water
 - Avoid pain with all motions while maintaining a level pelvis
 - Perform AROM 3-5x/week
- Exercises to be performed:





Stage 1B: Gait Training

- Begin at Week 3 Post- Op
- Goals of stage 1B rehab:
- Begin in chest deep water and progress to waist deep after 1-2 wks of no pain
 - Focus on maintaining a level pelvis
 - Perform gait training 3x/week
- Exercises to be performed:

	G: 1 XX-II-i			
Forward/ Backward Walking	Sideways Walking			
Standing near wall, begin by walking	• Stand facing the wall and move involved			
paces forward in water, making sure to	leg out to the side and place foot on floor.			
lift foot off of the ground by bending at the	Move uninvolved leg toward the involved			
knee and hip.	leg to return to starting position.			
 To walk backward, stand in place and 	Repeat this for paces.			
slowly bend hip and knee before swinging	To exercise the uninvolved leg, take			
the leg backward and placing foot on the	same path back to the starting point leading			
ground. Repeat this for paces.	with the uninvolved leg. Otherwise, turn			
	and face away from wall to exercise the			
	involved leg.			
	High Knee Forward Walking			
E 3/	Walk forward raising knee to height of			
- Quite	hip as if you were marching.			
	Make sure heel hits the ground, then			
	whole foot, and push off using the toes to			
177	raise the leg.			
	Walk laps or minutes.			
2.)	*Less than hip height for total hip patients			
8	Marching			
C X	Standing in place bring knee up to hip			
	level and return to ground			
	Repeat with opposite leg consecutively			
	Your motion should look like you are a			
	soldier standing in place.			
	Repeat for approximately marches			
	on each leg.			
	*No more than 90 degrees for total hip patients			
6	Groin Stretch			
	Hang vertically in an inner tube			
	Bend knees together and heels upward			
	until a stretch is felt in the inner thigh/groin			
	Hold for seconds, repeat times			
	*Not for total hip patients			

The state of the s	 While standing on one leg, bring heel of opposite leg to your rear Return foot to starting position Repeattimes
	Note: These exercises when performed fast in the water create more resistance and are more strenuous.
	 Bike Pedaling in Deep Water Using a float belt, go into deep water such that the feet are not in contact with the floor. (OK to stay near a wall just in case) While maintaining an upright position, slowly begin to bend knee and hip of one leg. Slightly kick bent leg forward while straightening out leg and simultaneously bent hip and knee of opposite leg. Perform this motion continuously for seconds.
	 Mini Squats Stand facing the wall with feet shoulder width apart using both arms for support. Slowly bend knees and lower torso into water until the hips are halfway between the surface of the water and your knees Slowly arise back into standing keeping torso straight and heels on the floor. Repeat times; sets.
	Pelvic Tilt • Stand with back against pool wall with feet shoulder width apart and knees over the toes • Contract the lower abdominals, pulling the pubic bone forward and up toward the navel (posterior pelvic tilt) • Hold for seconds, then relax. Repeat times; sets.

Stage 2: Intermediate Training

- Begin at Week 4/5 per MD approval
- Goals of stage 2 rehab:
 - Begin to incorporate components of strength training in the water
 - Add in low load stretches to increase muscle flexibility
 - Continue to increase endurance
 - Perform 4-5x/week

•Exercises to be performed:

 Knee to Chest Stretch Standing with back against the pool was grasp behind your thigh and pull your kneet to your chest Hold for 30 seconds. Return to starting position and perform on opposite leg. Repeat once more on each leg. *No more than 90 degrees for total hip patients 		
 Quadriceps Stretch Holding on to pool wall with one hand, use the other to pull the ankle of one leg towards your rear until a stretch is felt Hold for 30 seconds. Perform same on opposite leg. Repeat on both legs. 		
 Mini squats with heel raise With feet shoulder width apart squat down keeping your head and shoulders over your hips Raise yourself back up to standing position, then up onto your toes This exercise should be one continuous motion from start to finish. Repeat times 		
Lunge • Start in standing position and take one step forward with one foot • Kneel down as far as you are comfortable • Return to start position and repeat with opposite leg Repeat times		

 Single Leg Mini Squat Stand facing pool wall with feet shoulder width apart Bend knee of unaffected leg and slowly lower yourself into the water while balancing yourself on the involved leg The knee should go no lower than the level of your hip Repeat this times, sets
 Step Ups Stand on pool floor near a wall or railing for support. Step up onto bottom stair leading with the involved leg; straighten involved leg on stair to raise the uninvolved leg up onto the step/stair. Return to starting position by leading down step with the involved leg onto the pool floor, followed by the uninvolved leg. Repeat times; sets.
 Stride Jumps Stand with feet together and arms at your sides Hop upward and simultaneously bring arms up to the surface of the water and spread legs apart from one another Hop up again and return to the starting position. Repeat times; sets
Pelvic Curl Place the back against the pool wall and hold onto the edge of the pool with both hands Slowly lift the legs off of the pool bottom until the knees are at 90 degrees and the lower spine is flat against the wall Keeping the knees and hips bent, slowly lift the pelvis off of the wall using the abdominal muscles Release the contraction and allow the pelvis to touch the pool wall again Repeat this times; sets

Stage 3: Advanced Aquatic Training

- Begin at Week 6 post- op
- Goals of stage 3 rehab:
 - Increase total resistance
 - Perform 20-30 minutes continuously, 3-5x/week

•Exercises to perform:

- Kicking with kickboard across pool
- Kicking with short fins across pool (see picture below)
- Swimming front crawl/ backstroke
- Swimming breast stroke (beginning at week 8)



Pedaling in Water Lay on back and support self with elbows. Make circular cycling motion with legs underwater Perform for reps or minutes Repeat in opposite direction			
Straight leg kicks/Flutter kicks • Lie on back/stomach in water holding an inner tube or kickboard for support; Keeping legs straight alternately (and gently) kick legs. • Keep feet under water while kicking, barely making a splash as you move			
through the water Standing Crunches Stand while performing a pelvic tilt Hold a ball or flotation device snugly against your chest Gently contract your abdominal muscles to bring your upper body forward Hold the contraction for 4 counts, and then relax for 4 counts. Maintain the pelvic tilt throughout. Repeat times; sets			