

The Lost Art


SUBJECTIVE EXAMINATION/CLINICAL REASONING

Orthopaedic Manual Physical Therapy Series
Charlottesville 2017-2018

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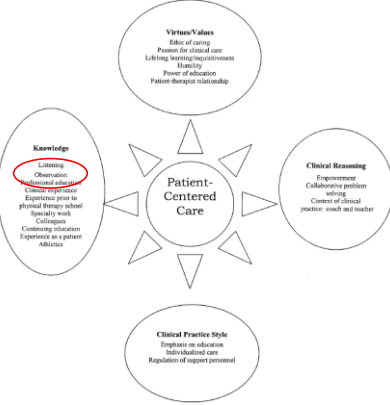
Interrogate with Empathy



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Patient's Experience of symptoms and impact on life



Knowledge
Listening
Observation
Clinical expertise
Experience prior to physical therapy school
Specialty work
Challenges
Continuing education
Experience as a patient
Advocacy

Virtues/Values
Ethics of caring
Patriotism for clinical care
Lifelong learning/development
Integrity
Power of education
Patient-therapist relationship

Clinical Reasoning
Empowerment
Collaborative problem solving
Control of clinical practice: coach and teacher

Clinical Practice Style
Emphasis on education
Individualized care
Regulation of support personnel

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Patient-Therapist Interaction Influences in Musculoskeletal Physical Therapy

- Positive PT/Patient interactions linked with:
 - Reduced Pain
 - Reduced Disability
 - High treatment satisfaction
- 3 Components:
 - PT/Patient agreement on Goals
 - PT/Patient agreement on Interventions
 - PT/Patient affective bond

Phys Ther., 2016

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Patient-Therapist Interaction Influences in Musculoskeletal Physical Therapy


What Influences Patient-Therapist Interaction?	
Physical therapist interpersonal and communication skills	<ol style="list-style-type: none"> 1. Listening 2. Empathy 3. Friendliness 4. Encouragement 5. Confidence 6. Nonverbal communication
Physical therapist practical skills	<ol style="list-style-type: none"> 1. Patient education 2. Physical therapist expertise and training
Individualized, patient-centered care	<ol style="list-style-type: none"> 1. Individualized care 2. Taking patient opinion and preference into consideration
Organizational and environmental factors	<ol style="list-style-type: none"> 1. Time 2. Flexibility with patient appointments and care

Phys Ther. 2016

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Goals of the Subjective Exam

1. Gather Information
2. Develop Therapeutic Relationship
3. Communicate Information



Lipkin M 1995

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Successful Consultation

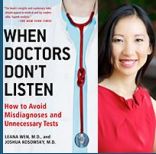

1. Patients perception of being taken seriously
2. Given an understandable explanation of the pain
3. Applying Patient-Centered Care
4. Reassurance
5. Being told what can be done

Laerum E J Rehab Med 2006

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Most important Communication skills

- Ability to allow the patient to speak without interruption
- Ability truly hear what the patient is trying to say

Jackson C 2006

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Measuring Verbal Communication in Initial Physical Therapy Encounters

- Providers (49.5%) spoke more than patients (33.1%)
- Little time discussion emotions
- More experienced clinicians spent more time :
 - “History/background probes”
 - Advice/suggestions
 - Talking concurrently
 - Interrupting patients

Volume 93 Number 4 Physical Therapy



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Subjective Evaluation

- Establish rapport
- Build confidence in PT as facilitator of care
- Systematic
- Gain information about functional status and limitations
- Guide Objective/Physical Exam

Develop working hypothesis about cause(s) of problem



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Subjective Evaluation

- Sequential, systematic and repeatable to identify essential elements for further examination
- Framework for efficiency, comprehensiveness, consistency



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Subjective Examination	
Age:	Gender: Occupation:
Onset:	(Traumatic/Non-Traumatic, Sudden/Gradual, Known/Insidious)
Mechanism of Injury:	
Direction of Impact:	
Onset of Symptoms (Immediate/Gradual):	(Dizziness, Vision Changes/Deficits, Hearing Changes/Deficits)
<u>Pain, Paresthesia, Stiffness, Weakness, Loss of Motion, Loss of Function</u>	
Nature:	
Location:	(Local/Diffuse, Intermittent/Constant, Radiating, Radicular)
Progression:	(Worsening/Improving/No Change, AM vs PM)
Aggravating Factors:	
Relieving Factors:	
Severity:	(Limit/Prevent Normal Activity, Sleep Disturbance)
Irritability:	
Amount of Activity:	
Fast/Slow Reduction of Symptoms:	
Rest (Length of time required):	
Activity Level (Pre/Post Injury):	
Previous Treatment:	(Improvement/No Improvement following treatment)
Special Tests (MRI, X-rays, Scans, etc):	



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Reliability of the ECHOWS Tool for Assessment of Patient Interviewing Skills

Volume 96 Number 4 Physical Therapy

<p>E: Establish Rapport</p> <ol style="list-style-type: none"> 1. Introduction/greeting 2. Orients patient to the flow of the visit <p>Number of Observed Items for E.../2</p> <p>C: Chief Complaint</p> <ol style="list-style-type: none"> 1. Reason for visit: (chief complaint, including location of symptoms) 2. Functional status in various roles and realms (eg. home, work, school, social) 3. Patient's goals and expectations for treatment and prevention 4. History of chief complaint 5. Location/behavior of symptoms: aggravation, alleviation, nature (includes intermittent or constant, description, how long symptoms last, quantification of symptoms, 24-h presentation) 6. Previous examination/tests/interventions for chief complaint 	<p>ECHOWS</p> <p>A Physical Therapy Patient Interview Assessment Tool</p> <p>Name/Number: _____</p> <p>Date: <u> </u>/<u> </u>/<u> </u></p>
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H: Health History
1. Review of constitutional symptoms (fatigue, weakness, sweats, night pain, weight loss, confusion)
2. Review of body systems
3. Surgeries (including type and date)
4. Allergies (including latex and to drugs)
5. Other illnesses/health conditions
6. Medication: prescription and OTC/herbals
7. Health habits: substance use (caffeine, tobacco, alcohol) and exercise
8. Abuse history (family violence, sexual, physical, and/or emotional abuse)
9. Pertinent family medical history
Number of Observed Items for H.../9
O: Obtain Psychosocial Perspective
1. Patient perception of chief complaint
2. Family, social, and personal circumstances
3. Environmental barriers/accommodations

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W: Wrap-up
1. Asks patient about additional questions/concerns
2. Transition into physical exam (gives clear information about next steps of the process)
S: Summary of Performance
1. Attends to patient comfort and privacy
2. Logical sequencing/follows an organized format
3. Time management/keeps the interview on task
4. Questioning strategies (eg. avoids leading questions, avoids duplication, explains rationale for questions, all questions are relevant)
5. Verbal communication strategies (avoid jargon and repetitive verbal habits ["umm"]); checks for patient understanding, rephrases/summarizes, uses transition statements)
6. Documents without interfering with the flow of the interview/not distracting
7. Attentive listening (interrupts the patient only when redirecting is needed)
8. Respect and interest toward patient; makes a personal connection
9. Nonverbal behavior (eg. distance and eye contact are comfortable for patient; responds to nonverbal patient cues)
10. Social skills (eg. empathy, poise, handles embarrassing/sensitive topics, accepts and legitimizes patient's feelings and beliefs)

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Patient Intake Forms

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Opening clinical encounters in an adult musculoskeletal setting

Open Focused Question

- “Do you want to just tell me a little bit about (your ‘problem presentation’) first of all?”

Manual Therapy 19 (2014) 306–310

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Outcome Measures

NDI
Oswestry
FABQ
Quick DASH
LEFS
FAAM

The Neck Disability Index

Patient name: _____ Flirt: _____ Date: _____

This questionnaire has been designed to give the doctor information as to how the neck pain has affected your ability to manage routine life. Please answer every question as best as you can and by filling in the appropriate box. The score for the questionnaire is the number of the responses in the answer column to give the places and marks for the score (total disability score).

Please read instructions:

The questionnaire has 10 items. Each item has 5 possible answers. The score for each item is the number of the response in the answer column to give the places and marks for the score (total disability score).

SECTION 1: NECK PAIN

1. How often do you have neck pain?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
2. How severe is your neck pain?	1. Not at all	2. Mild	3. Moderate	4. Severe	5. Very severe
3. How long does your neck pain last?	1. Not at all	2. Less than 15 minutes	3. 15 to 30 minutes	4. 30 to 45 minutes	5. More than 45 minutes
4. How often does your neck pain interfere with your work?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
5. How often does your neck pain interfere with your leisure activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
6. How often does your neck pain interfere with your usual activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
7. How often does your neck pain interfere with your driving?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
8. How often does your neck pain interfere with your walking?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
9. How often does your neck pain interfere with your sleeping?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
10. How often does your neck pain interfere with your eating?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time

SECTION 2: NECK PAIN

1. How often does your neck pain interfere with your work?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
2. How often does your neck pain interfere with your leisure activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
3. How often does your neck pain interfere with your usual activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
4. How often does your neck pain interfere with your driving?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
5. How often does your neck pain interfere with your walking?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
6. How often does your neck pain interfere with your sleeping?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
7. How often does your neck pain interfere with your eating?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time

SECTION 3: NECK PAIN

1. How often does your neck pain interfere with your work?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
2. How often does your neck pain interfere with your leisure activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
3. How often does your neck pain interfere with your usual activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
4. How often does your neck pain interfere with your driving?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
5. How often does your neck pain interfere with your walking?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
6. How often does your neck pain interfere with your sleeping?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
7. How often does your neck pain interfere with your eating?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time

SECTION 4: NECK PAIN

1. How often does your neck pain interfere with your work?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
2. How often does your neck pain interfere with your leisure activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
3. How often does your neck pain interfere with your usual activities?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
4. How often does your neck pain interfere with your driving?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
5. How often does your neck pain interfere with your walking?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
6. How often does your neck pain interfere with your sleeping?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time
7. How often does your neck pain interfere with your eating?	1. Never	2. Sometimes	3. Often	4. Very often	5. All the time

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Distribution of Symptoms

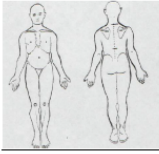
- Use of **Body Chart** - review with pt
- Precise recording
- Verbal and Non-verbal responses
- Recognize patterns
- Intermittent vs constant nature

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VOMPTI_CLINICAL REASONING FORM

Student/Resident: _____

DATE: _____ PATIENT: _____



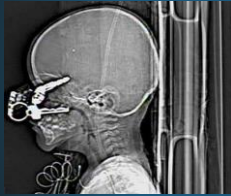
Body Chart—Initial Hypothesis:

Outcome Tool/Measure: _____ MCID: _____

Score: _____

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Pain Characteristics



- Specific, sharp, immediate reproduction
 - **Joint**
- Deep, dull, aching
 - **Disc, bone, muscle**
- Sharp shooting, lancinating, painful paresthesia, non specific
 - **Neural tissue**



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Behavior of Symptoms

- **** Aggravating Factors ****
- Easing Factors
- Behavior over 24 hrs
- Progression of Sxs



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** Aggravating Factors **

- What specific postures/activities reproduce which specific complaints?
- What is the temporal component to specific complaints?
- What specific activities/postures worsen complaints?



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Easing Factors



- What specifically does the patient do to relieve sxs?
- How long does it take to reduce those sxs?



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History


- Of the present episode
- Of previous episodes
- Of related medical history



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Subjective Evaluation


- Date of injury
 - Recent; first time;
 - recurring injury?
 - If recurring, is it similar to previous injuries



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Mechanism of Injury

- Traumatic
 - Specific Mechanics
 - (MVC) Direction of impact
 - On Field mechanics
 - How soon for onset of specific sx's
 - Noise, swelling, bleeding
- Insidious
 - Change in activity level/job
 - Repetitive stress
 - DJD
 - Postural dysfunction




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Treatment



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Frank and Ernest



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Individual Expectation: An Overlooked, but Pertinent, Factor in the Treatment of Individuals Experiencing Musculoskeletal Pain

Joel E. Bialosky, Mark D. Bishop, Joshua A. Cleland
Physical Therapy, Volume 90, Issue 9, 1 September 2010, Pages 1345-1355,

Patient Expectations/Placebo

- Expectation may serve as a significant prognostic indicator for individuals with musculoskeletal pain conditions
- The literature suggests practitioners may take steps to maximize the benefit of expectation in their daily practice.

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Previous Conditions

- Similar problem in the past
- How was it treated?
- Prior condition resolved?
- Progression of previous episodes

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Systems Review

- Medical screen questionnaire to guide
- HTN, Diabetes, history of CA, cardiovascular status
- Conditions present which would predispose to musculoskeletal injury
- Conditions present which would influence treatment

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Past Medical History

- Surgical history
- Medical conditions
- Orthopedic injuries
- Fractures
- History of major trauma



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Medications

- Predispose musculoskeletal dysfunction
- Correlate with Medical History
- ??? Contraindicate treatment
 - Corticosteroids- chronic inhaler use
 - Anticoagulants
 - Narcotics



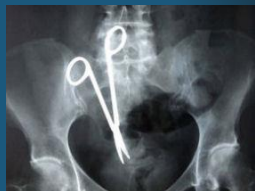
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Diagnostic Evaluation

- MD referral - general practitioner or specialist
- Blood work/labs
- Radiology
- EMG/NCV

? Results



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Special Questions

- Bilateral symptoms - esp. LQ with cervical pain
(Central cord compression)
- Unexplained weight loss (CA)
- Severe night pain (CA)
- Dizziness, blurred vision, tinnitus,
nausea/vomiting, Severe HA (CAD)
- Saddle numbness, bowel/bladder changes
(Cauda equina syndrome)



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Occupation

- Work duties
- Prolonged positions
- Repetitive tasks
- Is patient on light duty/work restrictions?
- General sense of job satisfaction



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Activity Level

- Recreation level
- Daily Exercise
- Limitations secondary to
SXS

Develop Patient Centered
Functional goals



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- Facilitate Rapport
- Functional Goal setting
- Predictive of favorable outcome
- Improve compliance
- **Self-efficacy**
 - Extent or strength of one's belief in one's own ability to complete tasks and reach goals

“What are your goals from seeing me?”



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Shared decision-making in back pain consultations: an illusion or reality?
Eur Spine J (2014) 23

Table 1 The core components of shared decision-making [4]
Identifying and clarifying the issue
Identifying potential solutions
Discussing options and uncertainties
Providing information about the potential benefits, harms and uncertainties of each option
Checking that patients and professionals have a joint understanding
Gaining feedback and reactions
Agreeing a course of action
Implementing the chosen treatment
Arranging follow-up
Evaluating outcomes and assessing the next steps

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Subjective 'Asterisks' Signs/Symptoms: (Aggravating/Easing factors, Description/location of symptoms, Behavior, Mechanism of injury):

- * Identifies points to be used in **re-assessment** of patient progress
- * Teaching process to mark **informative and significant words**
- * Throughout exam as part of **hypothesis generation**

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Probable Structures

- **Joints** in the painful region
- Joints which **refer** pain to the painful region
- **Muscles** in the painful region
- Muscles which **refer** pain to the painful region
- **Nerves** in the painful region
- Nerves which **refer** pain to the painful region

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Possible Structures

- Other contributing factors
- Secondary Causes
- "Cause of the Cause"
 - Posture
 - Muscle imbalance
 - Obesity
 - Hyper mobility/instability
 - Dysfunction proximal/distal



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STRUCTURE at Fault:

Joints in/refer to the painful region	Myofascial tissue in/refer to the painful region	Non Contractile tissue in/refer to the painful region	Neural tissue in/refer to the painful region	Other structures that must be examined – non MSK

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Primary HYPOTHESIS after Subjective Examination: _____

Differential List: (List in ranking order to screen/clear - Rule out)

Sensitivity – SNNout : (-) Rule OUT

(-) Likelihood ratio

Specificity – SPPin : (+) Rule IN


(+) Likelihood ratio

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Evaluating Subjective Information:

- Severity
- Irritability
- Nature
- Stage

SEVEN DEADLY SINS

1. Sloth 

2-7. Whatever

Does the examination need to be modified?

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Rate your assessment of Severity & Irritability
Justify your assessment with examples from the Subjective Exam &/or Objective Exam

<input checked="" type="radio"/> Severity	Non	Min	Mod	Severe

<input type="radio"/> Irritability	Non	Min	Mod	Severe

- Do symptoms prevent ADLs
- Sleep disturbed
- Central or radicular complaints
- Sensation or Motor deficits

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Rate your assessment of Severity & Irritability
Justify your assessment with examples from the Subjective Exam &/or Objective Exam


<input type="radio"/> Severity	Non	Min	Mod	Severe

<input checked="" type="radio"/> Irritability	Non	Min	Mod	Severe

- Disproportionate to activity level ?
 - How much activity to provoke- vigor
- Slow to reduce following exacerbation
 - What/How long to reduce
- Peripheralization of sxs with active mvt
 - Severity of sxs – degree and quality

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Respect Irritability

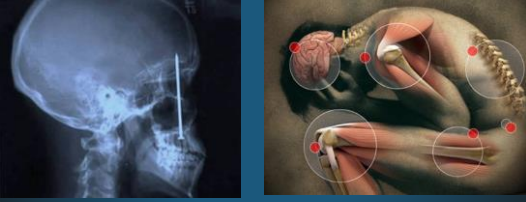


EXPLAIN PAIN

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Stage and Stability

Stage & Stability?				
○ Acute	○ Subacute	○ Chronic	○ Acute on chronic	
○ Stable	○ Improving	○ Worsening	○ Fluctuating	○ Red Flags



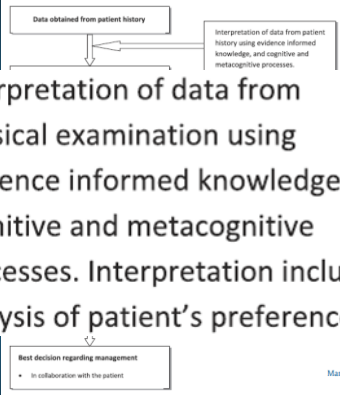
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Planning the Objective Exam

Develop a working Hypothesis

- Use of **SINS** as framework
- Determine examination extent and vigor
- Structures to be examined
- Neurological Exam
 - segmental/peripheral/central

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Data obtained from patient history → Interpretation of data from patient history using evidence informed knowledge, and cognitive and metacognitive processes.

Interpretation of data from physical examination using evidence informed knowledge, and cognitive and metacognitive processes. Interpretation includes analysis of patient's preferences.

Best decision regarding management
 • In collaboration with the patient

Manual Therapy xxx (2013) 1-7

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When All Else Fails, Examine the Patient?

It's a favorite tongue-in-cheek line I used when I was a resident on morning rounds with anxious interns and students at my side. After spending the entire night on our feet, we heard exhaustive histories, presented lab results as king as a locker tape, and proudly displayed X rays and CTs while fighting sleep in the soft glow of the radiology board. Occasionally, I'd ask a salient question, "But what did their physical show?" Sometimes it was obvious the examination was the more cursory portion of the presentation. I'd like to share a few scenarios that occurred in the short space of just a few days in my private practice to make the

Extent of the Evaluation

- Restrictions to vigor of examination mvts
- Will a 'comparable sign' be difficult to find
- Are treating pain, loss of motion, or weakness
- How easy do you expect to reproduce/provoke symptoms?

**** Physical Exam "Asterisks" Signs/Symptoms ****
(Special Tests, Movement/Joint Dysfunction, Posture, Palpation, etc.)

*** Identifies points to be used in re-assessment of patient progress ***

*** Teaching process to mark informative and significant words ***

*** Throughout exam as part of hypothesis generation ***

Identify any potential risk factors (Yellow, Red flags, non MSK involvement, biopsychosocial)

Red Flag findings
Red Flag risk factors
Yellow Flag signs/symptoms-
Biopsychosocial risk factors
Non Musculoskeletal involvement
Neurologic component
How will that change your exam/differential?

'Making Sure the Features Fit'

- Do the features of the history fit with the current behavior of the symptoms?
- Does the behavior of the symptoms fit with a recognizable syndrome or pathology?
- ? Red/Yellow flags for Referral



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Documentation of Red Flags by Physical Therapists for Patients with Low Back Pain

*Pamela J. Leerar, PT, DHS, OCS, COMPT
William Boissomault, PT, DHS, FAAOMPT
Elizabeth Domholdt, PT, EdD, FAPTA
Toni Roddey, PT, PhD, OCS, FAAOMPT*

The Journal of Manual & Manipulative Therapy
Vol. 15 No. 1 (2007), 42-49



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TABLE 1. Red flags item description and rationale

Red Flag Item	Description	Rationale
Trauma	History of minor or major trauma, motor vehicle accident, fall, strenuous lifting 50 years or more	Possible fracture, especially in an older or osteoporotic patient
Age		Increased risk of cancer, abdominal aortic aneurysm, fracture, infection
History of cancer	Past or present history of any type of cancer	History of cancer increases the risk of cancer-causing low back pain. Back pain may be caused by metastatic tumors arising from the kidney, thyroid, prostate, breast, lung
Fever, chills, night sweats	Fever over 100 degrees Fahrenheit, a sensation of being cold, waking up sweating, temperature changes at night	Constitutional symptoms may increase the risk of infection or cancer
Weight loss	Unexplained weight loss of over 10 pounds in 3 months, not directly related to a change in activity or diet	May be indicative of infection or cancer
Recent infection	Recent bacterial infection such as a urinary tract infection	Increases the risk of infection



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TABLE 1. Red flags item description and rationale

Red Flag Item	Description	Rationale
Immunosuppression	Immunosuppression resulting from a transplant, intravenous drug abuse, or prolonged steroid use	Increases the risk of infection
Rest/night pain	Pain that is not relieved with rest or awakens a patient at night, unrelated to movement or positioning	Increases the risk of cancer, infection, or an abdominal aortic aneurysm
Saddle anesthesia	Absence of sensation in the second-fifth sacral nerve roots, the perianal region	Cauda equina syndrome
Bladder dysfunction	Urinary retention, changes in frequency of urination, incontinence, dysuria, hematuria	May indicate cauda equina syndrome or infection
Lower extremity neurological deficit	Progressive or severe neurological deficit in the lower extremity	May indicate cauda equina syndrome



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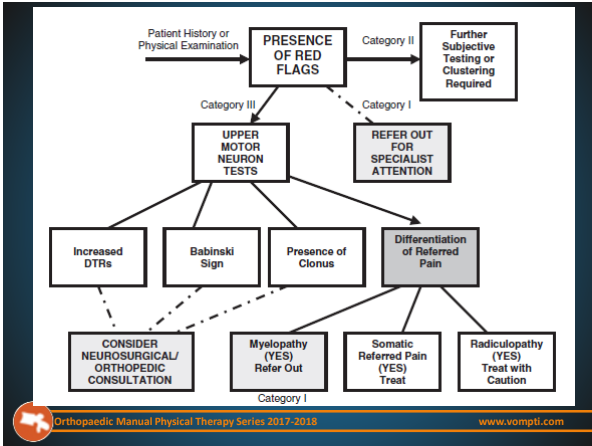
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Medical Screening for Red Flags in the Diagnosis and Management of Musculoskeletal Spine Pain

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Pain Practice, Volume 7, Issue 1, 2007 53-71

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Category I: Factors that require immediate medical attention

- Blood in sputum
- Loss of consciousness or altered mental status
- Neurological deficit not explained by monoradiculopathy
- Numbness or paresthesia in the perianal region
- Pathological changes in bowel and bladder
- Patterns of symptoms not compatible with mechanical pain (on physical examination)
- Progressive neurological deficit
- Pulsatile abdominal masses

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Category II: Factors that require subjective questioning and precautionary examination and treatment procedures

- Age > 50
- Clonus (could be related to past central nervous system disorder)
- Fever
- Elevated sedimentation rate
- Gait deficits
- History of a disorder with predilection for infection or hemorrhage
- History of a metabolic bone disorder
- History of cancer
- Impairment precipitated by recent trauma
- Long-term corticosteroid use
- Long-term worker's compensation
- Nonhealing sores or wounds
- Recent history of unexplained weight loss
- Writhing pain

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Category III: Factors that require further physical testing and differentiation analysis

- Abnormal reflexes
- Bilateral or unilateral radiculopathy or paresthesia
- Unexplained referred pain
- Unexplained significant upper or lower limb weakness

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Direct Access Decision Making

- Treat
- Treat and Potentially Refer
- Refer out

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- APTA Resources - There are additional general resources and information about direct access available on the APTA website. Enter the search term "Direct Access" into the search box to access a variety of helpful resources.

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Direct Access Compared With Referred Physical Therapy Episodes of Care: A Systematic Review

Heidi A. Ojha, Rachel S. Snyder, Todd E. Davenport

Data Synthesis. There is evidence across level 3 and 4 studies (grade B to C, CEBM level of recommendation) that physical therapy by direct access compared with referred episodes of care is associated with improved patient outcomes and decreased costs.

Conclusions. Physical therapy by way of direct access may contain health care costs and promote high-quality health care. Third-party payers should consider paying for physical therapy by direct access to decrease health care costs and incentivize optimal patient outcomes.

PHYS THER. 2014; 94:14-30

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