

1 **Clinical Practice Guideline: Feldenkrais Method**

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3 **Date of Implementation: February 9, 2006**

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5 **Product: Specialty**

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8 **GUIDELINES**

9 American Specialty Health – Specialty (ASH) considers Feldenkrais Method (FM) as
10 medically necessary as a form of movement/exercise within a multi-component
11 rehabilitative program.

12

13 **DESCRIPTION/BACKGROUND**

14 The Feldenkrais Method (FM) is a form of education that uses gentle movements and
15 directed attention to improve movement and enhance human functioning. It is said to be
16 based on principles of physics, biomechanics, and an understanding of learning and human
17 development.

18

19 Based on the work of Dr. Moshe Feldenkrais, an Israeli physicist and judo practitioner, the
20 method is expressed primarily in two formats. Practitioners generally receive more than
21 800 hours of formal training over a course of four years.

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23 **Functional Integration®** (FI) is a hands-on form of tactile, kinesthetic communication
24 between a practitioner and student. The practitioner communicates to the student how
25 he/she organizes his/her movements. Through precise touch and movement, the student
26 learns how to move with less effort and strain. Lessons may be very specific in addressing
27 particular issues brought by the student or can be more global in scope.

28

29 **Awareness Through Movement®** (ATM) lessons are verbally directed movement
30 sequences given primarily in a group setting, though they can also be given to individuals.
31 There are more than a thousand distinct ATM lessons in existence. Lessons are generally
32 organized around a particular function, and each practitioner lends their particular style to
33 each lesson.

34

35 According to practitioners, use of this method can increase range of motion, flexibility, and
36 coordination.

37

38 **EVIDENCE REVIEW**

39 Although an increasing amount of research involving the FM has been performed, only a
40 small body of empirical research has documented its efficacy. Because FM has such a wide
41 range of effects, a wide range of outcomes has been evaluated and reported. Many of the
42 clinical studies have involved small numbers of subjects (6 or fewer). The outcome studies

1 may be categorized into the following four general themes: pain management, functional
2 performance and motor control, psychological effects, and quality of life.

3
4 Laumer et al. (1997) studied the therapeutic effects of the FM Awareness Through
5 Movement lesson with eating disorder patients. Fifteen patients with eating disorders rated
6 various aspects of their eating disorder before and after participating in a 9-hour course of
7 FM. The data collected was compared to a control group, also consisting of 15 patients
8 with eating disorders who did not participate in an FM course. FM course participants
9 showed increased contentment with problem zones of their body as well as increased
10 acceptance and familiarity with their own body. Other results were a more spontaneous,
11 open, and self-confident behavior, decreased feelings of helplessness, and decreased wish
12 to return to the security of the early childhood, which indicates a general process of
13 maturation of the whole personality. The outcome points toward the therapeutic
14 effectiveness of FM with eating-disorder patients within a multimodal treatment program.

15
16 Another study (James et al., 1998) investigated the effects of FM on hamstring length.
17 Forty-eight (health undergraduate) participants were randomly allocated into either FM,
18 relaxation, or control groups. All subjects had their right hamstring measured using a
19 modified active knee extension test prior to the first session, prior to the fourth (final)
20 session, and after the final session of intervention. Two-way analysis of variance with time
21 of measurement repeated revealed no significant differences between the groups. The
22 findings are discussed in relation to apparent ineffectiveness of the Feldenkrais Awareness
23 Through Movement lessons used on hamstring length, exposure time to the technique, and
24 attitudes toward FM.

25
26 A randomized controlled trial (Lundblad et al., 1999) investigated whether physiotherapy
27 or Feldenkrais interventions resulted in a reduction of complaints from the neck and
28 shoulders (prevalence, pain intensity, sick leave, and disability in leisure and work roles)
29 in 97 female industrial workers (not on long-term sick leave). The workers were
30 randomized to (1) physiotherapy group, (2) Feldenkrais group, or (3) control group. Pre-
31 and post-tests were made at one-year intervals. The two interventions lasted 16 weeks
32 during paid working time. The Feldenkrais group showed significant decreases in
33 complaints from neck and shoulders and in disability during leisure time. The two other
34 groups showed no change (physiotherapy group) or worsening of complaints (control
35 group). This study showed significant positive changes in complaints after the Feldenkrais
36 intervention but not after the physiotherapy intervention.

37
38 The effects of a Feldenkrais Awareness Through Movement program and relaxation
39 procedures were assessed on a volunteer sample of 54 undergraduate physiotherapy
40 students over a 2-week period (Kolt et al., 2000). Participants were randomly allocated into
41 an FM group, a relaxation group, or a no- treatment (control) group, and state of anxiety
42 was measured using the Composed-Anxious scale of the Profile of Mood States-Bipolar

1 Form (Lorr and McNair, 1982) on 4 occasions. Analysis of variance showed that anxiety
2 scores for all groups varied significantly over time and that participants reported lower
3 scores at the completion of the fourth intervention. Compared to the control group, females
4 in the FM and relaxation groups reported significantly lower anxiety scores on completion
5 of the fourth session (compared to immediately prior to the fourth session), and this
6 reduction was maintained one day later. These findings can be interpreted as preliminary
7 evidence of the efficacy of FM and relaxation procedures in reducing anxiety.

8
9 Hopper et al. (1999) investigated the effects of FM on flexibility, perceived exertion, and
10 hamstring length. In Study 1, 79 healthy participants undertook measurement of flexibility,
11 perceived exertion, and hamstring length prior to being randomly allocated into a
12 Feldenkrais or control group with the same measurements taken after the group
13 intervention (Feldenkrais Awareness Through Movement lesson or control procedure).
14 Although the Feldenkrais participants improved significantly more in sit and reach
15 measurements than their control counterparts, no differences between the groups were
16 found for measures of perceived exertion or hamstring length. In Study 2, a subsample of
17 39 participants took part in further three-intervention sessions with the three measures
18 being taken again prior to and after the fourth (final) intervention. No group differences
19 were found for any of the outcome indicators across time. Ullmann et al. (2010) examined
20 the effects of Feldenkrais exercises on balance, mobility, balance confidence, and gait
21 performance in community-dwelling adults aged 65 and older. After completion of the
22 program, balance and mobility increased while fear of falling ($p = 0.042$) decreased
23 significantly for the FG group and not the control group. No other significant changes were
24 observed. However, participants of the FG group showed improvements in balance
25 confidence and mobility while performing concurrently a cognitive task. Authors
26 concluded that Feldenkrais exercises are an effective way to improve balance and mobility,
27 and thus offer an alternative method to help offset age-related declines in mobility and
28 reduce the risk of falling among community-dwelling older adults. Connors et al. (2011)
29 investigated the effects of Feldenkrais Method balance classes on balance and mobility in
30 older adults. Compared to the Control group, the Intervention group made a significant
31 improvement in their ABC score, gait speed ($P = .017$) and FSST time ($P = .022$). These
32 findings suggest that Feldenkrais Method balance classes may improve mobility and
33 balance in older adults. Teixeira-Machado et al. (2015) assessed changes in QoL and
34 depression in older adults with PD through use of Feldenkrais method-based exercise. The
35 treatment group underwent 50 sessions of an exercise program based on the Feldenkrais
36 method. The control group received educational lectures during this period. After the
37 exercises based on the Feldenkrais method, the treatment group showed improvement in
38 QoL scores as well as a reduction in the level of depression compared with the control
39 group. Authors suggested that it is likely that the practice of a program based on the
40 Feldenkrais method can contribute greatly to the QoL of patients with PD.

1 Hillier and Worley (2015) completed a systematic review on the effectiveness of the
2 Feldenkrais method and for which populations. Twenty RCTs were included (an additional
3 14 to an earlier systematic review). The population, outcome, and findings were highly
4 heterogeneous. However, meta-analyses were able to be performed with 7 studies, finding
5 in favor of the FM for improving balance in aging populations via the timed up and go and
6 functional reach tests. Single studies reported significant positive effects for reduced
7 perceived effort and increased comfort, body image perception, and dexterity. Risk of bias
8 was high; thus, caution should be taken with in interpretation. Authors suggest that the
9 effects are generic and not disease-based, according to the literature. According to the body
10 of evidence, clinicians and professionals may promote the use of FM in populations
11 interested in efficient physical performance and self-efficacy. Palmer (2017) assessed
12 Feldenkrais Moving Forward movement lessons for older adults. Participants ($N = 87$
13 returning from original sample of 124; median age = 76 years) were assigned to movement
14 ($n = 51$) or waitlist control ($n = 36$) groups. Pretests and posttests included Base of Support,
15 Timed Up and Go, Tandem Stance, Functional Reach, modified OPTIMAL, and questions
16 about individual priorities and outcomes. Results included significant correlations between
17 lessons attended and both improved Functional Reach and improved OPTIMAL score. A
18 significantly higher proportion of the movement (vs. control) group reported positive
19 changes at the posttest in both prioritized and newly identified activities. Palmer concluded
20 that results show that Feldenkrais lessons are helpful to older adults for promoting balance,
21 mobility, and confidence.

22
23 Paolucci et al. (2017) sought to determine the efficacy of the Feldenkrais method for
24 relieving pain in patients with chronic low back pain (CLBP) and the improvement of
25 interoceptive awareness. Fifty-three patients with a diagnosis of CLBP for at least 3 months
26 were randomly allocated to the Feldenkrais (mean age 61.21 ± 11.53 years) or Back School
27 group (mean age 60.70 ± 11.72 years). Pain was assessed using the visual analog scale
28 (VAS) and McGill Pain Questionnaire (MPQ), disability was evaluated with the Waddell
29 Disability Index, quality of life was measured with the Short Form-36 Health Survey (SF-
30 36), and mind-body interactions were studied using the Multidimensional Assessment of
31 Interoceptive Awareness Questionnaire (MAIA). Authors concluded that the Feldenkrais
32 method has comparable efficacy as Back School in CLBP. The two rehabilitation
33 approaches are equally as effective in improving interoceptive awareness, which helps with
34 pain management. Paolucci et al. (2018) highlights the evidence supporting the different
35 rehabilitative techniques described for low back pain management. In total, 26 studies were
36 found suitable to be included in the review (14 articles about Pilates, 6 about McKenzie
37 (MK), 1 article about Feldenkrais, 3 about Global Postural Rehabilitation (GPR) and 2
38 about Proprioceptive Neuromuscular Facilitation). Authors concluded that all the
39 techniques are effective for the study groups with respect to the control groups in reducing
40 pain and disability and improving the QoL and maintaining benefits at follow-up; Pilates,
41 Back School, MK, and Feldenkrais methods reduce pain and are more efficient than a
42 pharmacological or instrumental approach in reducing disability and improving all

1 psychological aspects also. GPR shows long lasting results for the last outcome. To date,
2 it is difficult to affirm the superiority of one approach over another. Authors suggested that
3 further high-quality research is needed to confirm the effect of these techniques, together
4 with the use of more appropriate evaluation measures.

5
6 Phuphanich et al. (2020) suggest that The Feldenkrais Method has broad applications for
7 changing bodily perceptions; easing function; and promoting awareness, self-efficacy, and
8 health. Yet, there is a paucity of scientific evidence validating the benefits of Feldenkrais.
9 Authors conclude that at this time, clinicians may only offer Feldenkrais as a
10 supplementary therapy to patients interested in efficient physical performance and self-
11 efficacy. Ahmadi et al. (2020) investigated the effect of the Feldenkrais method versus core
12 stability exercises on pain, disability, quality of life and interoceptive awareness in patients
13 with chronic non-specific low back pain. Sixty patients with chronic non-specific low back
14 pain randomized equally into the Feldenkrais method versus core stability exercises
15 groups. The intervention group received Feldenkrais method consisting of training
16 theoretical content and supervised exercise therapy two sessions per week for five weeks.
17 The control group received educational program and home-based core stability exercises
18 for five weeks. Regarding outcomes, all patients were examined by World Health
19 Organization's Quality of life Questionnaire, McGill Pain Questionnaire, Oswestry
20 Disability Questionnaire and Multidimensional Assessment of Interoceptive Awareness
21 Questionnaire. All outcomes were measured at baseline and the end of the intervention.
22 Results demonstrated statistically significant differences between groups for quality of life,
23 interoceptive awareness and disability in favor of the Feldenkrais method. McGill pain
24 score significantly decreased in both the Feldenkrais (from 15.33 to 3.63) and control
25 groups (from 13.17 to 4.17), but there were no between-groups differences ($P = 0.16$).
26 Authors concluded that the Feldenkrais method intervention gave increased benefits in
27 improving quality of life, improving interoceptive awareness and reducing disability index.

28
29 Berland et al. (2022) identify the populations and conditions for which the FM can be used
30 in physiotherapy and to determine the intervention modalities in a systematic review. Meta-
31 analyses (MA) were performed whenever populations and outcome measures were
32 comparable in at least two studies. Sixteen studies were included. In older adults (three of
33 the four selected trials), the FM group significantly improved gait, balance, mobility and
34 quality of life. The MA showed significant differences between interventions in the Timed-
35 Up-and-Go test. FM significantly improved pain, functional balance, and perceived
36 exertion in three trials performed on subjects with cervical, dorsal, or shoulder pain. FM
37 demonstrated improvements in pain, disability, quality of life and interoceptive awareness
38 in the three trials performed in subjects with chronic low back pain. In multiple sclerosis,
39 an improvement in functional capacity was observed in the two selected studies. The MA
40 showed no significant differences between groups in the Function and Control dimensions
41 of the Multiple Sclerosis Self-Efficacy Scale. In Parkinson's disease, two studies showed
42 significant effects on quality of life and functional tests. In conclusion, evidence shows that

1 FM has therapeutic effects comparable to other physiotherapy techniques in patients with
 2 spine pain. In addition, improvements in mobility and balance were seen in the elderly and
 3 people with neurodegenerative diseases.

4
 5 Giorgi et al. (2023) aimed at exploring the effectiveness of the Feldenkrais Method® as a
 6 form of awareness through movement (ATM) for fibromyalgia syndrome (FM), measuring
 7 the effect by means of multi-dimensional questionnaires, administered at baseline and after
 8 4 months of ATM activity. One hundred twenty-eight FM patients (mean age 54 years old,
 9 2% males) participated in the study. A statistically significant improvement was found in
 10 FM-specific measures (Polysymptomatic Distress Scale, PDS) and the Pain
 11 Catastrophization Scale (PCS). The Revised Fibromyalgia Impact Questionnaire (FIQR)
 12 showed a trend in improvement after the intervention, although this improvement was not
 13 statistically significant. The logistic regression analysis found a correlation between PDS,
 14 fatigue and anxiety measures; PCS, years from diagnosis and anxiety. Authors concluded
 15 that ATM could improve FM-specific measures and pain-related catastrophizing.

16 **PRACTITIONER SCOPE AND TRAINING**

17 Practitioners should practice only in the areas in which they are competent based on their
 18 education, training, and experience. Levels of education, experience, and proficiency may
 19 vary among individual practitioners. It is ethically and legally incumbent on a practitioner
 20 to determine where they have the knowledge and skills necessary to perform such services
 21 and whether the services are within their scope of practice.

22
 23
 24 It is best practice for the practitioner to appropriately render services to a member only if
 25 they are trained, equally skilled, and adequately competent to deliver a service compared
 26 to others trained to perform the same procedure. If the service would be most competently
 27 delivered by another health care practitioner who has more skill and training, it would be
 28 best practice to refer the member to the more expert practitioner.

29
 30 Best practice can be defined as a clinical, scientific, or professional technique, method, or
 31 process that is typically evidence-based and consensus driven and is recognized by a
 32 majority of professionals in a particular field as more effective at delivering a particular
 33 outcome than any other practice (Joint Commission International Accreditation Standards
 34 for Hospitals, 2020).

35
 36 Depending on the practitioner’s scope of practice, training, and experience, a member’s
 37 condition and/or symptoms during examination or the course of treatment may indicate the
 38 need for referral to another practitioner or even emergency care. In such cases it is prudent
 39 for the practitioner to refer the member for appropriate co-management (e.g., to their
 40 primary care physician) or if immediate emergency care is warranted, to contact 911 as
 41 appropriate. See the *Managing Medical Emergencies (CPG 159 – S)* clinical practice
 42 guideline for information.

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