INTRODUCTION

Rugby is one of the world’s top three participation sports and is the national pastime in countries such as South Africa, Wales, and New Zealand. Parents in these countries have no more qualms about putting their young children in youth rugby programs than U.S. parents have about entering their kids in youth football programs.

We believe that in the U.S. rugby will increasingly be regarded as a vigorous, physically demanding sport that can be played safely by Americans of all ages.

As part of its mandate to provide safety resources for youth rugby programs, USA Rugby is pleased to present the accompanying information on enhancing safety in youth rugby.

INJURIES IN YOUTH RUGBY

Injuries seen in rugby are the same as those seen in any contact or collision sport. They include muscle sprains, ligament strains, bone fractures, lacerations (cuts), and contusions (bruises).

The mechanisms of acute rugby injuries are identical to those of general pediatric trauma cases. In other words, the sprained ankle of a youngster who tumbles down the stairs at home is no different from the adolescent rugby player's sprained ankle.

These injuries should be managed identically, with the criterion for rehabilitation being complete restoration of strength, range of motion, and balance.

Sometimes, however, a lack of concern is shown toward young athletes’ sports injuries. Injuries on the sports field are too often dismissed as “just part of the game.” At best, this laissez-faire approach delays recovery, prevents return to full function, and predisposes the young athlete to reinjury. At worst the athlete may not be able to play the sport again and may carry long-term debilitating injuries into adulthood.

Because of the mechanism of growth, young athletes are vulnerable to unique injuries caused by a fall, a twist, or a turn. Because the “growth plates” at the ends of the long bones are softer than the main part of the bone, they are susceptible to injury, particularly during the growth spurt of adolescence.

If a growth plate is injured, the affected bone may stop growing while the growth plate heals leading to long-term dysfunction. The ankle, elbow, and wrist joints all have two main bones, and injury to the growth plate of one may upset the delicate interaction between the two bones and cause joint dysfunction. Worse than complete fracture of the growth plate is a partial injury to it. When this...
happens, the bone may grow at a peculiar angle and cause serious problems.

Injuries in youth sports can have serious consequences, especially if untreated. It is important that coaches and parents alike not dismiss injuries as "just part of the game" — in rugby or any other sport. The team’s medical coordinator should see to it that an injured youth rugby player receives medical attention from a qualified physician, and preferably, one trained in sports medicine. In the meantime, injury symptoms can be minimized using RICE (Rest, Ice, Compression, Elevation — see Appendix 1).

**When Emergency Treatment is Needed**

In the following circumstances an injured athlete must be immediately taken to the closest hospital emergency room:

- Obvious deformity of any bone.
- Localized tenderness or pain, especially in a joint.
- Any alteration in consciousness.
- Drowsiness.
- Disorientation.
- Persistent vomiting.
- Pupils of unequal size.
- Leakage of clear fluid from nose or ears.
- Eye injury involving altered vision.
- Seizure.
- Pains in the neck after impact.
- Deep wound with bleeding.
- Breathing difficulties after blows to the head, neck, or chest.
- Any injury accompanied by severe pain.

**PREVENTING INJURIES IN YOUTH RUGBY**

The key to preventing injuries in any sport is identifying and addressing the risk factors associated with it. In rugby these risk factors include coaching, equipment, playing surface, and conditioning.

**Coaching**

The most effective way to prevent injuries in youth rugby is to ensure that all programs are headed by trained coaches. At the very least, coaches should be certified by USA Rugby, have training in first aid and CPR, and should have an emergency plan in the event of serious injury.

Youth rugby coaches need to be aware that many of the players on their team will have come from other collision sport disciplines and should be aware of the ramifications of this. In particular, they should be aware that former football players need coaching in proper rugby tackling technique so as to avoid injury. They must be taught the difference between hitting with the head and driving through the opponent — the revered tactic in gridiron football of “hitting on the numbers” — and the rugby tackle which is meant to stop the forward momentum of the opponent, control him and, if possible, capture the ball. They must be “coached out” of entering rucks and mauls head first as they might if they were entering a football pile-up. Both the gridiron tackle and the block are not only ineffective in rugby, but also dangerous. They must be taught proper scrum techniques to prevent scrum barging and collapse.

To reduce the risk of neck injuries in scrums, coaches should employ the use of a “scrum sled” to coach rugby forwards in the ways of scrummaging.

**Conditioning**

Proper conditioning is an effective way to prevent unnecessary injuries. Coaches should provide preseason conditioning programs for their players. Compared to those in good shape, unfit rugby players are far more likely to trip and sprain an ankle during a game or even sustain a growth plate fracture.

Rugby is a “mixed” aerobic/anaerobic sport. There are short bursts of intense activity within a basic framework of ongoing aerobic demand. It is unlike gridiron football, which is primarily anaerobic or "short burst" in its oxygen demands. The football player who converts to rugby must increase cardiovascular endurance. A simple test of fitness for a rugby team is to see if it can maintain a moderate jog around the rugby field for a period of 40 minutes, interspersed with 10-20 yard sprints every few minutes. This rugby-specific interval training not only helps players attain the type of fitness that improves their game performance - it also prevents injuries. Too many injuries occur in the second half that can be attributed directly to lack of fitness as fatigued muscles give way and allow a twist or fall to occur.

Weight training and stretching are also very important for the rugby player. Particular attention should be paid to strengthening the base of the neck.
1) When the first scrum comes together, the ref needs to require the scrum to hold the mark (which in its own right can be a good indicator of the players ability to control the scrum). Then, while the scrumming is held steady, the ref should circle the scrum and check for proper binding - specifically, that the tight head is not wrenching down on his opposing loose head, that the loose head is firmly and squarely packed in, head under his opposite tight head's chest instead of his arm pit and with his free arm bound on to the tight head or braced on his knee for additional support in holding the front row up. Also, quickly check the wing forward binding - many young, enthusiastic wing forwards bind their outside arm on the knee, calf or thigh of their prop, in effect tripping them, thereby encouraging the scrum to collapse. Further, check to make sure the second row's shoulders are engaged with their prop's buttocks instead of their kidneys and that the second row's hips are lower than their shoulders. Finally, the ref should look into the tunnel to see that the second rows have their chins pulled through, a simple move for all scrumming forwards that makes sure they can see where the ball is and more importantly, straightens the backs.

1) With these checks completed, the ref can allow the first scrum to proceed. Aside from helping to establish good scrumming technique, this inspection will also let youthful enthusiasts know who is in charge for the course of the game.

1) The quick whistle. Anytime the scrum appears dangerous - whether that be barging, the tight head dropping his opposing loose head, head butting, the hooker slipping his binds to put downward pressure on his opponent, or the scrum is beginning to go down - blow the whistle and warn or penalize the offenders or at least sort things out. In English under-19 play, refs blow the whistle anytime they see the front row shoulders drop lower than their hips, an indication that things are moving toward the edge. When a ref sees this happen, he should blow the whistle sharply and straighten it out.

1) When confronted with two really inexperienced or imbalanced scrums, stack them in by bringing the front row together first, then the seconds, and finally the back row. Bringing the front row together first relieves much of the pressure, allows better binding, and creates a steady platform before adding all the pressure from the other five scrummers. This technique often sorts out particularly aggressive or inexperienced scrums, in effect teaching them proper binding and scrumming while playing the game.

1) If all else fails, the ref should prohibit any pushing in the scrum. Bring the scrum together, have it hold the mark during the put-in and strike, including channeling the ball out. Although not very elegant, it does work in the sense that it is impossible for the scrum to collapse if there is no push. I first saw this technique used in the highly competitive Greater Public Schools league in Sydney, Australia where a serious front row accident precipitated a response from the parents of the boys in the league prohibiting any push in the scrum.

Officiating/Refereeing

Youth rugby refereeing may be more difficult than mediating more experienced players. Unfortunately, when a ref is assigned to a youth match, there is no guarantee that the respective scrums know what they are doing, be that from inadequate experience or training. Moreover, there may be a significant imbalance between teams regarding strength, technique and/or experience. If we are to play safe from dangerous situations, it is incumbent on the ref to learn how to mitigate these imbalances in the name of safety and adjust the game so that it can be played for fun and safety. The following suggestions from David Kirchoff, Coach of Redwood High School Rugby Club are for referees who encounter inexperienced players in the front row:

1) Before the match, the first thing the ref needs to do is talk to the respective coaches to determine the experience level of the players, especially the scrums. With these perceptions noted, he can anticipate any necessary adjustments.

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The essential daily nutrition requirements for young athletes can be attained using the guidelines provided in the U.S. Department of Agriculture's "Food Guide Pyramid" system.

Known as ergogenic aids, supplements and especially steroids should be discouraged in the strongest possible terms by youth rugby coaches and parents.

Proper hydration

Fluids should be emphasized as part of a healthy diet, especially for young athletes. Proper hydration is the most frequently overlooked aid to athletic performance.

It is important that all rugby players, especially younger ones, drink plenty of fluids. Because players are not thirsty does not mean their body doesn't require rehydration. Children are especially vulnerable to dehydration that can contribute to heat cramps, heat exhaustion, and heat stroke.

In order to prevent the higher injury rates associated with dehydration, young rugby players should be encouraged by their coaches to drink fluids at a normal intake level starting about 24 hours before the match, as well just prior to kickoff and during the match. This is acceptable to referees as long as it does not interfere with or delay play from resuming unless required by the player. Teams are encouraged to designate non-playing individuals to keep fluids readily available and bring them out to players as needed. When a match is played in hot and humid conditions, it is recommended that the clubs ask the referee to have general water breaks during each half (such as the midpoint - 20 minutes) to keep players hydrated.

Sports drinks such as Gatorade and Exceed are not necessary for young athletes unless they are engaged in extremely strenuous activity such as weekend sevens tournament in hot weather. However, their palatability encourages young athletes to drink fluids during hot weather when they might otherwise ignore the need.

Playing Time

Coaches should limit their players' playing time to allow for recuperation of stamina and strength.
This will vary by player, but the following playing time limits are provided as a guideline:

- In a 24 hour period - 140 minutes
- In a 48 hour period - 170 minutes
- In a 72 hour period - 200 minutes

**Playing Conditions**

Injuries in youth rugby can also be reduced if there are proper and safe playing conditions, which includes fields free of potholes, glass, or other debris, and padded posts. Severe ankle injuries can be prevented by simply rolling the field the night before the game. The cost of having this service performed is well worth the price. Youth rugby clubs should also make every effort to arrange for their matches to be played on fully sod fields, and should water hard fields on the night preceding matches. The Laws of the Game of Rugby ([www.irb.org](http://www.irb.org)) provide specific guidelines for field preparation.

**Equipment/"Kit"**

Players should comply with the Kit requirements found in the Laws of the Game. In particular, boots and studs (cleats) should follow the prescriptions of the Laws of the Game ([www.irb.org](http://www.irb.org)).

The American Dental Association recommends mouth guards for rugby. Mouthguards help prevent injury to the mouth, teeth, lips, cheeks and tongue. Mouthguards also protect against blows that might otherwise cause concussions or jaw fractures. Even when a mouthguard is worn it is possible for a tooth to be knocked out; however, wearing a mouthguard will reduce the severity of tooth injuries. As a conservative safety precaution, it is recommended that mouthguards be worn by all athletes during practice and competition of contact and collision sports.

**Mismatchs**

Competitive matches between high school and adult clubs are to be discouraged. This is because of discrepancies in size, strength, and experience, which may result in injuries. Possible exceptions include soft-contact instructional matches. Common sense should be brought to bear to avoid unequal competition.

**HEAD & NECK INJURIES IN YOUTH RUGBY**

Head and neck injuries can be among the most serious in sports. They are so serious because they involve the brain, spinal cord, or surrounding nerves, which are responsible for thought, movement, and sensation. Severe injuries to the head and/or neck can cause death or permanent disability. Fortunately, serious head and neck injuries are rare in rugby.

Anyone involved in youth sports, and especially a collision sport such as rugby, should know how to respond in the event of a head and neck injury.

Responses to head and neck injuries should be virtually identical. Athletes with head injuries who are unconscious and all athletes with neck injuries require emergency medical attention. Never move an athlete with a suspected neck injury. An athlete with a head injury who is conscious also requires medical assistance and should be taken to the local hospital emergency room.

When faced with a serious head or neck injury, do not spend time trying to ascertain the cause or type of injury. All are caused by similar events and have similar symptoms and signs. The key to managing a serious head or neck injury is to minimize the immediate damage and call for qualified assistance.

**Head Injuries: What to do**

*Do not:*
- Remove an athlete's head protection until a spine injury has been ruled out
- Try to revive the athlete or clear an athlete's head using smelling salts or ammonia, as the strong smell may cause the athlete to jerk his or her head

*When the athlete is conscious:*
- Send for medical assistance
- Move the athlete out of harm's way
- If qualified, monitor the ABCs (Airway, Breathing, and Circulation), provide rescue breathing or CPR where necessary, and treat for shock

*When the athlete is unconscious:*
- Send for emergency medical assistance
- Stabilize the athlete's head and neck
- If qualified, monitor the ABCs (Airway, Breathing, and Circulation), provide rescue breathing or CPR where necessary, treat for shock, control any heavy bleeding, and immobilize any fractures or unstable injuries

**Neck injuries: What to do**

- DO NOT try to move the athlete
- Send for emergency medical assistance.
- If qualified, provide rescue breathing or CPR in an unconscious athlete, using "jaw thrust" method only.
- Immobilize the athlete's head and spine.
- Treat for any heavy bleeding.
- Monitor the pulse and heart rate.
- Stabilize any other fractures, dislocations, sprains, or strains.

**CONCUSSION**

Managing concussion properly can be difficult because there are no visible signs. In the hurly-burly of a rugby game, a concussion could be mismanaged. If a concussed player is allowed to continue playing and receives another blow to the head, there is the possibility of the potentially fatal "second impact syndrome." It is very important for the person responsible for medical coverage during a youth rugby game to go out of their way to detect and respond appropriately to concussions in sports. Fortunately, severe concussions are relatively rare in youth rugby.

**Symptoms**

Concussions are generally classified as mild/first-degree, moderate/second-degree, and severe/third-degree, depending on their symptoms (see below). These symptoms may be present in varying combinations. A first-degree/mild concussion makes the player feel confused and dazed and experience slight amnesia. To detect first-degree/mild concussion, ask the athlete what time it is, what the score is, or how he or she got to the field that day. Any hesitation in answering any of these questions probably means the athlete is mildly concussed. Second-degree/moderate concussion may cause unconsciousness for a few seconds or several minutes. Third-degree/severe concussion means any lapse of consciousness for more than five minutes. The severity of the concussion depends on the force of the impact. If a basketball player falls and her head hits the gym floor, she might sustain a first, second, or third degree concussion - it just depends on how hard her head hits the playing surface.

**What to do**

If there is any doubt about the severity of a head injury, treat it as a third-degree/severe concussion!

*First-degree/mild concussion/
Second-degree/moderate concussion*

- The player must be taken out of the game.
- Observe and assess every twenty minutes for delayed symptoms such as headache, dizziness, and confusion.
- If signs and symptoms persist but do not worsen, take the athlete to an emergency room for evaluation within two hours.
- If signs and symptoms worsen, re-classify as a third-degree/severe concussion.

*Third-degree/severe concussion*

Neck injury should always be assumed in the case of a third-degree/severe concussion. Until spinal injury is ruled out, the game must stop and athlete not moved. His breathing or pulse should be checked while someone calls a hospital and an ambulance. If pulse and breathing are normal, wait for the athlete to regain consciousness. Do not remove a helmet. If, on regaining, consciousness, the athlete complains of neck or back pain or of numbness in the arms or legs, do not move him! This is an emergency situation. If none of these symptoms are present, wait until the player is ready to move and help him to a kneeling position. When he is able to stand, help him to his feet and assist him to the sideline, carefully watching his progress. If the athlete can't walk, call for a stretcher or litter. If necessary, wait until an ambulance arrives.

**Return to action**

IRB regulations stipulate that any youth rugby player who has a first-degree/mild concussion
should be taken out of the game. The player with a second-degree/moderate concussion should also not be allowed to return to play and should be evaluated by a neurosurgeon at a medical facility. This player should not practice or play for a period of three weeks. Any player with a third-degree/severe concussion should be transported to an emergency department by ambulance and receive a thorough neurological examination, and again, should be prohibited from practicing or playing rugby for a minimum of three weeks.

HEAT INJURIES

Younger athletes are more susceptible than adults to the two main types of heat-related disorders: heat exhaustion and the much more serious heatstroke.

Heat exhaustion is caused by dehydration and salt loss. Athletes with heat exhaustion become cool and damp while running a normal temperature, and often feel dizzy and tired. They should be given plenty of fluids and should rest in a cool, shady place.

Heat stroke is caused by a disruption of the body’s heat regulation system. The athlete becomes hot and dry, turns bright red, and runs a high fever. He or she may also act irrationally, often aggressively. Rapidly cooling the athlete with ice water, towels soaked in ice-cold water, and fanning must treat heat stroke. Any young rugby player who suffers heat stroke should be taken to a hospital immediately for observation.

These are some suggestions to lower the risk of heat-induced injuries:

Exercise intensity: Youth rugby coaches should reduce training intensity when temperature is hotter than 70°F.

Fluid replacement: Coaches should provide unlimited supplies of drinking water and players should be encouraged to drink a cup of water 15 minutes before training and one and a half cups at twenty to thirty minute intervals throughout practice. Younger, smaller athletes will need slightly less than this amount. After practice, it’s not enough that kids drink to quench their thirst because this only replenishes one-third to one-half of fluid losses; they should be encouraged to drink more than they think they need.

Clothing: Appropriate clothing for training in the hot weather is lightweight, single-layer, and absorbent. As much skin as possible should be exposed to air and sweat-saturated articles should be changed. Coaches should anticipate warmer weather and the team should have a lighter-weight, short-sleeved rugby uniform available for such situations.

Fitness levels: Players should start the season as physically fit as possible. A pre-season conditioning program will give the young rugby player a good baseline fitness level. Players should not be expected to begin training in hot climates after a long layoff.

BLOODBORNE INFECTIONS AND CONTACT SPORTS

The risk of acquiring HIV or hepatitis B through playing rugby is negligible. Nevertheless, the potential for spread in rugby, however minimal compared with other risk factors, is accepted and youth rugby clubs should follow the recommendations developed by the world rugby governing body, the IRB. These can be found at www.irb.org.

MEDICAL COVERAGE FOR YOUTH RUGBY TEAMS

Each youth rugby team should have its own mechanism for the proper assessment and care of emergency injuries. One individual should be responsible for maintaining a medical kit that must be brought to all home matches. That individual should also have emergency medical training of at least the E.M.T. II level. This “medical coordinator” should carry a cellphone, and know the accessibility of emergency medical care - including the phone number of the ambulance corps, police, fire, or rescue unit that will be covering the area - before his or her team gets on the field. The ideal person for this is a certified Athletic Trainer.

RESOURCES FOR SAFER RUGBY

1) USA Rugby Medical & Risk Management Committee http://www.usarugby.org
Anyone who has been involved in U.S. rugby in the last quarter century cannot help but be struck by the winds of change presently sweeping through the sport. We have begun to emulate our rugby-playing brethren in other countries who are taking a much more professional approach to the game we all cherish so dearly, but which in the U.S. has traditionally been characterized by an informal attitude toward coaching, training and officiating. All of us now realize that if the U.S. is to compete more successfully in the international arena we must adopt a more rigid adherence to discipline and organization, which includes the adoption of modern sports medicine principles and practice.
"RICE" is the acronym for Rest, Ice, Compression, and Elevation. RICE is the most important form of self-treatment for almost all sports injuries, and coaches, parents, and athletes should know how to use it. RICE reduces inflammation and swelling. The more inflammation and swelling are controlled early on, the sooner motion and recovery can take place.

RICE should begin as soon as an injury occurs or as soon as symptoms are felt. RICE started within the first 15-20 minutes after an injury occurs can make a difference of days or weeks in healing and returning to action. Use of RICE within the first 24 hours after injury can reduce disability time by 50 to 70 percent. Don’t wait for an athlete to be seen by a doctor before beginning RICE self-treatment.

These are the individual components of RICE.

Rest/"Relative rest": Stop playing! Continuing will only cause the injury to worsen and result in even longer layoffs.

During the first 24 to 72 hours (depending on the severity of the injury), complete immobilization is necessary to properly ice, compress, and elevate the injury.

After initial immobilization, rest does not mean total inactivity until the injury has healed. This will only cause muscles to get weak, joints to stiffen, and endurance to decline. A rugby player who has a shoulder problem can in-line skate or use a stairclimbing machine to stay in shape. This is known as "relative rest."

Ice: Cooling the injury decreases swelling, bleeding, pain, and inflammation. The most effective way to do this is to apply ice to the injury. To get the full benefit, ice needs to be applied within 10 to 15 minutes of the injury occurring.

Normal sensations experienced when using ice are cold, a burning sensation, then aching, and finally numbness.

The most common method of icing an injury is to cover the injured area with a wet towel and place a plastic bag full of ice over it.

“Ice massage" can be even more effective. This is done by freezing water in a polystyrene coffee cup, then tearing off the upper edge of the cup. This leaves the base as an insulated grip, allowing the athlete to massage the injured area with slow, circular strokes. Ice massage combines two elements of RICE - icing and compression. Ice massage is especially effective for treating the symptoms of overuse injuries around the joints.

Intermittent icing may be beneficial for up to seven days, particularly for severe bruises. The first 72 hours are especially important, and icing should be done as much as possible during this period. Minor injuries may need only 24 hours of icing.

Ice the injury for 10-30 minutes at a time at intervals of 30-45 minutes.

The duration of each icing session depends on the type of injury, and how deep it is. Because they are closer to the skin's surface, injured ankle and knee ligaments require less icing time for cooling to take place than thigh or bicep muscles.

Compression: To reduce swelling, gentle but firm pressure should be applied to the injury to minimize swelling. Compression can be performed while icing is being done, and also when it is not.

During icing, perform simultaneous compression by doing ice massage using the "coffee cup method." Alternatively, an elastic bandage can be wrapped over the ice pack and limb.
During the first 24-48 hours, do not apply heat to the injured area (avoid hot showers and baths, liniments, etc.); massage the injury; or exercise. All can increase swelling and bleeding in the injured area.

Remember, RICE is a first aid treatment only. Depending on the nature and severity of the injury, it may be necessary to seek medical treatment as soon as possible.

Seek medical attention within 24-48 hours in cases of persistent symptoms from injuries to muscles, tendons, joints, or ligaments, or if the pain becomes severe.

When icing is not being done, an elastic bandage should be used for compression.

Elevation: Keeping the injury elevated is necessary to stop blood and fluids pooling in the injury area, where they create swelling and inflammation.

If possible, raise the injury above heart level. For example, an athlete with an ankle, knee, or thigh injury should lie on a couch or bed and use a pillow to keep the injury elevated. During the first 24 to 72 hours, the injury should be kept elevated as much as possible.
Appendix 2

PLAYER MEDICAL INFORMATION FORM

A "Medical/Surgical Care/Emergency Treatment and Personal Medical Information Form" is attached. All players should have their parents complete this form in full. This form provides important information to medical personnel and clubs for both player treatment and emergency contact notification. The club should maintain a set of these forms and keep them available field-side for all matches. The player should also keep a copy of the form and have it with him or her whenever they play a match for another club or are involved in representative (all-star) play.

Youth Rugby
Medical Information Form

Name:
Address: Zip code:
Date of Birth: Phone #:

Please check Yes or No and complete further details as necessary

Does your child have any specific medical conditions requiring medical treatment and/or medication?
Yes __
No __
If Yes, give details: ____________________

Does your child have any allergies?
Yes __
No __
If Yes, give details: ____________________

Does your child take any medication for asthma?
Yes __
No __
If Yes, give details: ____________________

Any other relevant information:

It may be essential at some time for the Club Coach or Team Manager accompanying your son/daughter to have the necessary authority to obtain any urgent treatment which may be required whilst at Club representative competition or training. Would you therefore complete the details on this form and sign below to give your consent.

I, ______________________ being parent/guardian of the above named child hereby give permission for the Coach or Team Manager to give the immediately necessary authority on my behalf for any medical or surgical treatment recommended by competent medical authorities, where it would be contrary to my son/daughter’s interest, in the doctor’s medical opinion, for any delay to be incurred by seeking my personal consent.
Appendix 3
MEDICAL (FIRST AID) KIT

Insuring access to a properly equipped medical (first aid) kit during play is as essential as a correct personal kit to the knowledgeable rugby player. A first aid kit can be established for individual or team use with minimal expense and may someday prove valuable to the player suffering injury on an isolated field.

A pre-packaged medical kit from Balls Out Rugby at (http://www.ballsout.com/medkit.htm) will provide the essentials, including:

6 1 1/2" Tape Rolls
4 Prewrap
1 6" Ace Bandage
1 3" Ace Bandage
5 3x3" Gauze
2 Cold Packs
1 Scissors
1 Nail Clipper
1 Peroxide
1 Antibiotic
1 Sling
5 Applicators
1 Isoquin
1 Roll of Electrical Tape
5 Ibuprofen
10 Ice Bags
20 Gloves
15 Butterfly Bandages
15 Small Band-Aids
10 Large Band-Aids
10 Heel and Lace Pads
10 Alcohol Preps
10 Nose Plugs
The Medical & Risk Management Committee of USA Rugby encourages vigorous discussion of rule changes that might enhance the safety of youth rugby - especially those that would make the scrum safer. The following are some of the changes to scrum play that have been proposed:

1. Limit the maximum drive to 5 meters. This will prevent wheeling and collapse.
2. Depower the scrum by requiring front rows to engage separately and then have second rows and loose forwards bind in. This has been previously suggested by Australian rugby safety officials. This rule would allow engagement to occur under controlled conditions. Additionally, it should produce a more stable platform and prevent collapse.
3. No drive during scrummaging in B & C side games. While this would reduce the scrum to more of a hooker battle, it would also dramatically reduce the incidence of collapse. Scrummaging skills would still be learned and techniques developed in a less dangerous situation. B & C sides are usually chosen because of the lack of experience at this level combined with inconsistent referee knowledge particularly at collegiate B & C games.