

Supplementary Information

Musculoskeletal pain, functional impact, and associations with recorded sex in an adult sample from Mashhad, Iran: a cross-sectional secondary analysis

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This combined file contains the supplementary tables followed by a facsimile of the complete administered Persian questionnaire (Appendix S1).

Supplementary Table S1. Primary regional outcomes and age-adjusted associations.

Region	Outcome	N	Model N	Overall n/N (%)	Men n/N (%)	Women n/N (%)	Adjusted PR (95% CI)	Adjusted PD, pp (95% CI)	PR P	PR FDR P
Neck	Pain during the past 12 months	1,074	1,037	423/1,074 (39.4; 36.4–42.4)	303/624 (48.6)	111/425 (26.1)	0.55 (0.46 to 0.67)	−21.3 (−27.3 to −15.3)	<0.001	<0.001
Neck	Pain during the past 7 days	1,074	1,037	277/1,074 (25.8; 23.2–28.5)	201/624 (32.2)	70/425 (16.5)	0.51 (0.40 to 0.65)	−15.7 (−20.9 to −10.5)	<0.001	<0.001
Neck	Difficulty performing normal activities	1,074	1,037	180/1,074 (16.8; 14.6–19.1)	141/624 (22.6)	38/425 (8.9)	0.41 (0.29 to 0.59)	−13.0 (−17.5 to −8.6)	<0.001	<0.001
Neck	Physician consultation	1,074	1,037	197/1,074 (18.3; 16.1–20.8)	154/624 (24.7)	38/425 (8.9)	0.35 (0.24 to 0.49)	−16.4 (−20.9 to −11.9)	<0.001	<0.001
Shoulder	Pain during the past 12 months	1,074	1,037	504/1,074 (46.9; 43.9–50.0)	330/624 (52.9)	159/425 (37.4)	0.69 (0.60 to 0.80)	−16.4 (−22.7 to −10.2)	<0.001	<0.001
Shoulder	Pain during the past 7 days	1,074	1,037	373/1,074 (34.7; 31.9–37.7)	247/624 (39.6)	114/425 (26.8)	0.66 (0.54 to 0.79)	−13.8 (−19.6 to −7.9)	<0.001	<0.001
Shoulder	Difficulty performing normal activities	1,074	1,037	262/1,074 (24.4; 21.9–27.1)	193/624 (30.9)	63/425 (14.8)	0.47 (0.36 to 0.62)	−16.5 (−21.6 to −11.3)	<0.001	<0.001
Shoulder	Physician consultation	1,074	1,037	206/1,074 (19.2; 16.9–21.7)	144/624 (23.1)	56/425 (13.2)	0.56 (0.41 to 0.75)	−10.4 (−15.3 to −5.5)	<0.001	<0.001
Upper back	Pain during the past 12 months	1,074	1,037	337/1,074 (31.4; 28.6–34.2)	245/624 (39.3)	84/425 (19.8)	0.54 (0.43 to 0.67)	−17.6 (−23.3 to −11.9)	<0.001	<0.001
Upper back	Pain during the past 7 days	1,074	1,037	228/1,074 (21.2; 18.8–23.8)	169/624 (27.1)	55/425 (12.9)	0.49 (0.37 to 0.66)	−13.5 (−18.5 to −8.5)	<0.001	<0.001
Upper back	Difficulty performing normal activities	1,074	1,037	161/1,074 (15.0; 12.9–17.3)	125/624 (20.0)	32/425 (7.5)	0.42 (0.28 to 0.61)	−11.3 (−15.6 to −7.0)	<0.001	<0.001
Upper back	Physician consultation	1,074	1,037	96/1,074 (8.9; 7.3–10.8)	74/624 (11.9)	19/425 (4.5)	0.37 (0.22 to 0.62)	−7.6 (−11.0 to −4.2)	<0.001	<0.001
Elbow	Pain during the past 12 months	1,074	1,037	217/1,074 (20.2; 17.8–22.7)	155/624 (24.8)	56/425 (13.2)	0.54 (0.40 to 0.72)	−11.5 (−16.4 to −6.7)	<0.001	<0.001
Elbow	Pain during the past 7 days	1,074	1,037	153/1,074 (14.2; 12.2–16.5)	112/624 (17.9)	37/425 (8.7)	0.49 (0.34 to 0.70)	−9.1 (−13.3 to −4.9)	<0.001	<0.001
Elbow	Difficulty performing normal activities	1,074	1,037	121/1,074 (11.3; 9.4–13.3)	92/624 (14.7)	24/425 (5.6)	0.39 (0.25 to 0.60)	−9.1 (−12.7 to −5.4)	<0.001	<0.001
Elbow	Physician consultation	1,074	1,037	96/1,074 (8.9; 7.3–10.8)	74/624 (11.9)	20/425 (4.7)	0.41 (0.25 to 0.67)	−6.9 (−10.3 to −3.6)	<0.001	<0.001
Wrist/hand	Pain during the past 12 months	1,074	1,037	402/1,074 (37.4; 34.5–40.4)	301/624 (48.2)	91/425 (21.4)	0.45 (0.36 to 0.55)	−26.9 (−32.7 to −21.2)	<0.001	<0.001
Wrist/hand	Pain during the past 7 days	1,074	1,037	290/1,074 (27.0; 24.4–29.8)	222/624 (35.6)	60/425 (14.1)	0.38 (0.30 to 0.50)	−22.4 (−27.4 to −17.3)	<0.001	<0.001
Wrist/hand	Difficulty performing normal activities	1,074	1,037	239/1,074 (22.3; 19.8–24.9)	191/624 (30.6)	41/425 (9.6)	0.31 (0.23 to 0.43)	−21.1 (−25.8 to −16.4)	<0.001	<0.001
Wrist/hand	Physician consultation	1,074	1,037	159/1,074 (14.8; 12.7–17.1)	126/624 (20.2)	28/425 (6.6)	0.30 (0.20 to 0.45)	−14.6 (−18.7 to −10.4)	<0.001	<0.001

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Supplementary Table S1. Primary regional outcomes and age-adjusted associations. (continued)

Region	Outcome	N	Model N	Overall n/N (%)	Men n/N (%)	Women n/N (%)	Adjusted PR (95% CI)	Adjusted PD, pp (95% CI)	PR P	PR FDR P
Lower back	Pain during the past 12 months	1,074	1,037	621/1,074 (57.8; 54.8–60.8)	418/624 (67.0)	189/425 (44.5)	0.69 (0.61 to 0.78)	−20.1 (−26.4 to −13.8)	<0.001	<0.001
Lower back	Pain during the past 7 days	1,074	1,037	454/1,074 (42.3; 39.3–45.3)	312/624 (50.0)	132/425 (31.1)	0.65 (0.55 to 0.77)	−17.0 (−23.2 to −10.8)	<0.001	<0.001
Lower back	Difficulty performing normal activities	1,074	1,037	422/1,074 (39.3; 36.4–42.3)	306/624 (49.0)	107/425 (25.2)	0.55 (0.45 to 0.66)	−21.7 (−27.7 to −15.7)	<0.001	<0.001
Lower back	Physician consultation	1,074	1,037	357/1,074 (33.2; 30.4–36.1)	251/624 (40.2)	94/425 (22.1)	0.57 (0.46 to 0.70)	−17.4 (−23.2 to −11.6)	<0.001	<0.001
Hip/thigh	Pain during the past 12 months	1,074	1,037	415/1,074 (38.6; 35.7–41.6)	293/624 (47.0)	117/425 (27.5)	0.60 (0.50 to 0.71)	−18.9 (−24.9 to −12.9)	<0.001	<0.001
Hip/thigh	Pain during the past 7 days	1,074	1,037	321/1,074 (29.9; 27.2–32.7)	230/624 (36.9)	88/425 (20.7)	0.58 (0.47 to 0.72)	−15.4 (−20.9 to −9.8)	<0.001	<0.001
Hip/thigh	Difficulty performing normal activities	1,074	1,037	276/1,074 (25.7; 23.1–28.4)	207/624 (33.2)	66/425 (15.5)	0.48 (0.37 to 0.62)	−17.1 (−22.4 to −11.9)	<0.001	<0.001
Hip/thigh	Physician consultation	1,074	1,037	242/1,074 (22.5; 20.1–25.2)	175/624 (28.0)	64/425 (15.1)	0.55 (0.42 to 0.71)	−12.7 (−17.7 to −7.7)	<0.001	<0.001
Knee	Pain during the past 12 months	1,074	1,037	703/1,074 (65.5; 62.5–68.3)	463/624 (74.2)	228/425 (53.6)	0.71 (0.64 to 0.78)	−22.1 (−28.2 to −16.1)	<0.001	<0.001
Knee	Pain during the past 7 days	1,074	1,037	569/1,074 (53.0; 49.9–56.0)	388/624 (62.2)	173/425 (40.7)	0.63 (0.56 to 0.72)	−23.4 (−29.5 to −17.2)	<0.001	<0.001
Knee	Difficulty performing normal activities	1,074	1,037	515/1,074 (48.0; 44.9–51.0)	367/624 (58.8)	142/425 (33.4)	0.57 (0.49 to 0.66)	−25.8 (−31.9 to −19.7)	<0.001	<0.001
Knee	Physician consultation	1,074	1,037	376/1,074 (35.0; 32.2–37.9)	275/624 (44.1)	96/425 (22.6)	0.49 (0.40 to 0.60)	−23.1 (−28.8 to −17.5)	<0.001	<0.001
Ankle/foot	Pain during the past 12 months	1,074	1,037	349/1,074 (32.5; 29.7–35.4)	255/624 (40.9)	88/425 (20.7)	0.51 (0.41 to 0.63)	−20.0 (−25.7 to −14.4)	<0.001	<0.001
Ankle/foot	Pain during the past 7 days	1,074	1,037	273/1,074 (25.4; 22.8–28.1)	204/624 (32.7)	64/425 (15.1)	0.48 (0.37 to 0.62)	−16.8 (−22.0 to −11.7)	<0.001	<0.001
Ankle/foot	Difficulty performing normal activities	1,074	1,037	227/1,074 (21.1; 18.7–23.7)	180/624 (28.8)	43/425 (10.1)	0.37 (0.27 to 0.51)	−18.0 (−22.7 to −13.2)	<0.001	<0.001
Ankle/foot	Physician consultation	1,074	1,037	168/1,074 (15.6; 13.5–18.0)	128/624 (20.5)	37/425 (8.7)	0.45 (0.31 to 0.64)	−11.2 (−15.5 to −6.9)	<0.001	<0.001

Note. Overall cells show n/N (percentage; exact binomial 95% confidence interval) for all 1,074 participants. Comparisons are women versus men and adjust for age modeled continuously. PRs use modified Poisson regression with HC3 robust variance; PDs are standardized marginal differences in percentage points. All intervals are unweighted and non-design-adjusted. Benjamini–Hochberg adjustment was applied within the 36-test prevalence-ratio family; this table displays the prevalence-ratio P values and their within-family adjusted values.

Supplementary Table S2. Additional-adjustment sensitivity analysis.

Region	Outcome	Complete-case N	Adjusted PR (95% CI)	PR FDR P
Neck	Pain during the past 12 months	843	0.61 (0.50 to 0.76)	<0.001
Neck	Pain during the past 7 days	843	0.66 (0.50 to 0.87)	0.004
Neck	Difficulty performing normal activities	843	0.48 (0.32 to 0.72)	<0.001
Neck	Physician consultation	843	0.40 (0.27 to 0.60)	<0.001
Shoulder	Pain during the past 12 months	843	0.78 (0.66 to 0.93)	0.005
Shoulder	Pain during the past 7 days	843	0.75 (0.60 to 0.94)	0.014
Shoulder	Difficulty performing normal activities	843	0.49 (0.36 to 0.68)	<0.001
Shoulder	Physician consultation	843	0.62 (0.44 to 0.88)	0.007
Upper back	Pain during the past 12 months	843	0.58 (0.45 to 0.76)	<0.001
Upper back	Pain during the past 7 days	843	0.57 (0.41 to 0.79)	0.001
Upper back	Difficulty performing normal activities	843	0.44 (0.28 to 0.69)	<0.001
Upper back	Physician consultation	843	0.39 (0.21 to 0.72)	0.003

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Supplementary Table S2. Additional-adjustment sensitivity analysis. (continued)

	Region	Outcome	Complete-case N	Adjusted PR (95% CI)	PR FDR P
C1	Elbow	Pain during the past 12 months	843	0.58 (0.42 to 0.81)	0.002
	Elbow	Pain during the past 7 days	843	0.55 (0.36 to 0.82)	0.004
	Elbow	Difficulty performing normal activities	843	0.41 (0.25 to 0.68)	<0.001
	Elbow	Physician consultation	843	0.42 (0.24 to 0.74)	0.003
	Wrist/hand	Pain during the past 12 months	843	0.47 (0.37 to 0.60)	<0.001
	Wrist/hand	Pain during the past 7 days	843	0.45 (0.34 to 0.61)	<0.001
	Wrist/hand	Difficulty performing normal activities	843	0.35 (0.24 to 0.51)	<0.001
	Wrist/hand	Physician consultation	843	0.37 (0.23 to 0.58)	<0.001
	Lower back	Pain during the past 12 months	843	0.77 (0.67 to 0.89)	<0.001
	Lower back	Pain during the past 7 days	843	0.73 (0.61 to 0.89)	0.002
	Lower back	Difficulty performing normal activities	843	0.66 (0.54 to 0.82)	<0.001
	Lower back	Physician consultation	843	0.65 (0.51 to 0.82)	<0.001

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Supplementary Table S2. Additional-adjustment sensitivity analysis. (continued)

Region	Outcome	Complete-case N	Adjusted PR (95% CI)	PR FDR P
Hip/thigh	Pain during the past 12 months	843	0.72 (0.59 to 0.87)	0.002
Hip/thigh	Pain during the past 7 days	843	0.73 (0.57 to 0.92)	0.010
Hip/thigh	Difficulty performing normal activities	843	0.61 (0.46 to 0.80)	<0.001
Hip/thigh	Physician consultation	843	0.64 (0.48 to 0.85)	0.003
Knee	Pain during the past 12 months	843	0.76 (0.68 to 0.86)	<0.001
Knee	Pain during the past 7 days	843	0.72 (0.62 to 0.84)	<0.001
Knee	Difficulty performing normal activities	843	0.63 (0.53 to 0.75)	<0.001
Knee	Physician consultation	843	0.52 (0.41 to 0.65)	<0.001
Ankle/foot	Pain during the past 12 months	843	0.58 (0.45 to 0.74)	<0.001
Ankle/foot	Pain during the past 7 days	843	0.62 (0.46 to 0.83)	0.002
Ankle/foot	Difficulty performing normal activities	843	0.48 (0.34 to 0.69)	<0.001
Ankle/foot	Physician consultation	843	0.53 (0.35 to 0.81)	0.004

Note. Models additionally adjusted for education, diabetes, cardiac disease, high blood pressure, blood lipid disorder, depression, and anxiety, with age modeled continuously. All outcomes used the same 843 complete cases. Body mass index, occupational workload, physical activity, and socioeconomic position were unavailable. Benjamini–Hochberg adjustment was applied within the 36 sensitivity-analysis prevalence-ratio tests.

Supplementary Table S2b. Common-support sensitivity analysis.

Region	Outcome	Analysis N	Adjusted PR (95% CI)	PR FDR P
Neck	Pain during the past 12 months	1,014	0.55 (0.46 to 0.67)	<0.001
Neck	Pain during the past 7 days	1,014	0.51 (0.40 to 0.66)	<0.001
Neck	Difficulty performing normal activities	1,014	0.42 (0.29 to 0.59)	<0.001
Neck	Physician consultation	1,014	0.36 (0.25 to 0.50)	<0.001
Shoulder	Pain during the past 12 months	1,014	0.68 (0.58 to 0.79)	<0.001
Shoulder	Pain during the past 7 days	1,014	0.64 (0.53 to 0.78)	<0.001
Shoulder	Difficulty performing normal activities	1,014	0.46 (0.35 to 0.61)	<0.001
Shoulder	Physician consultation	1,014	0.56 (0.41 to 0.75)	<0.001
Upper back	Pain during the past 12 months	1,014	0.55 (0.44 to 0.69)	<0.001
Upper back	Pain during the past 7 days	1,014	0.51 (0.38 to 0.68)	<0.001
Upper back	Difficulty performing normal activities	1,014	0.42 (0.29 to 0.62)	<0.001
Upper back	Physician consultation	1,014	0.39 (0.23 to 0.64)	<0.001

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Supplementary Table S2b. Common-support sensitivity analysis. (continued)

∞	Region	Outcome	Analysis N	Adjusted PR (95% CI)	PR FDR P
	Elbow	Pain during the past 12 months	1,014	0.51 (0.38 to 0.68)	<0.001
	Elbow	Pain during the past 7 days	1,014	0.46 (0.32 to 0.67)	<0.001
	Elbow	Difficulty performing normal activities	1,014	0.35 (0.22 to 0.55)	<0.001
	Elbow	Physician consultation	1,014	0.39 (0.23 to 0.64)	<0.001
	Wrist/hand	Pain during the past 12 months	1,014	0.43 (0.35 to 0.53)	<0.001
	Wrist/hand	Pain during the past 7 days	1,014	0.37 (0.28 to 0.48)	<0.001
	Wrist/hand	Difficulty performing normal activities	1,014	0.30 (0.22 to 0.42)	<0.001
	Wrist/hand	Physician consultation	1,014	0.30 (0.20 to 0.46)	<0.001
	Lower back	Pain during the past 12 months	1,014	0.69 (0.61 to 0.78)	<0.001
	Lower back	Pain during the past 7 days	1,014	0.65 (0.55 to 0.77)	<0.001
	Lower back	Difficulty performing normal activities	1,014	0.54 (0.45 to 0.65)	<0.001
	Lower back	Physician consultation	1,014	0.57 (0.46 to 0.70)	<0.001

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Supplementary Table S2b. Common-support sensitivity analysis. (continued)

Region	Outcome	Analysis N	Adjusted PR (95% CI)	PR FDR P
Hip/thigh	Pain during the past 12 months	1,014	0.60 (0.50 to 0.72)	<0.001
Hip/thigh	Pain during the past 7 days	1,014	0.58 (0.47 to 0.72)	<0.001
Hip/thigh	Difficulty performing normal activities	1,014	0.49 (0.38 to 0.63)	<0.001
Hip/thigh	Physician consultation	1,014	0.55 (0.42 to 0.71)	<0.001
Knee	Pain during the past 12 months	1,014	0.71 (0.64 to 0.78)	<0.001
Knee	Pain during the past 7 days	1,014	0.63 (0.55 to 0.72)	<0.001
Knee	Difficulty performing normal activities	1,014	0.56 (0.48 to 0.66)	<0.001
Knee	Physician consultation	1,014	0.47 (0.38 to 0.58)	<0.001
Ankle/foot	Pain during the past 12 months	1,014	0.49 (0.39 to 0.61)	<0.001
Ankle/foot	Pain during the past 7 days	1,014	0.46 (0.36 to 0.61)	<0.001
Ankle/foot	Difficulty performing normal activities	1,014	0.36 (0.26 to 0.50)	<0.001
Ankle/foot	Physician consultation	1,014	0.45 (0.31 to 0.64)	<0.001

Note. Models were restricted to ages 45–74 years and adjusted for age categories 45–54, 55–64, and 65–74 years. All outcomes used the same 1,014 participants. Benjamini–Hochberg adjustment was applied within the 36 prevalence-ratio tests.

Supplementary Table S3a. Outcome-specific denominators and data handling.

Domain	Number of outcomes	Usable N	Excluded/missing	Handling
Regional symptom and impact outcomes	36 outcomes	1,074	None	Complete binary responses; participants with missing recorded sex remained in overall estimates.
Range of motion	9 outcomes	1,074	None	Usable numeric measurements for descriptive estimates. A participant was counted once when the diagnosis was recorded on either side; completeness refers to diagnosis fields, not universal imaging.
Documented shoulder diagnoses	5 bilateral outcomes	1,074	None	Unstructured left-side responses prevented a complete bilateral estimate.
Subacromial pain syndrome	Not tabulated	721 complete structured bilateral classifications	353	
Manual muscle testing	7 outcomes: internal shoulder rotation; shoulder extension; shoulder adduction; shoulder flexion; external shoulder rotation; arm extension; arm flexion	1,074	None	Values restricted to the documented 0–5 scale.
Manual muscle testing	Wrist flexion/extension; shoulder abduction	1,073	One value per outcome	Outcome-specific denominators are reported in Supplementary Table S4.
Recorded-sex comparisons	All comparative endpoints	1,049	25	Participants with missing recorded sex were excluded from comparative analyses. Age was missing in the parent export; the extract encoded these values as 0.
Age-adjusted models	All adjusted endpoints	1,037	12	Used as clinical screening findings and not interpreted as definitive diagnoses.
Provocative shoulder-test findings	Not presented as diagnostic outcomes	Not applicable	Not applicable	

Supplementary Table S3b. Availability of sensitivity-analysis covariates.

Variable	Source field	Analysis N	Available n	Missing n	Coding/scale
Age	Age	1,049	1,037	12	Continuous years
Education	sath.tahsil	1,049	854	195	Seven-category recorded education
Diabetes	diabetes	1,049	1,049	0	Binary 0/1
Cardiac disease	ailment.cardiac	1,049	1,049	0	Binary 0/1
High blood pressure	high.blood.pressure	1,049	1,049	0	Binary 0/1
Blood lipid disorder	blood.fat	1,049	1,049	0	Binary 0/1
Depression	afsordegi	1,049	1,049	0	Binary 0/1
Anxiety	ezterab	1,049	1,049	0	Binary 0/1

Note. Availability is reported among the 1,049 participants with recorded sex. The additional-adjustment models also required nonmissing age and complete covariates; their common complete-case N was 843.

Supplementary Table S4. Manual muscle-testing maximum-score outcomes.

Measure	Overall N	Overall maximum n/N (%)	Men maximum n/N (%)	Women maximum n/N (%)
Internal shoulder rotation	1,074	775/1,074 (72.2)	412/624 (66.0)	345/425 (81.2)
Wrist flexion/extension	1,073	932/1,073 (86.9)	509/623 (81.7)	401/425 (94.4)
Shoulder extension	1,074	848/1,074 (79.0)	458/624 (73.4)	371/425 (87.3)
Shoulder adduction	1,074	918/1,074 (85.5)	507/624 (81.2)	392/425 (92.2)
Shoulder abduction	1,073	728/1,073 (67.8)	389/623 (62.4)	324/425 (76.2)
Shoulder flexion	1,074	795/1,074 (74.0)	433/624 (69.4)	343/425 (80.7)
External shoulder rotation	1,074	842/1,074 (78.4)	470/624 (75.3)	354/425 (83.3)
Arm extension	1,074	995/1,074 (92.6)	567/624 (90.9)	407/425 (95.8)
Arm flexion	1,074	996/1,074 (92.7)	566/624 (90.7)	406/425 (95.5)

Note. Maximum-score proportions are descriptive. Overall columns use all participants with an outcome value; recorded-sex columns exclude 25 participants with missing recorded sex. The high frequency of maximum scores indicates limited discrimination at the upper end of the 0–5 scale; no inferential comparison is presented.

1 Appendix S1. Administered Persian questionnaire

The following pages reproduce the complete administered Persian questionnaire as a facsimile. The musculoskeletal component and its response options are described in the Methods; the source form did not contain a body map.

مرکز جامع توانبخشی مرتبط با طرح پژوهشی بررسی شیوع سنجی

جدول اول

آیا با پزشک مشورت کردید؟	مشکل در انجام فعالیت های نرمال	درد در هفت روز گذشته	درد در یک سال گذشته	
آری/خیر	آری/خیر	آری/خیر	آری/خیر	گردن
آری/خیر	آری/خیر	آری/خیر	آری/خیر	شانه
آری/خیر	آری/خیر	آری/خیر	آری/خیر	قسمت فوقانی پشت
آری/خیر	آری/خیر	آری/خیر	آری/خیر	آرنج
آری/خیر	آری/خیر	آری/خیر	آری/خیر	مچ/دست
آری/خیر	آری/خیر	آری/خیر	آری/خیر	قسمت تحتانی پشت
آری/خیر	آری/خیر	آری/خیر	آری/خیر	هیپ /ارانشا
آری/خیر	آری/خیر	آری/خیر	آری/خیر	زانوها
آری/خیر	آری/خیر	آری/خیر	آری/خیر	مچ /پا

جدول دوم: ارزیابی عضلانی اسکلتی مفصل شانه مرتبط با طرح بررسی شیوع بیماریها

تشخیص ICD-10 با توضیح	بیمار مشکل دارد؟ بله خیر در صورت نیاز توضیح:

مرتبط با طرح پژوهشی

بیمار مشکل دارد؟ بله خیر در صورت نیاز توضیح:	M75.4 Subacromial pain syndrome
بیمار مشکل دارد؟ بله خیر در صورت نیاز توضیح:	M79.11 Myalgia in shoulder muscles

مرتبط با طرح پژوهشی

بیمار مشکل دارد؟ بله خیر در صورت نیاز توضیح:	M75.0 Frozen shoulder (Adhesive capsulitis)
بیمار مشکل دارد؟ بله خیر در صورت نیاز توضیح:	M75.1 Full thickness rotator cuff tear
بیمار مشکل دارد؟ بله خیر در صورت نیاز توضیح: گزارش یافته های رادیولوژیکی:	M19.8 Acromioclavicular (AC) joint osteoarthritis
بیمار مشکل دارد؟ بله خیر در صورت نیاز توضیح: گزارش یافته های رادیولوژیک	M19.0 Glenohumeral (GH) joint osteoarthritis

مرتبط با طرح پژوهشی

جدول 3

متغیر	چرخ	چرخ	ابداک	ادداک	فلکش	اکستد	فلکش	اکستد	فلک	اکستد
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مورد بررسی	ش داخ ی شانه	ش خارج ی شانه	شن شانه	شن شانه	ن شانه	شن شانه	ن شانه	ن بازو	شن بازو	شن مچ
دامنه حرکتی										
قدرت عضلانی										