<u>Sports Injuries</u> <u>Guidebook</u>

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LEARNING OBJECTIVES

After reading *Sports Injuries Guidebook*, the participant will be able to:

- 1. Understand an in-depth overview of a variety of sports injuries.
- 2. Describe the common causes of a variety of sports injuries.
- 3. Name the anatomical structures involved in a variety of sports injuries.
- 4. Recognize sports injury identification cues and symptoms.
- 5. Indicate the common treatment options for a variety of sports related injuries.
- 6. Understand the concepts describing functional training.
- 7. List the common causes, symptoms, treatments and return to action guidelines for head injuries.
- 8. Identify the evaluation scales associated with concussions.
- 9. List the common causes, symptoms, treatments and return to action guidelines for neck and cervical spine injuries.
- 10.Identify the common causes, symptoms, treatments and return to action guidelines for shoulder injuries.
- 11.Identify the common causes, symptoms, treatments and return to action guidelines for arm and elbow injuries.
- 12.Identify the common causes, symptoms, treatments and return to action guidelines for wrist and hand injuries.
- 13.Identify the common causes, symptoms, treatments and return to action guidelines for chest and abdominal injuries.
- 14. Identify the common causes, symptoms, treatments and return to action guidelines for low back injuries.
- 15. Identify the common causes, symptoms, treatments and return to action guidelines for hip injuries.
- 16. Identify the common causes, symptoms, treatments and return to action guidelines for leg injuries.
- 17. Identify the common causes, symptoms, treatments and return to action guidelines for knee injuries.

- 18.Identify the common causes, symptoms, treatments and return to action guidelines for foot and ankle injuries.
- 19. Understand the positive contributions that integrative and complimentary medicine can make in sports injury management.



CEC/CEU Test for <u>Sports Injuries Guidebook</u> Remember to choose the BEST answer for each question.

1.	Functional conditioning is a training technique that focuses on
	a. the core
	b. isolated muscle groups
	c. movements
	d. balance
2.	Functional conditioning exercises occur in which of the following planes?
	a. Sagittal and Frontal Planes
	b. Transverse and Frontal Planes
	c. Transverse Plane only
	d. Sagittal, Frontal and Transverse Planes
3.	Most injuries occur in theplane during deceleration.
	a. Transverse
	b. Sagittal
	c. Frontal
	d. Multiplanar
4.	Which of the following proprioceptors will inhibit a muscle
	contraction when tension exceeds a certain threshold?
	a. Motor Neurons
	b. Golgi Tendon Organs
	c. Muscle Spindles
	d. Motor Programs
5.	The stretch-shortening reflex happens inof motion.
	a. The frontal plane
	b. The sagittal plane
	c. The transverse plane
	d. All planes

6.	Movement preparation programs should take from
	minutes.
	a. 5-10
	b. 10-20
	c. 15-30
	d. 30-45
7.	What type of flexibility training best prepares the proprioceptive system for activity?
	a. Dynamic
	b. Static
	c. Active
	d. PNF
8.	According to the Sports Injuries Guidebook , the best predictors of
	injury are
	a. Age and previous injury history
	b. Number of consecutive training days and age
	c. Number of consecutively training days and previous injury
	history
	d. Previous injury history and sport participation choices
9.	Breaking a training season down into smaller time chunks with specific, planned goals for each is an example of
	a. Periodization
	b. Progressive Overload
	c. Macrocycle
	d. Mesocycle
10	. When you match an increase in training with an increase in rest,
	you are following one of the strategies of
	a. Periodization
	b. Progressive Overload
	c. FITT
	d. Cross training

11	contractions are easy to perform but may not be
	appropriate for those with medical conditions as they can raise
	blood pressure.
	a. Isotonic
	b. Isometric
	c. Isokentic
	d. Dynamic
12	during the off season can help reduce injury risk and
	maintain strength and endurance.
	a. Cross training
	b. Interval training
	c. Periodization training
	d. Fartlek training
13.	. Fitness assessments for athletes should be completed every
	a. 2-3 weeks
	b. 1 Month
	c. 2-3 months
	d. 4-6 months
14	. Functional abnormalities can be caused by
	a. Poor technique
	b. Equipment
	c. Injuries
	d. All of the above
15.	. Most healthy diets contain percent carbohydrates.
	a. 30-40
	b. 40-45
	c. 50-55
	d. 65-70
16	. Endurance athletes should generally consumegrams
	protein per kg body weight daily.
	a5
	b. 1.0
	c. 1.5
	d. 2.0

17.	Polv	phenols are a type of
	•	Antioxidants
		Essential fat
		Vitamin
		Mineral
18.		n re-hydrating after exercise the recommendation is to drink liters of fluid per kilogram of body weight lost.
		<u>.5</u> - 1.
	b.	11.5
	c.	2 2.5
	d.	3 3.5
19.	The	"P" in the acronym PRICE stands for
	a.	Pain
	b.	Progression
	c.	Prevention
	d.	Protection
20.	HAR	RM stands for:
	a.	Heat, Alcohol, Running, Massage
	b.	Heat, Antioxidants, Resistance, Massage
	c.	Heat, Anti-inflammatory, Running, Massage
	d.	Hydration, Assessment, Running, Massage
21.	NSA	IDs are most appropriate
	a.	For long term pain management
	b.	For the initial stages of inflammation
	c.	For athletes with kidney problems
	d.	Combined with acetaminophen
22.	Budo	dy taping the fingers is an example of
		Anatomical splinting
	b.	Functional bracing
	c.	Prophylactic bracing
	d.	Transitional splinting

	n of the following is LEAST likely to occur in young athletes
a.	Overuse injuries
b.	Malnutrition
c.	Dehydration
d.	Premature closure of the growth plates
24. When	a bone is broken but still maintains its correct position, it is
referr	ed to as a
	Displaced fracture
b.	Comminuted fracture
c.	Simple fracture
	Compound fracture
25. When	a tendon tears away a piece of bone it is referred to as a(n)
a.	Avulsion fracture
b.	Stress fractures
c.	Comminuted fracture
d.	Displaced fracture
26. If an	athlete experiences a complete tear of a muscle tendon unit,
	ould be referred to as a
	Grade I Strain
b.	Grade I Sprain
	Grade III Strain
d.	Grade III Sprain
27. A seri	ious and difficult to treat skin infection that can be picked
	om training room equipment is
_	Athletes Foot
	Methicillin Resistant Staph Aureus
	Corns
	Melanoma
28.	_can identify soft tissue injuries.
	CAT Scan
	MRI
	X-ray
	Nuclear Rone Scan

29	are commonly caused by a sudden impact to the
	with acceleration and deceleration forces.
a.	Concussions
b.	Subdural hematomas
c.	Epidural hematomas
d.	Burners
30.The _	measures levels of consciousness.
a.	Cantu Grading Scale
b.	American Academy of Neurology Scale
c.	Vienna Concussion Conference Scale
d.	Glasgow Coma Scale
	thlete with retrograde amnesia will not be able to remember
event	s an injury.
	30 minutes prior to
	immediately preceding
	immediately after
d.	30 minutes after
	nost common symptom of Post-concussion Syndrome is
	Dizziness
	Fatigue
	Headaches
d.	Blurred vision
	h of the following guidelines allow for a quicker return to for concussed athletes?
a.	AAN
b.	Cantu
c.	Glasgow
d.	Spurling
34. Subd	lural and epidural hematomas are usually experienced in
a.	aquatic sports
b.	racquet sports
c.	team sports
d.	contact sports

35. Athletes suspected of having a subdural hematoma should

- a. Not be allowed to return to play that day
- b. Be immediately taken to the hospital
- c. Have neurological exams on the side lines every five minutes
- d. Be evaluated using the Glasgow Coma Scale

36. Which of the following skull fracture is a "crack in the cranium"?

- a. Comminuted Fracture
- b. Depressed Fracture
- c. Basal Fracture
- d. Linear Fracture

37. The first step of treatment for a nasal fracture is to

- a. Maintain an open airway
- b. Pinch the nostrils to control bleeding
- c. Immobilize the lower jaw
- d. Apply a cold pack

38.A hematoma in the outer ear is most commonly seen in which of the following sports?

- a. Water polo
- b. Football
- c. Wrestling
- d. Volleyball

39. An athlete with a subjunctival hemorrhage can return to play

- a. Generally without delay
- b. In two days
- c. In two weeks
- d. Two weeks after complete healing

40. Which additional piece of first aid equipment is recommended specifically for helmet sports?

- a. Backboard
- b. Phillips screwdriver
- c. Ice
- d. Resuscitation equipment

41.V	Vhip	olash is a trauma injury to the
	a.	Spinous processes
	b.	Spinal cord
	c.	Soft tissues of the cervical spine
	d.	Skull
42. 1	Burr	ners are a(n) to a nerve root.
	a.	Fracture
	b.	Tear
	c.	Avulsion
	d.	Contusion
43. V	Whi	ch of the following is LEAST likely to occur in American
fe	ootb	all?
	a.	Cauliflower ear
	b.	Stinger
	c.	Whiplash
	d.	Concussion
44. V	Whi	ch of the following is a common treatment for a burner?
	a.	Muscle relaxants
	b.	Massage
	c.	Electrical stimulation
	d.	No treatment is required
45. <i>A</i>	Afte	r a burner an athlete can return to play when all of the
		ving conditions are met EXCEPT
		Pain free range of motion
		A positive Spurling maneuver
		Full strength in the upper extremities
		Full strength in the shoulder
46.		is a positive response to the Spurling maneuver.
	a.	Local neck pain
		Reduced range of motion in the neck
		Bilateral shoulder weakness
	d.	Pain in the arm on the affected side

47. Cerv	rical osteoarthritis is commonly seen in those over
a.	60
b.	50
c.	35
d.	25
EXC	
a.	Curing the degenerating cervical vertebrae
b.	Pain management
c.	Cervical muscle strengthening
d.	Prevention of additional deterioration
	ch of the following is the LEAST likely cause of cervical disc
injur	
	Bone spur formation
	Foraminal narrowing
	Acute disc rupture
d.	Intervertebral disc space deterioration
50. Com	mon signs of a cervical disc injury include
a.	Chronic neck pain
b.	Numbness and tingling in the arms
c.	Weakness in the legs
d.	Both A and B
51. Tran	sient quadriplegia is a sign of
a.	Cervical stenosis
b.	Whiplash
c.	Burners
d.	Cervical osteoarthritis
52. Athlo	etes with uncorrected cervical stenosis
	are at a decreased risk of neurological injury
	should avoid contact sports
c.	should avoid all sports
d.	always experience burning hands syndrome

		tures to the spinous process and chip fractures in the
(cal vertebrae tend to be
	a.	Unstable
		Catastrophic
	c.	Stable
	d.	Compressive
54.	The	glenohumeral joint is an example of a joint.
	a.	Saddle
	b.	Ball and socket
	c.	Hinge
	d.	Pivot
55.		muscles are dynamic shoulder stabilizers.
	a.	Rotator cuff
	b.	Biceps brachii
	c.	Triceps brachii
	d.	Deltoid
56.		of the most common bones fractured in contact sports is the
		Humorous
		Femur
		Clavicle
	d.	Ulna
		etes can normally return to contact sports weeks
		a collar bone fracture.
		12
	b.	
	c.	
	d.	2
58.	Shou	lder dislocations are commonly caused by an impact to the of the shoulder with the arm
•	a.	Back, outstretched
		Front, overhead
		Front, flexed
		Back, overhead

59. Show	ald dislocations can best be described as the
a.	Humeral head slipping out of the glenoid fossa
b.	Humerous detaching from the clavicle
c.	Humeral head slipping out of the AC joint
d.	Scapula slipping out of the glenoid fossa
60. After	r an athletes first shoulder dislocation, the arm and shoulder
	d be in a brace or sling.
	Reduced
b.	Ice packed
c.	Immobilized
d.	Rotated
61. Shou	llder reduction can be described as
	Putting the head of the humerus back into the socket
b.	Packing the glenoid fossa
c.	Removing the adhesive capsulitis
d.	Strengthening the laxity of the rotator cuff
	verage, athletes can return to play withinweeks of an l shoulder dislocation.
a.	3-4
b.	1-2
c.	4-8
d.	8-12
63. As st	ated in the text, recurrent shoulder dislocations can be
cause	d by a variety of contributing factors EXCEPT
a.	Age
b.	Activity levels
c.	Gender
d.	Structural abnormalities
64. Bank	kart lesions are a detachment of the
	Glenoid fossa
b.	Glenoid labrum
c.	Rotator cuff
d.	Shoulder capsule

65.SLA	P is an injury to the
	Face
b.	Labrum
c.	Triceps Tendon
d.	AC Joint
66. The	step-off deformity can be seen with
a.	AC joint separations
b.	Glenoid labral separations
c.	Rotator cuff tears
d.	Shoulder subluxations
67. AC j	oint sprains are commonly treated with
	Immobilization, surgery and anti-inflammatory drugs
b.	Ice, anti-inflammatory drugs and surgery
c.	ROM exercises, electric stimulation and anti-inflammatory
	drugs
d.	Immobilization, ice and anti-inflammatory drugs
68. The	is the most commonly torn rotator cuff tendon.
a.	Infraspinatus
b.	Teres minor
c.	Subscapularis
d.	Supraspinatus
69. Rota	tor cuff tears are most common in athletes over
a.	
	40
b.	
	40 50 30
c.	50
c. d.	50 30
c. d. 70. Whi	50 30 20
c. d. 70. Whi treat	50 30 20 ch of the following conditions have similar symptoms and
c. d. 70. Whi treat a.	50 30 20 ch of the following conditions have similar symptoms and ment recommendations?
c. d. 70. Whi treat a. b.	50 30 20 ch of the following conditions have similar symptoms and ment recommendations? Shoulder impingement and bursitis

71. Swim	mers are at risk for developing
a.	AC joint separation
b.	Cervical stenosis
c.	Shoulder dislocation
d.	Shoulder impingement
72.Shou	lder impingement can be described as the
a.	Biceps tendon getting impinged under the acromion
b.	Inflammation of the biceps tendon due to rubbing in the
	bicipital groove
c.	Subacromial bursa and rotator cuff getting pinched under the
	acromion
d.	Rotator cuff getting impinged under the coracoid process
73. Athl	etes who experience ausually require surgery
	der to return to play.
a.	Distal biceps tendon rupture
b.	Proximal biceps tendon rupture
c.	Shoulder impingement
d.	Shoulder subluxation
74. An a	ppropriate initial treatment of is
avoid	ing painful motions and rest.
a.	Biceps Tendon Rupture
b.	Bicipital Tendonitis
c.	Shoulder Dislocation
d.	Transient Neuropraxia
75. Athl	etes who have experienced DVT should not return to contact
	s untilis completed.
_	Physical therapy
	Anti-coagulation therapy
c.	Hydrotherapy
d.	Cyrotherapy

76.		is caused by repeated twisting and torque on the
	forea	rm and elbow.
	a.	Bicipital Tendinitis
		Carpal Tunnel Syndrome
	c.	Lateral epicondylitis
	d.	Pronator Syndrome
77.	Tenn	is elbow occurs
	a.	In men three times more then women
	b.	In women twice as many times as men
	c.	Three times more in young athletes as those over 50
	d.	Twice as many times in athletes over 50
78.	Med	ial Epicondylitis commonly strikes
	a.	Men between 20-49
	b.	Women between 20-49
	c.	Men between 50-65
	d.	Women between 50-65
79.	Com	mon symptoms ofinclude pain on the inside of the
	elbov	v that gets worse with wrist flexion and pronation.
	a.	Radial tunnel syndrome
	b.	Golfers elbow
	c.	Tennis elbow
	d.	Bicipital tendinitis
80.		can be identified by pain and numbness on the
	back	of the hand and forearm, and weakness in the fingers with
	wrist	extension that does not resolve with rest.
	a.	Tennis Elbow
	b.	Golfers Elbow
	c.	Little League Elbow
	d.	Radial Tunnel Syndrome
81.	Athl	etes most susceptible to pronator syndrome are
	a.	Baseball Catchers
	b.	Golfers
	c.	Weight Lifters
	d.	Swimmers

82.	Tom	my John surgery has been the most successful treatment
		n for
	a.	Posterior interosseous nerve syndrome
	b.	Ulnar collateral ligament tear
	c.	Little League elbow
	d.	Cubital tunnel syndrome
	Little EXC	e League elbow injuries can include all of the following EPT
	a.	Avulsion of the posterior olecranon epiphysis
	b.	Separation of the medial apophysis off the humerous
	c.	Posterior interosseous nerve impingement
	d.	Impingement of the tip of the olecranon
84.	To r	educe the risk of Little League Elbow
		Limit the quantity and types of pitches
	b.	Limit the innings pitched
	c.	Increase the distance between the pitching mound and home
		plate
	d.	Increase the height of the pitching mound
85.		servative treatment of Little League Elbow focuses on
		RICE
		PRICE
		Electrical Stimulation
	d.	Icing
	Whie activi	ch of the following elbow injury is not common to throwing ities?
	a.	Olecranon Bursitis
	b.	Cubital Tunnel Syndrome
		Osteochondritis Dissecans
	d.	Humeral Stress Fracture
87.	Wri	st fractures and sprains are usually caused by
		Falling on to the hand
		Repetitive overuse
		Repetitive micro-trauma
		Improper pitching techniques

88. Scap	hoid fractures can be serious because they
a.	Can be confused with sprains
b.	Do not heal well
c.	Are very painful
d.	Always require surgery
89. Wris	st sprains are normally treated with
a.	5-7 minute ice treatments
b.	20 minute ice treatments
c.	Heat therapy treatments
d.	Night splints
90. Nigh	t numbness and a radiating tingling sensation when tapping
	side of the wrist are signs of
a.	DeQuervains Syndrome
b.	Intersection Syndrome
c.	Carpel Tunnel Syndrome
d.	Drummer Boys' Palsy
91. The	most common hand injury in sports is a
a.	Finger dislocation
b.	Finger sprain
c.	Mallet finger
d.	Thumb sprain
92. A tra	ainer may suspect if an athlete has chest pain,
	ness of breath, is hyperventilating along with decreased
	h sound on the painful side.
	Pneumothorax
b.	Hemothorax
c.	Commotio Cordis
d.	Both A & B
93. An A	AED can be used in the treatment of
a.	Hemothorax
b.	Costochondritis
c.	Commotio Cordis
d.	Pneumothorax

	the g	ung baseball pitcher is hit in the chest with a ball and falls to round. He's not breathing, no pulse, no heartbeat and is ng to turn blue. You suspect he has experienced
	 а	Commotio Cordis
		Hemothorax
		Grand Mal Seizure
		Precordial Thump
95.	Trea	atment of non-serious rib fractures should focus on
	a.	Increasing lung capacity
	b.	Alleviating pain
	c.	Cardiorespiratory fitness
	d.	Pulmonary efficiency
96.		al fractures are commonly caused by
	a.	Repetitive stresses
	b.	Overhead throwing mechanics
	c.	Blunt trauma
	d.	Rotational forces
		thlete with an inflammation of the cartilage that connects the
		o the sternum has
		Costcochondritis
		Tiettze's Syndrome
		Interchondral subluxation
	d.	All of the above
		s been projected that up to % of the US population xperience at least one episode of low back pain.
		80
		60
		40
		20

99. B	ack	x pain will heal itself about	$_{_}$ % of the time.
		90	
	b.	70	
	c.	50	
	d.	30	
100.		The most common causes of low	/mid back pain are
	a.	Annular tears	
	b.	Contusions	
	c.	Herniated discs	
	d.	Sprains and strains	
101.		Lumbar contusions are differen	t from sprains or strains in
th		they exhibit with	
		Low back spasms	
		Low back stiffness	
		Non-radiating dull pain	
	d.	Radiating pain into the buttocks	
102.		The following treatment can be	used for low back sprains,
st	rair	ns and contusions:	
	a.	Ice and anti-inflammatory drugs	
	b.	Ice and Electrical Stimulation	
	c.	Anti-inflammatory drugs and splin	ts
	d.	Heat and anti-inflammatory drugs	
103.		A direct trauma to the posterior	spine during contact sports
ca	n c	ause	
	a.	Annular tears	
	b.	Burst fractures	
	c.	Herniated discs	
	d.	Transverse process fractures	
104.		According to the text, bracing ar	nd analgesics are a common
tr	eatı	ment for	
	a.	Facet joint pain	
	b.	Vertebral compression fractures	
	c.	Annual tears	
	d.	Lumbar strains	

105.		Aof the vertebrae is an emergency and can		
potentially cause paralysis.				
	a.	Burst fracture		
	b.	Compression fracture		
	c.	Spondylolysis		
	d.	Spondylolisthesis		
106.	inr	Gymnasts are prone to a variety of low back and hip ies due to		
111		Extreme forward bending movements		
		Hyperextension of the lumbar spine		
		Impact from falls		
		All of the above		
	u.	7th of the above		
107.		When thebulges through the annulus fibrosis		
to	wa	rd the nerve roots, this is a herniated disc.		
	a.	Nucleus pulposus		
	b.	Annulus		
	c.	Transverse Process		
	d.	Facet		
108.		Sacroiliac joint dysfunction can be caused by		
	a.	Sacrum fracture		
	b.	Pregnancy		
	c.	Imbalance of muscles attaching to the pelvis		
		All of the above		
109.		Approximately percent of running athletes		
ex	pei	rience hip and pelvis injuries.		
	a.	- · · ·		
	b.	10		
	c.	25		
	d.	30		
110.		Adductor tendinosis is caused by		
	a.	Hip pointer		
		Leg length discrepancy		
		Osteoarthritis		
	d.	Repetitive strain		

111.		Trochanteric bursitis most commonly occurs in which
gr	ouj	o of athletes?
	a.	Golfers
	b.	Long distance runners
	c.	Gymnasts
	d.	Hockey players
112.		Iliopsoas tendinitis is exacerbated by repetitive
	a.	External rotation
	b.	Hip flexion
	c.	Hip extension
	d.	Internal rotation
		Athletes with a tear in the hip labrum should avoid
ac		ties such as
		Pivoting and twisting of the hip
		Deep flexion and extension of the hip
		Running
	d.	All of the above
114.		· · · · · · · · · · · · · · · · · · ·
		Anti inflammatory drugs
		Icing
		Surgery
	d.	Electric stimulation
115.		Snapping hip syndrome treatment includes strengthening
an		tretching the
		Hip flexors, abductors, adductors and iliotibial band
		Hip extensors, gluteus maximus, and tensor fasciae latae
	c.	Hip flexors, abductors, adductors and gluteus maximus
	d.	Hip extensors, abductors, adductors and the iliotibial band
116.		Repetitive stress and shearing at the symphasis pubis most
lik	•	causes
	a.	Adductor canal syndrome
	b.	Athletic pubalgia
	c.	Osteitis pubis
	d.	Pelvis avulsion fractures

hernia?		
	a. CT Scan	
	b. MRI	
	c. Ultrasound	
	d. X-ray	
118.	Which of the following groups is most susceptible to	
	croiliac joint injuries?	
Su	a. Pregnant runners	
	b. Young swimmers	
	c. Adolescent pitchers	
	d. Male golfers	
	d. Male gollers	
119.	v v	
	a. 1	
	b. 2	
	c. 3	
	d. 4	
120.	Lumbar lordosis can be caused by	
	a. Tight gluteus maximus	
	a. Tight glacus maximus	
	b. Tight hip extensors	
	b. Tight hip extensors	
404	b. Tight hip extensorsc. Tight hip flexorsd. Tight iliotibial band	
121.	 b. Tight hip extensors c. Tight hip flexors d. Tight iliotibial band Passive range of motion, isometric exercises and myofascial	
re	 b. Tight hip extensors c. Tight hip flexors d. Tight iliotibial band Passive range of motion, isometric exercises and myofascial lease are recommended for which phase of hamstring strain	
re	 b. Tight hip extensors c. Tight hip flexors d. Tight iliotibial band Passive range of motion, isometric exercises and myofascial lease are recommended for which phase of hamstring strain eatment? 	
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re tro	 b. Tight hip extensors c. Tight hip flexors d. Tight iliotibial band Passive range of motion, isometric exercises and myofascial lease are recommended for which phase of hamstring strain eatment? a. First phase b. Second phase c. Third phase d. Final phase d. Final phase A moderate quadriceps contusion will allow for grees of knee flexion during assessment. a. > 120 	

Which assessment tool would be used to diagnose a sports

117.

Generally, surgery is the treatment for a femoral stress **123.** fracture when the fracture is a. Displaced, on the outer lateral femoral neck b. Medial side on the femoral neck c. Non-displaced tension side stress d. Medial side of the femoral shaft 124. Which quadriceps muscle is most commonly strained? a. Vastus lateralis b. Vastus medialis c. Vastus intermedius d. Rectus femoris 125. Ultra sound, radiation and NSAIDs are recommended treatment options for a. Compartment Syndrome b. Myositis Ossificans c. Osteitis Pubis d. Quadriceps Strain 126. Athletes with patello femoral pain usually have the following symptoms: a. Joint clicking b. Localized tenderness c. Significant joint swelling d. Patellar subluxation **127.** Iliotibial Band Syndrome is most common to which group of athletes? a. Cyclists, runners, and tri-athletes b. Football, rugby and baseball players c. Golfers, hockey players and ice skaters d. Swimmers, long jumpers and gymnasts A medial collateral ligament tear is caused by an impact to 128. the __ a. Back side of the knee b. Lateral side of the knee c. Medial side of the knee d. Front of the patella

129.	The Lachman Test is used to identify
	a. Anterior cruciate ligament tears
	b. Medial collateral ligament tears
	c. Meniscal tears
	d. Posterior cruciate ligament tears
130.	Treatment of posterior cruciate ligament tears should focus
on	Ctuan athoning the hometrings
	a. Strengthening the hamstrings
	b. Strengthening the quadriceps
	c. Stretching the quadricepsd. Stretching the hamstrings
131.	8 . I
WI	th patellar tendinitis? a. Baseball
	b. Basketball
	c. Golf
	d. Swimming
	u. Swiming
132.	In young athletes, Osgood-Schlatter syndrome can be entified by
Iu	a. Tenderness under the patella
	b. Tenderness at the tibial plateau
	c. Tenderness at the femoral condyle
	d. Tenderness at the tibial tubercle
100	
133.	The ankle's PRIMARY function is to
	a. Allow inward-outward rotation
	b. Stabilize the foot while walking on uneven surfaces
	c. Stabilize the leg in pivoting actions d. Transfer energy from landing to push off
	d. Transfer energy from landing to push off
134.	An athlete increases her running distance and duration and
	gins to experience burning and aching over the tibia on her
me	edial side. These symptoms indicate
	a. Lower leg stress fracture
	b. Anterior compartment syndrome
	c. Shin Splints
	d. Achilles' tendonitis

135.		Fasciotomy is a surgical treatment for
	a.	Achilles' tendonitis
	b.	Bone spurs
		Compartment syndrome
	d.	Tibial stress syndrome
		A soccer player is being evaluated on the sideline after ag a pop on the back of her ankle. She cannot flex her ankle s experiencing significant pain when she tries to put weight
01	n he	r leg. Based on the scenario, what injury would be most
lil	kely	·?
	a.	Achilles' tendon rupture
	b.	Calf tear
		Lower leg compartment syndrome
	d.	Lisfranc's sprain
137.		Most athletes experiencing a Grade I ankle sprain will be
al	ble 1	to return to action in
	a.	3-4 days
	b.	1-2 weeks
		2-4 weeks
	d.	4-6 weeks
138.		Posterior tibial tendinitis is most common in
	a.	Flat foot runners
	b.	Cavus foot runners
	c.	Simian foot runners
	d.	Peasant foot runners
139.		A basketball player who is complaining of pain and
SV	velli	ing on the front of her ankle and who is unable to completely
do	orsi	flex her ankle is exhibiting signs of
		Ankle fracture
		Ankle bone spurs
		Plantar fasciitis
	d.	March stress fracture

	One of your athletes mentions that for the last week she has arp pain in her heel when she gets out of bed in the morning. is a symptom of
a.	Bone spurs
	Hallux rigidus
c.	Linfranc's sprain
d.	Plantar fasciitis
141.	Which of the following foot injuries usually requires
surge	ery?
a.	March Stress Fracture
b.	Navicular bone stress fracture
c.	Painful accessory navicular bone
d.	Tennis Toe
	Stiffness and pain in the big toe, along with a bump on the are indicators for which of the following difficult to treat
-	ition?
a.	Bunions
b.	Freiberg's disease
	Hallux rigidus
	Turf toe
143.	Bunions are caused by
	Inherited disorders
b.	Tight fitting shoes
	Wide shoes
d.	Osteoarthritis
144.	Tennis toe is
a.	A contusion or bruise under the toe nail
	A serious injury requiring immediate medical attention
c.	
d.	Treated with minor surgery to remove the toe nail

- 145. A player on the women's college soccer team comes to you complaining of chronic pain and stiffness in her right foot toward the middle of the forefoot. She has had X-rays, but they have been inconclusive. From this scenario, what foot condition would be the most likely cause of her pain?
 - a. Morton's Neuroma
 - b. Joplin's Neuroma
 - c. Freiberg's Disease
 - d. Talon Noir
- 146. Which of the following botanicals has been shown to reduce inflammation, lower blood pressure, and reduce glucose levels?
 - a. Turmeric
 - b. Devil's Claw
 - c. Stevia
 - d. Ginger
- 147. Which of the following botanicals were noted as an effective anti-inflammatory for osteoarthritis?
 - a. Turmeric, and Devil's Claw
 - b. Stinging Nettle and Ginger
 - c. Ginger, Willow Bark and Devil's Claw
 - d. Ginger and Capsicum
- 148. Athletes with milk allergies should avoid ______.
 - a. Capsicum
 - b. Creatine
 - c. Ginger
 - d. Whey protein
- 149. For athletes, acupuncture is most commonly used for
 - a. Increasing concentration and pain reduction
 - b. Pain reduction and musculoskeletal injuries
 - c. Stress reduction and nausea
 - d. Weight loss and myalgia

150. Counter strain, cranial osteopathy and thrust technique are procedures used in ______.

- a. Acupuncture
- b. Ayurveda
- c. Chiropractic medicine
- d. Osteopathic medicine