

# History & Exam 4 Hours of CE



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**Life Chiropractic College West Graduate  
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**Professor Life Chiropractic College West, 1997-2002**

- **Physiotherapy Rehab** (authored course manual)
- **Physiotherapy Modalities** (authored course manual)
- **X-Ray Physics** (authored course manual)
- **Philosophy I**
- **Philosophy V - Practice Management**
- **Microbiology Lab**
- **Spinal Biomechanics**
- **Systemic Physiology Lab**



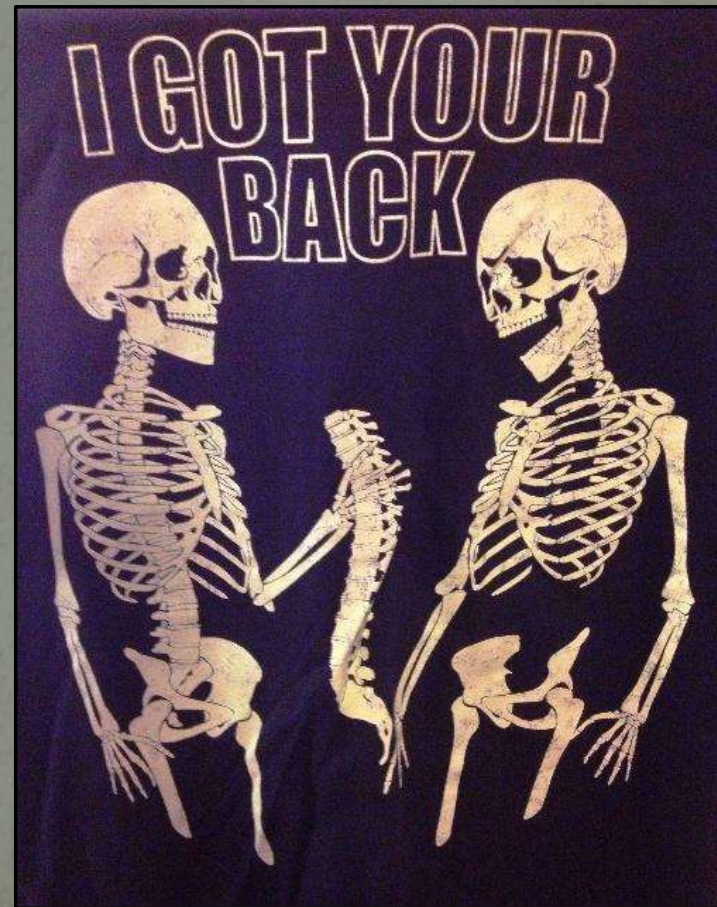
- **Private Practice, 2000-present Mendocino/Ft Bragg, CA**
- **CE Seminars, 2002-present:**  
**Technique, Wellness (Pt Ed), Physiotherapy,**  
**History Taking & Physical Examination Procedures**
- **Ghost Writer Practice Management, 2007-present**
- **National Board Review Instructor, 1999-2000**  
**Dr. Irene Gold & Dr. John Donofrio**
- **Middle School Teacher Math & Science, 1989-1993**
- **Racquetball Club Pro & Weight Trainer**  
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- **Father: Amuel Strutz DC Palmer Grad 1961**



## The Goal

The basic goal of the history and exam is to identify abnormal findings.

1. The symptoms revealed by the patient during the history and the exam.
2. The signs observed by the chiropractor during the history and exam.



## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the head & neck region.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”





# Exceed Standard of Care

When taking a history and exam be sure you are at a minimum with-in the standard of care or exceed that! Always think: “take one more step”, thank you Dr. Donofrio!!



## No Short Cuts

As we become more experienced it is easy to skip the history or the exam or have it “overly” focused or minimized. This is when DCs miss critical bits of information. Perform a complete history & exam as dictated by each individual patient.





## Cash DCs or Subluxation Based DCs

Make sure you have taken a proper history exam and document it in the patient's file. There is a minimum standard of care that you must provide.



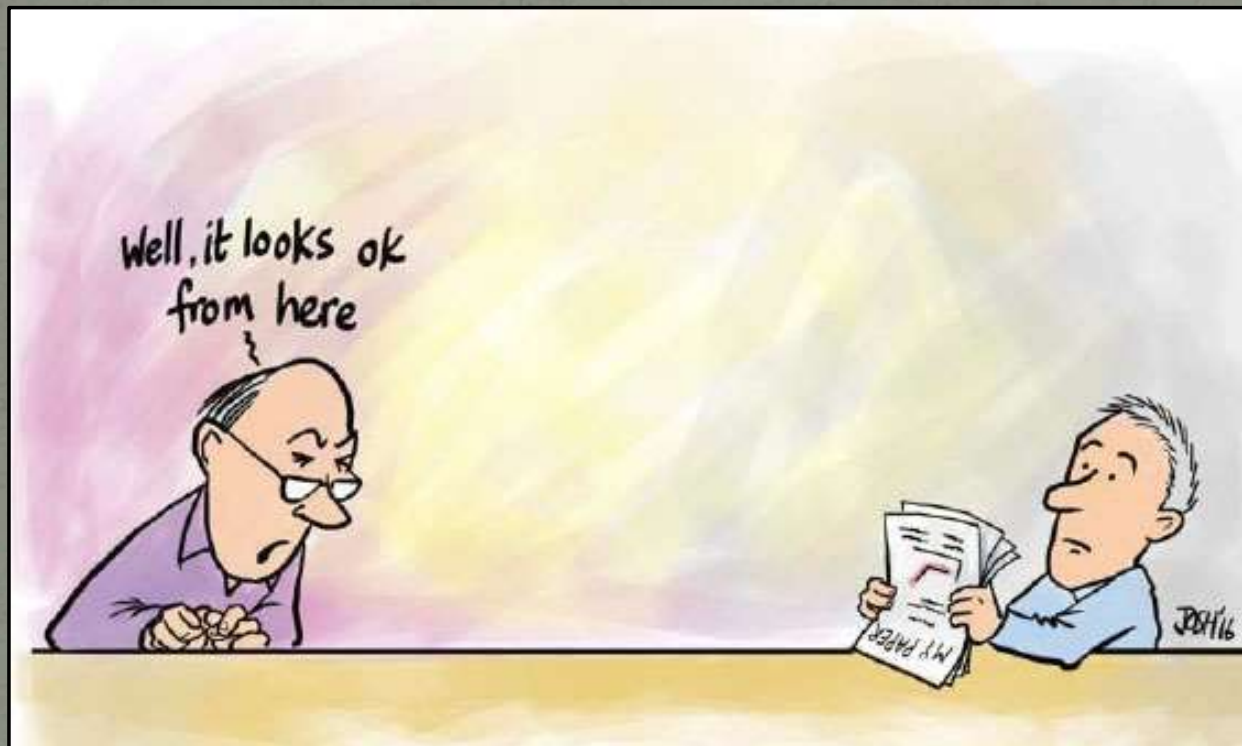


## Don't Jump to Conclusions

The whole idea of performing the history and exam is to take that information and then come up with a diagnosis and prognosis. All too often a chiropractor skips much of the history and exam and assumes they know what's wrong without gathering all the necessary information to make the correct decisions.

# Peer Review

Visit with another chiropractor and share your history and exam procedures.





## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the shoulder region.

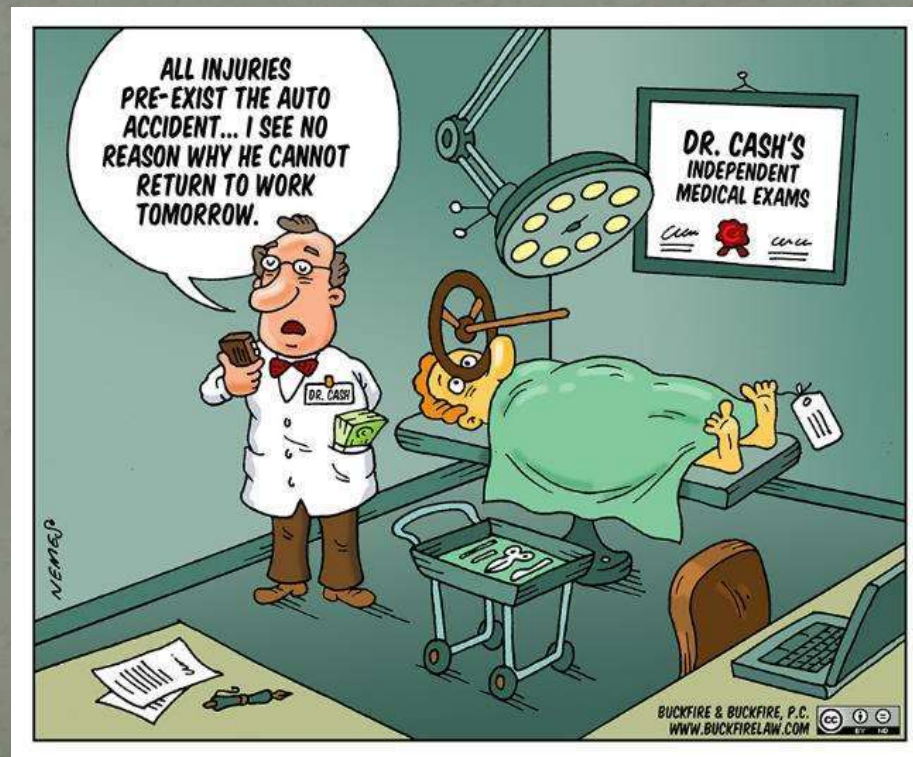
Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”



## Why The History & Exam?

There are **SO MANY REASONS** for an excellent, well documented comprehensive or focused Hx & Exam.

The following slides will serve as a review.





## **Hx on their Chiropractic experience?**

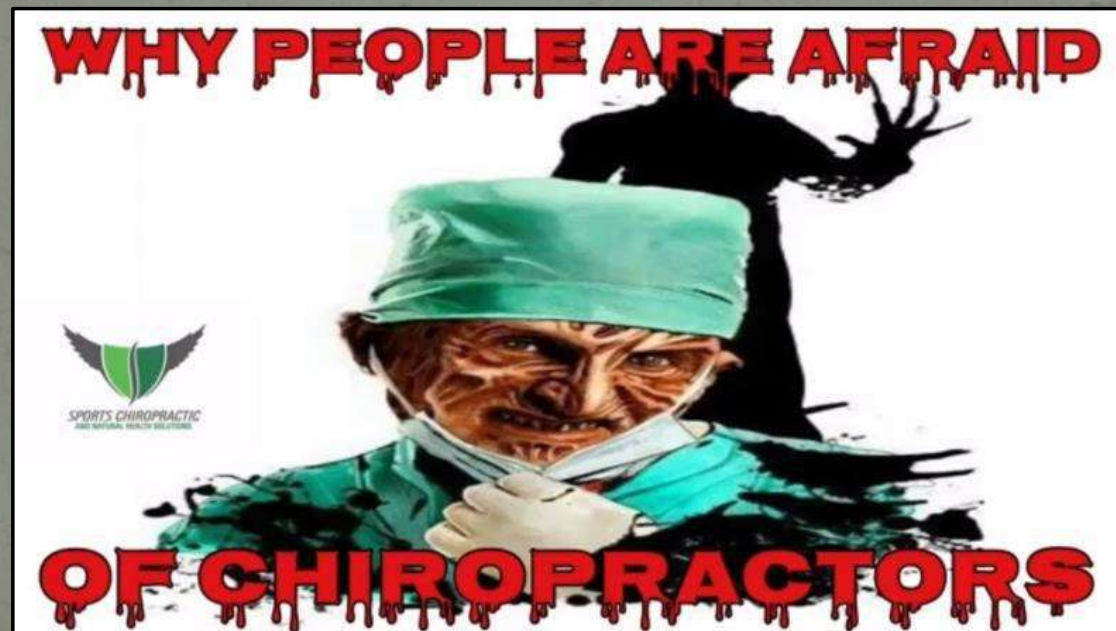
**Ask the patient if they have been to a chiropractor before. If so ask them about their experience, good or bad, what did they like and what did they not like?**

**Why did they leave the last chiropractor?**

**Ask the patient if they're willing to try a different style of chiropractic, different than they may have experienced in the past.**

## Hx on their Chiropractic experience?

If they have not been to a chiropractor, ask them about what they have heard and if they have any questions or concerns about chiropractic care.





# Look for a Reason NOT to Adjust?

It's easy to find a reason to adjust, but the real goal should be to find a reason NOT to adjust the patient.

Once the patient is cleared of any and all contraindications then the DC can be confident that an adjustment is safe and beneficial.



# **Activity**

List Reasons **NOT** to Adjust





# Activity

## List Reasons NOT to Adjust

- Damaged tissue, break or tear
- Patient scared
- Excessive inflammation
- Excessive pain



# Adjusting at Seminars

To adjust a DC always needs to properly:

- \*document patient information
- \*take a history
- \*perform an exam
- \*acquire written & verbal consent

In light of the fact that an instructor for another company just injured an attending DC during a demonstration, and based on the legal advice from NCMIC, all technique will be demonstration of set-up only, with no dynamic thrust.

For DCs attending the seminar our legal advice is to also follow the above guidelines.



# Determine What Technique

Not every patient responds well to the same technique. Have multiple techniques in your chiropractic “bag of tricks”.



# Hx on their adjusting experience?

Have they been adjusted before?

If so do they have a preference for a certain style of adjusting?

Do they have any questions or concerns about a chiropractic adjustment?

Ask the patient if they're interested in and or OK with a different style of adjusting.

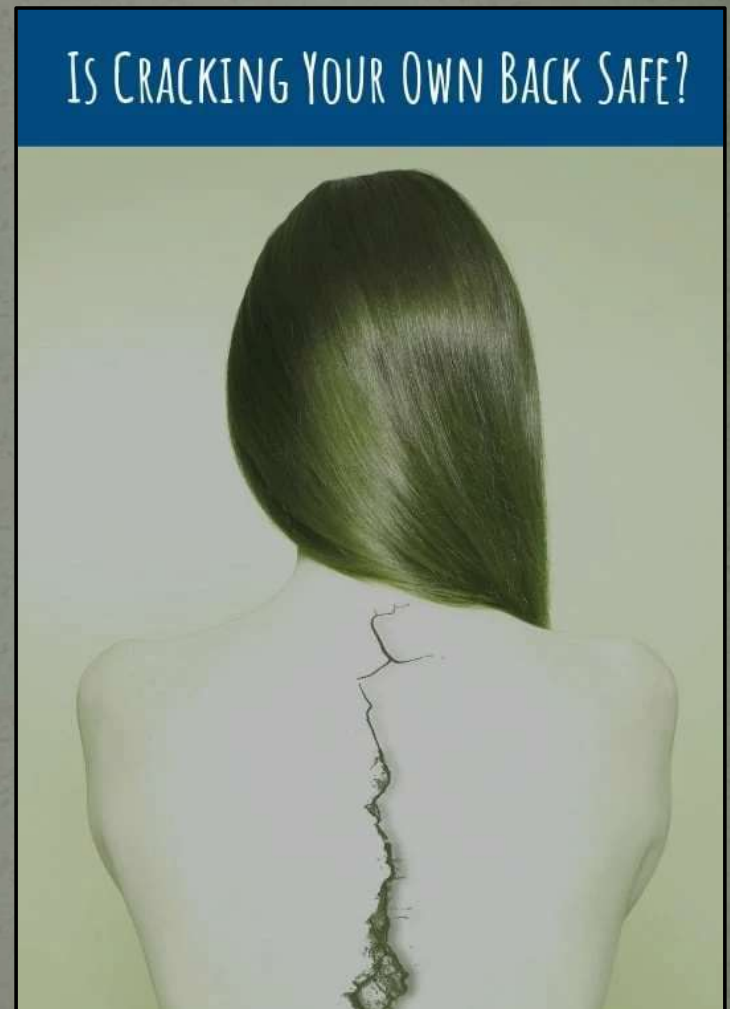




# Hx on their adjusting experience

If they have not been adjusted before, ask them if they have any questions and/or concerns.

Always invite them to watch you adjust another patient before they get their first adjustment.



# The Adjustment As An Ongoing Exam Procedure

Once you start adjusting track the patient's response to the adjustment, ie how much pain relief is experienced right after the adjustment and the next few days after.

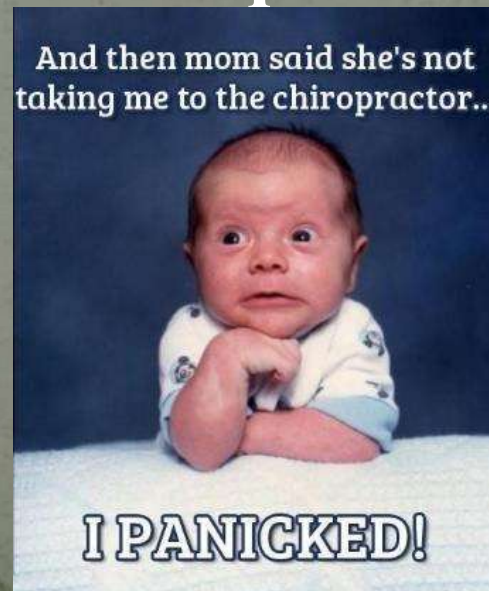




# The Adjustment As An Ongoing Exam Procedure

As you start care think of the chiropractic adjustment as an ongoing exam procedure.

Ask yourself, how are they responding to an osseus adjustment or drop table adjustment or activator adjustment? If they are not responding as you would expect, then we need to consider changing to a different technique or referral.



# Adjusting As An Ongoing Exam

Example: immediately after a thoracic adjustment did the feel tugging or pain in the low back, use this as an “exam procedure” to determine the involvement away from the primary injury. If you cannot adjust the thoracic spine without pain in the lumbar, then it’s likely that a lumbar adjustment is contraindicated or at least be considering that fact.



# Special Studies

The history and exam are important as the practitioner needs to figure out if they need to order any special studies. Does the chiropractor need to take X-rays, yes or no, request any special studies, ie labs, MRI, bone scan etc.?



## Referral or Co-manage

The history and exam will tell you if a referral is necessary or if this is a case that will require co-management with another health care practitioner.





# Activity

List Reasons When To Refer  
How many visits until you refer?



# Activity

## List Reasons When To Refer

- **DC: different technique**
- **PT: rehab for post surgery**
- **MD: prescription needs**
- **Orthopedist: surgery**
- **Neurologist**
- **Oncologist**
- **General Practitioner**
- **Nutritionist**
- **Labs**
- **Special studies: X-ray, bone scan, MRI**





# Document a Starting Point

The history & exam provides as a guide for a starting point for the case. From there it is important to document improvements and or decline in the patient's status. If the patient is showing decline, then a reassessment and re-eval are needed and a possible referral.

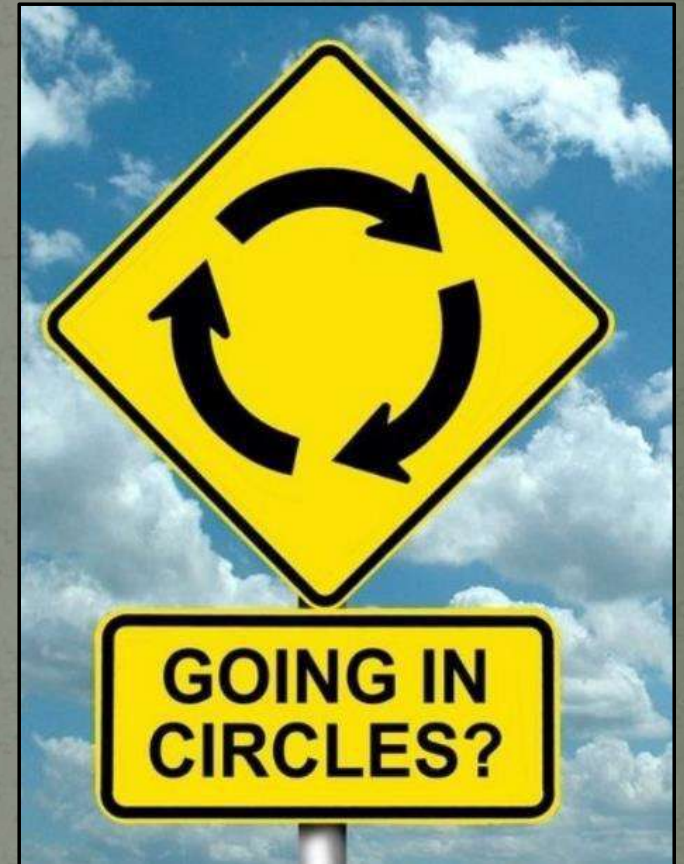




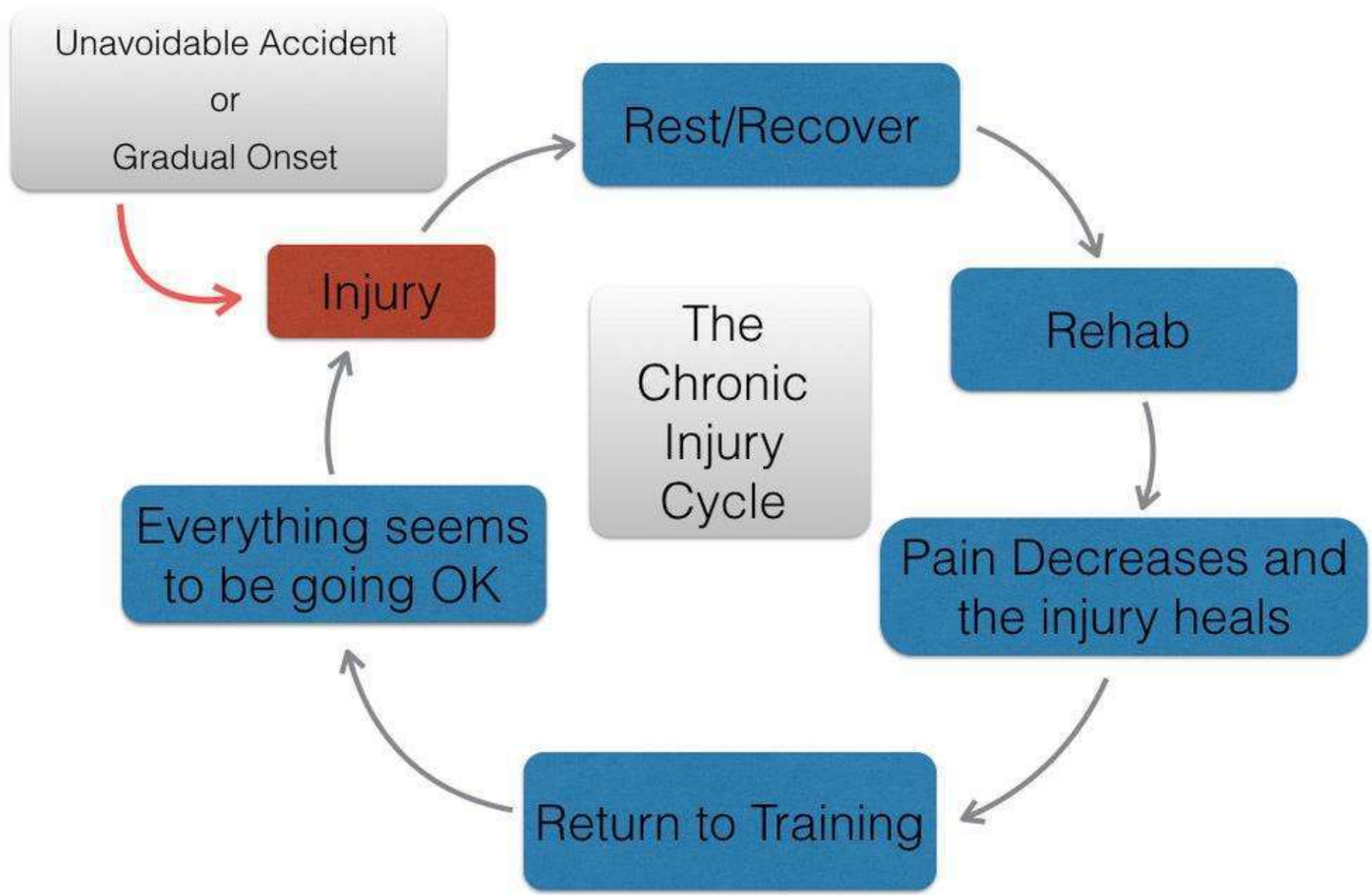
# Injury Cycle

After completing the history and exam, we should have a good idea of where the patient is in the injury cycle.

This is an important thing to discuss with the patient to help them understand the healing process their body will be going through.





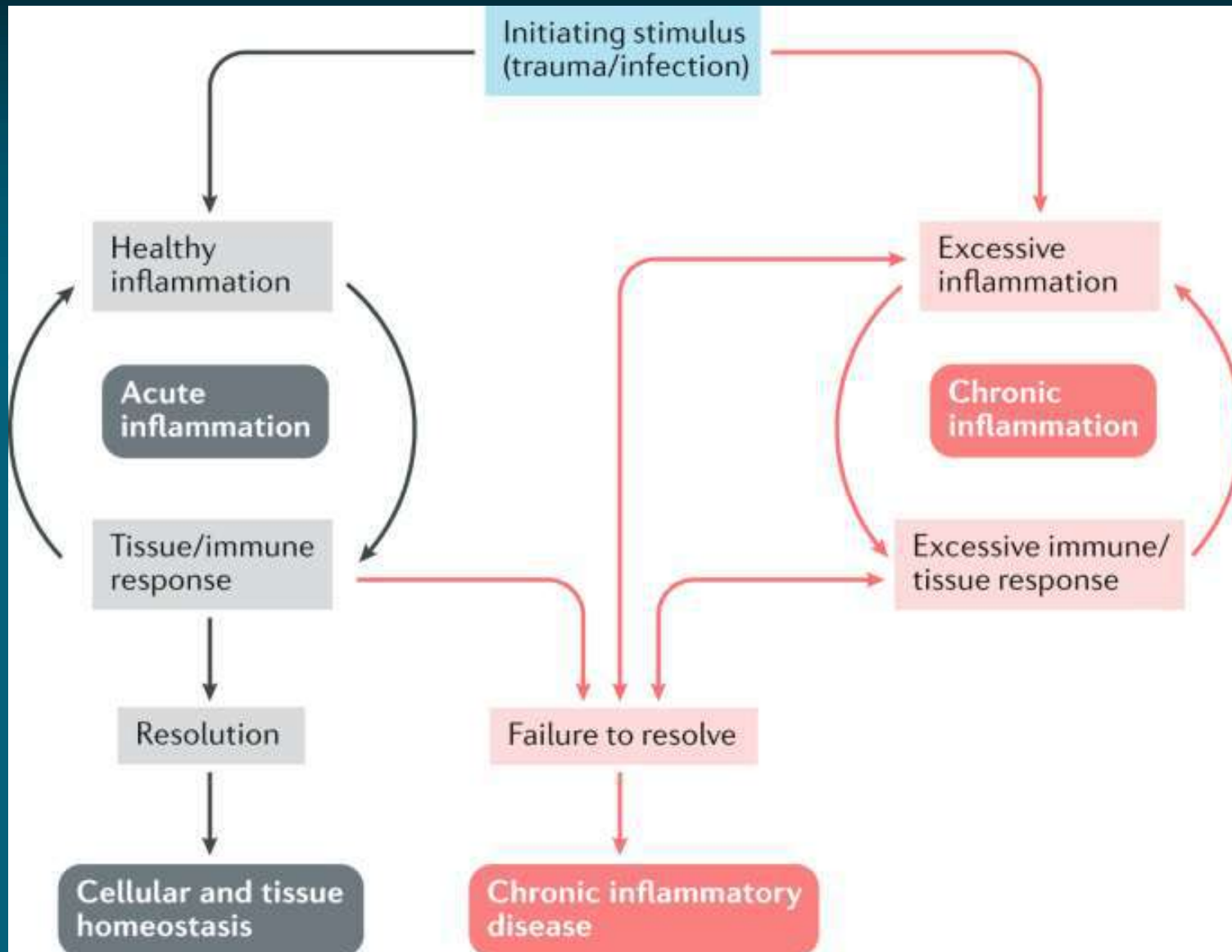


## Stages of Healing

An important part of a proper history and exam is to determine where they are in the stages of healing. We can then point out to the patient their starting point and the stages we have to go through to recover from the injury.

This helps the patient understand that chiropractic care is not a one visit phenomenon, rather it is a specialized form of rehab that includes chiropractic adjustments.





# Stages of Tissue Healing

Inflammation:

Swelling, Pain, Muscle spasm, ↓ motion, ↓ function

## Stage 1: Acute 0-72 hours:

- \*Inflammation; chemical mediators released
- \*Edema: restricts motion, ↑ pain, fibrosis
- \*Motion restricted due to: pain, spasm, edema
- \*Muscle spasms due to: pain
- \*Causes of pain: ischemia, chemical mediators, mechanical deformation
- \*Ice: vasoconstriction, ↓ pain, muscle relaxer, slows cellular metabolism



## Stage 1 Goals:

↓ pain, slow & control swelling

## Care:

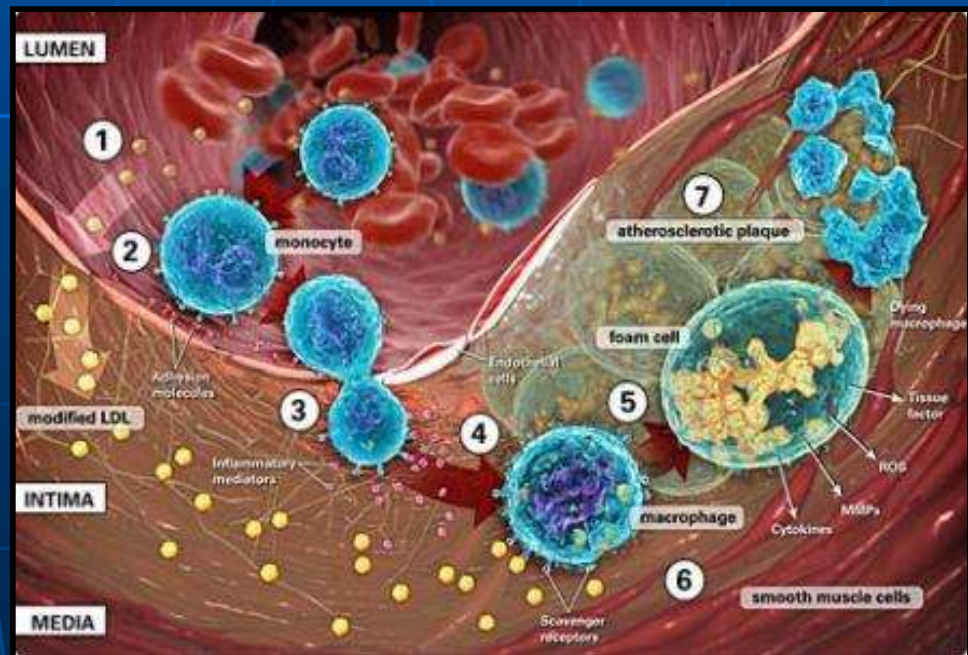
- Rest & support
- Ice to ↓ swelling, pain & muscle spasm
- Adjust when safe



# Inflammation & Pain:

Does the patient think these are good or bad things?  
**Remember the acute inflammatory process is what helps heal the tissue. If we could remove all the inflammatory chemicals the tissue would **NOT** heal. Have pt pinch themselves then release. Severity of pain does not always correlate with severity of injury.**

**Ex. Calf cramp, paper cut, bumping your elbow.**





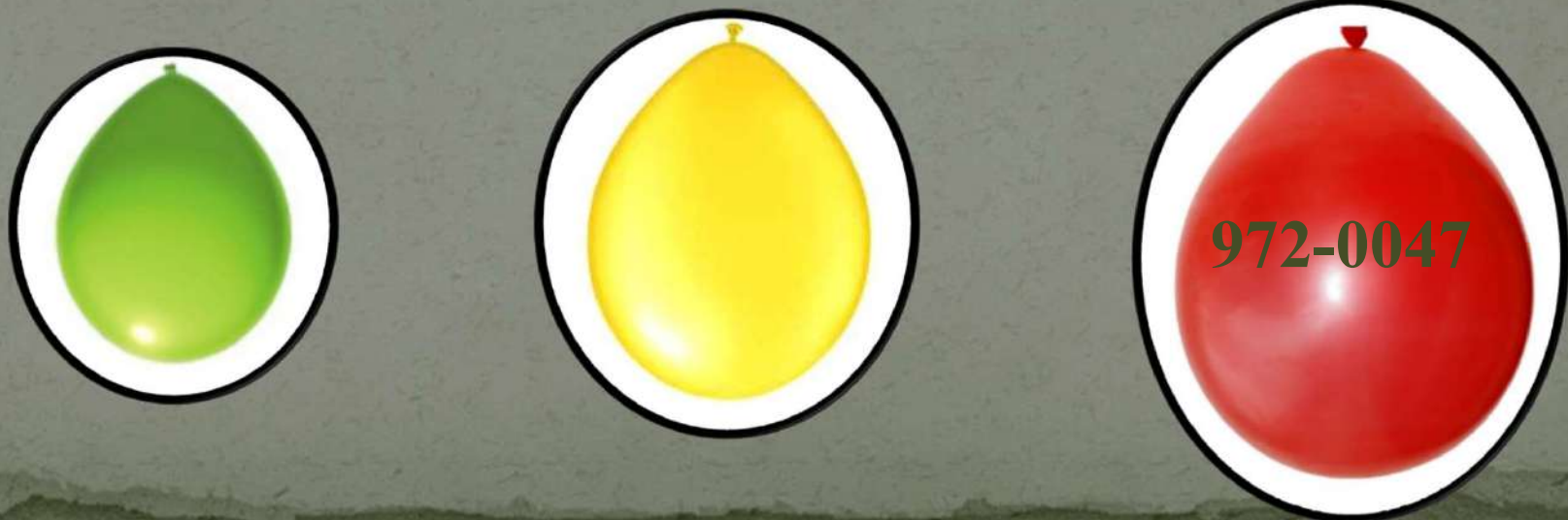
# Pt Ed: Water Balloons & Chemical Build-up

Explain to the pt that cells are mostly water and that it is chemical build-up that ultimately causes the pain.

**Green:** Tissue is normal, relaxed & no swelling.

**Yellow:** Inflammation has gathered gradually due to constant overuse, but not enough to cause pain. This is where maintenance care comes in, to prevent excess chemical build-up.

**Red:** Excess build-up of chemicals. Inflammation is so bad that it causes pain. Put your phone number on the balloon, because that is when they call.



# In The Back Of My Mind



## Patient Education: Sprained Ankle & Inflammation

Patients often have a hard time understanding a sprained low back or neck, so use a sprained ankle as an example.





# In The Back Of My Mind



## Anti-inflammatories?

Typically a patient will say that the drugs helped at first and then did not, after about 3 days. No coincidence that this experience coincides with the stages of healing. Remember these drugs will decrease inflammation and decrease fluid flow/circulation to the injury site. During the acute stage these would actually help as it would slow fluid flow. Into the passive stage (72 hours to 3 weeks) we want to increase fluid flow and these drugs will actually impede the flow. Taking these long term will slow the healing process as we want inflammatory exudate to exit the tissue and have new fluids enter.

# In The Back Of My Mind



Of course I did not forget about the side effects of anti-inflammatories and gut bleeding:

50% of pts taking NSAIDs have sustained damage to their small intestine.  
Journal of Gastroenterology, 2009

“The routine use of aspirin for the primary prevention of vascular events in people with asymptomatic disease cannot be supported.” JAMA, 2010

**“There are no side effects of pharmaceutical drugs,  
only unwanted direct effects.”**



# In The Back Of My Mind



## Inflammation   **Protocols**

Protect   Rest   Ice   Compress   Elevate

Exercise: Limited, motion within limits of pain (unless leads to further inflammation).

Lifestyle/Ergonomics: Rest, maintain comfortable position, do not “freeze” rest of body.

Diet/Nutrition:

Vitamin B-Complex- Tissue repair (3x daily).

Vitamin C with bioflavonoids- Tissue repair & ↓ inflammation (3000-6000 mg daily).

Essential Fatty Acids- Evening primrose oil, flaxseed oil & fish oils ↓ inflammation.

Grape seed extract- Antioxidant.

Zinc- Tissue repair & ↓ inflammation (50 mg daily).

Superoxide dismutase (SOD)- Free radical scavenger, ↓ infection & inflammation.

Alfalfa- source of minerals.

Bilberry- contains flavonoids that ↓ inflammation.

Aloe vera, Arnica, Boswellia, Bromelain, Cat's Claw, Curcumin (turmeric), Echinacea, Ginger Root Extract, Goldenseal, Pau d'arco, Red Clover, White Willow Bark Extract & Yucca- all help ↓ inflammation.

## Stage 2: Passive congestion 3 days-3 weeks:

### Goals:

Remove fluid, ↑ motion, ↓ pain

\* ↑ vascular flow; exudate tends to remain in soft tissue.

\*Facet cartilage & disc nutrition: Improve motion  
↑ circulation of synovial fluid and nutrients,  
fluid flows into the disc and waste products can flow out.

### Care:

- Adjust & soft tissue work
- Motion exercises
- Ergonomic advice

## Stage 3: Repair Day 5 to 3-6 weeks:

### \*Scar Tissue Formation

\*↓ motion leads to: ↑ scar tissue, chronic shortening and stiffening of soft tissue, ↑ risk for degeneration of bone

\*↑ motion: improves alignment of connective tissue to support joint mechanics and function

### Stage 3 Goals:

Restore normal motion, speed healing & ↓ pain

### Care:

- Adjust & soft tissue work
- Motion exercises
- Ergonomic advice



## **Stage 4: Remodel:**

starts in 3-6 wks, takes 3-52 wks to never depending on the severity of the injury.

### **Goals:**

Motion: Maintain & improve

Flexibility: Maintain & improve

Functionality: Maintain & improve

Chronic pain: ↓ & ↓ risk of exacerbation

Degeneration: ↓ risk

### **Care:**

- Adjust & soft tissue work
- Motion exercises
- Ergonomic advice

## Goals of Care:

1. Pain relief
2. Restore function
3. Reduce risk of exacerbation
4. Reduce risk of degeneration

**Again a disconnect with the pt may occur!**

- How long does it take for pain relief?
- How long does it take for tissues to heal?
- How long does it take to restore function?

**If the pt does not understand the questions above then they will be confused and not understand a care plan that goes beyond pain relief.**

## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the elbow region.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”





# The Review of Systems (ROS)

An inventory of the body systems obtained through a series of questions in order to identify signs and/or symptoms which the patient may be experiencing.

Constitutional symptoms  
(i.e. fever, weight loss, vital signs)

Eyes

Ears, nose, mouth, throat

Cardiovascular

Respiratory

Gastrointestinal

Genitourinary

Musculoskeletal

Integumentary

Neurological

Psychiatric

Endocrine

Hematologic/Lymphatic

Allergic/Immunologic



# REVIEW OF SYSTEMS

## REVIEW OF SYSTEMS

GENTOURINARY	Do you experience burning or stinging on passing urine?
	Does the urine smell or look different? Have you ever seen blood in the urine?
	Do you need to pass frequent, small volumes of urine?
	Is there a delay in starting the stream? Does it dribble at the end?
	Have you noticed any discharge from the genitals?
	Are you passing more urine? How many times do you get up to pass urine at night?
	Do you have trouble with obtaining or maintaining an erection?
	Do you have any rashes, lumps or bumps around your genitals?
	Have you ever lost control of your bladder?
	Have you had any change in your menstrual cycle?
MSK	Do you have any painful, stiff or swollen joints? When so?
	Do you have any skin rashes?
	Do you have neck or back pain?
	Do you have a dry mouth or eyes?
	Do your fingers become painful or change colour in the cold?
ENDOCRINE	Have you ever broken a bone with only a trivial injury?
	Do your hands ever tremble?
	Do you prefer hot or cold weather?
	Have you had any recent weight loss or gain?
	Are you unusually thirsty or passing more urine?
HEENT	Are you troubled by fatigue or insomnia?
	Have you ever had diabetes or a thyroid problem?
	Do you have any lumps in the neck?
	Do you have any problems or pain swallowing?
	Have you had any change in voice or hoarseness?
	Have you had any discharge or blood from the ears or nose?
	Do you have any pain, itching or discharge from the eyes?
	Do you have double or blurred vision?
	Any sudden loss of sight?

CARDIOVASCULAR	Do you ever experience chest/neck/arm pain or pressure?
	Do you get short of breath? When?
	How far can you walk on the flat? What stops you?
	Can you sleep flat? How many pillows do you lay on?
	Do you wake up short of breath? How long after you fall asleep?
RESP	Do you ever experience palpitations?
	Do your ankles ever swell?
	Do you have a cough or wheeze?
	Do you ever cough up phlegm or blood?
	Do you ever have fevers or night sweats?
GASTROINTESTINAL	Do you snore or stop breathing during the night?
	Do you have indigestion, heartburn or difficulty swallowing?
	Do you feel unusually full after a meal?
	Have you had any change in the colour, consistency or frequency of your bowel motions? Have you ever passed blood, mucus or tarry and offensive smelling stools?
	Have you unintentionally lost weight recently?
HAEMATOLOGICAL	Do you have any abdominal pain or bloating?
	Have you had any nausea or vomiting? Have you ever vomited blood or coffee ground material?
	Have you ever had yellow skin/eyes/jaundice?
	Do you ever have fevers, chills, shakes or night sweats?
	Have you lost weight recently. Was it intentional?
NEUROLOGICAL	Have you noticed any new or growing lumps or bumps?
	Do you have any abnormal bleeding or bruising?
	Have you ever had a blood clot on the legs or the lungs?
	Have you ever had cancer?
	Do you get headaches?
	Have you ever had fits, faints or funny turns?
	Do you have memory problems?
	Do you get dizzy, woozy or lose your balance?
	Do you have hearing problems or ringing in the ears?
	Do you have any eye or vision problems?
	Have you ever had weakness or clumsiness in the arms or legs?
	Do you feel sad, depressed or have problems with your nerves?



**General**

- \_\_\_ Fatigue
- \_\_\_ Weight change
- \_\_\_ Fever
- \_\_\_ Chills
- \_\_\_ Night sweats

**Genitourinary**

- \_\_\_ Urinary frequency
- \_\_\_ Urine urgency
- \_\_\_ Pain on urination
- \_\_\_ Frequent urination at night
- \_\_\_ Blood in urine
- \_\_\_ Hx of kidney stones
- \_\_\_ Flank pain
- \_\_\_ STD hx
- \_\_\_ Genital lesions
- \_\_\_ Testicular mass or pain
- \_\_\_ Decreased libido
- \_\_\_ Loss of orgasms
- \_\_\_ Erectile dysfunction
- \_\_\_ Acute renal failure

**Pulmonary**

- \_\_\_ Shortness of breath
- \_\_\_ Cough
- \_\_\_ Sputum production
- \_\_\_ Chest pain or tightness
- \_\_\_ Coughing blood
- \_\_\_ Asthma
- \_\_\_ Bronchitis
- \_\_\_ Emphysema
- \_\_\_ Pneumonia hx
- \_\_\_ TB hx
- \_\_\_ Positive/Negative PPD hx
- \_\_\_ Smoking hx
- \_\_\_ Sleep study
- \_\_\_ CPAP
- \_\_\_ APAP
- \_\_\_ BiPAP
- \_\_\_ Nightmares
- \_\_\_ Night terrors
- \_\_\_ Parasomnia

**Cardiovascular**

- \_\_\_ Chest pain
- \_\_\_ Palpitations
- \_\_\_ Tachycardia
- \_\_\_ Shortness of breath at night
- \_\_\_ Swollen ankles
- \_\_\_ Leg cramps
- \_\_\_ Phlebitis
- \_\_\_ Hypertension
- \_\_\_ Rheumatic heart disease hx
- \_\_\_ Family hx of heart disease
- \_\_\_ Stress test
- \_\_\_ Echocardiogram
- \_\_\_ Angiography
- \_\_\_ Stent placement
- \_\_\_ Congestive heart failure
- \_\_\_ Cardiac ablation
- \_\_\_ Fainting
- \_\_\_ Paroxysmal nocturnal dyspnea

**Musculoskeletal**

- \_\_\_ Joint pain
- \_\_\_ Joint stiffness
- \_\_\_ Joint swelling
- \_\_\_ Muscle cramps
- \_\_\_ Muscle wasting
- \_\_\_ Muscle pain
- \_\_\_ Hx of fractures
- \_\_\_ Fibromyalgia
- \_\_\_ Gout
- \_\_\_ Lyme disease

**HEENT**

- \_\_\_ Hearing loss
- \_\_\_ Vertigo
- \_\_\_ Bloody nose
- \_\_\_ Hoarseness or voice change
- \_\_\_ Ear pain
- \_\_\_ Ear infection hx
- \_\_\_ Sinus/Nasal infection or discharge
- \_\_\_ Decreased auditory acuity
- \_\_\_ Tinnitus
- \_\_\_ Decreased visual acuity
- \_\_\_ Dry mouth

**Endocrine**

- \_\_\_ Hot or cold Intolerance
- \_\_\_ Thyroid problems
- \_\_\_ Neck Irradiation hx

**Gastrointestinal**

- \_\_\_ Nausea
- \_\_\_ Vomiting
- \_\_\_ Vomiting blood
- \_\_\_ Black tarry stools
- \_\_\_ Pain on swallowing
- \_\_\_ Heartburn
- \_\_\_ Abdominal pain
- \_\_\_ Abdominal swelling
- \_\_\_ Jaundice
- \_\_\_ Hepatitis hx
- \_\_\_ Blood in stools
- \_\_\_ Diarrhea
- \_\_\_ Constipation
- \_\_\_ Hernia
- \_\_\_ Hemorrhoids
- \_\_\_ Peptic ulcer disease
- \_\_\_ Gallbladder disease
- \_\_\_ Pancreatitis
- \_\_\_ GI surgery
- \_\_\_ Esophagogastroduodenoscopy
- \_\_\_ Colonoscopy
- \_\_\_ Hepatic ultrasound

**Skin**

- \_\_\_ Mole
- \_\_\_ Other lesion
- \_\_\_ Pruritus
- \_\_\_ Rash
- \_\_\_ Bruises
- \_\_\_ Contusions
- \_\_\_ Lacerations
- \_\_\_ Burns
- \_\_\_ Skin cancer hx

**Allergic/Immunologic**

- \_\_\_ Hay fever
- \_\_\_ Lupus

**Neurological**

- \_\_\_ Headache
- \_\_\_ Migraines
- \_\_\_ Unsteady while walking
- \_\_\_ Incoordination
- \_\_\_ Sense of spinning
- \_\_\_ Gait problems
- \_\_\_ Falls
- \_\_\_ Loss of consciousness
- \_\_\_ Seizures
- \_\_\_ Head injuries
- \_\_\_ Skull fracture
- \_\_\_ Focal weakness
- \_\_\_ Focal sensory change
- \_\_\_ Stroke hx
- \_\_\_ Chronic pain
- \_\_\_ Brain imaging
- \_\_\_ EEGs
- \_\_\_ Coma
- \_\_\_ Encephalitis
- \_\_\_ Chronic fatigue syndrome

**Hematopoietic**

- \_\_\_ Excessive bleeding
- \_\_\_ Anemia
- \_\_\_ Family history disorder
- \_\_\_ Swollen lymph nodes

**Gynecological**

- \_\_\_ Menopause
- \_\_\_ Onset of menstruation
- \_\_\_ Last menstrual period
- \_\_\_ Description of last menstrual period
- \_\_\_ Vaginal discharge or bleeding
- \_\_\_ Pelvic pain
- \_\_\_ Sexual dysfunction
- \_\_\_ Breast mass
- \_\_\_ Breast discharge
- \_\_\_ Last breast exam
- \_\_\_ Last mammogram
- \_\_\_ Pregnancy hx
- \_\_\_ Eclampsia/Pre-eclampsia
- \_\_\_ Post-partum depression

Hx = History



## Review of Systems

*Check Any That Apply*

<i>Do you have any of these OVERALL CONDITIONS?</i>		<i>Are you having problems with EARS, NOSE, OR THROAT?</i>		<i>Are you having any HEART-RELATED ISSUES?</i>	
Unable to transfer	<input type="checkbox"/>	Cold/Flu	<input type="checkbox"/>	Heart attack	<input type="checkbox"/>
Unable to walk without assistance	<input type="checkbox"/>	Loose teeth or wear dentures	<input type="checkbox"/>	Heart murmur	<input type="checkbox"/>
Unable to lie flat	<input type="checkbox"/>	Earaches	<input type="checkbox"/>	Pacemaker	<input type="checkbox"/>
Use supplemental oxygen	<input type="checkbox"/>	Hearing loss	<input type="checkbox"/>	Palpitations/fluttering	<input type="checkbox"/>
Other special needs (note below)	<input type="checkbox"/>	Ringing in the ears	<input type="checkbox"/>	High blood pressure	<input type="checkbox"/>
Headaches	<input type="checkbox"/>	Sinus problems	<input type="checkbox"/>	Rapid heart rate	<input type="checkbox"/>
Fatigue	<input type="checkbox"/>	Nasal congestion	<input type="checkbox"/>	Irregular heart rhythm	<input type="checkbox"/>
Weakness	<input type="checkbox"/>	Sore throat	<input type="checkbox"/>	Chest pain or pressure	<input type="checkbox"/>
Insomnia	<input type="checkbox"/>	Hoarseness	<input type="checkbox"/>	Shortness of breath	<input type="checkbox"/>
Weight gain/loss	<input type="checkbox"/>	Vertigo	<input type="checkbox"/>	Swelling hands, feet, ankles	<input type="checkbox"/>
Pregnant or possibly pregnant	<input type="checkbox"/>	Recurrent nose bleeds	<input type="checkbox"/>		
Night sweats	<input type="checkbox"/>	Difficulty swallowing	<input type="checkbox"/>		
Nursing a child	<input type="checkbox"/>		<input type="checkbox"/>		

<i>Are you having any RESPIRATORY PROBLEMS?</i>		<i>Are you having any INTESTINAL PROBLEMS?</i>		<i>Are you having any GENITAL/URINARY PROBLEMS?</i>	
Coughing Blood	<input type="checkbox"/>	Blood in Stools	<input type="checkbox"/>	Prostate problems	<input type="checkbox"/>
Chronic Cough	<input type="checkbox"/>	Stomach Pain	<input type="checkbox"/>	Frequent urination	<input type="checkbox"/>
Shortness of Breath	<input type="checkbox"/>	Black Tarry Stools	<input type="checkbox"/>	Blood in urine	<input type="checkbox"/>
Asthma	<input type="checkbox"/>	Constipation	<input type="checkbox"/>	Pain with urination	<input type="checkbox"/>
Bronchitis	<input type="checkbox"/>	Decreased Appetite	<input type="checkbox"/>	Urinary discharge	<input type="checkbox"/>
Emphysema	<input type="checkbox"/>	Diarrhea	<input type="checkbox"/>	Genital sores	<input type="checkbox"/>
Pneumonia	<input type="checkbox"/>	Food Intolerance	<input type="checkbox"/>	Abnormal menstruation	<input type="checkbox"/>
Tuberculosis	<input type="checkbox"/>	Heartburn	<input type="checkbox"/>		
		Jaundice	<input type="checkbox"/>		
		Nausea	<input type="checkbox"/>		
		Vomiting	<input type="checkbox"/>		

<i>Are you having any SKIN PROBLEMS?</i>		<i>Are you having any ENDOCRINE PROBLEMS?</i>		<i>Are you having any NEUROLOGIC PROBLEMS?</i>	
Skin rash	<input type="checkbox"/>	Enlarged glands in neck	<input type="checkbox"/>	Dementia	<input type="checkbox"/>
Abnormal lesions	<input type="checkbox"/>	Bulging eyes	<input type="checkbox"/>	Involuntary movements	<input type="checkbox"/>
Hives	<input type="checkbox"/>	Heat or cold intolerance	<input type="checkbox"/>	Balance problems	<input type="checkbox"/>
Sores	<input type="checkbox"/>	Increased thirst	<input type="checkbox"/>	Vertigo	<input type="checkbox"/>
	<input type="checkbox"/>	Increased urination	<input type="checkbox"/>	Fainting	<input type="checkbox"/>
				Memory problems	<input type="checkbox"/>
				Numbness of extremities	<input type="checkbox"/>
				Seizures	<input type="checkbox"/>
				Tingling	<input type="checkbox"/>
				Tremors	<input type="checkbox"/>

<i>Are you having any MENTAL HEALTH PROBLEMS?</i>		<i>Are you having any MUSCULOSKELETAL PROBLEMS?</i>		<i>Are you having any HEMATOLOGIC PROBLEMS?</i>	
Depression	<input type="checkbox"/>	Joint pain/stiffness/redness	<input type="checkbox"/>	Enlarged lymph nodes	<input type="checkbox"/>
Nervousness	<input type="checkbox"/>	Back pain	<input type="checkbox"/>	Tender lymph nodes	<input type="checkbox"/>
Tension/Irritability	<input type="checkbox"/>	Muscle pain	<input type="checkbox"/>	Easy bleeding or bruising	<input type="checkbox"/>
Excessively elevated mood	<input type="checkbox"/>	Muscle wasting	<input type="checkbox"/>	Blood transfusion	<input type="checkbox"/>
Hallucinations	<input type="checkbox"/>	Easily broken bones	<input type="checkbox"/>		

COMMENTS: \_\_\_\_\_

NAME: \_\_\_\_\_ DOB: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

# Social History:

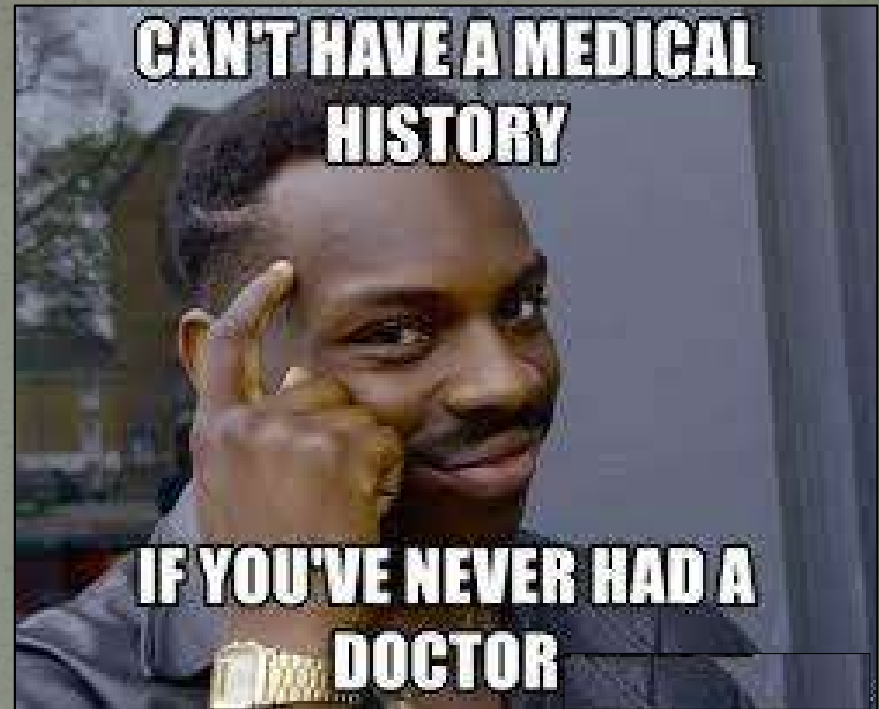
- Marital status and/or living arrangements
- Social class, race and religion
- Level of education
- Use of drugs, alcohol or tobacco
- Sexual history
- Life events
- Exercise habits (cardio, weights, stretching)
- Dietary habits
- Sleep patterns
- Water consumption
- Relaxation, recreational and hobby activities
- Other relevant social factors





# Past History:

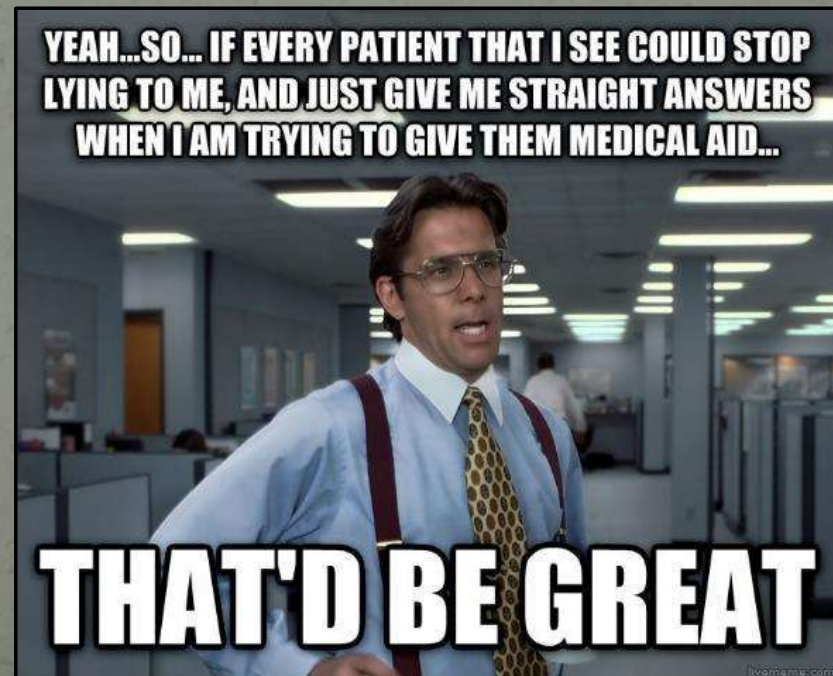
- Past illnesses
- Operations
- Hospitalizations
- Injuries
- Childhood illnesses
- Medication history
- Allergies
- Adult/childhood immunizations
- Treatments





# Family History

- Family history: age and health of siblings, parents, grandparents
- Medical events
- Hereditary diseases: cancer, cardiovascular, psychological, autoimmune diseases, orthopedic, neurological





# Occupational History:

- Job title
- Description of task/duties
- Employer and nature of the industry
- Duration of employment in each job
- Hours of work, including overtime and shift work
- Exposure to occupation hazards
- Provision use of personal protective equipment
- Sickness absence, especially for work related diseases or injury





# Establish a Diagnosis

One of the primary reasons for a history and exam is to establish a working diagnosis. This of course is important when you're billing insurance so you can submit the proper codes and also important to establish a starting point in the patient's records.



# Diagnosis? Be Careful

Once the DC has a diagnosis,  
often they will focus only on the diagnosis  
& not treat all the secondary issues.





## Determine a Prognosis

The history and exam will allow you to establish a proper prognosis.

It is important for the patient to know that the chiropractor has established a goal in terms of duration of care.

If at any point during care it appears as if the prognosis was inaccurate, then a reassessment, reevaluation and maybe a referral would all be potentially necessary.

## Determine Specific Care Plan

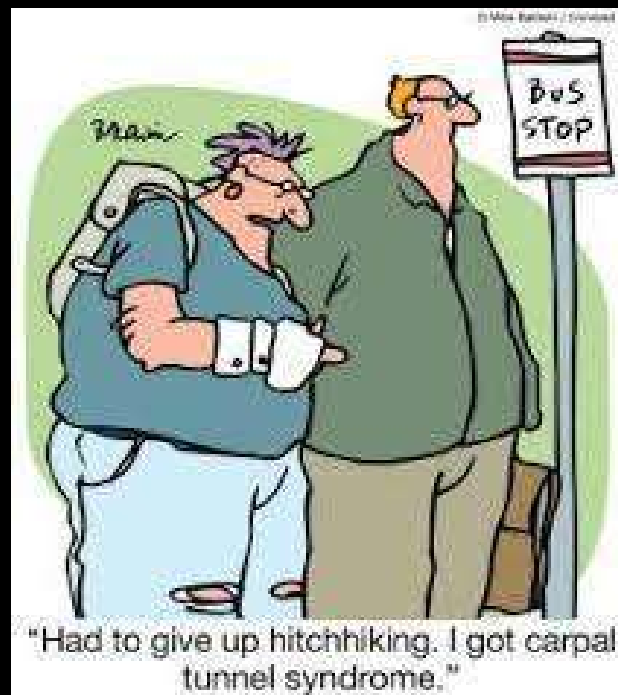
If the chiropractor takes an excellent history and exam, they can then write a customized specific care plan for each individual patient.



## Activity ~ What Do You See?

List the common pain conditions that you see  
in the wrist & hand.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”



# Adjunctive Procedures

The history & exam is important to determine what adjunctive procedures you may want to use, ie ice, heat, soft tissue work, electric stimulation, stretches, strengthening, etc.





# Ergonomics

What does the patient work do for work?

Does the patient sit all day or do they get up and move around, or lift heavy objects.

Do they have any if hobbies or activities that may be leading to their distress.



# The Cash Trap!

Many chiropractors that run a cash practice stop taking a proper history and exam. They have minimal documentation, as they feel they no longer need too do all that work.

Cash chiropractors still need to document just as if they were billing insurance, but without billing the insurance company.

A cash patient can easily become a PI or WC patient, and attorneys can request your records.

If the files are incomplete this may cause a complaint to The Board or further investigation!





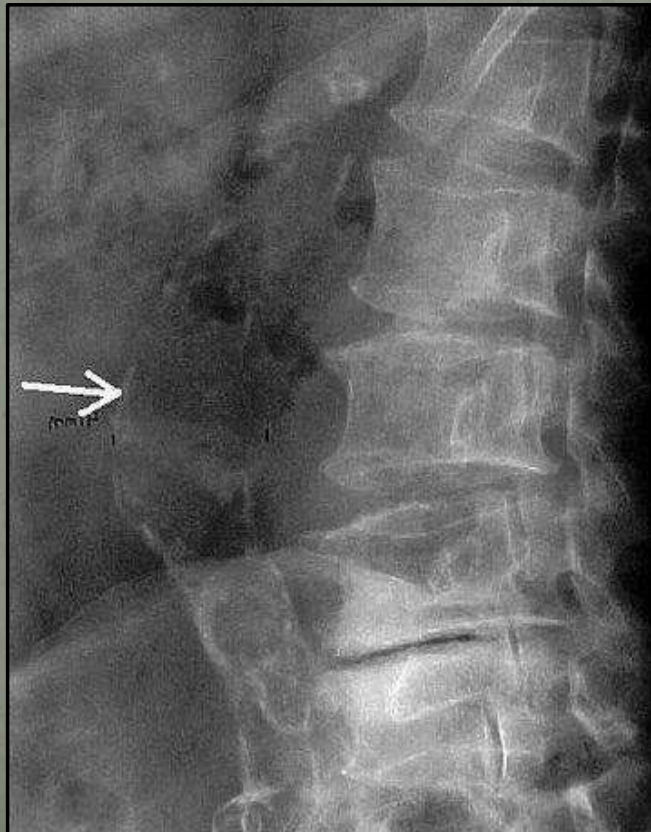
# Avoid Legal Action

Proper documentation is the key  
to your protection



Proper documentation and evidence that you've done your job is so important, as it can ultimately save you from a lawsuit. Even if you miss something, but you've done all the required exams within the scope of your practice you'll be okay.

**abdominal aortic aneurysm**





## Don't Miss Anything

One of the primary reasons chiropractors have complaints against them to The Board or lawsuits filed against them, is a lack of proper documentation, primarily a poor history & exam.



# History Taking

As we review the components of a proper history and exam there are a few things to remember or not forget, what I call:  
“In The Back Of My Mind”



These are ideas that may help you improve your history and exam skills, as well as improving your ability to explain chiropractic and increase your new patient retention.



## In The Back Of My Mind



### **The beginning (Part I)...** **Establishing the doctor.**

When a new patient has their initial exam always remember they may be unsure of your qualifications or skill set. Most people have NOT been to a DC, so it is paramount to establish yourself as the authority right away.

# In The Back Of My Mind



## **The beginning (Part I)... Establishing the doctor.**

### **Talk Over The Patients Head**

Impress the patient on that initial visit.

Let them know you are highly educated & DID NOT just attend a weekend course. Ask yourself how smart do you sound on a routine visit as often we deliver a quick adjustment and have a “friendly visit”? Use the chart on the next slide in you office so your patients can see the level of your education. I don’t want to sound negative, but remember most people have no idea of how much the DC knows!



Chiropractic Education Class Hours	Subject	Medical Education Class Hours
520	Anatomy	508
420	Physiology	326
271	Pathology	335
300	Chemistry	325
114	Bacteriology	130
370	Diagnosis	374
320	Neurology	112
217	X-Ray	148
65	Psychiatry	144
65	Obstetrics & Gynecology	198
225	Orthopedics	156
<b>2,887</b>	<b>TOTAL HOURS</b>	<b>2,756</b>
Adjusting, Manipulation, Kinesiology, and other similar basis subjects related to their specialty.	Other required subjects for doctors of medicine/doctors of chiropractic	Pharmacology, Immunology, general surgery, and other similar basic subjects related to their specialty.
<b>4,485</b>	<b>GRAND TOTAL CLASS HOURS</b>	<b>4,248</b>

## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the thoracic region.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”

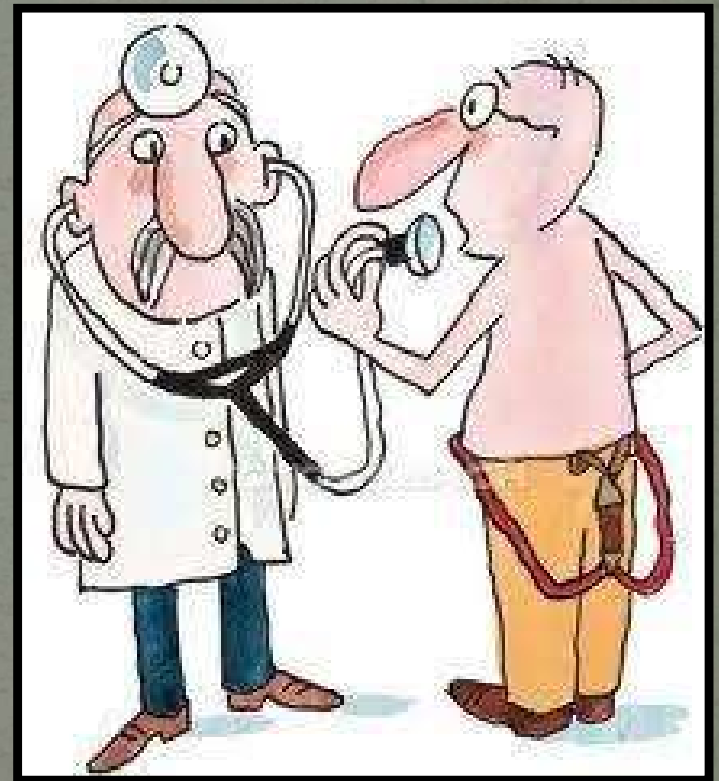




# In The Back Of My Mind



**Listen To The Patient First**  
It is easy to jump to a clinical conclusion too quickly.  
Complete the entire history,  
review it & then complete  
your exam & THEN  
make a clinical decision.



# In The Back Of My Mind



## The Patient Tells Us What's Wrong

About 70% of the time  
the patient will simply  
tell you what is wrong,  
so listen to them.

Ask them “what do you  
think it is”?



# Patient Tells You Everything?

Patients will only tell you what they think is important for the case.

They may leave out relevant information and/or forget events that are relevant.

It's important to let the patient know that any and every detail can be important, so don't leave anything out.



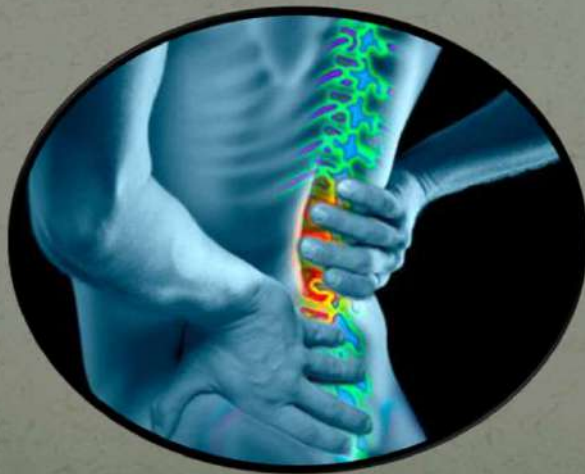
# In The Back Of My Mind



## Patients In Pain

When a patient is in pain remember they may be hard to understand and communicate with.

The patient can be unclear, distant, seem unstable and distracted.





# The RESPECT Model

## Rapport

- Connect on a social level
- See the patient's point of view
- Consciously attempt to suspend judgement
- Recognize and avoid making assumptions



## Empathy

- Remember that the patient has come to you for help
- Seek out and understand the patient's rationale for her behaviors or illness
- Verbally acknowledge and legitimize the patient's feelings

## Support

- Ask about and try to understand barriers to care and compliance
- Help the patient overcome barriers
- Involve family members if appropriate
- Reassure the patient you are and will be available to help

## Partnership

- Be flexible with regard to issues of control
- Negotiate roles when necessary
- Stress that you will be working together to address medical problems



## Explanations

- Check often for understanding
- Use verbal clarification techniques

## Cultural Competence

- Respect the patient and her culture and beliefs
- Know the patient's view of you may be defined by ethnic/cultural stereotypes
- Be aware of your own biases and preconceptions
- Know your limitations in addressing medical issues across cultures
- Understand your personal style and recognize when it may not be working

## Trust

- Self-disclosure may be an issue for some patients who are not accustomed to Western medical approaches
- Take the necessary time and consciously work to establish trust

# 5 Fundamentals of Patient Communication



Acknowledge	Being attentive and greeting the patient in a positive manner
Introduce	Giving your name, your role, and your skill set
Duration	Giving a reasonable time expectation
Explanation	Making sure the patient is knowledgeable and informed
Thank you	Showing appreciation to the patient for her cooperation

**Watch for odd behavior, this is  
your chance to refuse care!**



# How Does The Patient Feel

The patient's thought about the nature/cause of the problem

How does the patient feel about the issue

The patient's expectations of care

How this effects the patient's life

What has the patient done previously to help themselves



# Recording Data

Record ALL positive & negative data  
(remember documentation is the key)

Describe important negatives

If the data is not recorded it is lost

If you didn't do it, record that you didn't

If you did it, record it





# What Are You Thinking?

Eliminate conditions that don't fit the patient.

**Consider the patient's age.** Is the patient:

- 0 to 20 years of age
- 20 to 40 years of age
- 40 to 60 years of age
- older than 60

For example you would not think bony degeneration in a 10 year old, or immature growth plates in a 40 year old.

**Consider the patients sex.** There are obviously different pathologies for men and women.

**Consider the patients presentation.** Is the patient athletic or obese, depressed, introverted, etc.

## What's wrong? More Than One Thing?

Pts want to know what the problem is, what is wrong or what happened. Their paradigm is that there is a single isolated problem/cause and once we know what it is then we have a recipe for that particular problem.

The body is unfortunately not that simple. Often there is more than one thing wrong! More than one mechanism may be present and more than one type of pain may be detected in a pt. These can and will overlap.



# Occam's razor

"entities should not be multiplied beyond necessity"

"the simplest explanation is usually the best one"

The idea is attributed to English friar William of Ockham (c. 1287–1347). This philosophical razor advocates that when presented with competing hypotheses about the same prediction, one should select the solution with the fewest assumptions. The "razor" and its association with him may be due to the frequency and effectiveness with which he used it.



Occam's Razor: No more things should be presumed to exist than are absolutely necessary, i.e., the fewer assumptions an explanation of a phenomenon depends on, the better the explanation.

(William of Occam)

# In The Back Of My Mind

## **Horses vs Zebras**

In the US horses are more common than zebras. In a chiropractic office a repetitive micro-trauma is more common than a visceral or systemic pathology. So in your office think horses not zebras, remember the most common thing IS the most common. But don't forget the zebras!





# In The Back Of My Mind

## **Refer, be right?**

When you refer to another health care professional or for special tests (X-ray, MRI, blood tests, etc) your goal: be correct 70-80% of the time.

Why? The thought is if you are right 100% of the time you are likely missing some proper referrals.



## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the low back region.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”





# Avoid Excessive Treatment

An excellent history and exam is a good tool for providing a starting point in care. Once the patient has reached permanent and stationary status or maximal medical improvement status, we now have a marker for beginning wellness care.



## **How DCs Get In Trouble**

If the patient starts off as WC/PI/Ins/Cash symptomatic patient and the DC continues to treat/bill with no change over time, then it may be deemed as excessive treatment by not following the standard of care by the chiropractic community.

The insurance company or patient then could file a complaint. Once the patient reaches P&S or MMI status, then the patient must be released or CONVERTED over to wellness, (which means no longer billing for the initial injury).

**Be sure the patient is aware of & agrees to wellness care.  
Make sure there is a line in the sand in your notes & a signed acknowledgement is preferable.**

A finding of "permanent and stationary" means that, in the treating doctor's opinion, the patient has reached a point where the medical condition probably isn't going to improve.

The term maximal medical improvement means that the condition is stable and isn't likely to change substantially in the next year, with or without additional medical treatment.



# **Documentation of Wellness Care**

**This is a common question from DCs**

**For a wellness practice/patient there should be the exact same documentation/record keeping that you would have with a symptomatic patient:**

**Initial intake form,  
ortho/neuro/chiropractic exam with all findings,  
(this includes the negative findings), SOAP notes for each visit  
and regular re-evals.**

**We want documentation that you have maintained and/or improved the exam findings and/or other health factors.**

**Examples: ROM has been maintained/improved, prevention of reoccurrence of LBP, less stress, fewer sick days, better sleep, etc**

**What else could be on this list?**

**RAND 12 or RAND 36 are wellness surveys that you could use**

# Wellness History Questionnaire

Please score yourself from 1 to 10 below in each health category and then indicate if you are interested in receiving help in these areas. You can select as many or as few as you like.

**Energy level: 1 2 3 4 5 6 7 8 9 10 (1 low energy, 10 high energy)**

**I would like help and/or info on increasing my energy level: Yes No**

**Diet and nutrition: 1 2 3 4 5 6 7 8 9 10 (1 horrible diet, 10 excellent diet)**

**I would like help and/or info on improving my diet and nutrition: Yes No**

**Exercise program: 1 2 3 4 5 6 7 8 9 10 (1 horrible exercise habits, 10 excellent habits)**

**I would like help and/or info on exercise: Yes No**

**Ability to sleep well: 1 2 3 4 5 6 7 8 9 10 (1 horrible sleeper, 10 excellent sleeper)**

**I would like help and/or info on getting a good night's sleep: Yes No**



**Stress level: 1 2 3 4 5 6 7 8 9 10 (1 no stress at all, 10 extreme stress)**

**I would like help and/or info on decreasing my stress: Yes No**

**Flexibility: 1 2 3 4 5 6 7 8 9 10 (1 no flexibility, 10 super flexible)**

**I would like help and/or info on increasing my flexibility: Yes No**

**Posture: 1 2 3 4 5 6 7 8 9 10 (1 poor posture, 10 perfect posture)**

**I would like help and/or info on improving my posture: Yes No**

**Breathing: 1 2 3 4 5 6 7 8 9 10 (1 poor breather, 10 good breather)**

**I would like help and/or info on improving my breathing: Yes No**

**Blood pressure: 1 2 3 4 5 6 7 8 9 10 (1 poor blood pressure, 10 normal blood pressure)**

**I would like help and/or info on improving blood pressure: Yes No**

**Add as many as you like!**

# These next two are super important as they matter the **MOST** to the patient.

**Daily Activities: 1 2 3 4 5 6 7 8 9 10 (1 unable to perform, 10 able to perform)**

**(ex: house chores, driving distance, sitting extended period, etc)**

**I would like help and/or info on improving my ability to perform daily activities: Yes No**

**Please list 5 activities of daily living you can't perform at 100% (ex: house chores, driving distance, sitting extended period, etc)**

- 1.
- 2.
- 3.
- 4.
- 5.





**Enjoyable Activities: 1 2 3 4 5 6 7 8 9 10 (1 unable to perform, 10 able to perform)**

**(ex: golf, gardening, play with kids)**

**I'd like help and/or info on improving my ability to perform enjoyable activities: Yes No**

**Please list 5 activities that you really enjoy that you can't perform at 100% (ex: golf, gardening, play with kids)**

- 1.
- 2.
- 3.
- 4.
- 5.



# Here is a sample of the Wellness Re-Eval Form

## Follow-up Health Evaluation      Date \_\_\_\_\_

Please circle Increased/Decreased or Improved/Worsened in each health category and write in by what percent.

**Neck pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**Mid-back/rib cage pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**Low back pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**Shoulder pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%



# RAND Wellness Survey

## RAND 36-Item Health Survey 1.0 Questionnaire Items

Choose one option for each questionnaire item.

1. In general, would you say your health is:

- ☐ 1 - Excellent
- ☐ 2 - Very good
- ☐ 3 - Good
- ☐ 4 - Fair
- ☐ 5 - Poor

2. **Compared to one year ago**, how would you rate your health in general **now**?

- ☐ 1 - Much better now than one year ago
- ☐ 2 - Somewhat better now than one year ago
- ☐ 3 - About the same
- ☐ 4 - Somewhat worse now than one year ago
- ☐ 5 - Much worse now than one year ago



The following items are about activities you might do during a typical day. Does **your health now limit you** in these activities? If so, how much?

97

	Yes, limited a lot	Yes, limited a little	No, not limited at all
3. <b>Vigorous activities</b> , such as running, lifting heavy objects, participating in strenuous sports	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
4. <b>Moderate activities</b> , such as moving a table, pushing a vacuum cleaner, bowling, or playing golf	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
5. Lifting or carrying groceries	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
6. Climbing <b>several</b> flights of stairs	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
7. Climbing <b>one</b> flight of stairs	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
8. Bending, kneeling, or stooping	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
9. Walking <b>more than a mile</b>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
10. Walking <b>several blocks</b>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
11. Walking <b>one block</b>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
12. Bathing or dressing yourself	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3

During the **past 4 weeks**, have you had any of the following problems with your work or other regular daily activities **as a result of your physical health?**

- |   | Yes                     | No                      |
|---|-------------------------|-------------------------|
| 13. Cut down the <b>amount of time</b> you spent on work or other activities                          | <input type="radio"/> 1 | <input type="radio"/> 2 |
| 14. <b>Accomplished less</b> than you would like  | <input type="radio"/> 1 | <input type="radio"/> 2 |
| 15. Were limited in the <b>kind</b> of work or other activities                                       | <input type="radio"/> 1 | <input type="radio"/> 2 |
| 16. Had <b>difficulty</b> performing the work or other activities (for example, it took extra effort) | <input type="radio"/> 1 | <input type="radio"/> 2 |



During the **past 4 weeks**, have you had any of the following problems with your work or other regular daily activities **as a result of any emotional problems** (such as feeling depressed or anxious)?

- |  | Yes                     | No                      |
|--|-------------------------|-------------------------|
| 17. Cut down the <b>amount of time</b> you spent on work or other activities | <input type="radio"/> 1 | <input type="radio"/> 2 |
| 18. <b>Accomplished less</b> than you would like                             | <input type="radio"/> 1 | <input type="radio"/> 2 |
| 19. Didn't do work or other activities as <b>carefully</b> as usual          | <input type="radio"/> 1 | <input type="radio"/> 2 |

20. During the **past 4 weeks**, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

- ☐ 1 - Not at all
- ☐ 2 - Slightly
- ☐ 3 - Moderately
- ☐ 4 - Quite a bit
- ☐ 5 - Extremely



21. How much **bodily** pain have you had during the **past 4 weeks**?

- ☐ 1 - None
- ☐ 2 - Very mild
- ☐ 3 - Mild
- ☐ 4 - Moderate
- ☐ 5 - Severe
- ☐ 6 - Very severe

22. During the **past 4 weeks**, how much did **pain** interfere with your normal work (including both work outside the home and housework)?

- ☐ 1 - Not at all
- ☐ 2 - A little bit
- ☐ 3 - Moderately
- ☐ 4 - Quite a bit
- ☐ 5 - Extremely

These questions are about how you feel and how things have been with you **during the past 4 weeks**. For each question, please give the one answer that comes closest to the way you have been feeling.

How much of the time during the **past 4 weeks**...

	All of the time	Most of the time	A good bit of the time	Some of the time	A little of the time	None of the time
23. Did you feel full of pep?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
24. Have you been a very nervous person?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
25. Have you felt so down in the dumps that nothing could cheer you up?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
26. Have you felt calm and peaceful?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
27. Did you have a lot of energy?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
28. Have you felt downhearted and blue?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
29. Did you feel worn out?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
30. Have you been a happy person?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
31. Did you feel tired?	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6



32. During the **past 4 weeks**, how much of the time has **your physical health or emotional problems** interfered with your social activities (like visiting with friends, relatives, etc.)?

- ☐ 1 - All of the time
- ☐ 2 - Most of the time
- ☐ 3 - Some of the time
- ☐ 4 - A little of the time
- ☐ 5 - None of the time

How TRUE or FALSE is **each** of the following statements for you.

	Definitely true	Mostly true	Don't know	Mostly false	Definitely false
33. I seem to get sick a little easier than other people	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
34. I am as healthy as anybody I know	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
35. I expect my health to get worse	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
36. My health is excellent	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5

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[https://www.rand.org/health-care/surveys\\_tools/mos/36-item-short-form/survey-instrument.html](https://www.rand.org/health-care/surveys_tools/mos/36-item-short-form/survey-instrument.html)

Link is on Free Materials Page

## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the hip joint region.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”





# History Taking

## The Beginning

### Area of chief complaint

On your intake form you likely have new patients mark areas where they hurt or have symptoms. This is the area of chief complaint and/or the injury site and the focus of the history and exam.



## In The Back Of My Mind



### **Area of chief complaint**

In chiropractic some DC's focus on symptoms and some not as much. With a new patient always remember they ARE focused on pain. Be careful saying things like "we are not symptom based" or "pain is not our primary concern". This may turn a patient off and they may not come back.

Please circle Increased/Decreased or Improved/Worsened in each health category and write in by what percent.

**Elbow pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**Wrist/hand pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**SI joint pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**Hip joint pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**Knee pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%

**Ankle/foot pain: 1 2 3 4 5 6 7 8 9 10 (1 no pain at all, 10 extreme pain)**

Increased or Decreased by \_\_\_\_\_%



**Energy level: 1 2 3 4 5 6 7 8 9 10 (1 low energy, 10 high energy)**

**Increased or Decreased by \_\_\_\_\_%**

**Diet and nutrition: 1 2 3 4 5 6 7 8 9 10 (1 horrible diet, 10 excellent diet)**

**Increased or Decreased by \_\_\_\_\_%**

**Exercise program: 1 2 3 4 5 6 7 8 9 10 (1 horrible exercise habits, 10 excellent habits)**

**Increased or Decreased by \_\_\_\_\_%**

**Ability to sleep well: 1 2 3 4 5 6 7 8 9 10 (1 horrible sleeper, 10 excellent sleeper)**

**Increased or Decreased by \_\_\_\_\_%**

**Stress level: 1 2 3 4 5 6 7 8 9 10 (1 no stress at all, 10 extreme stress)**

**Increased or Decreased by \_\_\_\_\_%**

**Flexibility: 1 2 3 4 5 6 7 8 9 10 (1 no flexibility, 10 super flexible)**

**Increased or Decreased by \_\_\_\_\_%**

**Add as many as you like!**

**Score the activities of daily living that you put on your initial health form by % Improved or Worsened.**

- 1.
- 2.
- 3.
- 4.
- 5.

**Score the activities you really enjoy that you put on your initial health form by % Improved or Worsened.**

- 1.
- 2.
- 3.
- 4.
- 5.



**OPQRST** is a simple mnemonic to use when taking the patient's history. Each letter represents an important question, to illicit a subjective response from the patient. This will allow the DC to make the proper assessment.





# O = Onset

Onset of the injury. The goal is to understand if the injury is from a specific trauma or repetitive micro-trauma and if the injury is acute or chronic. Was there a specific date that the injury/pain began? Was there a specific moment/event that occurred? What if anything were they doing and if so how did it happen? The MOI (mechanism of injury) can give you an idea of how badly they are hurt, which gives you needed information to start to formulate a care plan and prognosis.



# Activity

List things that can cause sudden onset of pain



# Activity

List things that can cause sudden onset of pain

- Macro-trauma, accidents
- Vascular events





# Activity

List things that can cause slow insidious onset



# Activity

List things that can cause slow insidious onset

- Repetitive micro-trauma
- cancer
- diabetes
- chronic musculoskeletal conditions
- bony, disc degeneration
- visceral pathologies
- headaches



# Red flags for possible spinal pathology or nerve root problems

## **Red flags**

- Onset age  $< 20$  or  $> 55$  years
- Non-mechanical pain (unrelated to time or activity)
- Thoracic pain
- Previous history of carcinoma, steroids, HIV
- Feeling unwell
- Weight loss
- Widespread neurological symptoms
- Structural spinal deformity

## **Indicators for nerve root problems**

- Unilateral leg pain  $>$  low back pain
- Radiates to foot or toes
- Numbness and paraesthesia in same distribution
- Straight leg raising test induces more leg pain
- Localised neurology (limited to one nerve root)



# Differential diagnosis for thoracic back pain

- Uncomplicated musculoskeletal back pain
- Spinal cord and nerve root pathology (e.g., disk herniation, tumor, hematoma)
- Vertebral column disease (e.g., primary or metastatic malignancy, osteomyelitis)
- Disk infection
- Primary neurologic disease
- Degenerative and autoimmune arthropathies
- Herpes zoster
- Vascular disease (e.g., thoracic aortic dissection, acute coronary syndrome, pulmonary embolism)
- Thoracic cavity pathology (e.g., pleuritis, pericarditis, pneumonia, esophageal pathology)
- Intraperitoneal and retroperitoneal abdominal pathology (e.g., peptic ulcer disease, pancreatitis, hepatobiliary disease)



# DDX for the thoracics

## Evaluation/Intervention Component 4: intervention strategies for patients with neck pain

Neck Pain With Mobility Deficits	Neck Pain With Movement Coordination Impairments (WAD)	Neck Pain With Headache (Cervicogenic)	Neck Pain With Radiating Pain (Radicular)
<p><b>Acute</b></p> <ul style="list-style-type: none"> <li>• Thoracic manipulation</li> <li>• Cervical mobilization or manipulation</li> <li>• Cervical ROM, stretching, and isometric strengthening exercise</li> <li>• Advice to stay active plus home cervical ROM and isometric exercise</li> <li>• Supervised exercise, including cervicospulothoracic and upper extremity stretching, strengthening, and endurance training</li> <li>• General fitness training (stay active)</li> </ul> <p><b>Subacute</b></p> <ul style="list-style-type: none"> <li>• Cervical mobilization or manipulation</li> <li>• Thoracic manipulation</li> <li>• Cervicospulothoracic endurance exercise</li> </ul> <p><b>Chronic</b></p> <ul style="list-style-type: none"> <li>• Thoracic manipulation</li> <li>• Cervical mobilization</li> <li>• Combined cervicospulothoracic exercise plus mobilization or manipulation</li> <li>• Mixed exercise for cervicospulothoracic regions—neuromuscular exercise: coordination, proprioception, and postural training; stretching; strengthening; endurance training; aerobic conditioning; and cognitive affective elements</li> <li>• Supervised individualized exercises</li> <li>• "Stay active" lifestyle approaches</li> <li>• Dry needling, low-level laser, pulsed or high-power ultrasound, intermittent mechanical traction, repetitive brain stimulation, TENS, electrical muscle stimulation</li> </ul>	<p><b>Acute if prognosis is for a quick and early recovery</b></p> <ul style="list-style-type: none"> <li>• Education: advice to remain active, act as usual</li> <li>• Home exercise: pain-free cervical ROM and postural element</li> <li>• Monitor for acceptable progress</li> <li>• Minimize collar use</li> </ul> <p><b>Subacute if prognosis is for a prolonged recovery trajectory</b></p> <ul style="list-style-type: none"> <li>• Education: activation and counseling</li> <li>• Combined exercise: active cervical ROM and isometric low-load strengthening plus manual therapy (cervical mobilization or manipulation) plus physical agents: ice, heat, TENS</li> <li>• Supervised exercise: active cervical ROM or stretching, strengthening, endurance, neuromuscular exercise including postural, coordination, and stabilization elements</li> </ul> <p><b>Chronic</b></p> <ul style="list-style-type: none"> <li>• Education: prognosis, encouragement, reassurance, pain management</li> <li>• Cervical mobilization plus individualized progressive exercise: low-load cervicospulothoracic strengthening, endurance, flexibility, functional training using cognitive behavioral therapy principles, vestibular rehabilitation, eye-head-neck coordination, and neuromuscular coordination elements</li> <li>• TENS</li> </ul>	<p><b>Acute</b></p> <ul style="list-style-type: none"> <li>• Exercise: C1-2 self-SNAG</li> </ul> <p><b>Subacute</b></p> <ul style="list-style-type: none"> <li>• Cervical manipulation and mobilization</li> <li>• Exercise: C1-2 self-SNAG</li> </ul> <p><b>Chronic</b></p> <ul style="list-style-type: none"> <li>• Cervical manipulation</li> <li>• Cervical and thoracic manipulation</li> <li>• Exercise for cervical and scapulothoracic region: strengthening and endurance exercise with neuromuscular training, including motor control and biofeedback elements</li> <li>• Combined manual therapy (mobilization or manipulation) plus exercise (stretching, strengthening, and endurance training elements)</li> </ul>	<p><b>Acute</b></p> <ul style="list-style-type: none"> <li>• Exercise: mobilizing and stabilizing elements</li> <li>• Low-level laser</li> <li>• Possible short-term collar use</li> </ul> <p><b>Chronic</b></p> <ul style="list-style-type: none"> <li>• Combined exercise: stretching and strengthening elements plus manual therapy for cervical and thoracic region: mobilization or manipulation</li> <li>• Education counseling to encourage participation in occupational and exercise activity</li> <li>• Intermittent traction</li> </ul>

# Differential Diagnosis of Low Back Pain

- **Mechanical low back pain (97%)**
- Lumbar strain or sprain ( $\geq 70\%$ ) Diffuse pain in lumbar muscles; some radiation to buttocks
- Degenerative disk or facet process (10%) Localized lumbar pain; similar findings to lumbar strain
- Herniated disk (4%) Leg pain often worse than back pain; pain radiating below knee
- Osteoporotic compression fracture (4%) Spine tenderness; often history of trauma
- Spinal stenosis (3%) Pain better when spine is flexed or when seated, aggravated by walking downhill more than uphill; symptoms often bilateral
- Spondylolisthesis (2%) Pain with activity, usually better with rest; usually detected with imaging; controversial as cause of significant pain



# Differential Dx of Chronic Low Back Pain

## **Nonspecific or idiopathic (70 percent)**

Lumbar sprain or strain

## **Mechanical (27 percent)**

Degenerative processes of disks and facets

Herniated disk

Osteoporotic fracture\*

Spinal stenosis

Traumatic fracture\*

Congenital disease

Severe kyphosis

Severe scoliosis

Transitional vertebrae

Spondylosis

Internal disk disruption or discogenic pain

Presumed instability

## **Referred pain (2 percent)**

Aortic aneurysm

Diseases of the pelvic organs

Prostatitis

Endometriosis

Chronic pelvic inflammatory disease

Gastrointestinal disease

Pancreatitis

Cholecystitis

Penetrating ulcer

Renal disease

Nephrolithiasis

Pyelonephritis\*

Perinephric abscess\*

## **Nonmechanical (1 percent)**

Neoplasia

Multiple myeloma

Metastatic carcinoma

Lymphoma and leukemia

Spinal cord tumors

Retroperitoneal tumors

Primary vertebral tumors

Inflammatory arthritis, often associated with human leukocyte antigen-B27

Ankylosing spondylitis

Psoriatic spondylitis

Reiter syndrome

Inflammatory bowel disease

Infection\*

Osteomyelitis

Septic diskitis

Paraspinous abscess

Epidural abscess

Shingles

Scheuermann disease (osteochondrosis)

Paget disease of bone

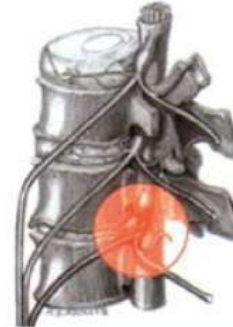
**PATTERN 1**  
Commonly called  
Disc Pain



**PATTERN 2**  
Commonly called  
Facet Joint Pain



**PATTERN 3**  
Commonly called  
Pinched Nerve



**PATTERN 4**  
Commonly called  
Spinal Stenosis



**STEP 1**

Where is your  
pain located?

Pain is worst in the  
back. May spread to  
the buttocks or legs

Pain is worst in the  
back. May spread to  
the buttocks or legs.

Pain is worst in the  
leg, although back  
pain may be present.

Pain is worst in the  
leg(s), described as  
heaviness or aching.

**STEP 2**

How often are  
you in pain?

Pain is usually  
intermittent but may  
be constant with  
varying intensity  
throughout the day.

Pain is always  
intermittent.

Pain is usually  
constant.

Pain is intermittent  
and occurs with  
activity.

**STEP 3**

What makes your  
pain worse?

Pain is made worse  
by sitting and by  
bending forward.

Pain is made worse by  
bending backwards  
and standing or  
walking for long  
periods of time.

Pain is often made  
worse by sitting and  
bending, but can also  
be made worse by  
backward movement  
in the acute stage.

Symptoms are made  
worse by activity.  
Walking for more than  
a few minutes makes  
the legs feel achy  
and weak.

**STEP 4**

What makes your  
pain better?

Pain is eased by  
performing a sloppy  
pushup. It is better to  
walk than to stand,  
and stand than to sit.

Pain is eased by  
bending forward or  
sitting.

Pain is eased by  
laying face down or  
on the back with a  
pillow under your  
knees.

Symptoms are  
relieved by a change  
in position, such as  
bending forward  
or sitting.



# MECHANICAL BACK PAIN

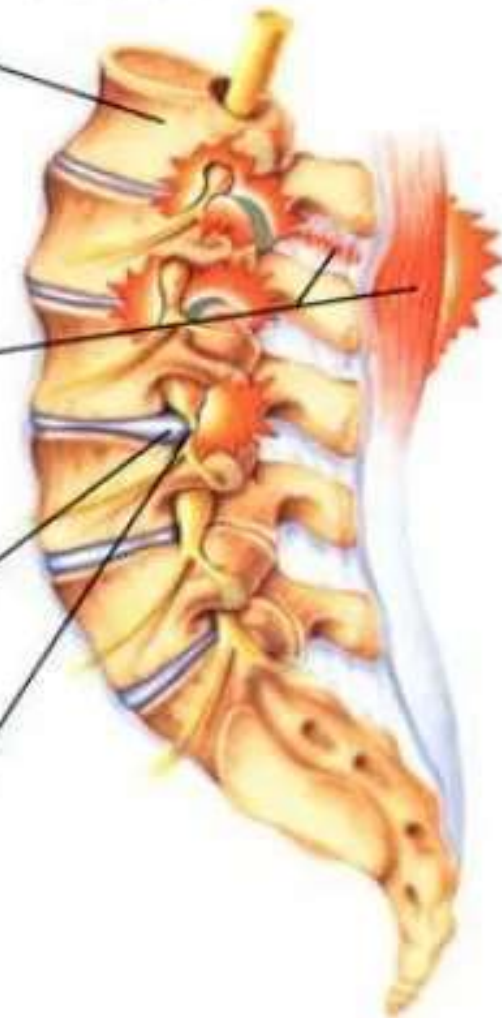
- ***Muscle, ligament, tendon strain***
- Discogenic disorders including herniated disc
- Apophyseal joint arthritis
- Spinal stenosis
- Spondylolysis, spondylolisthesis
- Scoliosis

**Vertebrae** are bones that protect your spinal cord. They can be forced or locked out of their proper positions (**mis-aligned**).

**Ligaments and muscles** are supportive tissues that can be stretched, torn, or weakened.

**Discs** are shock absorbers that can bulge, rupture, or wear down.

**Nerves**, which carry the body's messages, can get stretched, pinched, or irritated.





### Characteristics of Different Pain Types

	Nociceptive Pain		Neuropathic Pain
	Somatic Pain	Visceral Pain	
Location	Localized	Generalized	Radiating or specific
Patient Description	Pinprick, stabbing, or sharp	Ache, pressure, or sharp	Burning, prickling, tingling, electric shock-like, or lancinating
Mechanism of Pain	A-delta fiber activity Located in the periphery	C Fiber activity Involved deeper innervation	Dermatomal (periphery), or non-dermatomal (central)
Clinical Examples	<ul style="list-style-type: none"> <li>• Periosteum, joints, muscles</li> <li>• Sickle cell</li> <li>• Superficial laceration</li> <li>• Superficial burns</li> <li>• Intramuscular injections, venous access</li> <li>• Otitis media</li> <li>• Stomatitis</li> <li>• Extensive abrasion</li> </ul>	<ul style="list-style-type: none"> <li>• Colic spasm pain</li> <li>• Appendicitis</li> <li>• Kidney stone</li> <li>• Chronic pancreatitis</li> <li>• IBS</li> <li>• Angina</li> <li>• Menstrual cramps</li> </ul>	<ul style="list-style-type: none"> <li>• Trigeminal neuralgia</li> <li>• Avulsion neuralgia</li> <li>• Posttraumatic neuralgia</li> <li>• Peripheral neuropathy (diabetes, HIV)</li> <li>• Limb amputation</li> <li>• Herpetic neuralgia</li> </ul>

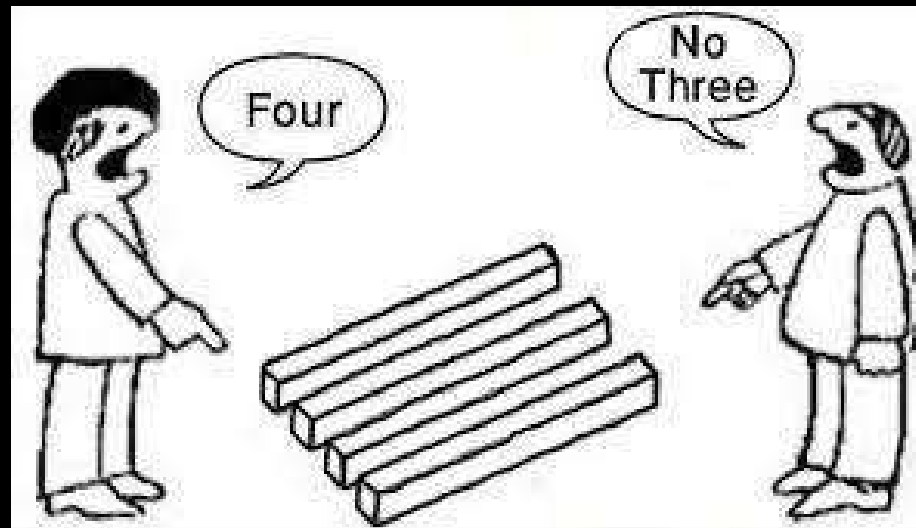
# ACUTE VS CHRONIC PAIN

	Acute pain	Chronic pain
Onset & timing	Sudden, short duration Resolves /disappears when tissue heals	Insidious onset Pain persists despite tissue healing
Signal	Warning sign of actual or potential tissue damage	Not a warning signal of damage False alarm
Severity	Correlates with amount of damage	Severity not correlated with damage
CNS involvement	CNS intact- acute pain is a symptoms	CNS may be dysfunctional- chronic pain is a disease
Psychological effects	Less, but unrelieved pain → anxiety and sleeplessness (improves when pain is relieved)	Often associate with depression, anger, fear, social withdrawal etc.

## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the pelvic region.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”



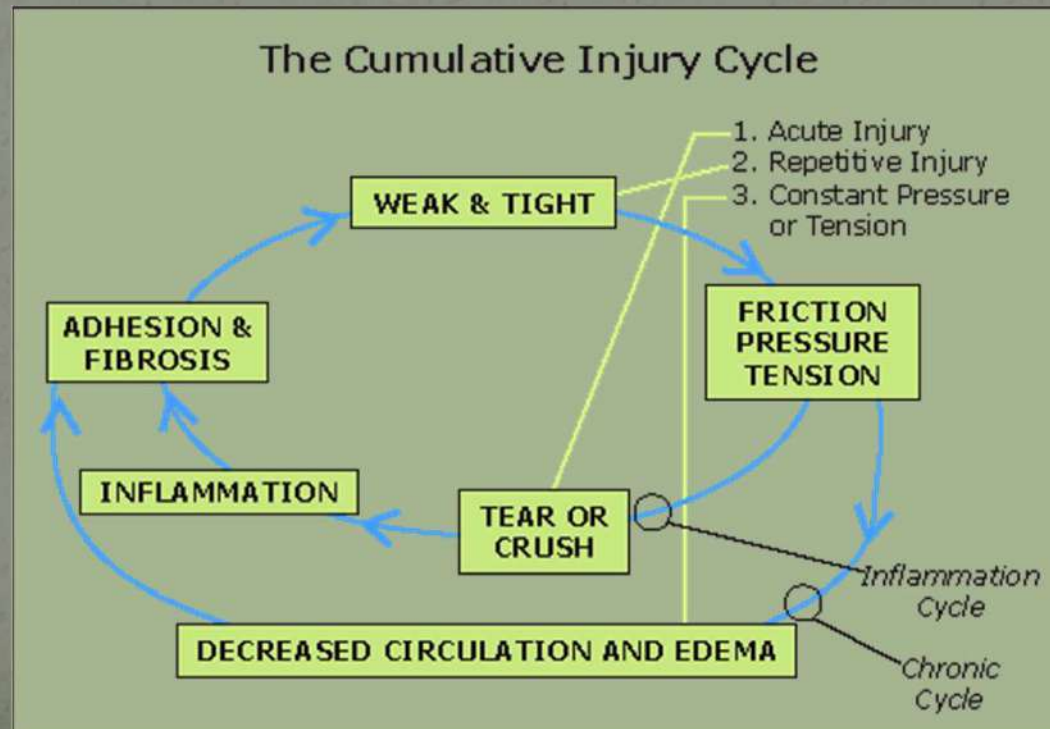


# In The Back Of My Mind



## **Repetitive Micro-Trauma (RMT)**

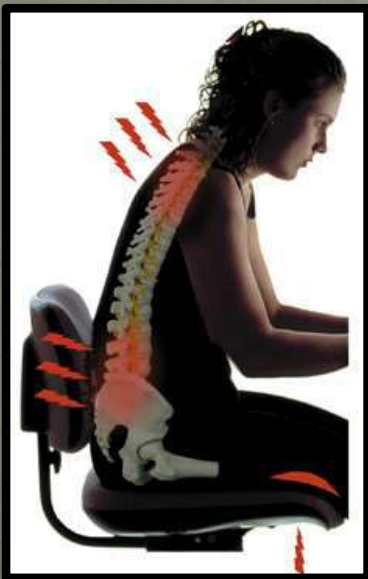
Most new patients have chronic RMT and say: “nothing happened, I didn’t do anything wrong”. This is confusing for the patient as most are unfamiliar with RMT. Use the demonstration on the next slide to help explain to the patient the mechanism of RMT.



# Patient Education: Demonstration

## Trapezius Tension

Have your pt palpate your traps first with good posture and then as you pretend to: drive, cook, brush your teeth, use a mouse, read, etc. They will experience the immediate tightness of the traps. Now explain what happens when this occurs for an extended period of time. This may also be done in the low back. Have the patient with their hand splayed out over your low back muscles. Then just repeat the above and they can feel the immediate tightness in the low back muscles.





## **P = Palliation/Provocation**

Palliation: What makes it better?

Provocation: What makes it worse?

These questions help determine whether a body position, body movement, rest, ice, heat, pressure, medications, home remedies, stretching, etc. make the problem feel better or worse.

These questions and responses will help identify the severity, if the problem is acute or chronic, and the possible approach to the care plan, (aggressive or not).

Also ask if they have been to other health care providers including chiropractors for this problem and if that made it better or worse or no change. This will help guide you in you own care plan and avoid repeating things that have not worked, and perhaps trying something different.



## **Q = Quality**

Ask the pt to describe their discomfort or pain.

The description can give you information that will help you with your diagnosis, care plan and prognosis.

Possible qualities:

sharp, dull, crushing, burning, tearing, numbness, tingling, itching, etc.

# Activity

List things that can cause sharp pain



# Activity

List things that can cause sharp pain

- sudden onset
- vascular issues
- neurological issues
- infection: viral or bacterial
- stroke
- aneurysm
- acute muscular spasm, cramping
- acute inflammatory exudate: IE sprain, strain
- trauma broken bone, direct blows, sharp objects
- torn tissue IE ligaments, tendons, muscles, fascia
- obstructions IE kidney stones, bowel obstructions





# Activity

List things that can cause dull pain



# Activity

List things that can cause dull pain

- chronic musculoskeletal conditions
- bony, disc degeneration
- visceral pathologies
- headaches



# Classification of Pain

**Nociceptive:** normal response to noxious insult or injury of tissues: skin, muscles, visceral organs, joints, tendons, or bones.

Examples:

Somatic: musculoskeletal (jt pain, myofascial pain), cutaneous; often well localized

Visceral: hollow organs and smooth muscle; usually referred

**Neuropathic:** pain initiated or caused by a primary lesion or disease in the somatosensory nervous system.

Sensory abnormalities range from deficits perceived as numbness to hypersensitivity (hyperalgesia or allodynia), and to paresthesias such as tingling.

Examples:

diabetic neuropathy, spinal cord injury pain, phantom limb (post-amputation) pain, and post-stroke central pain.

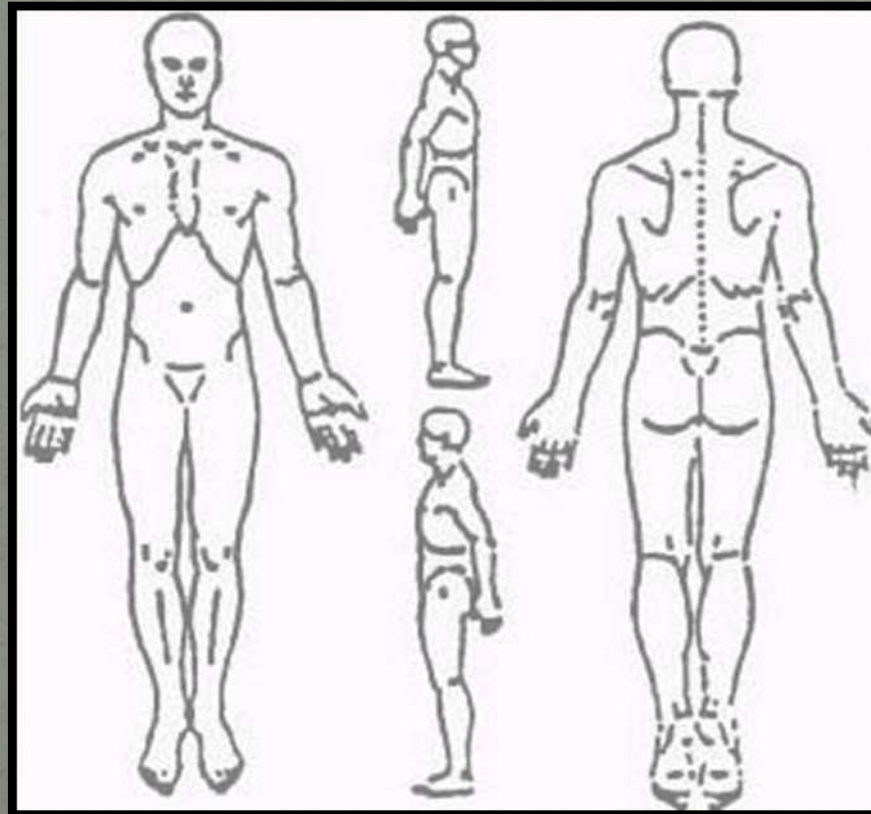
**Inflammatory:** activation and sensitization of the nociceptive pain pathway by chemical mediators released during inflammatory process.

Classic signs of acute inflammation: Dolor (pain), Calor (heat), Rubor (redness), Tumor (swelling), Functio laesa (loss of function)



## R = Region

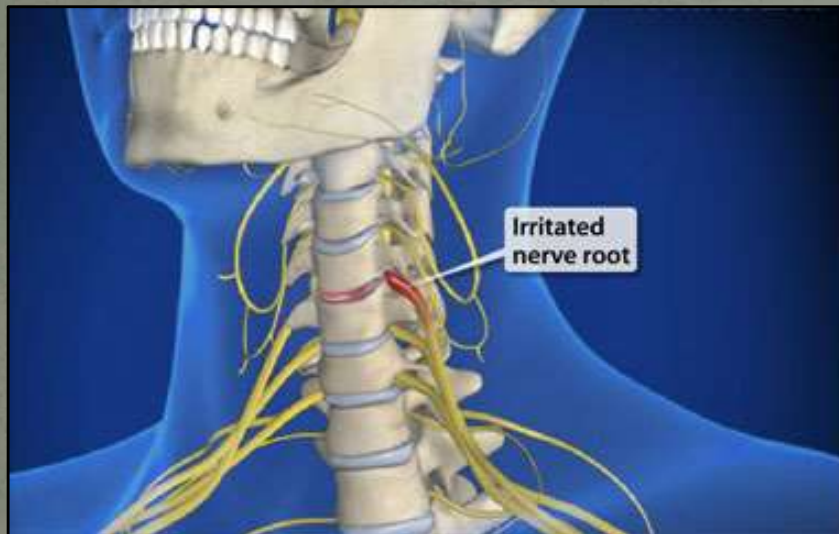
Which region of the body are the symptoms expressed?  
Have the pt indicate this on the initial intake form with a diagram of a generic body with anterior, posterior and lateral views to document for pt's records.



# R = Radiating

Do the symptoms/pain radiate to any other area?

Does it radiate down an upper or lower extremity?



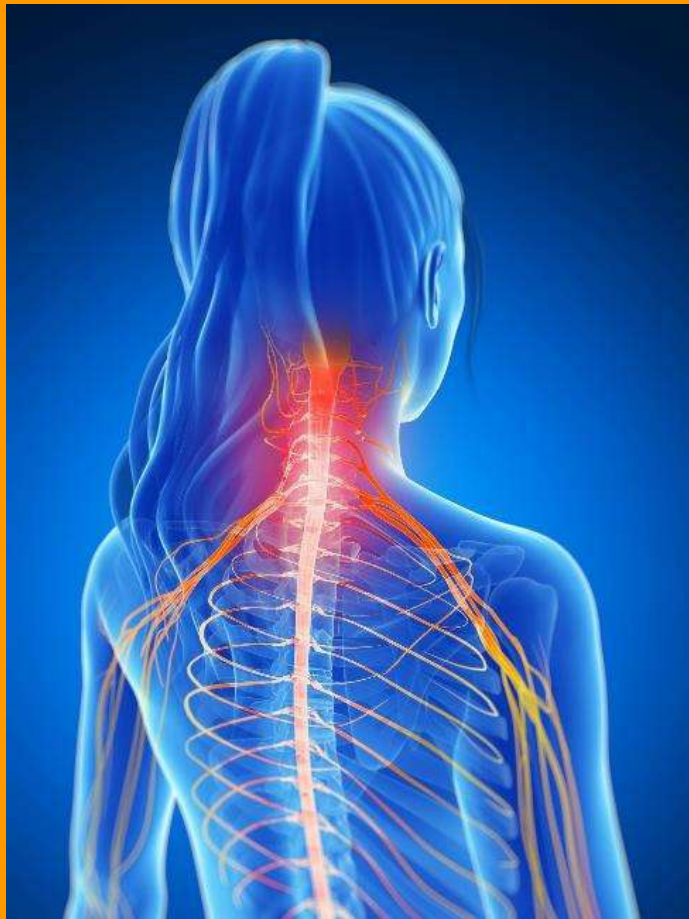
Possibilities include: acute/chronic inflammation of soft tissues, disc involvement, bony involvement, (DJD, IVF and/or canal stenosis).

**Note: of course there are many systemic and visceral pathologies that may cause similar symptoms.**



# Activity

If the patient has radiating pain  
what are the most likely causes?

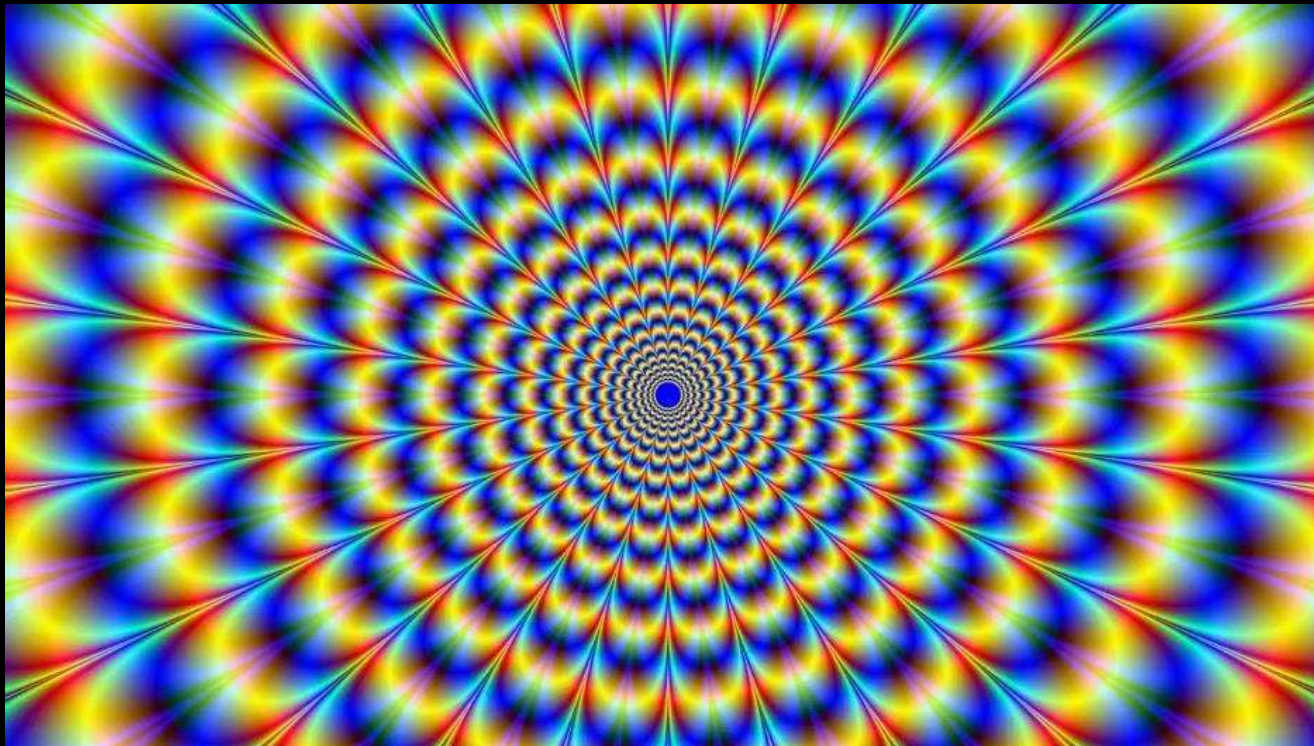




## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the knees.

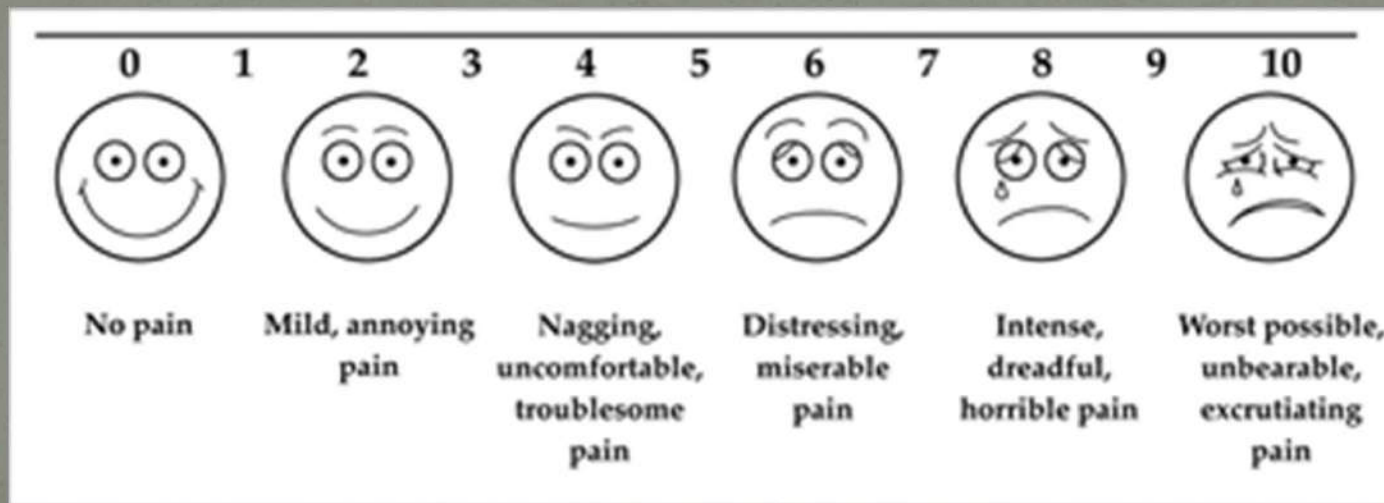
Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”



## S = Severity

Severity is measured with a subjective score from the pt. The visual analog scale (VAS) of 0-10 where zero equals no pain and ten is the worst pain the pt's ever felt.

The follow up question is: pain level now vs pain level at time of onset, or pain on movement.



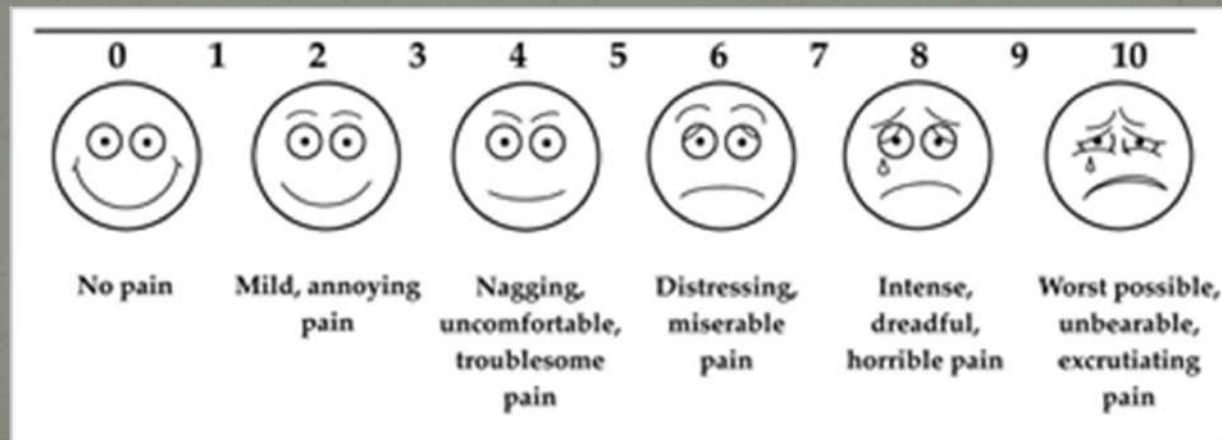


# In The Back Of My Mind



## **7-10 VAS!**

When a patient scores their pain with a VAS, of 7-10 seriously consider: broken bone, torn soft tissue, or there is a visceral or systemic pathology.





# In The Back Of My Mind

## VAS Math!



When using VAS scores from the initial visit to the next visit and so on, always convert the improvement into a percent rather than a raw number. Example: if the pt presents with an initial VAS of 8 and then on the 2nd visit their VAS is a 6 that is a change of 2. The percent change is 25%! The perception is that 25% improvement is better than 2. The reality is those numbers are the same.

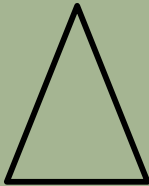
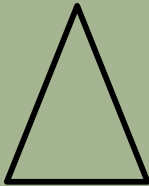
**Formula:  $(\text{Initial VAS} - 2^{\text{nd}} \text{VAS}) \div \text{Initial VAS} = \% \text{Change}$**

Please see chart on next slide

# In The Back Of My Mind

## VAS Math!



1st VAS	2nd VAS		% 
8	7	1	12.5%
7	6	1	14.3%
6	5	1	16.7%
5	4	1	20.0%



# In The Back Of My Mind

## Are you better?

Better is an interesting word.

Pt definition: perfectly fine, back to normal.

DC definition: improved.

Remember the pt always thinks better means perfect like when they were 20 years old. This may happen in certain cases, but most take time and go through a process of healing. The pt thinks it should be quick, perhaps even one visit.

The reality is most injuries do take time to heal and many injuries will not recover 100%. It is paramount that the DC discusses this with the pt. The DC's should give a reasonable prognosis with explanation and thus the pt's expectations will be in line with the DC's.





# T = Time

Timing is another important clue.

Are the symptoms constant or intermittent?

If intermittent have the pt give the specific timing.

Worse at night or morning, etc.

How long has it been going on?

If it stopped, how long ago?

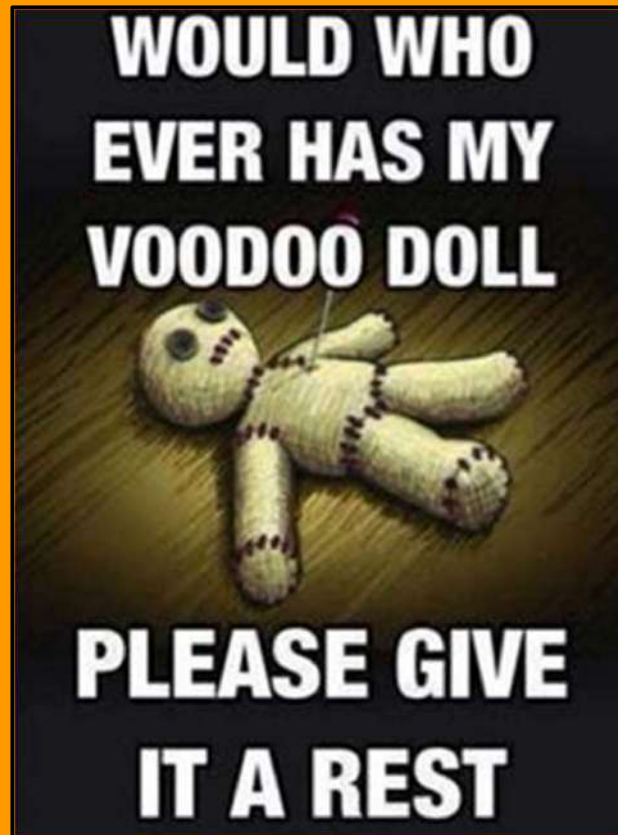
Have you had this experience before?

Has the timing changed since onset  
(better, worse, different symptoms)?



# Activity

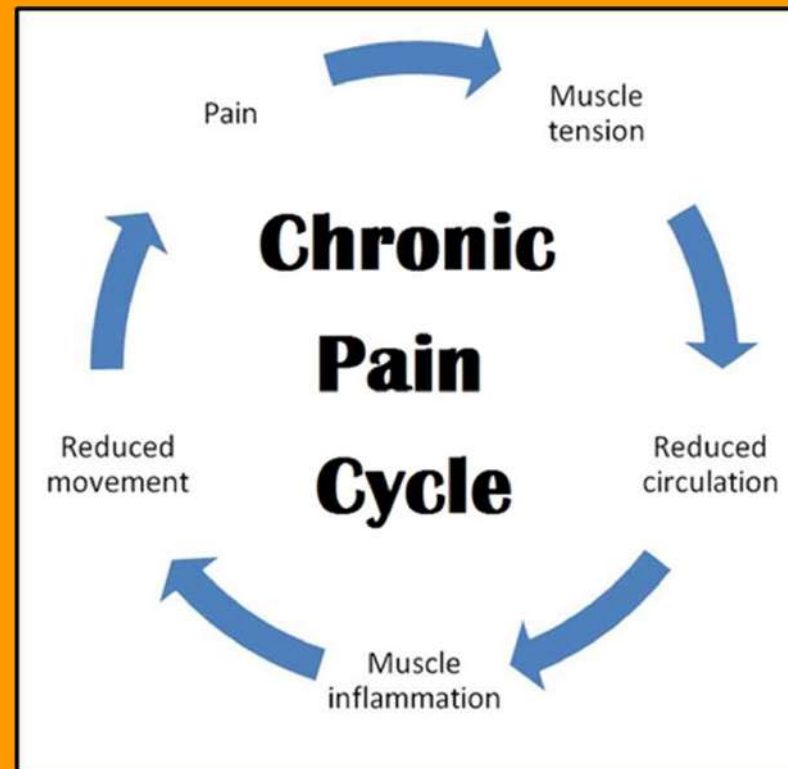
List reasons that symptoms are constant



# Activity

List reasons that symptoms are constant

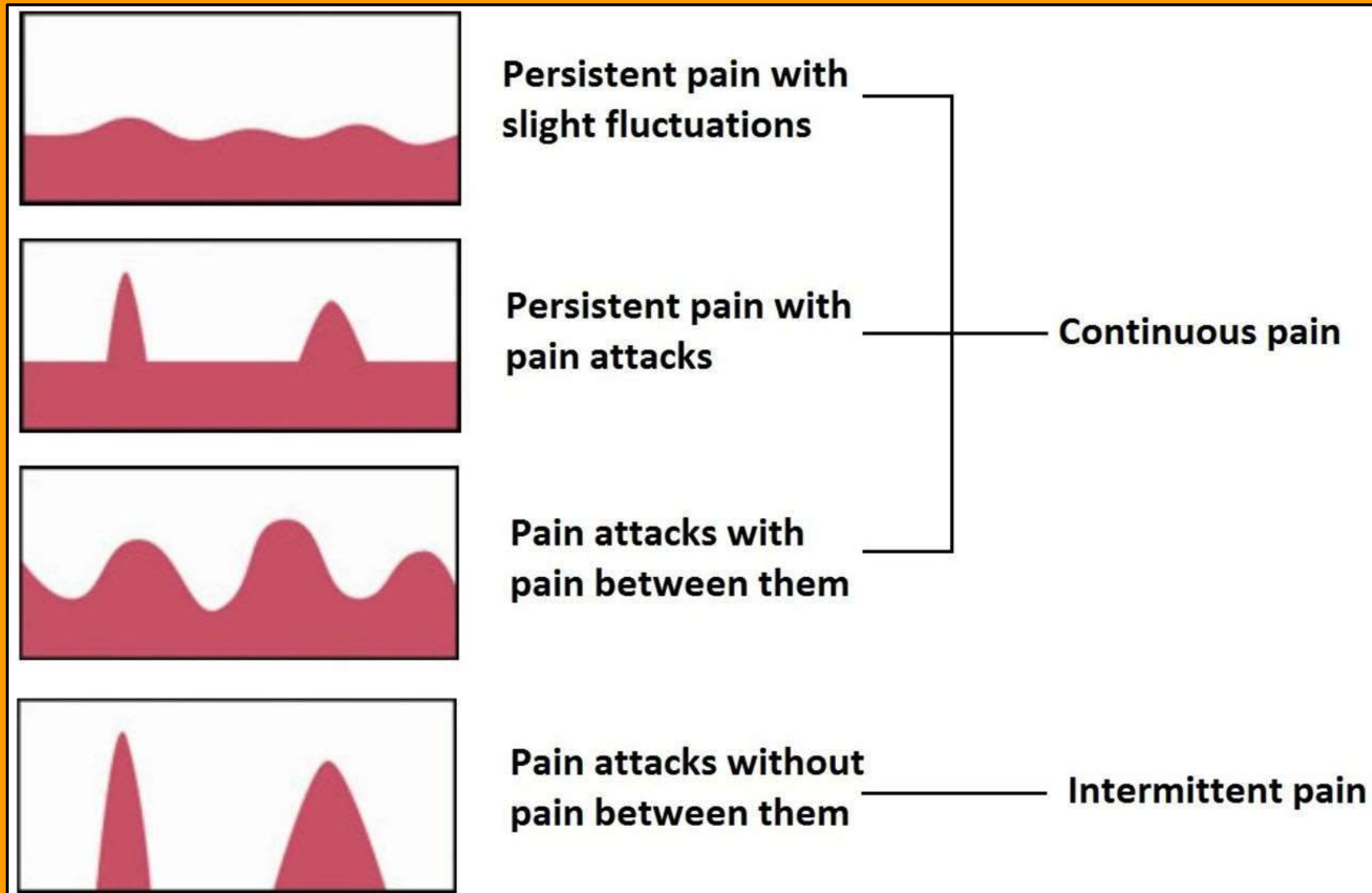
- non-reduced swelling
- soft tissue damage, tear
- broken bone
- systemic, visceral pathology





# Activity

List reasons that symptoms are intermittent



# **Activity**

**List reasons that symptoms are intermittent**

- **gravity, positional based IE lying down vs seated or standing**
- **use based IE “only hurts when I move it”**
- **fatigue based, hurts at the end of the day or activity**

# In The Back Of My Mind



## Why did you wait?

Often pts wait before seeking care.

They may have tried nothing, drugs, ice, heat, other therapies, etc. and then they finally came into see the DC. The problem is that the problem will be harder to “fix”. What the pt likely does not understand is what happens to an injury with time.

Injuries are almost always slower to recover when care is put off. Optimum care should start right away in some form.

With time and improper care: muscles atrophy and weaken, muscles tighten, adhesions form, proprioceptive function decreases, and fluid flow to and from the cells decreases, to name a few of the negative effects of putting off care.

Oh yeah one more; and the pain lasts longer!



## **Activity ~ What Do You See?**

List the common pain conditions that you see  
in the ankle & foot.

Then list the unusual conditions that you have seen that  
should be in the “Back Of Your Mind”



# Physical Examination Procedures

In this section I have developed comprehensive exam forms for each body region:

- Cervical Spine
- TMJ
- Shoulder
- Elbow
- Wrist & Hand
- Thoraco/Lumbo/Pelvic Spine
- Hip
- Knee
- Ankle & Foot
- Trauma/Neurological

All forms are available in PDF format on the website:

[backtochiropractic.net](http://backtochiropractic.net) then click on:

[Free Practice & Patient Materials](#)

forms are on lower left side of that page.



# In The Back Of My Mind



## Why so many exams?

Often DC's will ask why are there so many exam procedures.

The answer is that one or two tests will probably not lead to the correct diagnosis. The more exams performed the higher the level of certainty and safety for the pt. When a pt is acute often tests can not be performed due to the excessive pain. That is a huge sign of something is wrong and reason to proceed with extra caution.

**Each comprehensive exam forms includes (as applicable) sections on:**

- **Vital signs**
- **Inspection**
- **Postural Analysis**
- **Passive ROM**
- **Active ROM**
- **Deep Tendon Reflexes**
- **Muscle Strength Tests**
- **Sensory Dermatomes**
- **Spinal Palpation**
- **Ortho/Neuro Exams**

**Lets Review!**



## Inspection

The traditional names for signs of inflammation come from Latin:

- Dolor (pain)
- Calor (heat)
- Rubor (redness)
- Tumor (swelling)
- Functio laesa (loss of function)



# Postural Analysis

Posture affects & moderates:

- spinal pain
- headache
- mood
- blood pressure
- pulse
- respiration
- sympathetic function
- homeostasis
- autonomic regulation
- breathing
- hormone production

American Journal of Pain Management, 1994

# In The Back Of My Mind

## Respiratory System

After age 20 vital capacity

↓ 5-20% per decade

(maximum volume of air that a person can exhale after maximum inhalation)

Brian K Ross MD, University of Washington



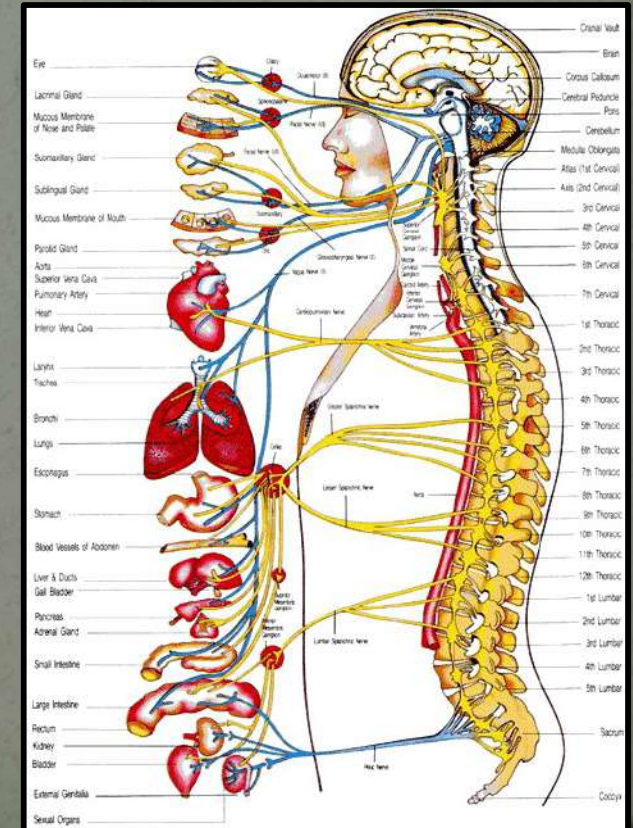
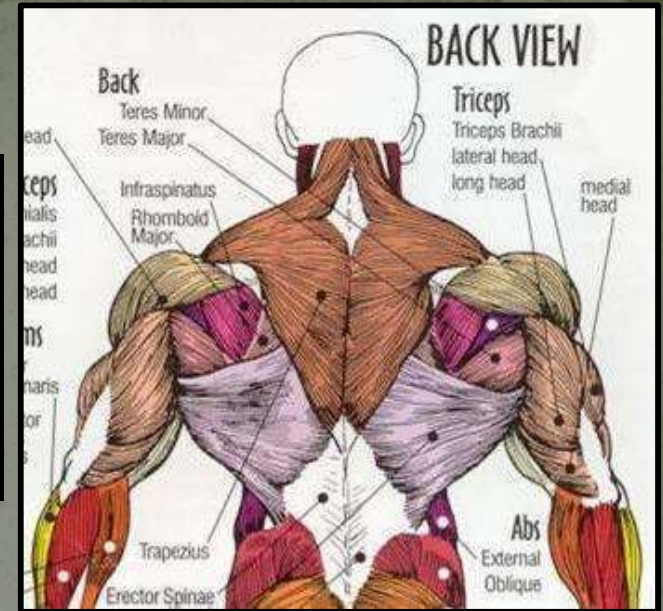


# In The Back Of My Mind

## AK Posture Check

Simple demonstration for relationship between posture and autonomic nervous system.

Try this: Pt stands up straight & puts arm out at 90° to side, then DC pushes down on arm. It should be strong. Now slump over (anterior head translation & flexion) with bad posture & push down again, the arm should be weak.





# Deep Tendon Reflexes

Measured 0-5 (Wexler scale)

0: absent with reinforcement

1: hypoactive with no reinforcement or normal with reinforcement

2: normal

3: hyperactive

4: hyperactive with transient clonus

5: hyperactive with sustained clonus

Westphal's Sign absence of any DTR, especially patellar,  
lower motor neuron lesion

Jendrassik's Maneuver brings out reflex by cortical distraction.  
AKA: Reinforcement Test or Cortical Distraction Test

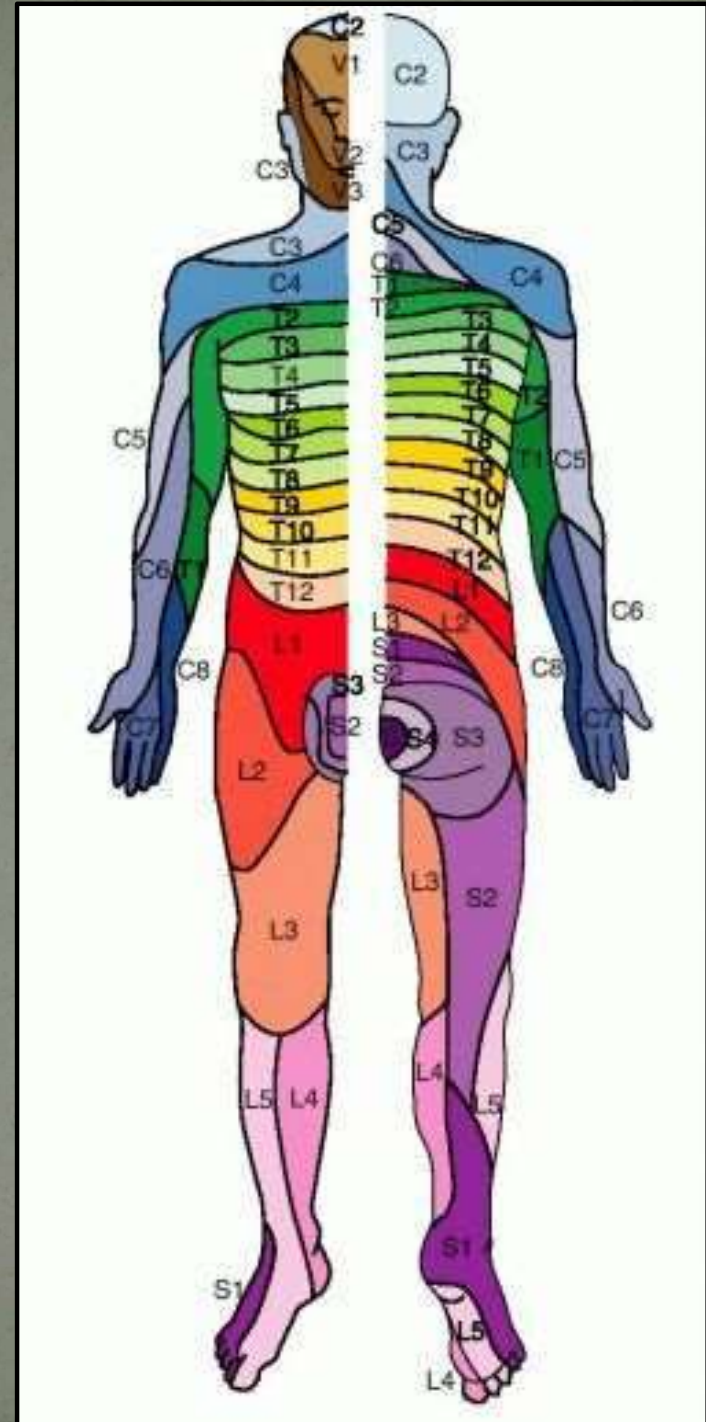
# Muscle Strength Tests

Muscle Gradations	Description
5- Normal	Complete range of motion against gravity with full resistance
4 – Good	Complete range of motion against gravity with some resistance
3- Fair	Complete range of motion against gravity
2- Poor	Complete range of motion with gravity eliminated.
1- Trace	Evidence of slight contractility. No joint motion.
0- Zero	No evidence of contractility



# Sensory Dermatomes

- Radicular Symptoms
- Hypo/Hyperalgesia
- Hypo/Hyper/Anesthesia
- Temperature perception
- Vibration perception
- Proprioception Alteration
- 2 point Discrimination





# Spinal Palpation

## codes for spinal palpation:

S = Spasm

E = Edema

F = Fixation

H = Hypertonic

T = Tender

N = Nodule

P = Pain

+Mild

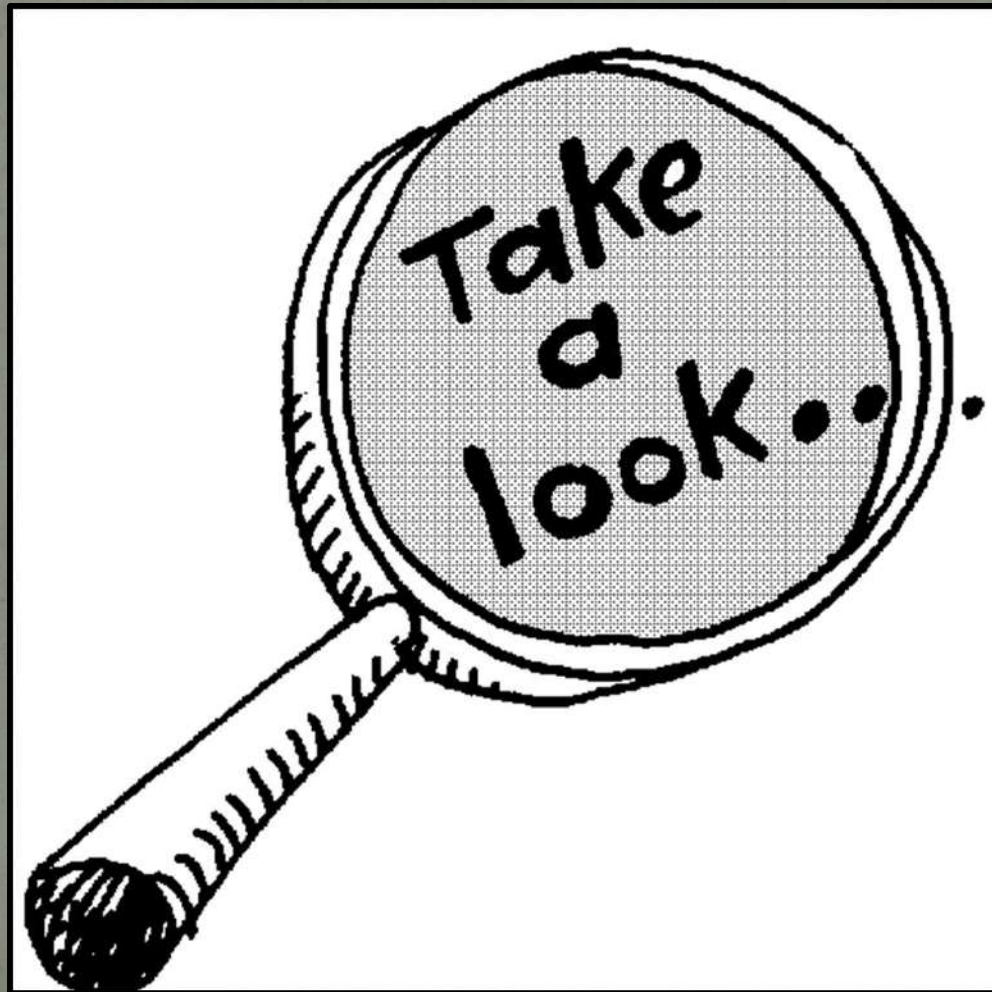
++Moderate

+++Severe



# Orthopedic Exams

Now we will look at each exam form and revisit the orthopedic examinations for each section.





Comprehensive exam forms by body region:

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

- Cervical Spine
- TMJ
- Shoulder
- Elbow
- Wrist & Hand
- Thoraco/Lumbo/Pelvic Spine
- Hip
- Knee
- Ankle & Foot
- Trauma/Neurological

All forms are available in PDF format on the [backtochiropractic.net](http://backtochiropractic.net) website.

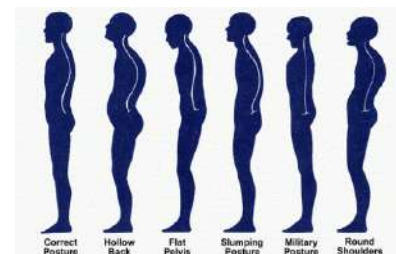
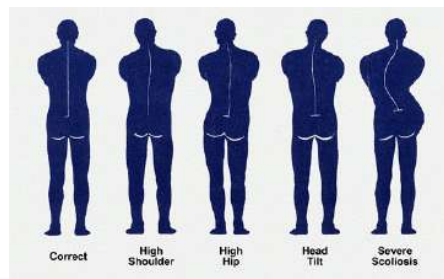
Click on: [Free Practice & Patient Materials](#)



# Cervical Spine Physical Examination

All exam forms on website click on:  
Free Practice & Patient Materials

## Cervical Spine Physical Examination



### Vital Signs

Age	
Height	
Weight	
Pulse /min	
Respiration /min	
BP	
Temp	

### Postural Analysis

Region	L	N	R
Head: Lateral Flexion			
Head: Rotation			
Head: Translation			
Cervical Muscle Tension			
Thoracic Muscle Tension			

### Range Of Motion

Cervical Spine	Norm	Passive		Active	
		Exam	Pain	Exam	Pain
Flexion	45				
Extension	55				
Left Rotation	70				
Right Rotation	70				
Left Lat Flex	45				
Right Lat Flex	45				

### Deep Tendon Reflexes

Reflex	Disc	Root	Left	Right
Biceps	C4-C5	C5		
Brachio	C5-C6	C6		
Triceps	C6-C7	C7		

0 = no response

1 = somewhat diminished

2 = normal

3 = brisk

4 = hyperactive

### Thoracic Outlet

Exams	Norm	Ab
Adson's		
Mod Adson's		
Costoclavicular		
Hyperabduction		

### Cervical Spine Exam

Test	Pain	Relief
Neutral Comp		
L Lat Comp		
R Lat Comp		
Flexion Comp		
Ext Comp		
L Rot Comp		
R Rot Comp		
L Sh Dep		
R Sh Dep		
Distraction		

### Resistive Efforts

Cervical Spine	Pain/Weak
Flexion	
Extension	
Left Rotation	
Right Rotation	
Left Lat Flex	
Right Lat Flex	

### Muscle Strength

Test	Root	Left	Right
Deltoid	C5		
Biceps	C6		
Triceps	C7		
Finger Flex	C8		
Finger Abd	T1		

5 = normal; full ROM, full resistance

4 = good; full ROM, some resistance

3 = fair; full ROM, against gravity

2 = poor; full ROM, no gravity

1 = trace; no motion, with contractility

0 = zero; no motion, no contractility

### Dynamometer

Trial	Left	Right
1		
2		
3		
4		

### Spinal Palpation

Left	Level	Right
	Occp	
	C1	
	C2	
	C3	
	C4	
	C5	
	C6	
	C7	
	T1	
	T2	

S = Spasm E = Edema

F + Fixation H = Hypertonic

T = Tender N = Nodule

P = Pain

+Mild ++Mod +++Severe

### Sensory Dermatomes

Nerve	
C5	
C6	
C7	
C8	
T1	

Radicular Symptoms

Hypo/Hyperalgesia

Hypo/Hyper/Anesthesia

Temp/Vibration/Prop Alteration

2 point Discrimination

# Cervical Spine Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

## Thoracic Outlet - cervical rib or scalenus anticus syndrome

Adson's Test Pt seated, DC palpates radial pulse as pt bends head obliquely backward toward side being checked, pt takes a deep breath. This will increase compression of subclavian artery and C8-T1 of brachial plexus against the 1st rib. Compare to opposite side.

Positive: weakening or completely obliterated pulse or increased paresthesias indicates pressure on neurovascular bundle, particularly subclavian artery as it travels through the scalene muscles.

Modified Adson's Test Pt seated, DC palpates radial pulse as pt bends head obliquely backward away from side being checked, pt takes a deep breath. This will increase compression of subclavian artery and C8-T1 of brachial plexus against the 1st rib. Compare to opposite side.

Positive: weakening or completely obliterated pulse or increased paresthesias indicate pressure on neurovascular bundle, particularly subclavian artery as it travels through the scalene muscles

Wright's Test Pt seated, DC helps pt hold their arm up and back (hyperabduction), rotating it outward, while DC checks pt pulse to see if it's diminished. Compare to opposite side.

Positive: weakening or completely obliterated pulse or increased paresthesias indicate pressure on neurovascular bundle, particularly subclavian artery as it travels through the scalene muscles

Costoclavicular Maneuver Draw the pt's shoulders inferiorly and posteriorly.

Positive: weakening or completely obliterated pulse or increased paresthesias indicate pressure on neurovascular bundle, particularly subclavian artery as it travels through the scalene muscles



# TMJ Physical Exam

All exam forms on  
website click on:  
**Free Practice &  
Patient Materials**

## TMJ

### Inspection

Finding	Positive
Bony Palpation	
Soft Tissue Palpation	
Open 3 Fingers Width	
Clicks: Opening	
Clicks: Closing	
Deviation: Left	
Deviation: Right	
Deviation: W Shaped	

### Orth/Neuro Tests

Test	Positive
Jaw Reflex	
Chvostek Test	

### Muscle Strength

Muscle Group	Rating
Opening Muscles	
Closing Muscles	

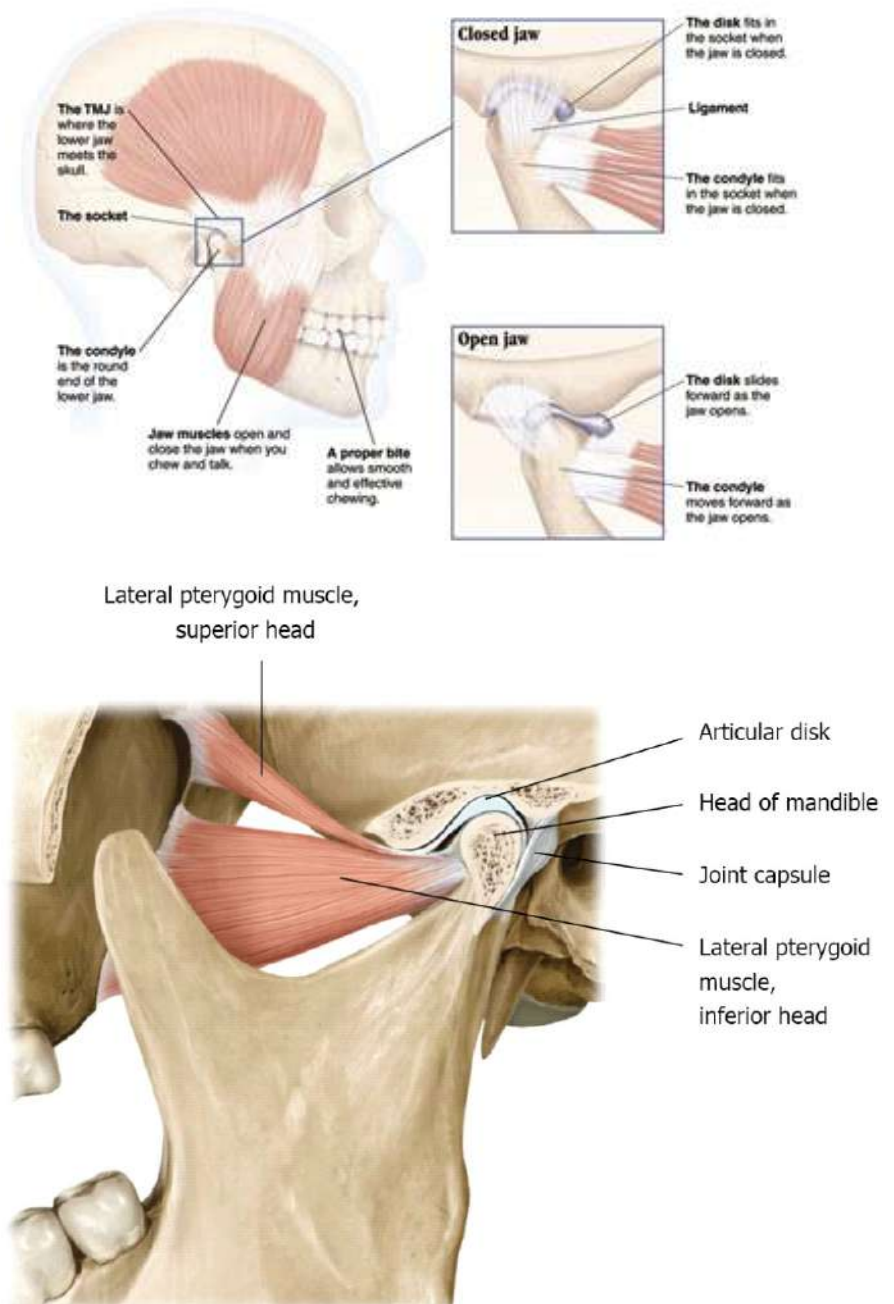
5 = normal; full ROM, full resistance  
 4 = good; full ROM, some resistance  
 3 = fair; full ROM, against gravity  
 2 = poor; full ROM, no gravity  
 1 = trace; no motion, with contractility  
 0 = zero; no motion, no contractility

### Opening Muscles

External Pterygoids  
 Hyoid Muscles

### Closing Muscles

Masseter  
 Temporalis  
 Internal Pterygoids





# Temporomandibular Joint Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Jaw Reflex Masseter reflex is a stretch reflex used to test the pt's trigeminal nerve (CN V). The mandible or lower jaw is tapped at a downward angle just below the lips at the chin while the mouth is held slightly open. The masseter muscles will jerk the mandible upwards. Normally this reflex is absent or very slight.

Positive: with upper motor neuron lesions the jaw jerk reflex can be hyperactive.

Chvostek's sign Tap the facial nerve at the angle of the jaw (masseter muscle). Normally this reflex is absent or very slight.

Positive: sign of tetany seen in hypocalcemia. Facial muscles on the same side of the face will contract momentarily (twitch of the nose or lips) due to hypocalcemia (from hypoparathyroidism, pseudohypoparathyroidism, hypovitaminosis D) with resultant hyperexcitability of nerves.

# Shoulder Physical Exam

All exam forms on website click on: Free Materials

For each exam reviewed please take the time to grab a partner and perform the exam procedure.

## Shoulder

### Inspection

Finding	Positive
Mass	
Swelling	
Discoloration	
Deformity	
Cicatrix	
Joint Play	
Bony Palpation	
Soft Tissue Palpation	
Scapular Rhythm 2:1	

### Passive Range Of Motion

Shoulder	Norm	Exam	Pain
Abd (hum int rot)			
Abd (hum ext rot)			
Adduction			
Flexion			
Extension			
Internal Rotation			
External Rotation			

### Active Range Of Motion

Shoulder	Norm	Exam	Pain
Abd (hum int rot)			
Abd (hum ext rot)			
Adduction			
Flexion			
Extension			
Internal Rotation			
External Rotation			

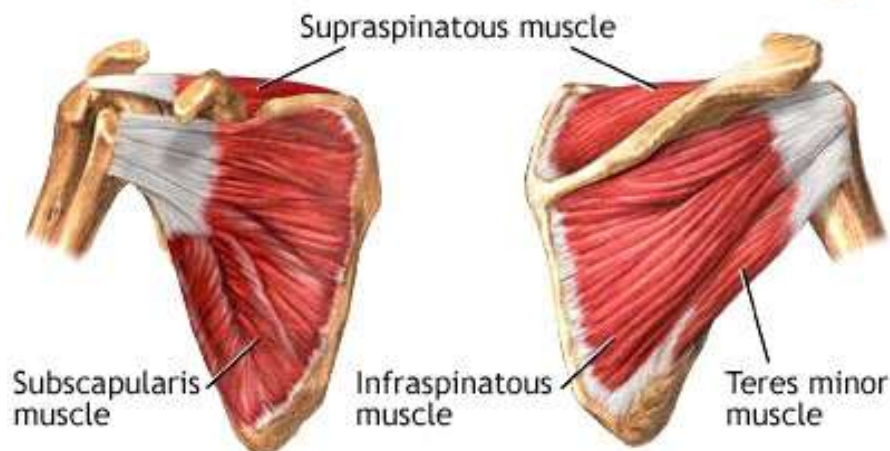
### Orth/Neuro Tests

Test	Left	Right
Yergason's		
Drop Arm		
Apprehension		
Apley's		
Dugas'		
Jobe's		
Disappearing Bursa		

### Muscle Strength

Test	Left	Right
Pec Major		
Pec Minor		
Ant Deltoid		
Middle Deltoid		
Post Deltoid		
Rhomboids		
Trapezius		
Suoraspinatus		
Infraspinatus		
Teres Minor		
Teres Major		
Suscapularis		
Latissimus Dorsi		

5 = normal; full ROM, full resistance  
 4 = good; full ROM, some resistance  
 3 = fair; full ROM, against gravity  
 2 = poor; full ROM, no gravity  
 1 = trace; no motion, with contractility  
 0 = zero; no motion, no contractility



Anterior shoulder

Posterior shoulder



# Shoulder Joint Physical Examination

## Range of Motion

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

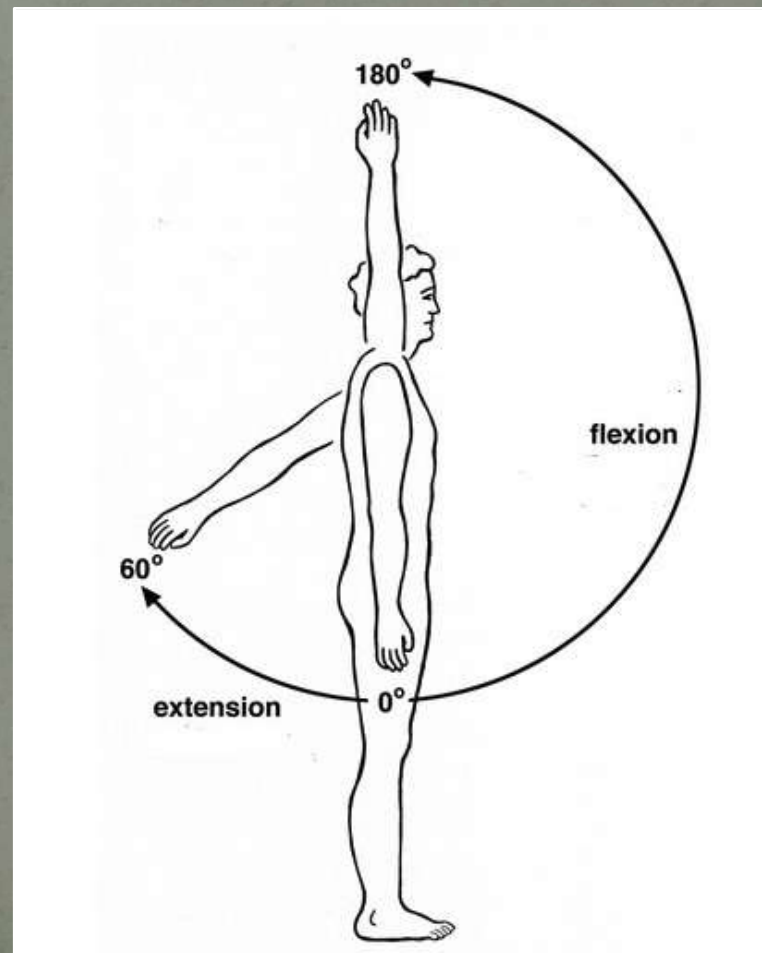
<u>Motion</u>	<u>Normal</u>
Flexion	180°
Extension	60°
Adduction	45°
Abduction	180°
Internal Rotation	70°
External Rotation	90°



# Shoulder Joint Physical Examination

## Range of Motion ~ Flexion & Extension

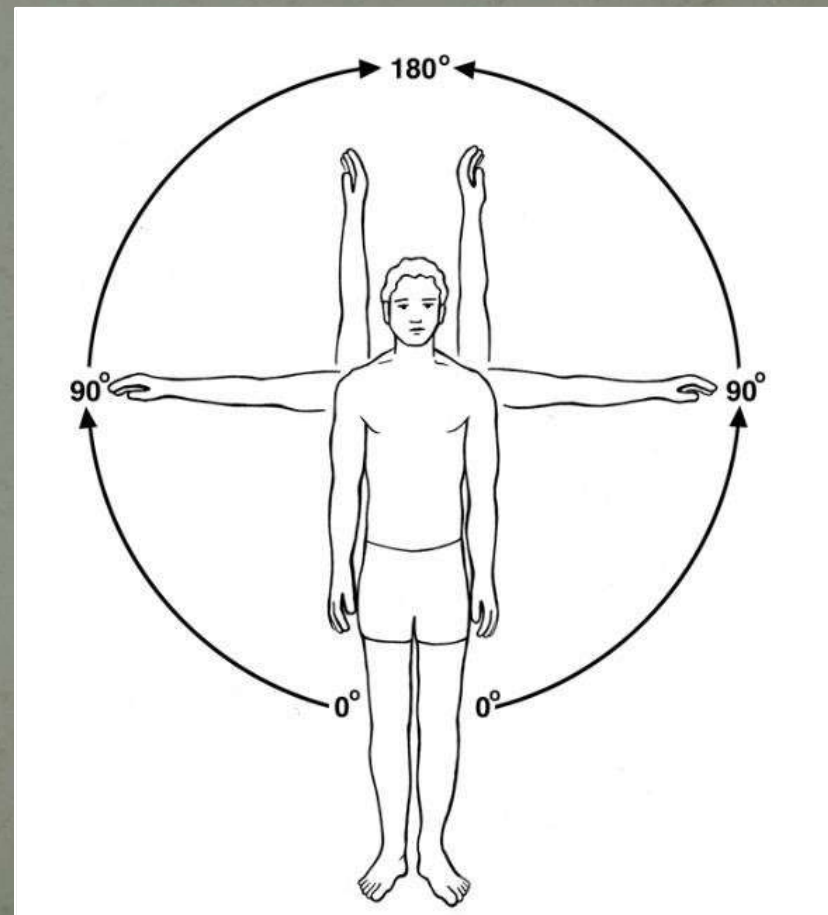
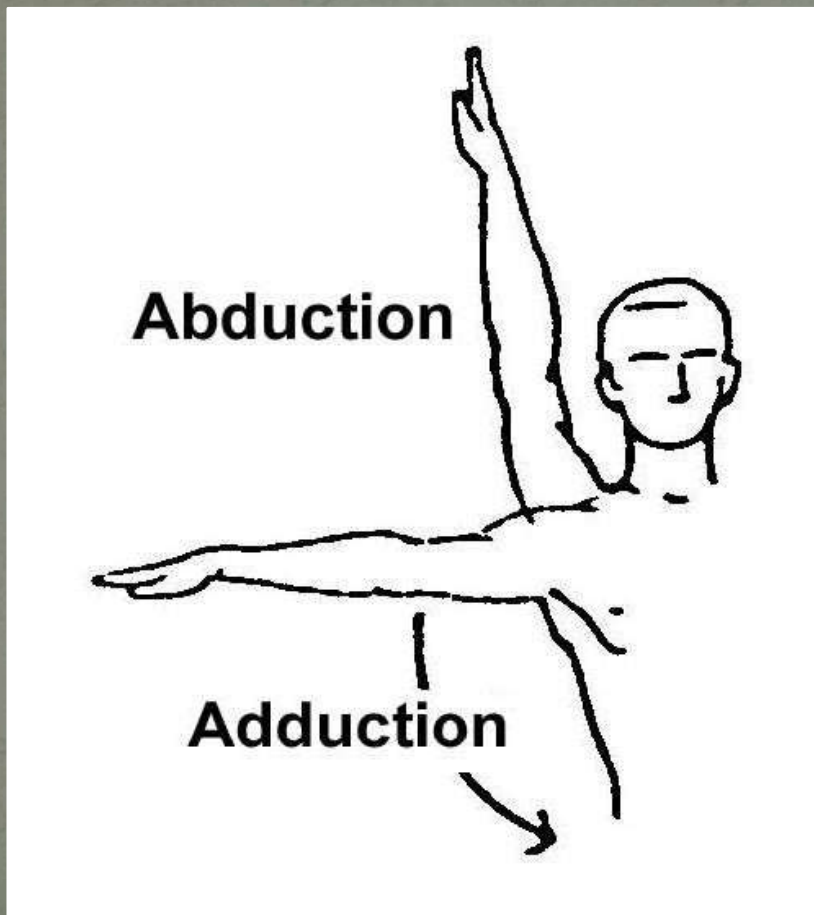
**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**



# Shoulder Joint Physical Examination

## Range of Motion ~ Abduction & Adduction

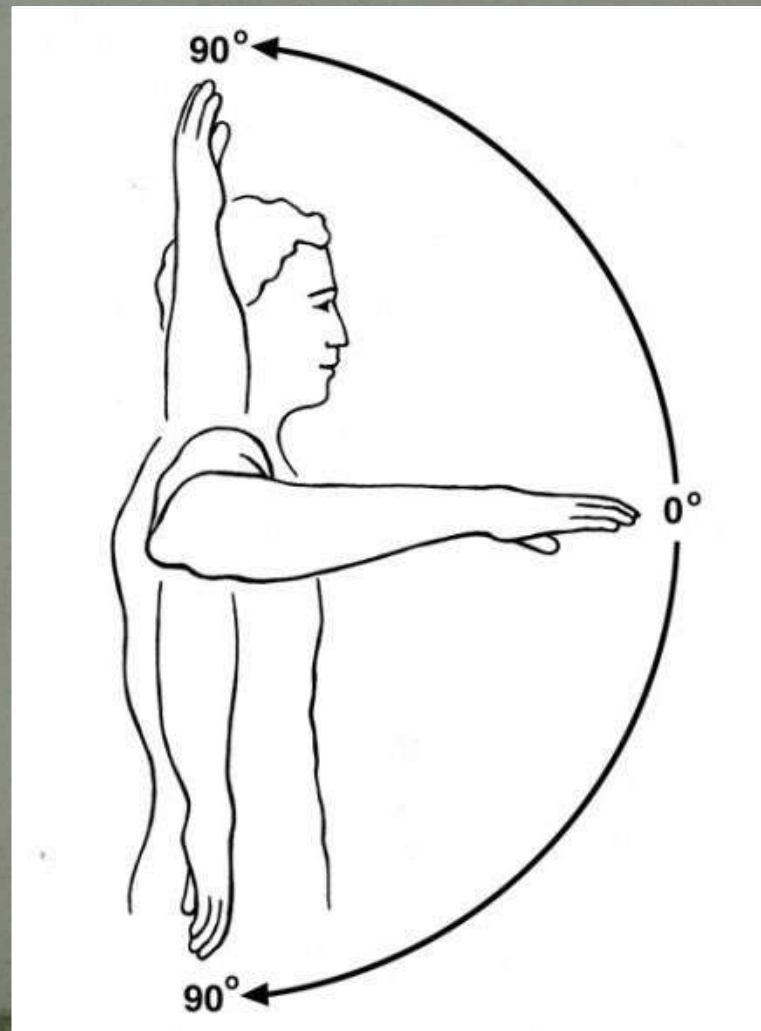
**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**



# Shoulder Joint Physical Examination

## Range of Motion ~ Internal & External Rotation

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**





# Shoulder Joint Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

## Yergason's Test

Pt's elbow is flexed to 90° and forearm pronated.

DC holds their arm at the wrist.

Pt actively supinates against resistance.

### Positive:

Pain in bicipital groove area, indicates bicipital tendonitis.



# Shoulder Joint Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

## **Drop Arm Test (Codman's)**

Passively abduct the shoulder to 90-120°, flex shoulder forward to 30°, elbows locked, and point thumbs down. DC drops pt's arms.

### **Positive:**

Pt is unable to keep arm elevated after the DC releases.

Indicates rotator cuff tear: supraspinatus muscle/tendon tear/involvement.





# Shoulder Joint Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

## Apprehension Test

Pt is supine with the scapula supported by the edge of exam table. The arm is positioned in 90° abduction and external rotation. With increasing external rotation the DC watches for pt apprehension. If pt seated DC exerts an anterior translatory force with their thumb placed posteriorly on the humerus. However, their fingers are anterior to control any sudden instability episode that may occur.

### Positive:

Pt apprehension. Pain alone is not a positive test. A positive test indicates a labral lesion and/or bony lesion at the anterior inferior rim of the glenoid.





# Shoulder Joint Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

## Apley's Scratch Test

1. Pt tries to reach behind their neck to touch between scapulae.

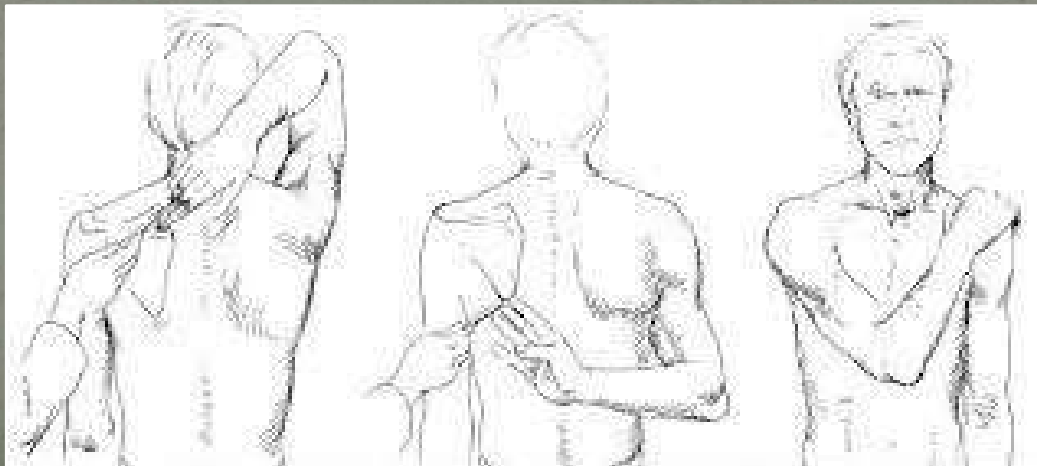
**Positive:** Decreased motion on involved side. Checks glenohumeral abduction, external rotation and scapular upward rotation and elevation.

2. Pt tries to reach up to shoulder blades as far as they can, starting from their lower back.

**Positive:** Decreased motion on involved side. Checks glenohumeral adduction, internal rotation and scapular retraction with downward rotation

3. Pt tries to touch opposite shoulder. Compare bilaterally.

**Positive:** Decreased motion on involved side. Checks glenohumeral adduction, internal rotation, horizontal adduction and scapular protraction.



# Shoulder Joint

## Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

### Dugas's Test

Pt attempts to place the hand of the involved side on the opposite shoulder and touch their elbow to their chest.

**Positive:** Pt can not perform test, indicates a dislocated shoulder.





# Shoulder Joint

## Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

### Jobe's Test

Passively abduct pt's shoulder to 90°, flex shoulder to 30° and point thumbs down.

In this position, provide resistance as the pt lifts upward.

**Positive:** Pain or weakness suggests possible supraspinatus involvement or tear.





# Shoulder Joint

## Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

### Disappearing Bursa

Pt seated. DC palpates painful subacromial bursa and passively abducts arm.

**Positive:** Pain disappears with increasing abduction indicates subacromial bursitis.



# Elbow Physical Examination

All exam forms on website click on:  
Free Practice & Patient Materials

## Elbow

### Inspection

Finding	Positive
Mass	
Swelling	
Discoloration	
Deformity	
Cicatrix	
Joint Play	
Bony Palpation	
Soft Tissue Palpation	
Gait Disturbance	
Carrying Angle	

### Passive Range Of Motion

Elbow	Norm	Exam	Pain
Flexion	150		
Extension	0		
Pronation	90		
Supination	90		

### Active Range Of Motion

Elbow	Norm	Exam	Pain
Flexion	150		
Extension	0		
Pronation	90		
Supination	90		

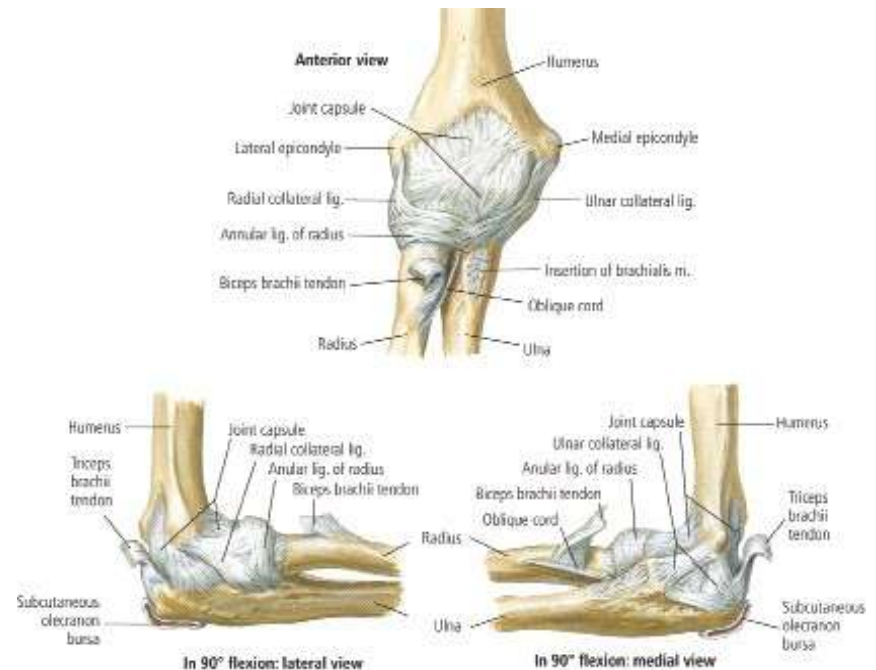
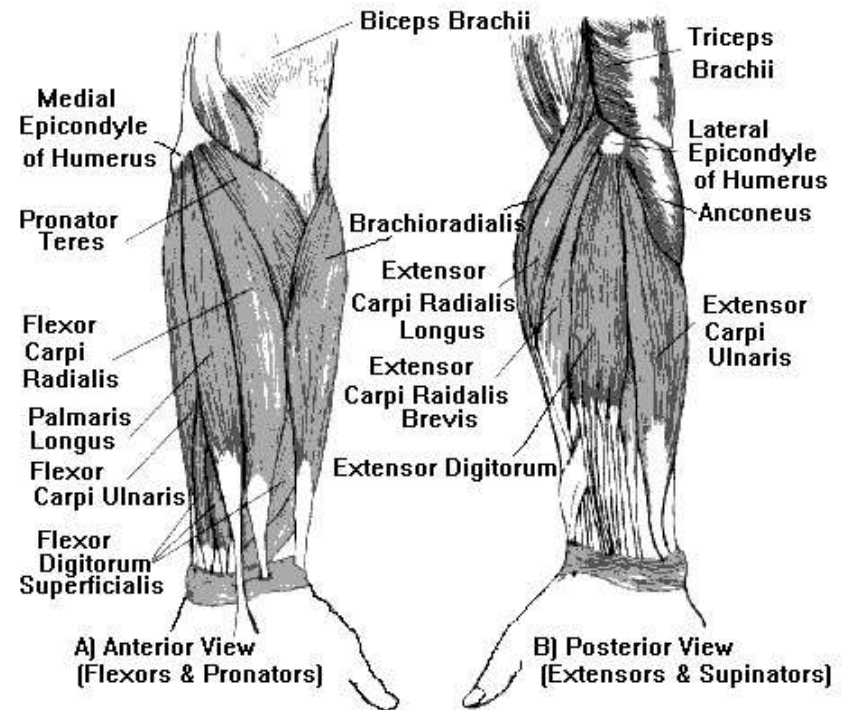
### Orth/Neuro Tests

Test	Left	Right
Stability		
Tinel's		
Cozen's		
Apley's		
Mill's		

### Muscle Strength

Test	Left	Right
Biceps		
Brachioradialis		
Triceps		
Wrist Flexors		
Wrist Extensors		

5 = normal; full ROM, full resistance  
 4 = good; full ROM, some resistance  
 3 = fair; full ROM, against gravity  
 2 = poor; full ROM, no gravity  
 1 = trace; no motion, with contractility  
 0 = zero; no motion, no contractility





# Elbow Joint Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Mediolateral Stability: Stability testing is performed with the pt standing, shoulder braced backwards; DC is behind the pt. The elbow is slightly flexed, to bring the apex of the olecranon out of the fossa. Varus stability is checked with the humerus in full internal rotation, while valgus stability is tested in full external rotation.

Positive: The physiological laxity of the elbow between 10 and 20° of flexion, in varus and in valgus, does not exceed 5°. In rotation (pronation and supination), it does not exceed 3°.

Anteroposterior Stability: Anteroposterior stability is controlled exclusively by the collaterals. The forearm is flexed to 90° and held by the DC with one hand, while the other hand holds the humerus, as anteroposterior stress is applied to the joint.

Positive: Motion in excess of 5°.



# Elbow Joint Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Tinel's Test: DC locates ulnar nerve in groove between olecranon process and medial epicondyle. Ulnar nerve is then tapped on repeatedly by index finger of DC.

Positive: Tingling sensation in ulnar distribution of forearm and hand distal to tapping point.

Golfer's Test: Test for medial epicondylitis. Pt should be seated or standing and should have his/her fingers flexed in a fist position. DC palpates the medial epicondyle with one hand and grasps the pt's wrist with the other hand. DC then passively supinates the forearm and extends the elbow and wrist.

Positive: Pain or discomfort along the medial aspect of the elbow in the region of the medial epicondyle.

Cozen's Test: To assess lateral epicondylalgia, or tennis elbow. DC stabilizes pt's elbow with one hand while the pt is asked to pronate the forearm and extend and radially deviate the wrist against manual resistance of the DC.

Positive: Pain or reproduction of symptoms in the area of the lateral epicondyle.

Mill's Test: Pt is seated. DC palpates the pt's lateral epicondyle with one hand, while pronating the pt's forearm, fully flexing the wrist, the elbow extended.

Positive: Pain or reproduction of other symptoms in the area of the lateral epicondyle.

# Wrist & Hand Physical Examination

All exam forms on website click on:  
Free Practice & Patient Materials

## Wrist/Hand

### Inspection

Finding	Positive
Mass	
Swelling	
Discoloration	
Deformity	
Cicatrix	
Joint Play	
Bony Palpation	
Soft Tissue Palpation	

### Passive Range Of Motion

Wrist/Hand	Norm	Exam	Pain
Flexion	80		
Extension	70		
Medial Deviation	20		
Lateral Deviation	45		

### Active Range Of Motion

Wrist/Hand	Norm	Exam	Pain
Flexion	80		
Extension	70		
Medial Deviation	20		
Lateral Deviation	45		

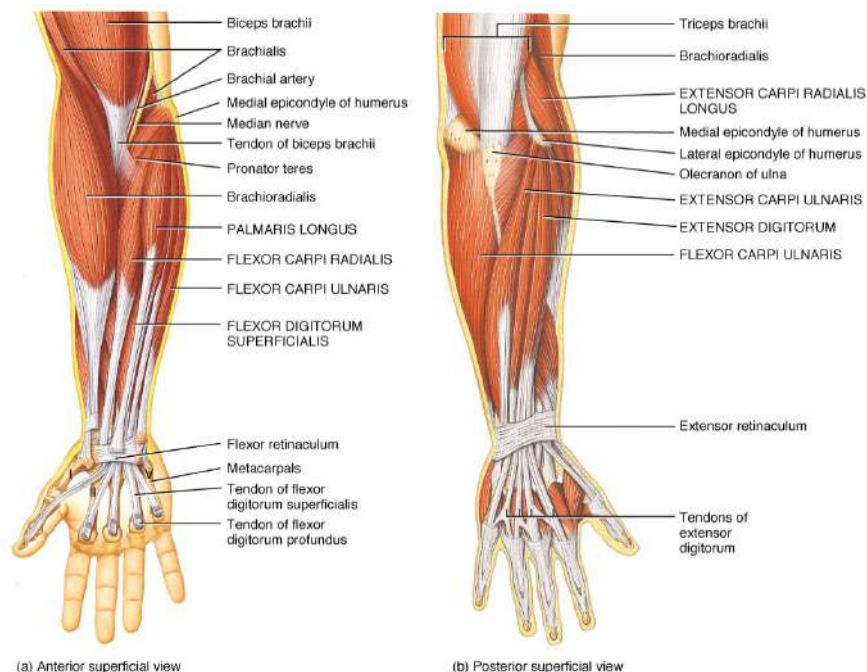
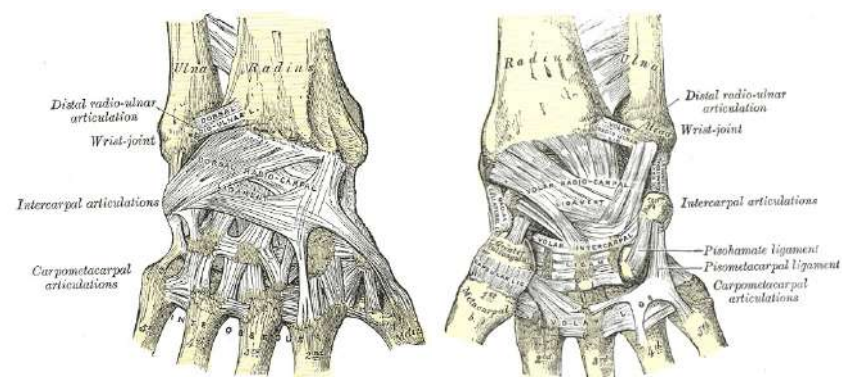
### Orth/Neuro Tests

Test	Left	Right
Bunnel Littler		
Allen's		
Phalen's		
Reverse Phalen's		
Finkelstein's		
Tinel's		
Froment's		

### Muscle Strength

Test	Left	Right
Flexors		
Extensors		
Medial Deviation		
Lateral Deviation		
Finger Abduction		
Finger Adduction		

5 = normal; full ROM, full resistance  
 4 = good; full ROM, some resistance  
 3 = fair; full ROM, against gravity  
 2 = poor; full ROM, no gravity  
 1 = trace; no motion, with contractility  
 0 = zero; no motion, no contractility



(a) Anterior superficial view

(b) Posterior superficial view



# Wrist & Hand Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Bunnel Littler Test: Pt is seated with the metacarpophalangeal joint in slight extension. DC passively flexes the proximal interphalangeal joint of the same ray and assesses the amount of proximal interphalangeal joint flexion. DC then passively flexes the metacarpophalangeal joint slightly and assesses the amount of flexion at the proximal interphalangeal joint.

Positive: Proximal interphalangeal joint does not flex while the metacarpophalangeal joint is in an extended position.

Positive Test Implications: Proximal interphalangeal joint does not fully flex once the metacarpophalangeal joint is slightly flexed, intrinsic muscle tightness can be assumed.

If flexion of the proximal interphalangeal joint remains limited once the metacarpophalangeal joint is slightly flexed, capsular tightness can be assumed.

Allen's Test: Test wrist collateral blood flow. Pt elevates hand and makes a fist for 20 seconds. Firm pressure held against radial and ulnar arteries. Pt opens hand and it should blanch white. DC releases only ulnar compression. Repeat releasing only radial compression.

Normal Result: Hand color flushes within 5 to 7 seconds.

Positive: Inadequate collateral circulation.



# Wrist & Hand Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Phalen's Test: Carpal tunnel syndrome or median nerve compression exam. Pt is seated or standing with the dorsal aspect of both hands in full contact so that both wrists are maximally flexed, (hands back-to-back). Pt applies a steady compressive force through the forearms so that the wrists are maximally flexed for 1 minute.

Positive: Numbness and tingling in the median nerve distribution of the fingers.

Reverse Phalen's Test: Carpal tunnel syndrome or median nerve compression exam. Pt is seated or standing with the palmar aspect of both hands in full contact so that both wrists are maximally extended, (praying position). Pt applies a steady compressive force through the forearms so that the wrists are maximally flexed for 1 minute.

Positive: Numbness and tingling in the median nerve distribution of the fingers.

Finkelstein's Test: Pt is seated or standing and forms a fist around the thumb. DC grasps the pt's forearm with the proximal hand and the pt's fist with the distal hand. DC stabilizes pt's forearm with the proximal hand and ulnarly deviates the athlete's wrist and the distal hand.

Positive: Pain over the abductor pollicis longus and extensor pollicis brevis tendons distally. Possible tenosynovitis or pollicis longus and extensor pollicis brevis tendons.

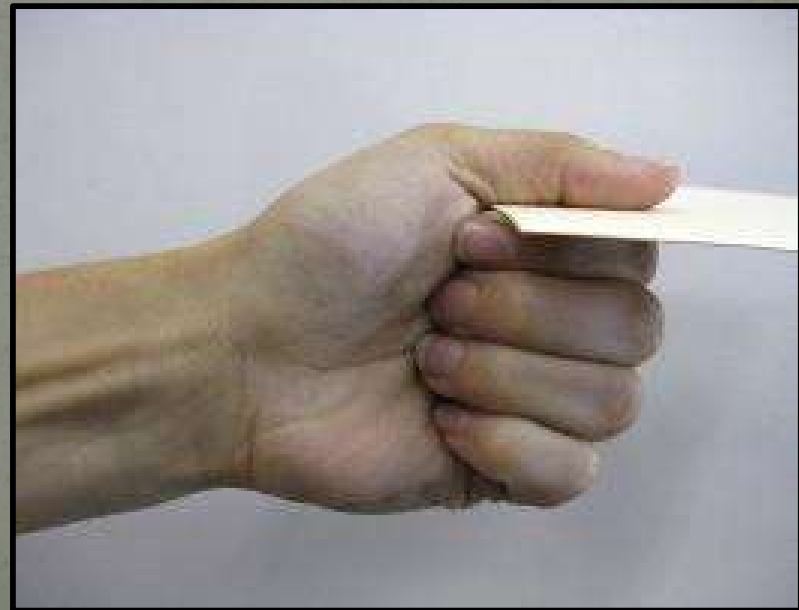
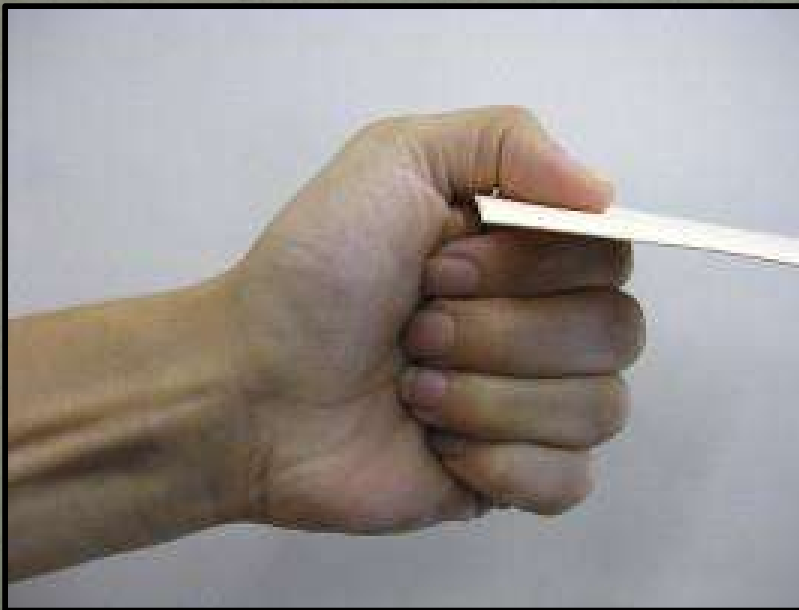
# Wrist & Hand Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Tinel's Test: Examiner taps the volar (palm) aspect of the pt's wrist over the area of the carpal tunnel.  
Positive: Tingling, paresthesia or pain in the area of the thumb, index finger, middle finger, and radial one-half of the ring finger. Compression of median nerve in carpal tunnel or carpal tunnel syndrome.

Froment's Test: Have pt grasp piece of paper between thumb and index finger. DC tries to pull paper away from pt.

Positive: If pt is forced to flex the tip of the thumb to maintain their grip on the paper, then this is evidence of an ulnar nerve lesion.

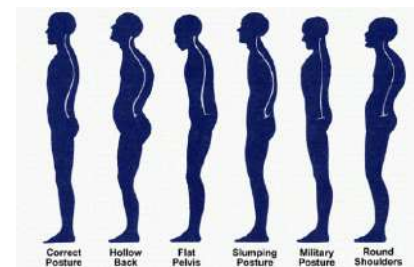




# Thoraco/ Lumbo/ Pelvic Physical Examination

All exam forms on  
website click on:  
Free Practice &  
Patient Materials

## Thoraco/Lumbo/Pelvic Spine Physical Examination



### Vital Signs

Age	
Height	
Weight	
Pulse /min	
Respiration /min	
BP	
Temp	

### Postural Analysis

Region	L	N	R
Thoracic muscle tension			
Lumbar muscle tension			

### Range Of Motion

T/L Spine	Norm	Passive		Active	
		Exam	Pain	Exam	Pain
Flexion	90				
Extension	30				
Left Rotation	30				
Right Rotation	30				
Left Lat Flex	20				
Right Lat Flex	20				

### Deep Tendon Reflexes

Reflex	Disc	Root	Left	Right
Quads	L3-L4	L4		
Hamstrings	L4-L5	L5		
Gastroc	L5-S1	S1		

0 = no response  
1 = somewhat diminished  
2 = normal  
3 = brisk  
4 = hyperactive

### Resistive Efforts

T/L Spine	Pain/Weak
Flexion	
Extension	
Left Rotation	
Right Rotation	
Left Lat Flex	
Right Lat Flex	

### Lumbo/Pelvic Exam

Ortho Exams	Left		Right	
	N	Ab	N	Ab
Nachlas				
Yeoman's				
Ely's				
Hibb's				
SLR				
WLR				
Braggard's				
Patrick's				
Goldthwaite's				
Soto-Hall's				
Gainslen's				
Brud/Kernig's				
Hoover's				

### Lumbo/Pelvic Exam

Exams	N	Ab
Minor's		
Lewin's		
Kemp's		
Gillet's		
Trendelenburg's		
Valsalva's		
Lhermitte's		
Babinski's		

### Leg Length Measured

Measurement	Left	Right
ASIS-Lat Mal		
GrTro-Lat Mal		

### Derefield Leg Check

Position	Even	L Sh	R Sh
1			
2			

### Spinal Palpation

Left	Level	Right
	T1	
	T2	
	T3	
	T4	
	T5	
	T6	
	T7	
	T8	
	T9	
	T10	
	T11	
	T12	
	L1	
	L2	
	L3	
	L4	
	L5	
	S1	

S = Spasm E = Edema  
F + Fixatic H = Hypertonic  
T = Tende N = Nodule  
P = Pain  
+Mild ++Mod +++Severe

### Sensory Dermatomes

Nerve	
L2	
L3	
L4	
L5	
S1	

Radicular Symptoms  
Hypo/Hyperalgesia  
Hypo/Hyper/Anesthesia  
Temp/Vibration  
Prop Alteration  
2 point Discrimination



# Thoraco/Lumbo/Pelvic Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Nachlas: Pt is prone. DC flexes the pt's knee to a right angle; then, with pressure against the anterior surface of the ankle, the heel is slowly directed straight toward the ipsilateral buttock. The contralateral ilium should be stabilized by DC's other hand.

Positive: Sharp pain in ipsilateral gluteal or SI joint region, think SI involvement. If pain is in the low back area or produces radiating nerve symptoms, then think lumbar involvement.

Yeoman's Pt is prone. With one hand, pressure is applied by DC over the involved SI joint, pressing the pt's pelvis onto the table. With the other hand the DC flexes the pt's leg on the affected side to the end range of motion, and the thigh is hyperextended by the DC lifting the knee up off the table.

Positive: Pain in the SI joint area, indicates SI or hip joint involvement. Normal is no pain.

Ely's Pt is prone with toes hanging off the table. DC moves heel toward the opposite buttock.

Positive: Hip pain in psoas muscle and the pelvis may rise up on the involved side. Also may indicate a tight rectus femoris or tensor fascia lata, or lumbar spine or hip involvement.

Hibb's Pt is prone and DC stands next to pt on involved side. DC stabilizes pt's contralateral uninvolved hip, flexes pt's knee on involved side toward the buttock, and then slowly adducts the leg, causing external rotation of the femur.

Positive: Pain in hip joint indicates a hip joint lesion; pain in SI joint but not the hip indicates SI joint involvement.

# Thoraco/Lumbo/Pelvic Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Straight Leg Raise (SLR) Pt is supine on table. DC lifts leg, with knee locked, into the air.

Positive: Recreate symptoms, pain down leg between 30-70° of hip flexion. Used to help diagnose a lumbar herniated disc. If there is pain *before* the leg is at 30°, then it probably is not a herniated disc pressing on the nerve. Before 30°, the nerve root isn't stretched.

Well Leg Raise (WLR) Pt is supine on table. DC lifts leg (non-test side), with knee locked, into the air.

Positive: Pain in the opposite leg suggests herniated disc involvement.

Braggard's (SLR with foot dorsiflexion)

Positive: Pain in 0-35°(of SLR), suspect extradural sciatic nerve irritation.

Pain in 35-70° (of SLR), suspect disc involvement.

Patrick's (FABERE) FABERE: flexion, abduction, and external rotation . Pt is supine on table.

DC takes involved leg and flexes knee and rotates it so inside of knee faces up. DC places foot on opposite knee. DC stabilizes pelvis by placing hand on pelvis on opposite side.

Positive: Pain in the groin, buttocks, pelvis, or back, indicates SI or hip joint involvement.

Goldthwaite's Pt is supine on table. DC places one hand under lumbar spine against the interspinous spaces. DC's other hand does a SLR test.

Positive: Pain or recurring symptoms in range of 0-30°, (before lumbar processes open) indicates SI joint involvement; 30-60°, suggests a lumbosacral lesion; 60-90°, an L1–L4 disc lesion. Repeat on uninvolved side. When the uninvolved side can be raised higher than the involved side, it indicates SI joint involvement on the involved side.



# Thoraco/Lumbo/Pelvic Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Soto-Hall's Pt is supine. DC places one hand on pt's sternum, with mild pressure to prevent flexion of the lumbar or thoracic spine. DC's other hand is under the pt's occiput and head is slowly flexed.

Positive: Acute local pain when spinous process of injured vertebra is pulled.

Possible vertebral fracture.

Gainslen's Pt is supine, with knees and hips flexed by pt who grabs knees with both hands and pulls them toward thorax. Lumbar spine firmly contacts table and fixes both pelvis and lumbar spine.

Pt slid to side of table and DC slowly hyperextends thigh as far as you can below level of table.

Maintain pressure on pt's opposite knee. The hyperextension of the hip exerts force on pelvis.

Perform bilaterally.

Positive: Pain is felt in the SI area or referred down the thigh. May indicate SI, hip, or lower lumbar nerve root lesion.

Brudzinski's Pt is supine. DC places one hand on pt's sternum, with mild pressure to prevent flexion of the lumbar or thoracic spine. DC's other hand is under the pt's occiput and head is slowly flexed.

Positive: Hips and knees flex. Indicates meningeal irritation and is associated with meningitis.

Kernig's Pt is supine. Flex thigh so that it is at a right angle to trunk, and then completely extend leg at the knee joint.

Positive: If leg cannot be completely extended due to spinal pain. Possible meningitis.



# Thoraco/Lumbo/Pelvic Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Hoover's This should be done if pt says they can not raise their leg and malingering is suspected. Pt is supine. DC places hand under pt's calcaneus. Have pt try to lift opposite leg. DC feels for pressure on hand from pt pushing down.

Positive: Pt says they are trying and DC feels no downward pressure. Suspect malingering.

Minor's Watch pt get out of a chair.

Positive: Pt does anything to take weight off their back. Body weight supported on uninvolved side by holding on to chair for support or pt places hands on knees or thighs while pushing into an upright position. Sign suggests SI joint lesions, lumbosacral strains and sprains, fractures, disc syndromes, and dystrophies and myotonias.

Lewin's Pt in sidelying position with downside leg flexed at hip and knee. DC stabilizes upper hip with one hand. With the other hand, upper leg is grasped near the knee and the thigh is extended on the hip.

Positive: Recurring pain or symptoms suggests a SI joint involvement.

Kemp's Pt supported by DC in a seated position. Pt is asked to lean forward to one side and then back around to eventually bend obliquely backward by placing their palm on their buttock and sliding it down the back of the thigh and leg as far as possible. This should close the IVF and cause compression of the nerve roots in low back.

Positive: Compression causes or aggravates radicular pain in the thigh and leg, indicative of nerve root compression. Also may indicate a strain/sprain and can occur at any point during the test.

# Thoraco/Lumbo/Pelvic Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Gillet's Pt stands while DC palpates PSIS with one thumb and palpates sacrum with the other thumb staying parallel to the first thumb. The pt is asked to stand on one leg while pulling the opposite knee up toward their chest. Repeat on other side and compare bilaterally. PSIS on the side of hip flexion should move slightly anterior.

Positive: When PSIS on ipsilateral side of knee flexion does not move or moves minimally in the inferior direction. Indicates SI joint involvement.

Trendelenburg's Pt stands on one foot lifting the other foot up off the ground.

Positive: Pt's pelvis tilts towards the lifted foot, with added knee flexion needed to prevent the foot from hitting the ground. Note the involvement is on the contralateral side to the fallen hip.

May indicate: abductor weakness, subluxation or dislocation of hip, shortened femoral neck.

Pt's with a positive Trendelenburg's test usually walk with a "dipping gate".

Valsalva's Pt forcibly exhales or pushes downward through their gut while keeping their mouth and nose closed. This increases intraspinal pressure.

Positive: Pain and symptoms recur. Indicates nerve impingement by an intervertebral disc.

Lhermitte's Pt is seated. Pt tips head into flexion.

Positive: Sudden transient electric-like shocks extending down spine. Indications: compression of cervical spine, MS, disc degeneration, herniation of cervical disc, cervical spinal cord tumor.



# Thoraco/Lumbo/Pelvic Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Babinski's Firmly stroke the bottom of the pt's foot.

Positive: Big toe moves toward the top surface of the foot and the other toes fan out.

This reflex, or sign, is normal in very young children. It is not normal after age 2.

Indicates damage to nerve paths connecting spinal cord and brain (corticospinal tract).

## **Possible causes:**

Amyotrophic lateral sclerosis (Lou Gehrig's disease)

Brain tumor

Friedreich's ataxia

Head injury

Hepatic encephalopathy

Meningitis

Multiple sclerosis

Pernicious anemia

Poliomyelitis (some forms)

Rabies

Spinal cord injury

Spinal cord tumor

Stroke

Syringomyelia

Tuberculosis (when it affects the spine)



# Hip Physical Examination

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website click on:  
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## Hip

### Inspection

Finding	Positive
Mass	
Swelling	
Discoloration	
Deformity	
Cicatrix	
Joint Play	
Bony Palpation	
Soft Tissue Palpation	
Gait Disturbance	
Antalgia	

### Passive Range Of Motion

Hip	Norm	Exam	Pain
Flexion	120		
Extension	30		
Internal Rotation	35		
External Rotation	45		
Abduction	45		
Adduction	25		

### Active Range Of Motion

Hip	Norm	Exam	Pain
Flexion	120		
Extension	30		
Internal Rotation	35		
External Rotation	45		
Abduction	45		
Adduction	25		

### Orth/Neuro Tests

Test	Left	Right
Hibb's		
Patrick FABER's		
Thomas		

### Muscle Strength

Test	Left	Right
Flexors		
Extensors		
Abductors		
Adductors		
Internal Rotators		
External Rotators		
Quadriceps		
Hamstrings		

5 = normal; full ROM, full resistance

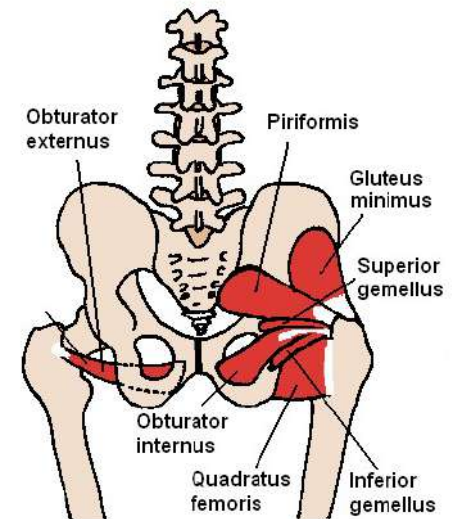
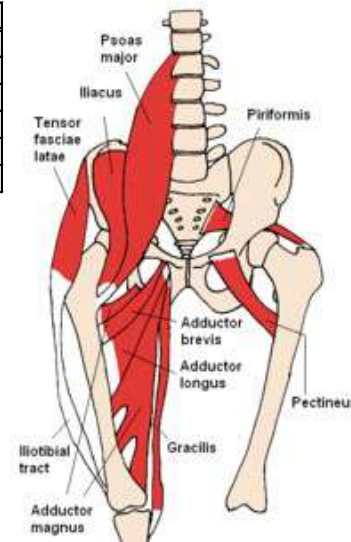
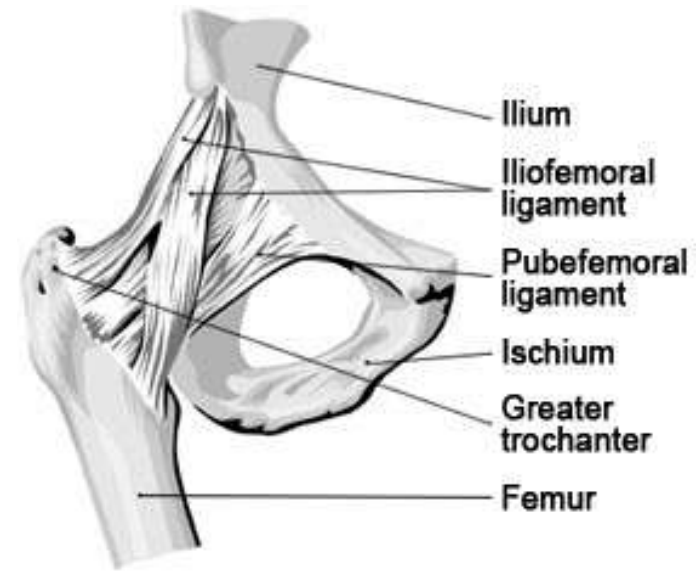
4 = good; full ROM, some resistance

3 = fair; full ROM, against gravity

2 = poor; full ROM, no gravity

1 = trace; no motion, with contractility

0 = zero; no motion, no contractility



# Hip Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Hibb's Pt is prone. DC stands next to pt on involved side. DC stabilizes pt's contralateral uninvolved hip, flexes pt's knee on involved side toward the buttock, and then slowly adducts the leg, which externally rotates the femur.

Positive: Pain initiated in hip joint indicates a hip lesion; pain rising in SI joint but not the hip indicates a SI joint lesion.

Patrick's (FABERE) FABERE: flexion, abduction, and external rotation . Pt is supine on table. DC takes involved leg and flexes knee and rotates it so inside of knee faces up. DC places foot on opposite knee. DC stabilizes pelvis by placing hand on pelvis on opposite side.

Positive: Pain in the groin, buttocks, pelvis, or back, indicates SI or hip joint involvement.

Thomas Pt is supine. DC checks for lordosis which is increased with tight hip flexor. DC then flexes one hip bringing the knee to the chest and asks pt to hold the knee to help stabilize the pelvis and flatten out the lumbar region.

Positive: Leg being tested (leg on table) will raise off of table. If pt does not have a hip flexion contraction it will remain flat on the table.

Alternative: Test can be performed with starting position of both knees fully flexed to the chest and slowly lowering the leg being tested to see if the leg makes it to the table.

Positive: Lack of full hip extension with knee flexion less than 45° indicates iliopsoas tightness.



# Knee Physical Examination

All exam forms on website click on:  
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## Knee Physical Examination

### Knee

#### Inspection

Finding	Positive
Mass	
Swelling	
Discoloration	
Deformity	
Cicatrix	
Joint Play	
Bony Palpation	
Soft Tissue Palpation	
Gait Disturbance	
Antalgia	

#### Passive Range Of Motion

Knee	Norm	Exam	Pain
Flexion	130		
Extension	5		
Internal Rotation	10		
External Rotation	10		

#### Active Range Of Motion

Knee	Norm	Exam	Pain
Flexion	130		
Extension	5		
Internal Rotation	10		
External Rotation	10		

#### Orth/Neuro Tests

Test	Left	Right
Pat/Femoral Grind		
Effusion		
Apprehension		
Tinel's		
Anterior Drawer		
Ant Drawer w/Rot		
Posterior Drawer		
Post Drawer w/Rot		
Helfet's		
McIntosh's		
Lachman's		
Hyperflexion		
McMurray's		
Steinman's		
Apley's		

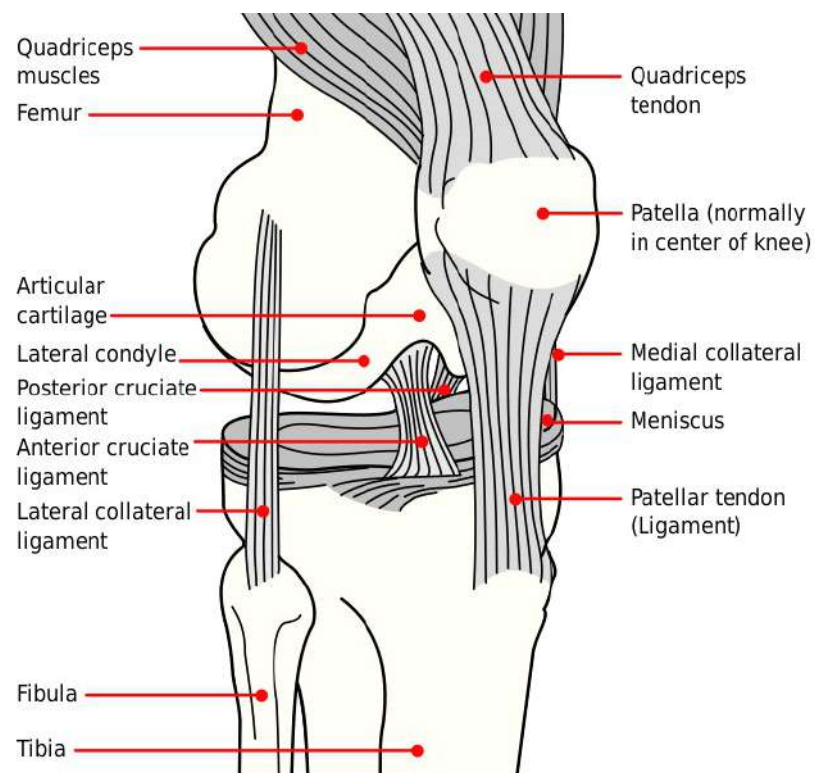
#### Circumference

Knee	Left	Right
Inches		

#### Muscle Strength

Test	Left	Right
Flexors		
Extensors		
Abductors		
Adductors		

5 = normal; full ROM, full resistance  
 4 = good; full ROM, some resistance  
 3 = fair; full ROM, against gravity  
 2 = poor; full ROM, no gravity  
 1 = trace; no motion, with contractility  
 0 = zero; no motion, no contractility



# Knee Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Patellar/Femoral Grind Pt is supine with the involved knee extended. DC places web space of his hand just above the patella while applying pressure. Pt gently and slowly contracts the quadriceps.

Positive: Pain indicates patellofemoral joint involvement.

Effusion: Observe pt's knee. Look for gross asymmetries, such as the obliteration of the normal indentations.

Part 1. Try to create a fluid wave. Have pt supine with leg extended, and place one hand over the supra-patellar pouch and the other hand distal to the patella. Press down with the upper hand.

Positive: If fluid is present, you will feel it against your lower hand (diffuse tissue swelling will NOT create a wave). Indicates fluid in the knee.

Part 2. Gently push down on the patella.

Positive: If you can depress it, then the patella was "floating" in fluid before you pressed.

Indicates fluid in the knee.

Apprehension Pt is supine. Knee flexed to 30° or knee is in full extension.

DC applies pressure from medial patella forcing it laterally. Pt tightens quadriceps muscle.

Positive: Pain. Possibly indicates: patellofemoral syndrome, lateral patellofemoral instability or patellar subluxation (recent acute knee injury)

Tinel's Tap on fibular head to assess common peroneal nerve.

Positive: Numbness or tingling or reproduction of pts symptoms.



# Knee Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Anterior/Posterior Drawer Pt is supine. Hips flexed to 45°. Knees flexed to 90°. Feet flat on table. DC can sit on pt's feet to fix in place. Hold lower leg above calf with both hands.

Apply sudden firm pull forward (Anterior Drawer)

Apply sudden firm push back (Posterior Drawer)

Repeat maneuver in 3 positions of tibial rotation:

1. Tibia with no rotation   2. Tibia 30° internally rotated   3. Tibia 30° externally rotated

Positive: Normal is no more than 6-8 mm of laxity.

Anterior Drawer: Endpoint laxity indicates Anterior Cruciate Ligament Rupture.

Posterior Drawer: Endpoint laxity indicates Posterior Cruciate Ligament Rupture.

Helfet's Test (Screw Home Mechanism) - this is a normal knee function and if absent may indicate meniscal pathology, other internal derangement, or patellofemoral dysfunction.

How to: Pt sits with knees flexed over the edge table. A skin pencil is used to mark the midpoints of the tibial tuberosity and patella. These should align vertically. The pt extends the knee slowly to full extension and then DC makes markings again.

Positive: The 2nd mark does not lie lateral to the first mark on the tibia.

Indicates meniscal pathology, internal derangement, patellofemoral pathology

McIntosh's Pt lies on side. Involved knee extended and tibia internally rotated. DC applies valgus stress to knee (push from lateral side). Flex knee.

Positive: Clunk felt at 30° knee flexion, indicates possible ACL rupture.

# Knee Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Lachman's Pt is supine with knee in slight external rotation and 15-20° of flexion fully relaxed. DC stabilizes the anterior right femur with the right hand and draws the tibia anteriorly with the left hand at the posterior calf. This is most reliable test of ACL insufficiency

Positive: Pain and lack of firm end feel and increased displacement as compared to opposite side..

Hyperflexion Pt is supine. Hyperflex the knee.

Positive: Pain. Indicates meniscus involvement.

McMurray's Pt is supine. Foot is held in one hand by DC while the other hand palpates the joint line on both sides of the knee. Fully flex and extend the knee.

Positive: A click or grinding may indicate a tear of the meniscus.

Steinman's Pt supine. Knee held flexed at 90° and forced to external rotation, then internal rotation.

Positive: Pain upon external rotation indicates medial meniscal tear,

Pain upon internal rotation indicates lateral meniscal tears.

Apley's Grind Test Pt is prone with knee flexed to 90°. DC stabilizes posterior thigh with one hand while grasping plantar surface of the foot with the other hand. Then DC pushes down while internally and externally rotating the foot.

Positive: Pain on lateral rotation indicates lateral meniscus involvement and medial indicates medial meniscus involvement. For ligamentous injury the opposite side will have pain.



# Ankle & Foot Physical Examination

All exam forms on website click on:  
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## Ankle/Foot

### Inspection

Finding	Positive
Mass	
Swelling	
Discoloration	
Deformity	
Cicatrix	
Joint Play	
Bony Palpation	
Soft Tissue Palpation	
Gait Disturbance	
Shoe Wear	

### Passive Range Of Motion

Ankle/Foot	Norm	Exam	Pain
Plantar Flexion	45		
Dorsi Flexion	25		
Subtalar Inersion	5		
Subtalar Eversion	5		
Forefoot Abd	20		
Forefoot Add	10		

### Active Range Of Motion

Ankle/Foot	Norm	Exam	Pain
Plantar Flexion	45		
Dorsi Flexion	25		
Subtalar Inersion	5		
Subtalar Eversion	5		
Forefoot Abd	20		
Forefoot Add	10		

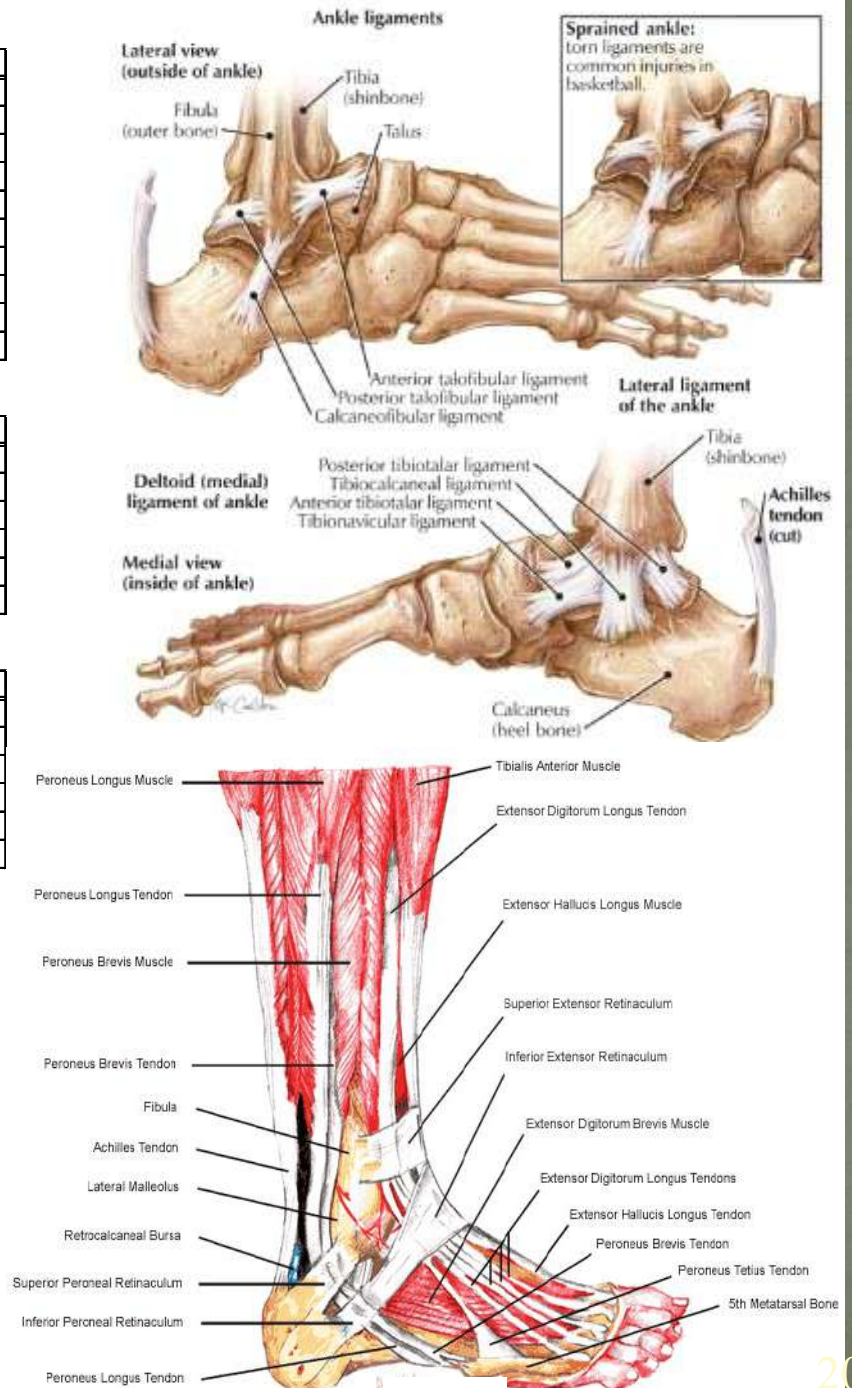
### Orth/Neuro Tests

Test	Left	Right
Anterior Drawer		
Lateral Stress		

### Muscle Strength

Test	Left	Right
Flexors		
Extensors		
Abductors		
Adductors		

5 = normal; full ROM, full resistance  
 4 = good; full ROM, some resistance  
 3 = fair; full ROM, against gravity  
 2 = poor; full ROM, no gravity  
 1 = trace; no motion, with contractility  
 0 = zero; no motion, no contractility



# Ankle & Foot Physical Examination

**For each exam reviewed please take the time to grab a partner and perform the exam procedure.**

Anterior Drawer Pt is seated. Knee flexed over edge of bench or table and the ankle should be allowed to fall into plantarflexion. DC stabilizes distal part of leg with one hand and applies anterior force to the heel with the other hand, allow the talus to rotate slightly medially which relaxes the deltoid ligament (which otherwise might give a false negative test). Test ankle in 10° of plantar flexion as this allows the most translation.  
Positive: Pain and/or laxity of joint. Indicates anterior talofibular ligament involvement.

Lateral Stress Knee is flexed 90° and gastrocnemius is relaxed. DC holds the heel from below by one hand while the other hand holds the lower leg. The hand on the heel is placed somewhat inferior lateral and is used to push the calcaneus and talus into inversion while the other hand grips the lower leg medially and pushes laterally. Note an end point.  
Positive: Pain and/or laxity of joint. Indicates calcaneofibular ligament and/or anterior talofibular ligament involvement.



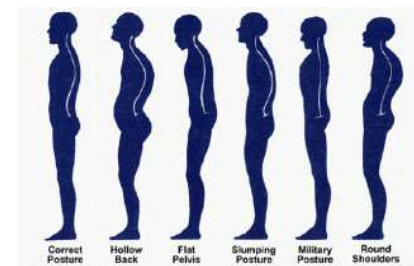
# Trauma/Neurological Physical Examination

## Page 1

All exams on this form have been previously reviewed.  
Use this form for a comprehensive exam.

All exam forms on website click on:  
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### Trauma/Neurological Physical Examination



#### Vital Signs

Age	
Height	
Weight	
Pulse /min	
Respiration /min	
BP	
Temp	

#### Resistive Efforts

Cervical Spine	Pain/Weak
Flexion	
Extension	
Left Rotation	
Right Rotation	
Left Lat Flex	
Right Lat Flex	

#### Range Of Motion

	Norm	Passive		Active	
		Exam	Pain	Exam	Pain
Cervical Spine					
Flexion	45				
Extension	55				
Left Rotation	70				
Right Rotation	70				
Left Lat Flex	45				
Right Lat Flex	45				

#### Deep Tendon Reflexes

Reflex	Disc	Root	Left	Right
Biceps	C4-C5	C5		
Brachio	C5-C6	C6		
Triceps	C6-C7	C7		
Quads	L3-L4	L4		
Hamstrings	L4-L5	L5		
Gastroc	L5-S1	S1		

0 = no response  
1 = somewhat diminished  
2 = normal  
3 = brisk  
4 = hyperactive

#### Postural Analysis

Region	L	N	R
Head: Lateral Flexion			
Head: Rotation			
Head: Translation			
Cervical Muscle Tension			
Thoracic Muscle Tension			
Lumbar Muscle Tension			

#### Cervical Spine Exam

Test	Pain	Relief
Neutral Comp		
L Lat Comp		
R Lat Comp		
Flexion Comp		
Ext Comp		
L Rot Comp		
R Rot Comp		
L Sh Dep		
R Sh Dep		
Distraction		

#### Muscle Strength

Test	Root	Left	Right
Deltoid	C5		
Biceps	C6		
Triceps	C7		
Finger Flex	C8		
Finger Abd	T1		
Iliopsoas	T12-L3		
Ant Tibialis	L4		
Ext Hal Long	L5		
Peroneals	S1		

5 = normal; full ROM, full resistance  
4 = good; full ROM, some resistance  
3 = fair; full ROM, against gravity  
2 = poor; full ROM, no gravity  
1 = trace; no motion, with contractility  
0 = zero; no motion, no contractility

#### Spinal Palpation

Left	Level	Right
	Occp	
	C1	
	C2	
	C3	
	C4	
	C5	
	C6	
	C7	
	T1	
	T2	
	T3	
	T4	
	T5	
	T6	
	T7	
	T8	
	T9	
	T10	
	T11	
	T12	
	L1	
	L2	
	L3	
	L4	
	L5	
	S1	

S = Spas; E = Edema  
F + Fixat H = Hypertonic  
T = Tenc N = Nodule  
P = Pain  
+Mild  
++Mod  
+++Severe

# Trauma/Neurological Physical Examination Page 2

All exams on this form  
have been previously  
reviewed.

Use this form for a  
comprehensive exam.

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## Trauma/Neurological Physical Examination

Range Of Motion		Passive		Active	
		Norm	Exam	Pain	Exam
T/L Spine	90				
Flexion	30				
Extension	30				
Left Rotation	30				
Right Rotation	30				
Left Lat Flex	20				
Right Lat Flex	20				

### Lumbo/Pelvic Exam

Ortho Exams	Left		Right	
	N	Ab	N	Ab
Nachlas				
Yeoman's				
Ely's				
Hibb's				
SLR				
WLR				
Braggard's				
Patrick's				
Goldthwaite's				
Soto-Hall's				
Gainslen's				
Brud/Kernig's				
Hoover's				

### Lumbo/Pelvic Exam

Exams	N	Ab
Minor's		
Lewin's		
Kemp's		
Gillet's		
Trendelenburg's		
Valsalva's		
Lhermitte's		
Babinski's		

### Resistive Efforts

T/L Spine	Pain/Weak
Flexion	
Extension	
Left Rotation	
Right Rotation	
Left Lat Flex	
Right Lat Flex	

### Derefield Leg Check

Position	Even	L Sh	R Sh
1			
2			

### Extremity Range Of Motion

Hip		Norm	Left	Right	Pain
Flexion	120				
Extension	30				
Abduction	45				
Adduction	20				
Int Rotation	45				
Ext Rotation	45				
Knee		Norm	Left	Right	Pain
Flexion	135				
Extension	0-5				
Ankle		Norm	Left	Right	Pain
Plantar Flex	50				
Dorsi Flex	20				
Foot		Norm	Left	Right	Pain
Inversion	5				
Eversion	5				
Shoulder		Norm	Left	Right	Pain
Flexion	90				
Extension	45				
Abduction	180				
Adduction	45				
Int Rotation	55				
Ext Rotation	45				
Elbow		Norm	Left	Right	Pain
Flexion	135				
Extension	0-5				
Supination	90				
Pronation	90				
Wrist		Norm	Left	Right	Pain
Flexion	80				
Extension	70				
Ulnar Dev	30				
Radial Dev	20				

### Girth Measurement

Area	Left	Right
Arm		
Forearm		
Thigh		
Leg		

### Dynamometer

Trial	Left	Right
1		
2		
3		
4		

### Leg Length Measured

Measurement	Left	Right
ASIS-Lat Mal		
GrTro-Lat Mal		

### Cranial Nerves

Nerve	Normal	Ab
I		
II		
III		
IV		
V		
VI		
VII		
VIII		
IX		
X		
XI		
XII		

### Cerebellar Exam

Exams	Normal	Ab
Heel/Toe Walk		
CHP Walk		
Rhomberg's		
Past Pointing		
Diadochokinesia		

### Sensory Dermatomes

Nerve	
C5	
C6	
C7	
C8	
T1	
L2	
L3	
L4	
L5	
S1	

### Radicular Symptoms

Hypo/Hyperalgesia  
Hypo/Hyper/Anesthesia  
Temp/Vibration/Prop Alteration  
2 point Discrimination

### Thoracic Outlet

Exams	Normal	Ab
Adson's		
Mod Adson's		
Costoclavicular		
Hyperabduction		



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