Occupational Therapy Guideline: Additional file 5

Hand and Wrist Exercises.

Type of exercise	Instruction and how many repeats	How often per week
With no tools		
	Hold for 20-30 seconds and then repeat.	To be done daily.
Figure 1: Wrist extension stretch.		
Figure 2: First web space stretch.	Stretch from the base of the thumb and hold for 20-30 seconds and repeat	To be done daily.
	Hold for 20-30 seconds and repeat.	To be done daily.

Figure 3: Interdigital finger stretching.

Type of exercise	Instruction and how many repeats	How often per week
With tools		
	Roll the egg with fingers back and forth to stretch fingers into extension 10 times slowly	To be done daily.
a. b.	Grasp egg to gently stretch fingers and thumb open. Also stretch the	To be done daily.
Figure 4: Hand exercises using a gel egg.	base of the thumb. Hold for up to 1-2 minutes.	
a.	Grasp handle and pull gently to stretch fingers into extension. Hold for a count of 10.	To be done daily.
Figure 5: Finger and wrist exercises using a padded handle against light resistance.		

Type of exercise	Instruction and how	How often per week
a.	many repeats Gently grasp the ball, keeping the palm in contact with the surface. Use the ball to gently stretch the base of the thumb open. Hold for a slow count of 10, repeat.	This can be alternated with the stretch on the knee or the egg exercise above.
b. Figure 6: Hand exercise using a light, pliable ball for first web-space stretch and pinch strengthening.	Grasp and/or pinch the ball with fingers and thumb to maintain hand strength. Repeat 10 times.	To be done 3-5 times per week if it does not cause skin breakdown.
Product	Geographical location	Estimated cost in US\$
Gel Egg	Norway, US,	6.00-9.00
Padded handle against light resistance	Mexico Norway, US, Mexico	2.00-6.00 to make, 12-15.00 to buy
Pliable ball	Norway, US, Mexico	8.00-12.00

Mexico
For additional examples, resources and suggestions, please refer to Occupational Therapy in Epidermolysis Bullosa by Weiß and Prinz (2013).