Additional file 1: Content of sessions and home assignments of multimodal treatment

Week	Content	Assignment (HTI* (5 assignments per week)
1	 personal login to the HTI instruction on HTI use for assignments patients receive the book Explain Pain neurophysiology of (chronic) back pain local trunk muscle recruitment, dissociation exercises, movement control 	 reading section of the book Explain Pain answer 18 questions related to the section read movement control exercise, frequency and duration reported in HTI
2	 neurophysiology of pain movement control exercises instruction on left-right recognition training with the Recognise® program 	 similar to previous week left-right recognition training with 3 x 20 pictures of trunk positions
3	 instruction on SRT neurophysiology of pain and analysis of patient's individual situation purpose of SRLM explained with video movement control exercises 	 perform SRT on HTI (3 x 40 two numbered dots to discern) watching video with SRLM (linked on HTI) movement control exercise, frequency and duration reported in HTI
4	 education on the application of movement control into daily living graded exposure to functional movement 	 perform SRT on HTI (3 x 40 numbered dots) perform 3 x 20 images on Recognise® movement control exercise, frequency and duration reported in HTI
5	 analysis of everyday movements, discussion of experienced limitations, finding better movement strategies 	 perform SRT on HTI (1 x 40 letters to perceive) watching video with SRLM movement control exercise, frequency and duration reported in HTI
6	 as in previous session emphasis on individual resources and recreation 	 perform SRT on HTI (1 x 30 3-letter-words to perceive) watching video with FRLM movement control exercise, frequency and duration reported in HTI
7	 as in previous session 	 perform SRT on HTI (3 x 40 numbered dots) watching video with FRLM movement control exercise, frequency and duration reported in HTI
8	 wrap-up of acquired knowledge, newly integrated movement behaviour and handling of pain exacerbations in the future 	 reading a summary of the key points of the programme, including application to everyday life watching video with FRLM movement control exercise, frequency and duration reported in HTL

duration reported in HTI

HTI web-based home training interface; SRT Sensory Retraining Tool (discerning numbered dots, pressed on patient's back); SRLM small range lumbar movement (to observe and perform, such as in a gymnastic tutorial video); FRLM full range lumbar movement.