UNIVERSAL INJURIES SURROUNDED BY BASKET PLAYERS: AN OVERVIEW

S. Senthil Kumaran¹, A. Abdul Halik², S. Princy³

¹Director, Unicorn Fitness, Madurai, Tamilnadu, India
²PhD Research Scholar, Department of Physical Education, Bharathiar University, Coimbatore, Tamilnadu, India
³PhD Research Scholar, Department of Physical Education and Yoga, Bharathidasan University, Tiruchirappalli, Tamilnadu, India

ABSTRACT
Basketball was first acquainted with the world in 1891 by Dr. James Naismith, utilizing a soccer ball and two peach crates. Today, high velocity, actual games hardly take after the first game. With current balls, high speed game comes numerous chances for wounds. It is assessed that more than 1.6 million wounds are related with ball every year. As indicated by an investigation of basketball players by the National Athletic Trainers' Association: 22% of all male basketball players supported at any rate 1 time misfortune injury every year. About 42% of the wounds were to the Ankle/foot, 11% hip and thigh, and 9% knee. Injuries were the most well-known kind of injury (43%). General injury was the second most regular sort of injury (22%). About 60% of the wounds happened during work on featuring the need to heat up and lash for preparing. About 59% of game-related wounds happened during the second 50% of the game, which recognizes weakness as an inclining factor. Counteraction is superior to remedial any wounds. Preventive methods intended to keep something unwanted like injury/sickness/infection or mischief from happening. Therapeutic implied ready to fix or relieving injury/sickness/illness.

1. INTRODUCTION
Basketball season now in progress, players will consider objectives and assumptions for the year where they remain in the setup, a particular detail, or group positioning. What may not be remembered for the rundown of objectives is by and large liberated from injury, which could ostensibly be perhaps the greatest factor to having the option to achieve the entirety of different objectives. Basketball is viewed as a physical game, instead of a crash sport like football or hockey. It has one of the greatest injury rates contrasted with other physical games with major parts in the people having the most noteworthy danger. Exploration has distinguished a modest bunch of wounds that are regular among basketball players:

2. MOST COMMON INJURIES IN BASKETBALL PLAYERS
2.1 Ankle sprains
From high school to the professionals, ankle sprains are the most common injury for basketball players. It is an injury of ligaments that stabilize the ankle joint, most often the ones on the outside (lateral aspect). The injury can occur when a player tries to move side-to-side quickly or when a player comes down from jumping and lands on another player’s foot. Strengthening and stretching of the ankle are important to both preventing the injury and treating it. Once a player suffers an ankle sprain, he or she is at increased risk of injuring it again. Taping the ankle
or using an ankle brace can help try to prevent future ankle sprains.

2.2 Knee Ligament Injuries
Basketball players are often afflicted by injuries of ligaments of the knee, commonly the MCL (medial collateral ligament) and ACL (anterior cruciate ligament). The MCL can be injured in varying degrees, ranging from a mild sprain to a complete tear. If this is the only injury of the knee, it can often heal well without surgery. However, an injury of the ACL is most commonly a complete tear, which is a season-ending injury as it requires surgery to reconstruct the ligament followed by a long rehab program. Players can attempt to prevent these injuries through a neuromuscular training program which helps with strength and balance to keep the knee stable.

2.3 Jumper’s Knee
This term refers to an injury of the patellar tendon that connects the kneecap (patella) to the lower leg (tibia). The tendon is put under significant stress the repetitive jumping and sprinting involved in playing basketball. In mild cases, the tendon can be inflamed (“tendinitis”) but more often it is a longer-lasting injury that flares up during periods of intense activity (“tendinosis”). Jumper’s knee is best treated with rest, stretching, anti-inflammatory medications, and a strengthening program once it has calmed down. Some players choose to use a patellar tendon strap.

2.4 Achilles Tendon Injuries
Similar to jumper’s knee, the Achilles tendon is under a great deal of stress with basketball. The Achilles tendon can develop as an overuse injury in the case of tendinitis and tendinosis, but it can also be an acute injury in the case of a tendon rupture. An Achilles tendon rupture is another season-ending injury that requires surgery. Preventing these injuries requires good stretching of the calf and Achilles tendon as well as strengthening exercises, specifically “eccentric” exercises.

2.5 Jammed Fingers
Jammed fingers occur when the ball contacts the end of the finger and causes significant swelling of a single joint.

2.6 Facial Cuts
A face cut is when an offensive player makes a cut that puts the player between the basketball and their defender.

2.7 Deep Thigh Bruising
Deep thigh bruising (contusion) is another common basketball injury, typically caused by an opponent’s elbow or knee inadvertently striking a player’s thigh muscles. Treatment of thigh bruising.

2.8 Stress Fractures
Stress fractures can occur from a rapid increase in activity level or training or from overtraining. Stress fractures in basketball most commonly occur in the foot and lower leg (tibia).

2.9 Concussion
This is a risk for all contact and collision sports. In basketball, a concussion can occur from a player’s head hitting another player (head-to-head/shoulder/elbow/knee/etc.) or when the head hits when falling to the floor. Players and coaches should be aware of symptoms of concussion so a player with a suspected concussion can undergo the necessary. Treatment involves rest from exercise followed by a slow return to play once symptoms have subsided.

3. PREVENTIVE MEASURES
3.1 Systematic Training
Must be follow the principles of training methodologies warming up, limbering down, concentrate basic and skill-related training physical fitness components, periodization, and systematic planning of training schedule. Have a pre-season physical examination and follow your doctor’s recommendations. Pay attention to environmental recommendations, especially in relation to excessively hot and humid weather, to help avoid heat illness. Avoid overuse injuries. More is not always better! Many sports medicine specialists believe it is beneficial to take off at least one season each year. Try to avoid the pressure that is exerted on young players to overtrain. Listen to your body and decrease training time and intensity if pain or discomfort develops. This will reduce the risk of injury and help avoid burnout. Talk with your coach and/or basketball trainer about an ACL injury prevention program and incorporating the training principles into team warm-ups and limbering down. The players should return to play only when clearance is granted by a health-care professional.

3.2 Playfields/Court
Clean of courts before play – check for slippery spots or debris. Play on a clean, dry, safe surface.

3.3 Playing Kit and Protective
Wear supportive playing kit and shoes with skid-resistant soles and have high tops. Use a mouth
guard, ankle braces, and safety glasses. Do not wear jewellery.

3.4 Food and Nutrition

Maintain balance diet with carbohydrates, proteins, fats, vitamins, and minerals. Hydrate adequately. Waiting until you are thirsty is often too late to hydrate properly. If you are injured, take the time needed to heal before you return to sports.

3.5 Techniques and Tactics

Use good technique and use tactics at the time of neck-to-neck situation game playing and follow the rules and regulations of the game.

4. HEALING MEASURES

Minor injuries, such as mild tissue, sprain, and strains, can often be initially treated at home/sports academies/ hostels using PRICE therapy for 3 or 4 days.

4.1 Price

Stands for protection, rest, ice, compression, and elevation.

4.2 Protection

Protect the affected area from further injury, for example, using a support.

4.3 Rest

Avoid exercise and reduce your daily physical training. Using crutches or a walking stick may help if you cannot put weight on your ankle or knee. A sling may help if you had injured your shoulder.

4.4 Ice

Apply an ice pack to the affected area for 15–20 min every 2–3 h. A bag of frozen peas, or similar, will work well. Wrap the ice pack in a towel so that it did not directly touch your skin and cause an ice burn.

4.5 Compression

Use elastic compression bandages during the day to limit swelling.

4.6 Elevation

Keep the injured body part raised above the level of your heart whenever possible. This may also help reduce swelling.

5. USE PAIN RELIEFS

Painkillers, such as paracetamol, can be used to help ease the pain. Ibuprofen and other non-steroidal anti-inflammatory drugs tablets or creams can also be used to ease pain and reduce any swelling. Aspirin should not be given to children under 16 years old.

6. IMMOBILIZATION

Immobilization can sometimes help prevent further damage by reducing movement. It can also reduce pain, muscle swelling, and muscle spasm. For example, slings, splints, and casts may be used to immobilize injured arms, shoulders, wrists, and legs while you heal. If you have a sprain, prolonged immobilization is not usually necessary, and you should try gently moving the affected joint as soon as you are able to do so without experiencing significant pain.

7. PHYSIOTHERAPY

Some people recovering from a long-term injury may benefit from physiotherapy. It is a specialist treatment where techniques such as massage, manipulation, and exercises are used to improve range of motion, strengthen the surrounding muscles, and return the normal function of the injured area. A physiotherapist can also develop an exercise program to help strengthen the affected body part and reduce the risk of the injury recurring.

8. CORTICOSTEROID INJECTIONS

A corticosteroid injection may be recommended if you have severe or persistent inflammation. It can help relieve pain caused by your injury, although for some people, the pain relief is minimal or only lasts for a short period of time. If necessary, a corticosteroid injection can be repeated, but you will usually only be able to have two or three injections a year. Side effects can include thinning of the skin, loss of fat, and infection. The doctor treating you will be able to explain the possible side effects in more detail.

9. SURGICAL AND PROCEDURES

Most sports injuries do not require surgery, but very severe injuries such as badly broken bones may require corrective treatment. This may include a manipulation or surgery to fix the bones with wires, plates, screws, or rods. In some cases, it may be possible to realign displaced bones without needing an operation. Certain other injuries may also occasionally require surgery. For example, an operation may be needed to repair a torn knee ligament.

10. RECOVERY FROM AN INJURY

Depending on the type of injury you have, it can take a few weeks to a few months or more to make a full recovery. You should not return to your previous level of activity until you have fully recovered, but you should aim to gently start moving the injured body part as soon as possible. Gentle exercises should help to improve the area’s range of movement. As movement becomes easier and the pain decreases, stretching and strengthening exercises...
can be introduced. Make sure you do not try to do too much too quickly because this can delay recovery. Start by doing frequent repetitions of a few simple exercises before gradually increasing the amount you do. In some cases, the help of a professional, such as a physiotherapist or sports injury specialist, may be beneficial. They can design a suitable recovery program and advise you about the exercises you should do and the number of repetitions.

11. CONCLUSION AND RECOMMENDATION

Injuries are unavoidable and will consistently be a piece of the sport of ball. Notwithstanding, with the legitimate preparing early and by going through the essential recovery after wounds, the time misfortune because of wounds can be reduced so players can have the best chance to accomplish the objectives that they have for the season ahead.

- Give them proper training under trained coaches.
- Create the knowledge of knee injuries, causes, and types in basketball.
- Provide them well-developed basketball court with all infrastructures.
- Encourage them for punctual exercise and healthy diet.
- Proper exercise lead of exercise should be scientific-based.
- Follow through of concerned skill should be imported in training.
- Proper shoes with proper play kit should be used within the practice as well as within competition.

12. REFERENCES

1. James, N. Inventor of Basketball, History, Kansas Heritage Group.