

Diagnostic Criteria for the Most Common Temporomandibular Disorders: Symptom Questionnaire and Clinical Examination Items

All listed criteria in History (DC/TMD Symptom Questionnaire) and Examination (DC/TMD Examination Form) are required for the specific Diagnosis unless otherwise stated; each criterion is positive unless otherwise specified. Exact time period for time-relevant History or Examination items is not specified below since that is a function of how the items are constructed to suit a given purpose; the logic does not change according to time period. The time period as assessed by history items for disc displacement without reduction vs with reduction is relative.

Source: Schiffman E, Ohrbach R, Truelove E, Look J, Anderson G, Goulet J-P, List T, Svensson P, Gonzalez Y, Lobbezoo F, Michelotti A, Brooks S, Ceusters W, Drangsholt M, Ettl D, Gaul C, Goldberg LJ, Haythornthwaite J, Hollender L, Jensen R, John MT, deLaat A, deLeeuw R, Maixner W, van der Meulen M, Murray GM, Nixdorf DR, Palla S, Petersson A, Pionchon P, Smith B, Visscher C, Zakrzewska J, and Dworkin SF (2014). Diagnostic Criteria for Temporomandibular Disorders (DC/TMD) for Clinical and Research Applications: Recommendations of the International RDC/TMD Consortium Network and Orofacial Pain Special Interest Group. *Journal of Oral & Facial Pain and Headache* 28:6-27.

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Disorder	History		Examination	
	Criteria	SQ	Criteria	Examination Form
Pain Disorders				
Myalgia (ICD-9 729.1) • Sens 0.90 • Spec 0.95	Pain in a masticatory structure	SQ3	Confirmation of pain in masticatory muscle(s)	E1a
	Pain modified by jaw movement, function, or parafunction	SQ4	Familiar pain in masticatory muscle(s) with either muscle palpation or maximum opening	E4b, E4c, or E9: familiar pain in temporalis or masseter, or in other masticatory muscles if also relevant; or E10: familiar pain in supplemental muscles, if E10 included
Myalgia Subtypes				
<u>Local Myalgia</u> (ICD-9 729.1) Sens and Spec not established	[same as for Myalgia]	[SQ3 & SQ4]	Confirmation of pain in masticatory muscle(s)	E1a
			Familiar pain with muscle palpation	E9: familiar pain in masseter or temporalis; or E10: familiar pain in supplemental muscles, if E10 included
			Pain remains local to the area of stimulation	E9: negative referred and spreading pain; and E10: negative referred and spreading pain, if E10 included
<u>Myofascial Pain with Spreading</u> (ICD-9 729.1) Sens and Spec not established	[same as for Myalgia]	[SQ3 & SQ4]	Confirmation of pain in masticatory muscle(s)	E1a
			Familiar pain with muscle palpation	E9: familiar pain in masseter or temporalis; or E10: familiar pain in supplemental muscles, if E10 included
			Spreading (but not referred) pain with muscle palpation	E9: spreading pain; or E10: spreading pain, if E10 included; AND E9: negative referred pain; and E10: negative referred pain, if E10 included

	History		Examination	
<i>Disorder</i>	<i>Criteria</i>	<i>SQ</i>	<i>Criteria</i>	<i>Examination Form</i>
<u>Myofascial Pain with Referral</u> (ICD-9 729.1) <ul style="list-style-type: none"> • Sens 0.86 • Spec 0.98 	[same as for Myalgia]	[SQ3 & SQ4]	Confirmation of pain in masticatory muscle(s)	E1a
			Familiar pain with muscle palpation	E9: familiar pain in masseter or temporalis; or E10: familiar pain in supplemental muscles, if E10 included
			Referred pain with muscle palpation	E9: positive referred pain; or E10: positive referred pain, if E10 included
Arthralgia (ICD-9 524.62) <ul style="list-style-type: none"> • Sens 0.89 • Spec 0.98 	Pain in a masticatory structure	SQ3	Confirmation of pain in TMJ(s)	E1a
	Pain modified by jaw movement, function, or parafunction	SQ4	Familiar pain with TMJ palpation or range of motion	E4b, E4c, E5a-c, or E9: familiar pain in TMJ
Headache Attributed to TMD (ICD-9 339.89 [other specified headache syndrome], or ICD-9 784.0 [headache]) <ul style="list-style-type: none"> • Sens 0.89 • Spec 0.87 Note that for a secondary headache diagnosis, a primary diagnosis of either myalgia or arthralgia is required.	Headache of any type in temporal region	SQ5	Confirmation of headache in temporalis muscle	E1b
	Headache affected by jaw movement, function, or parafunction	SQ7	Report of familiar headache in temporalis area from either: a. Palpation of the temporalis muscle or b. Range of motion of jaw	E4b, E4c, E5a-c, or E9: familiar headache pain in the temporalis muscle

	History		Examination	
<i>Disorder</i>	<i>Criteria</i>	<i>SQ</i>	<i>Criteria</i>	<i>Examination Form</i>
Joint Disorders				
Disc Displacement with Reduction (ICD-9 524.63) • Sens 0.34 • Spec 0.92	Current TMJ noises by history, OR	SQ8	Click(s) with opening <u>and</u> closing, OR	E6: (open & close) click, OR
	Patient reports noise during the examination	E6 or E7: noise reported by patient	Both (a) click with opening or closing, and (b) click with lateral or protrusive movements	E6: (open or close) click, and E7: (protrusive or lateral) click
Disc Displacement with Reduction, with Intermittent Locking (ICD-9 524.63) • Sens 0.38 • Spec 0.98	[same as disc displacement with reduction]	[same as DD with red]	[same as disc displacement with reduction]	[same as DD with red]
	Current intermittent locking with limited opening	SQ11=yes SQ12=no	When disorder present in clinic: maneuver required to open mouth	E8 (optional)
Disc Displacement without Reduction, with Limited Opening (ICD-9 524.63) • Sens 0.80 • Spec 0.97	Current* TMJ lock with limited opening	SQ9	Passive stretch (maximum assisted opening) < 40mm	E4c < 40mm including vertical incisal overlap
	Limitation severe enough to interfere with ability to eat	SQ10		
Disc Displacement without Reduction, without Limited Opening (ICD-9 524.63) • Sens 0.54 • Spec 0.79	Prior* TMJ lock with limited opening	SQ9	Passive stretch (maximum assisted opening) ≥ 40mm	E4c ≥ 40mm including vertical incisal overlap
	Limitation severe enough to interfere with ability to eat	SQ10		
Degenerative Joint Disease (ICD-9 715.18) • Sens 0.55 • Spec 0.61	Current TMJ noises by history, OR	SQ8	Crepitus during jaw movement	E6 or E7: crepitus detected by examiner
	Patient reports noise during the examination	E6 or E7: noise reported by patient		
Subluxation (ICD-9 830.0) • Sens 0.98 • Spec 1.00	TMJ locking or catching in wide open jaw position	SQ13	When disorder present in clinic: maneuver required to close mouth	E8 (optional)
	Unable to close mouth without specific maneuver	SQ14		

* “Current” and “Prior” (as based on S9) for distinguishing, respectively, the “with limitation” vs “without limitation” variants of Disc Displacement without Reduction are interpreted based on change over time as determined by history and as confirmed by the clinical examination for jaw range of motion.

Changes to this document

Feb 6, 2020

- “Myofascial Pain” revised to “Myofascial Pain with Spreading”, to reconcile the table with the decision tree previously updated.

July 4, 2018

- For Disk Displacement with Reduction, Examination E7 was clarified by adding “(protrusive or lateral)” for the type of click expected to fulfill criterion.

Oct 23, 2015

- Incorrect sensitivity and specificity values were present for some disorders; this error was identified by an observant translation team leader, and the error is assumed to have emerged during preparation of the table prior to computation of final sensitivity and specificity estimates for the published DC/TMD.

May 25, 2014

- Added “**OR**” to “Current TMJ noises by history” for each of Disc Displacement with Reduction and Degenerative Joint Disease, as per published DC/TMD.
- Added diagnostic criterion note to Headache Secondary to TMD, with regard to necessity of either a myalgia or arthralgia diagnosis in order to have a secondary headache.
- Corrected minor punctuation discrepancies.

April 29, 2014

- Corrected name of disorder “myofascial pain”; was incorrectly stated as “myofascial pain with spreading”.