

STEP-BY-STEP

PATIENT SCREENING **GUIDE**



HOW TO USE THIS GUIDE

THIS STEP-BY-STEP PATIENT SCREENING GUIDE
WILL HELP YOU IDENTIFY APPROPRIATE PATIENTS
TO TREAT AS WELL AS IDENTIFY THOSE WHO
SHOULD BE REFERRED OUT OF THE PRACTICE.

THE KEY TO MAKING THIS CRITICAL DECISION IS COMMUNICATION WITH THE PATIENT AND YOUR CLINICAL EXAM.

WE HAVE INCLUDED TOOLS THAT WILL HELP YOU.

The questionnaire and the exam record are featured in this guide with an explanation of when and how to use them. They coordinate with two additional tools in the guide called, the TMJ Findings Worksheet and the TMJ Screening Results Reference Table.

Also included in this guide are instructions that coordinate with the screening exam record on muscle palpation, evaluating joint sounds, and load testing with a Lucia Jig.

CASE EXAMPLES

The shaded boxes throughout the guide feature examples of two patients who have reported symptoms during a routine exam. For each step, the examples show the patient's responses to the questionnaire screening exam results, and TMJ Findings Worksheet information. The last section discusses the findings and possible treatment plans for both patients.

CUSTOMIZE PATIENT-SPECIFIC TOOLS

- Patient Questionnaire
- Screening Exam Record
- TMJ Findings Worksheet

Customize with your practice name, address, and logo. Download these tools at GreatLakesDentalTech.com

The general practitioner is recognized as having ultimate responsibility for patient evaluation, diagnostic, treatment and/or referral decisions. The information contained in this guide is compiled from textbooks, articles, and courses available to the profession and is provided in an advisory capacity only. Great Lakes Dental Technologies is not responsible for patient outcomes.

At any time during your review of this guide or throughout evaluation or treatment planning, feel free to contact a splint support specialist at 800.828.7626 with any questions.

BY INCORPORATING A ROUTINE QUESTIONNAIRE
AND EXAM INTO PATIENT VISITS, YOU WILL
BECOME INCREASINGLY MORE AWARE OF
POTENTIAL TMD SYMPTOMS AND SIGNS. EITHER
THE PATIENT WILL TALK ABOUT SYMPTOMS SUCH
AS HEADACHES OR MUSCLE SORENESS OR YOU
MAY NOTICE OCCLUSAL SIGNS SUCH AS EXCESS
WEAR OR FRACTURES.

THE FIRST STEP IS THE PATIENT QUESTIONNAIRE WHICH CAN BE COMPLETED IN JUST A FEW MINUTES BY THE PATIENT. IT IS AN IDEAL TOOL TO USE CHAIRSIDE TO DISCUSS SYMPTOMS IN MORE DETAIL WITH THE PATIENT.

'YES' OR 'NO' RESPONSES

The questionnaire is designed for simple 'yes' or 'no' responses.

This makes it easy for the patient to respond and allows you to immediately focus on any red flag responses such as 'injury to the jaw or face' or 'having been previously treated by a TMJ specialist'.

The responses from the questionnaire will be transferred to the TMJ Findings Worksheet for further evaluation along with the results of the screening exam.



(YOUR	R LETTERHEAD)
TMJ Patient Questionnaire Answer all that apply.	Patient Name: <u>Mary</u> Date: <u>11/10</u>
6) Do your joints lock wl 7) Do you have any teett 8) Have you ever worn a	
10) Have you ever seen the above symptoms If yes: How many	
SMLP162Rev011508	

(YOUR	R LETTERHEAD)
TMJ Patient Questionnaire Answer all that apply.	Patient Name: <u>Bob</u> Date: <u></u>
X Upon awakening Late afternoon X 2) Are your jaw muscles X 3) Are your joints sore of	s sore or tender? or tender when you eat or chew? ed an injury to your jaw or face?
6) Do your joints lock w 7) Do you have any teet 8) Have you ever worn a If yes: How many	/? ve you taken any medication for these symptoms?
X 10) Have you ever seen the above symptom If yes: How many	
SMLP162Rev011508	

AN EXISTING PATIENT, MARY, HAS BEEN SCHEDULED FOR A TMJ SCREENING VISIT.

At her last routine exam, Mary complained of frequent headaches and you thought you saw some occlusal wear on the anterior teeth.

From her questionnaire, you can see that she did indicate headaches in the late afternoon, tender jaw muscles, and some teeth that are sore, aching, and uncomfortable. Also note, Mary indicated that she has not received an injury to the face and has never been treated by a TMJ specialist before.

During the exam, special attention should be given to assessing occlusal stability, muscle palpation, and load testing.

These responses will be transferred to Mary's TMJ Findings Worksheet (Page 9).

✓ A NEW PATIENT, BOB, HAS BEEN SCHEDULED FOR A TMJ SCREENING VISIT.

During Bob's initial exam, he complained of frequent headaches and you thought you saw some occlusal wear on the anterior teeth.

From his questionnaire, you can see that he did indicate headaches upon awakening, tender jaw muscles, and some teeth that are sore, aching, and uncomfortable. Also note, Bob indicated that he noticed some noise in his joints.

Chairside, Bob mentioned that his wife could hear a click in his right joint.

During the exam, special attention should be given to assessing occlusal stability, muscle palpation, evaluating joint sounds, and load testing.

These responses will be transferred to Bob's TMJ Findings Worksheet (Page 9).

SCREENING EXAM RECORD

FOLLOWING A REVIEW OF THE PATIENT

QUESTIONNAIRE, THE SCREENING EXAM WILL

PROVIDE YOU WITH THE INFORMATION YOU NEED

TO DECIDE HOW TO TREAT YOUR PATIENT. RECORD

YOUR RESULTS ON THE SCREENING EXAM RECORD.

THE EXAM WILL CONSIST OF:

- A. OCCLUSAL ASSESSMENT
- B. JAW OPENING EVALUATION
- C. MUSCLE PALPATION
- D. EVALUATING JOINT SOUNDS
- E. LOAD TESTING WITH THE LUCIA JIG

A. OCCLUSAL ASSESSMENT

You are looking for any signs of occlusal instability which can cause occluso-muscle imbalance. These signs include worn, broken, or loose teeth, occlusal disease, hypermobility, excessive wear, tooth migration, or cusp fractures.

B. JAW OPENING

You are trying to determine if the patient has full range of motion and if not, how much range of motion they do have. Disposable range of motion scales make this evaluation simple and quick.

Normal range of motion: Wide: 40-50mm

Lateral & Protrusive: 7-15mm

You can also use the range of motion scales to determine if the patient deviates at full opening to the right or to the left as well as in protrusion.

SCREENING EXAM RECORD

C. MUSCLE PALPATION

Palpation of the masticatory muscles is part of a standard screening exam for temporomandibular disorders. Muscle tenderness is almost always present if a muscle is overworked in an uncoordinated manner. The instructions include palpation of the medial (internal) pterygoid, the superficial masseter, the temporalis, and the lateral (external) pterygoid muscles. Any positive response is recorded as a single "yes" in Column 1 of the TMJ Findings Worksheet.

D. JOINT SOUNDS

A normal joint is quiet. You are listening for any sounds during joint movement that may indicate an intracapsular disorder. While the patient is opening, you are listening for crepitus which sounds like grating or scratching, and you are also listening for popping and clicking; both when the patient is only open slightly and when the patient is only open wide. Any positive response is recorded as a single "yes" in Column 1 of the TMJ Findings Worksheet.

E. LOAD TESTING

Load testing with the Lucia Jig will help you determine whether an intracapsular structural disorder is or is not a source of pain. The Lucia Jig de-programs the muscle by separating the posterior teeth which allows the lateral pterygoid to release, seating the condyles in the most superior position.

Note: Instructions for muscle palpation, evaluating joint sounds, and load testing are included in this guide and are available at GreatLakesDentalTech.com

SCREENING EXAM RECORD

RECORD RESULTS ON THE TMJ FINDINGS WORKSHEET

	(YOUR LETTERHEAD)						
TMJ Screeni	ing Exam Record Patient Name: <u>Movy</u> Date: <u>11/10</u>						
YES NO ✓	A) Signs of Occlusal Instability (worn, broken, or loose teeth)						
/ / /	B) Jaw Opening Upon full opening, does the patient deviate to the right? Upon full opening, does the patient deviate to the left? Does the jaw deviate in protrusion?						
/ / / /	/ Masseter / Temporalis						
	D) Evaluating Joint Sounds						
/ / / /	Right Joint Is there crepitus when the patient opens slightly (on rotation)? Is there crepitus when the patient only opens wide (translation)? Is there a click when the patient opens slightly (on rotation)? Is there a click when the patient only opens wide (translation)?						
/ / /	Left Joint Is there crepitus when the patient opens slightly (on rotation)? Is there crepitus when the patient only opens wide (translation)? Is there a click when the patient opens slightly (on rotation)? Is there a click when the patient only opens wide (translation)?						
	E) Lucia Jig Load Test for Tenderness Did the Lucia Jig load test result in any tension or tenderness?						
The next step:	Transfer the information from the patient questionnaire and the exame to the TMJ Findings Worksheet.	record SMLP161Rev011508					

RECORD RESULTS ON THE TMJ FINDINGS WORKSHEET

(YOUR LETTERHEAD)

TMJ Screeni	ng Exam Record	Patient Name: <u>Bob</u> Date: <u>11/20</u>			
YES NO	A) Signs of Occlusal Instability	(worn, broken, or loose teeth)			
B) Jaw Opening Variable Upon full opening, does the patient deviate to the right? Variable Upon full opening, does the patient deviate to the left? Does the jaw deviate in protrusion?					
X X X	C) Masticatory Muscle Palpatic Are any of the following muscles Medial (internal) Pterygoid Masseter Temporalis Lateral (external) Pterygoid				
X	D) Evaluating Joint Sounds Right Joint Is there crepitus when the patient Is there a click when the patient of Is there a click when the patient of Is there a click when the patient of	only opens wide (translation)? opens slightly (on rotation)?			
X X X	Left Joint Is there crepitus when the patient Is there crepitus when the patient Is there a click when the patient Is there a click when the patient	only opens wide (translation)? opens slightly (on rotation)?			
X The next step:	E) Lucia Jig Load Test for Tend Did the Lucia Jig load test result Transfer the information from the to the TMJ Findings Worksheet.		n record SMLP161Rev01		

TMJ FINDINGS WORKSHEET

ONCE COMPLETED, THE TMJ FINDINGS
WORKSHEET WILL REVEAL A SPECIFIC COURSE OF
ACTION AND YOU CAN BEGIN TO TREATMENT PLAN
FOR YOUR PATIENT.

THE TABLE IS EASY TO USE.

STEP 1

Record all **"YES"** responses in **COLUMN 1** from the patient questionnaire and the screening exam worksheet.

			COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
		Question	Mark 'YES' Here	Refer	Full Contact with anterior guidance	Full Contact w/ant. guide or Flat Plane	Full Contact w/ant. guide, Flat Plane, or Deprogrammer
	1	Awakening Headache					
		Afternoon Headache					
	2	Jaw Muscle Soreness					
	3	Joint Soreness					
Patient	4	Injury					
Questionnaire	5	Joint Click					
Responses	6	Locking Joints					
	7	Sensitive/Sore Teeth			Pot	ential indication of occlus	al problem
	8	Splint or Nightguard					
	9	Medication(s)				Indication of severit	v
	10	TMJ Specialist					
	Α	Occlusal Instability				Indication of severit	v
	В	Jaw Opening-Right					
		Jaw Opening-Left					
		Jaw Opening-Protrusion					
Screening Exam	С	Muscle Palpation					
Findings	D	Crepitus open slightly					
		Crepitus open wide					
		Click open slightly					
		Click open wide					
	Е	Pain on Load Testing					



STEP 2

For all "YES" responses, place a check mark in the associated shaded box to the right in

Columns 2-5. There's only one shaded box per row.

TMJ FINDINGS WORKSHEET

INTERPRETING THE TABLE

Columns 2 through 5 are organized from the least to the most treatment options. **Read left to** right, the first check mark indicates the appropriate course of action.

- Start with Column 2. If there is even one check mark in Column 2, consider referring the patient to a TMJ specialist.
- Provided there are no check marks in Column 2, one check mark in Column 3 indicates a Full Contact splint w/anterior guidance.
- If there are no check marks in Columns 2 or 3, but a check mark in Column 4, either a Full Contact or Flat Plane splint is indicated.
- If there are no check marks in Columns 2, 3, or 4, but a check mark in Column 5, either a Full Contact, Flat Plane, or deprogrammer is indicated.

After you have determined the appropriate course of action to take, you can use the TMJ Screening Results Reference Table to further evaluate possible causes and learn more about appliance and treatment options.

REFER TO THE SPLINT APPLIANCE SELECTION GUIDE TO CHOOSE THE APPROPRIATE FULL CONTACT SPLINT WITH ANTERIOR GUIDANCE, FLAT PLANE SPLINT, OR DEPROGRAMMER.

TMJ FINDINGS WORKSHEET

INTERPRETING THE RESULTS FOR MARY

After transferring all the "YES" answers, onto the worksheet and completing the table, you can now assess the results.

Reading left to right across the table, the first check mark to the left appears in Column 4 which indicates a Flat Plane splint or Full Contact splint with anterior guidance.

TMJ Findings Worksheet	Patient Name Movy	Date:
	0	

Completing the Table

Step 1: Record all "YES" responses in COLUMN 1 from the patient questionnaire and the screening exam worksheet
Step 2: For all "YES" responses, place a check mark in the associated shaded box to the right in columns 2-5. There's only one shaded box per row.

			COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
		Question	Mark 'YES' Here	Refer	Full Contact with anterior guidance	Full Contact w/ant. guide or Flat Plane	Full Contact w/ant. guide, Flat Plane, or Deprogrammer
	1	Awakening Headache					
		Afternoon Headache	✓			✓	
	2	Jaw Muscle Soreness	✓				✓
	3	Joint Soreness					
Patient	4	Injury					
Questionnaire	5	Joint Click					
Responses	6	Locking Joints					
	7	Sensitive/Sore Teeth			Pote	ential indication of occlusi	al problem
	8	Splint or Nightguard					
	9	Medication(s)				Indication of severit	,
	10	TMJ Specialist					
	Α	Occlusal Instability				Indication of severit	/
	В	Jaw Opening-Right					
		Jaw Opening-Left					
		Jaw Opening-Protrusion					
Screening Exam	С	Muscle Palpation	✓				✓
Findings	D	Crepitus open slightly					
		Crepitus open wide					
		Click open slightly					
		Click open wide					
	Е	Pain on Load Testing					

See Page 10 for more discussion about Mary's case.

INTERPRETING THE RESULTS FOR BOB

After transferring all the "YES" answers, onto the worksheet and completing the table, you can now assess the results.

Reading left to right across the table, the first check mark to the left appears in Column 2 which indicates that Bob should be referred to a specialist.

TMJ Findings Worksheet	Patient Name Bob	Date:

COLUMN 2

COLUMN 3

COLUMN 4

COLUMN 5

Completing the Table

Step 1: Record all "YES" responses in COLUMN 1 from the patient questionnaire and the screening exam worksheet

Step 2: For all "YES" responses, place a check mark in the associated shaded box to the right in columns 2-5. There's only one shaded box per row.

COLUMN 1

			COLOMIN	COLOWINZ	COLUMN	COLOMIN 4	COLOIWIN 3	
		Question	Mark 'YES' Here	Refer	Full Contact with anterior guidance	Full Contact w/ant. guide or Flat Plane	Full Contact w/ant. guide, Flat Plane, or Deprogrammer	
	1	Awakening Headache	×				×	
		Afternoon Headache						
	2	Jaw Muscle Soreness	×				×	
	3	Joint Soreness						
Patient	4	Injury						
Questionnaire	5	Joint Click	×		×			
Responses	6	Locking Joints						
	7	Sensitive/Sore Teeth			Pot	Potential indication of occlusal problem		
	8	Splint or Nightguard					·	
	9	Medication(s)				Indication of severit	v	
	10	TMJ Specialist						
	Α	Occlusal Instability				Indication of severit	v	
	В	Jaw Opening-Right						
		Jaw Opening-Left						
		Jaw Opening-Protrusion						
Screening Exam	С	Muscle Palpation	×				×	
Findings	D	Crepitus open slightly	×	×				
		Crepitus open wide						
		Click open slightly	×	×				
		Click open wide						
	Е	Pain on Load Testing	×	×				

See Page 10 for more discussion about Bob's case.

FROM MARY'S RESPONSES TO THE QUESTIONNAIRE AND THE EXAM FINDINGS, it appears that

Mary has an **occluso-muscle imbalance** that's causing facial pain. However, she does have stable joints which makes her a treatable patient.

The fact that she suffers from afternoon headaches and the exam revealed **occlusal instability** indicates that Mary may be clenching and/or grinding during the day. A full coverage splint is indicated to be worn full time. (Since the patient would need full-time wear, a deprogrammer is contra-indicated.).

A full contact splint with anterior guidance or a flat plane splint would best suit Mary's needs.

NOTE: Often, when patients need to wear a splint full time, many find it easier to function in a lower splint.

		COLUMN 1	COLUMN 2	COLUMN 3 COLUMN 4		COLUMN 5
	Question	Mark 'YES' Here	Refer	Full Contact with anterior guidance	Full Contact w/ant. guide or Flat Plane	Full Contact w/ant. guide, Flat Plane, or Deprogrammer
	Awakening Headache					
→	Afternoon Headache	/			(/)	
1/3	Jaw Muscle Soreness	/			\mathcal{A}	✓
/	Joint Soreness					
	Injury					
	Joint Click					
	Locking Joints					
	Sensitive/Sore Teeth			Pote	ential indication of occlusa	al problem
	Splint or Nightguard					
	Medication(s)				Indication of severity	,
	TMJ Specialist					
/	Occlusal Instability Jaw Opening-Right Jaw Opening-Left Jaw Opening-Protrusion Muscle Palpation Crepitus open slightly Crepitus open wide	/			Indication of severity	, ,
	Click open slightly					
	Click open wide Pain on Load Testing					

FROM BOB'S RESPONSES TO THE QUESTIONNAIRE AND THE EXAM FINDINGS, it appears that

Bob has an occluso-muscle imbalance that may be contributing to his pain.

However, the exam also revealed certain signs of a possible internal derangement such as crepitus upon opening slightly and a click upon opening slightly which can also

be contributing to the pain Bob is reporting.

The fact that Bob experienced tension upon load testing also indicates a **potential problem in the joint** including disc displacement or other intracapsular problem.

Bob's case is more complex and requires additional evaluation. Many general dentists choose to refer patients like Bob to a **specialist**.

	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	
Question	Mark 'YES' Here	Refer	Full Contact with anterior guidance	Full Contact w/ant. guide or Flat Plane	Full Contact w/ant. guide, Flat Plane, or Deprogrammer	
-> Awakening Headache	×				×	
Afternoon Headache						
→ Jaw Muscle Soreness	×				X	
Joint Soreness						
Injury						
Joint Click	×		×			
Locking Joints						
Sensitive/Sore Teeth			Potential indication of occlusal problem			
Splint or Nightguard						
Medication(s)				Indication of severit	v	
TMJ Specialist						
Occlusal Instability				Indication of severit	у	
Jaw Opening-Right						
Jaw Opening-Left						
Jaw Opening-Protrusion						
Muscle Palpation	×				×	
[¥] Crepitus open slightly	×	(×)				
Crepitus open wide						
Click open slightly	X	×				
Click open wide						
Pain on Load Testing	X	(×)				



STEP-BY-STEP
PATIENT SCREENING
GUIDE



GREAT PEOPLE. GREAT PRODUCTS. GREAT LAKES.

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