# Skin Tears

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Skin Tear
Skin tears are small avulsion injuries. They occur most commonly in older adults and are the result of friction and shear. The pretibial area is most commonly involved, but the lesions also occur on other anatomical areas with thin or fragile skin, such as the dorsum of the hand or the elbows. Skin tears may be caused by an accident, but in the frail skin of older adults they may even be caused by the removal of an adhesive dressing. The exact incidence of skin tears is not known, but data gathered in a long-term care institution indicate that more than 95% of all injuries not related to falls were actually skin tears and bruises\(^2\).

Skin tears may involve not only the epidermis but can also be full thickness. Usually, the lesion retracts somewhat and part of the underlying tissues is visible. The diagnosis is straightforward\(^2\).

Although a small percentage of patients will develop wound healing problems, most lesions will heal fairly quickly with proper wound care, including moisture retentive dressings\(^2\).

Aging Skin
As we get older we undergo changes that make our skin more susceptible to damage such as skin tears and bruising. A number of specific skin changes have been related back to changes in hormone levels as we age, such as the effects of estrogen on inflammation and dryness\(^3,4\). The accumulation of radical oxygen species (ROS) in the mitochondria of cells has also been shown to induce senescence and increase terminal differentiation; this has been implicated in the thinning of aging skin\(^5,6\). But as well as the intrinsic factors of aging the skin also has to face extrinsic influences. The two most significant of these are sun exposure and smoking, which have a significant effect on the skin’s elastin and collagen\(^7,8\). A complex diagram of some of the biochemical changes can be seen in Appendix A. Nutrition and hydration also play a role in the resilience of the skin. Some of the physiological changes include:

- the dermal papillae flatten out, reducing the strength of the interface between the dermis and the epidermis leading to easier separation of these two layers\(^9\)
- a reduction in sebum production and reduced moisture to the skin from both reduced movement of water from dermis to epidermis as well as a reduction in fluid intake means dried skin and less resilience\(^9-11\)
- loss of hypodermis (~50% by age 80) reduces cushioning and temperature regulation\(^12\)
- decrease in vascularity and structures supporting the vasculature lead to bruising and bleeding\(^9\)
- loss of collagen and elastin fibres in the dermis means lower tensile strength and less structural support
- immune changes\(^9\)

Appendix B has a larger table of the clinical implications of aging skin.

Not only do these changes have an obvious cosmetic and self-esteem impact but they can also impact on quality of life with skin conditions such as xerosis pruritis, and eczema being widespread in the older population\(^9\). And not only that but the simultaneous changes in immune function as well as skin structure and function produces higher levels of autoimmune skin disorders. The exposure to new pharmaceuticals increases the risk of autoimmune drug reactions that manifest in the skin. These may include pemphigoid or
pemphigus disorders and small vessel vasculitis. Then there’s the possible re-activation of dormant viruses such as Shingles\textsuperscript{(9)}. With all this, do we really need a skin tear?

But it’s not just the changes in the skin that make us more likely to get a skin tear. Other changes that may be experienced include (certainly not comprehensive):
- Centre of balance and gate changes
- Peripheral neuropathy
- Altered vision
- Incontinence

So let’s say we have a skin tear, and now we have to heal it. It is argued that the effects of aging do not directly, negatively impact on wound healing but that it is all the confounding factors that go along with aging\textsuperscript{(13)} such as polypharmacy, comorbidities, and alterations in nutrition and hydration. The reasoning behind this thought is that the body has so many redundant systems for healing, that no matter what becomes less efficient during the healthy aging process there are enough systems remaining to make up the difference … if just a little bit slower\textsuperscript{(14)}. Table 1 lists how the various stages of healing may be affected by aging. So when we do our assessment of systemic features that may impair healing, while we may list healing as ‘slowing healing’ it will be other assessment items like venous insufficiency or low serum albumin that will need to be targeted in the management plan.

So what’s the plan?

**Management**

Management of the skin tear is straightforward and follows the basic wound bed preparation principles. There is a simple flow chart that can be incorporated into a skin tear package in Appendix C if you feel this would be beneficial in your area.

**Stop the bleeding**

The use of anticoagulants and antiplatelet medications may inhibit the normal clotting progress and slow healing by delaying the healing process\textsuperscript{(15)}. Management of the bleeding patient involves both the immediate management of the bleed and the post bleed assessment. If there is very little bleeding, clean first (see below), then manage the bleed.

If you do not expect the patient to have any coagulation problems the basic bleeding management involves pressure and elevation\textsuperscript{(16)}. Lay the patient down, elevate the bleeding area, cover with an absorbent pad and apply pressure. Allow the patient to sit like this for 5 to 10 minutes. Watch for strikethrough and adjust as needed.
For the patient who may have a reduced ability to clot, calcium alginites have been reported as having haemostatic properties. Do the same as above but with a calcium alginate dressing (such as Kaltostat) underneath the absorbent pad. For more severe bleeding you can use adrenaline soaked gauze if you have a medical officer present (beware of rebound bleeding and ischaemic necrosis)\(^{(17)}\).

Special training is recommended for nurses in palliative care wards that look after cancer patients. Patients with fungating tumours are at a high risk of a catastrophic bleed from these tumour sites\(^{(17)}\), which may be disturbed by the skin tear or whatever caused the skin tear.

Assessment of your patient needs to include circulation obs below the site of the bleed, standard obs to watch for hypovolaemic shock, and should include a review of pathology results and medications to ensure clotting profiles are within acceptable limits.

**Assess**
While you’re waiting for the bleeding to stop, start running through your assessment. Consider items in the patient’s history as well as regional and local observations that would impair healing and devise a plan to manage these risks. I find using a combination of assessment tools such as HEIDI\(^{(18)}\) and TIME\(^{(19)}\) help to collect the most relevant information. An example of a tool that combines these to develop a wound management plan can be seen in Appendix D. For documentation purposes it is good to be able to describe the extent of the skin tear. Silver Chain Nursing Association and Curtin University designed a skin tear classification chart that is very helpful in recording skin tear type. The system can be seen in Appendix E. You will also need to address the findings of your pain assessment at this point.

**Clean**
Cleaning should be done in accordance with your local wound cleaning policy. You may use normal saline, potable water, or a specialized cleaning solution such as Prontosan; different solutions have their merits\(^{(20)}\). Routine cleaning with topical antimicrobial solutions, while reducing bacterial load may actually inhibit wound healing, possibly even contributing to a wound getting stuck in the inflammatory phase\(^{(21)}\). More evidence is needed to determine a specific set of solutions, pressures and techniques to determine optimal cleaning regimes\(^{(22)}\).

The aim of cleaning is the same, regardless of your technique. We want to ensure the wound bed is free of any contaminants that may hinder the healing process. This can be foreign matter, clots or obviously non-viable skin. You may need to incorporate soaking or the use of cotton-tipped applicators, forceps and iris scissors during the cleaning process. Don’t just clean around the skin tear, fold the flap back and clean out anything that has become trapped under it.

**Re-approximate**
Once the wound and flap is cleaned gently roll it out to its original position as best you can. However, too much tension has to be avoided because this may result in flap necrosis\(^{(2)}\).
Steristrips are often used to pull shut, and hold shut a skin tear. It is true, they do hold the flap in place, but the downside is that this may create too much tension and result in flap hypoxia. Also, the steristrip itself is a foreign body. Does it need to be there? What happens if there is subsequent swelling? Is it a good idea to put something sticky on fragile skin? I, personally, do not recommend the use of steristrips.

**Moisturize/barrier**

If you can moisturize the surrounding skin without disturbing the wound and flap, do so. Also, there are a number of products that you can use to leave a thin film barrier on the skin. This can be used on the periwound skin to help protect it from exudate. Also, if you do need to use something sticky then these barrier films can help reduce skin stripping\(^{(23)}\). But be aware that it does increase how well the adhesive will stick to the skin.

**Dress**

Secure the flap in place with a simple dressing that will maintain a warm, moist wound environment and not cause any further trauma upon removal. Foams and hydrofibres are a good choice, as they will absorb quite a lot of exudate if the wound is weeping. They keep the area warm and provide a certain amount of cushioning from further damage. Hydrocolloids can be used if there is very low exudate, they will also protect the wound from frictional damage\(^{(24)}\). If there are any signs of infection, or if the wound was highly contaminated, hydrocolloids are not recommended. There is also an acrylic dressing that is completely see through. This dressing has an acrylic absorbent pad and a film backing, it has the same benefits and drawbacks of the hydrocolloid with the added benefit of being able to see through it\(^{(25)}\). Consider using an antimicrobial if the wound is highly contaminated, covers a large area, or if the patient is immunocompromised.

Put the date on the dressing and draw an arrow showing the direction of the flap (which is also the direction for removal).

**Leave it**

As mentioned earlier, the healing process in the older person still happens as it does in the younger person, it might just take a bit longer. If we do frequent dressing changes we risk disturbing the new tissue because the tensile strength of wounds in older people is less, therefore it takes less force to interrupt wound healing\(^{(1, 13)}\). By putting on a dressing we can leave in place for 3 days or more we give the wound a good chance to start healing and for the flap to stabilize if it is going to survive.

If the area is suitable for compression then a good firm tubular bandage or two not only keeps the dressing in place but also helps to reduce oedema\(^{(26)}\).
Be Prepared
For wards/areas where there are a high number of skin tears it might be an idea to have skin tear packets which have everything you need and a quick overview of what to do. This kind of “just in time” education has been shown to improve nurse confidence and ability to apply wound dressings\(^\text{[27]}\). But you would need to weigh up the potential benefits against the cost of making up the single-use kits.

Know what to do! Keep up to date with wound care principles; this can either be through face-to-face training, on-line training or just reading journal articles\(^{[28, 29]}\). Trying to keep up with every dressing company’s products would consume all your waking hours, so don’t try! Get an idea of the generic categories of dressings and what that category does. Stick to the principles of wound bed preparation, then match your needs to the dressing category.

Prevention
With all of our systemic risk factors as we age (such as co-morbidities, polypharmacy, poor nutrition and hydration, slower immune response, etc) our chances of healing in a timely fashion and with no complications are somewhat reduced. So in the case of skin tears and the older population, prevention really is better than cure. Some things that help prevent skin tears are:

- Prevent dry skin, moisturize twice a day\(^\text{[12]}\). Choice of emollient is subject to personal preference and needs of the skin. Occlusives put a film on the skin, humectants go into the stratum corneum and attract water. Some products include a barrier film, anti-pruritic or anaesthetizing agent. Emollients have been shown to be anti-inflammatory when used consistently and appropriately\(^{[30]}\).
- Clean and protect skin, use pH neutral products to cleanse excreta and body fluids and use barrier wipes or creams to protect areas of high moisture. Non-soap cleansers prevent acid-mantel stripping and drying of the skin\(^{[12]}\).
- No prolonged soaks in the bath that cause maceration\(^{[12]}\)
- Pat the skin dry, don’t rub it\(^{[12]}\)
- Good lighting\(^{[31]}\)
- Appropriate furniture (nothing too pointy!)
- Full length sleeves and pants, skin protection devices for vulnerable areas\(^{[31]}\)
- Maintain adequate fluid intake and nutrition\(^{[31]}\)
- Good shoes (all over foot protection)
- Good falls prevention practices\(^{[31]}\)
- Use slide sheets at all times when repositioning patients
- Avoid the use of adhesives, consider alternative options\(^{[31]}\)
- The use of Pool Noodles to cover potential problem areas on wheelchairs, wheelie walkers, corners of coffee tables, etc… (you cut the pool noodle down the side length-wise and wrap it around the potential problem area)

Skin tears, especially those on the lower leg, carry with them the risk of evolving into chronic ulcers. Hopefully, by following good wound bed preparation practices, moist wound healing principles and addressing the underlying risk factors which impair healing we can assist these wounds to follow a normal wound healing pathway. However, for some patients we will not be able to help them to heal. So it’s better to prevent the injuries we can.
**So how do we teach this?**

Theories on teaching and learning are varied and plentiful. They are created by psychologists, management consultants and educators who almost never collaborate so every perspective is different\(^{(32)}\). The cost of delivering education is also quite high. Organisations are short for time and short for funds to send money to training sessions\(^{(33)}\). So what is the one sure way that we can deliver this information in such a way that it is understood and retained? Well, there isn’t.

In order to have “learned” something a person must have arranged, synthesized, analysed, retained and be able to reference the given information\(^{(34)}\). The ideas around how people do this, or “learning styles” has been around since the 1800’s but has only significantly been researched in the last 50 or 60 years\(^{(32)}\). Below is a very brief discussion of some of the concepts to keep in mind when developing a training package.

**Motivational**

Why are you here? Understanding why your audience has come to your training session is a good guide to how hard you’re going to have to work to impart your message on them. Adults are internally motivated creatures. When the training session is something that you’re interested in you’ll be open to learning. If, however, you were told you had to go to this session by someone else … then you may be less motivated because you do not see the value in it\(^{(35)}\). In this situation you may have to put in a little more groundwork in helping people to understand the value in the subject matter, to encourage them to be ready to learn and not be distracted by other priorities\(^{(36)}\).

A great motivator is being motivated in the subject yourself. Your enthusiasm is contagious so let your passion in your subject show\(^{(35)}\).

**Styles**

So many styles from so many angles. Input styles, learning based on personality types or age, styles based on how information is processed in the brain. Far too many to cover. This list looks at input types (on the left) and formats (on the right)\(^{(34)}\):

- Visual
- Auditory
- Verbal
- Kinesthetic
- Logical
- Social
- Solitary

The input types are a reflection of how we use our senses to assimilate information. The formats indicate how we like to receive this information; logical being sequential or structured, social would prefer working in groups, and solitary prefers to work things out on their own.

Theories from a couple of the more popular psychologists have been combined into this table below:
These theories have had tools written to measure them so get used a lot in research. Hence they appear to be the most researched. According to Andreou et al., the majority of baccalaureate nursing students were divergers or assimilators. But in the same paragraph he goes on to say that findings were actually quite fluid, people changed over time, and that no two studies really backed up the findings of another\(^{(34)}\). Flemming et al. also measured the undergraduate nursing student against the descriptions of learning above and found, most importantly, that there was no significant correlation between learning styles and academic achievement. The majority of students in this study actually indicated they had no, single, dominant learning style, and the number of students with no dominant learning style increased from first to final year of study\(^{(32)}\). This actually supports Andreou et al’s idea of learning styles being fluid. The only concern that was raised by Andreou et al was that there was a negative correlation between measured critical thinking skills and the passive learning types\(^{(34)}\).

So when developing training try to use a variety of methods which incorporate a variety of these learning styles which support adult learning\(^{(36)}\). Adult learners\(^{(37)}\):

- are internally motivated and self-directed
- bring life experiences and knowledge to learning experiences
- are goal oriented
- are relevancy oriented
- are practical
- like to be respected

There is a triangle which represents learning styles vs retention rates. The values often incorporated into the triangle (like 5% for lectures and 75% for practical experience) are disputed and do not appear to have solid research backing\(^{(38)}\). However, when you compare the items in the triangle with the styles above, some of the research findings and concepts of adult learning, you can see why this triangle still gets referred to today.

**Generational**

There is another school of thought that believes the generation you were born in effects your expectations, motivations and learning styles. It is believed that this is related to social, political and environmental factors that molded people’s behaviours. One example
is the rapid development of technology and how the newest generation not only is the most familiar with it but it has also altered their behavior, making them excellent multi-taskers. However the use of just modern technology for teaching (such as LOL) may alienate some students.\(^{39}\)

<table>
<thead>
<tr>
<th>Silent Generation</th>
<th>Baby Boomers</th>
<th>Generation X</th>
<th>Generation Y</th>
</tr>
</thead>
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<tr>
<td>Prefer classroom environment</td>
<td>Prefer lecture and workshop environment</td>
<td>Prefer to learn through exploration</td>
<td>Prefer electronic learning environment</td>
</tr>
<tr>
<td>Like a structured environment where they are told what they are to learn</td>
<td>Like an environment where they are challenged and can share experiences</td>
<td>Like a fun learning environment</td>
<td>Like a media-centered learning environment</td>
</tr>
<tr>
<td>Utilize note-taking methods</td>
<td>Utilize books, manuals, PowerPoint</td>
<td>Utilize interactive learning methods and question asking</td>
<td>Utilize software, CDs, videos, mobile devices, blogs, podcasts, social media</td>
</tr>
<tr>
<td>Learning based on memorization techniques and extensive studying</td>
<td>Prefer case studies and examples to learn</td>
<td>Prefer hands-on activities, role-playing/games, play</td>
<td>Prefer playing games and utilizing digital media to learn</td>
</tr>
</tbody>
</table>

Table copied from Cekada\(^{39}\)

**Pitfalls**

We can’t try to incorporate all styles all of the time. Certain strategies, such as group discussions, can be very time consuming and there are often strict time limitations.\(^{35}\) Pick and choose those which will best suit your audience.

As not all activities suit all people there will be some who may have lost confidence in their ability to learn if they have only been subjected to styles that do not suit them. These people may have previously had bad learning experiences and felt frustration or even embarrassment. Respect their learning needs, take the time to work with them.\(^{36}\)

In the health industry we can not afford not to train. The rapid rate of change in the workplace and keeping people up-to-date is a big commitment. Lack of investment in training can lead to shortfalls in competencies and increase in liability.\(^{33}\) However, because of the large costs and disruptions associated with training we need to try to ensure that the training is effective.

**Remember**

Adult learners are goal oriented. Ensure you have clear objectives and for any activities ensure the directions are not confusing.\(^{35}\)

Learning is an investment, whether it is individuals improving their own currency (and therefore value) or an employer investing in their staff.\(^{33}\) Objectively evaluate the training, what was most useful to students and what was not, to improve the effectiveness. Evaluation not only assists in continuous improvement but also in justifying it’s use in a cost-conscious environment.\(^{33}\)
Know your own style! Be aware of how your learning style may impact on how you create your training sessions. Know that there are other learning styles out there and find ways to acknowledge the preferred learning styles of your students\(^{(37)}\).
Appendix A – Biochemical changes related to Intrinsic and Extrinsic factors

A schematic overview of major biochemical changes and signaling pathways involved in the generation of intrinsically and extrinsically aged skin. (A) Intrinsically and (B) extrinsically aged skin obtained from the (A) inner side of the upper arm of an 83-year-old and (B) the face of a 75-year-old woman. In the (B) sun-exposed skin sample, the typical histologic characteristics with accumulation of disoriented elastic tissue (blue arrows) in the dermis can be visualized after elastica staining. By contrast, (A) sun-protected skin shows only moderate histologic changes. In aged skin, mitogen-activated protein (MAP) kinase signal transduction pathways are important in regulating a variety of cellular functions. Downstream effectors of the MAP kinases include several transcription factors, including the c-Jun and c-Fos, which heterodimerize to form the activator protein 1 (AP-1) complex. AP-1 is a key regulator of skin aging, because it induces the expression of the MMP family and inhibits type I procollagen gene expression through interference with TGF-β signaling pathway. It has been postulated that MAP kinases may be activated by excess production of reactive oxygen species (ROS) that occurs with advanced age and may be superimposed by extrinsic factors such as ultraviolet irradiation. Excess ROS production also leads to accumulation of cellular damage, which includes oxidation of DNA resulting in mutations, oxidation of proteins leading to reduced function, and oxidation of membrane lipids resulting in reduced transport efficiency and altered transmembrane signalling. IL, interleukin; NF-κB, nuclear factor-κB; TGF-β, transforming growth factor-β; TSP-1, thrombospondin-1; TSP-2, thrombospondin-2; VEGF, vascular endothelial growth factor.

Copied from Zouboulis (2011, p 10)
## Appendix B – Clinical Implications of Aging Skin

<table>
<thead>
<tr>
<th>Physiologic change</th>
<th>Pathologic change</th>
<th>Clinical significance</th>
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<tbody>
<tr>
<td>Thinning of epidermis and dermis</td>
<td>Increased vulnerability to mechanical trauma, especially shearing and friction</td>
<td>Increased incidence of skin tears</td>
</tr>
<tr>
<td>Flattening of dermal papillae</td>
<td>Increased risk of blister formation</td>
<td>Increased susceptibility to infection</td>
</tr>
<tr>
<td>Slowdown in turnover rate of epidermis; decrease in ratio of proliferative-to-differentiated keratinocytes</td>
<td>Delayed cellular migration and proliferation.</td>
<td>Increased time to re-epithelialization.</td>
</tr>
<tr>
<td>Decrease in turnover rate of epidermis; decreased ratio of proliferative-to-differentiated keratinocytes</td>
<td>Decreased wound contraction</td>
<td>Longer healing times after injury or surgery</td>
</tr>
<tr>
<td>Decrease in elastin fibres</td>
<td>Loss of elasticity</td>
<td>Lax skin and wrinkling, with loss of self-esteem and/or depression</td>
</tr>
<tr>
<td>Decrease in vascularity and supporting structures in dermis</td>
<td>Fragile, easily broken blood vessels.</td>
<td>Skin easily bruised (senile purpura)</td>
</tr>
<tr>
<td>Decrease in vascular plexus, blunted capillary loops</td>
<td>Decreased wound capillary growth</td>
<td>Increased risk of wound dehiscence</td>
</tr>
<tr>
<td>Changes in and loss of collagen and elastin fibres</td>
<td>Decreased tensile strength, lower layers more susceptible to injury</td>
<td>Increased risk of pressure damage to elderly skin, decubitus ulcers</td>
</tr>
<tr>
<td>Changes in and loss of collagen and elastin fibres</td>
<td>Delayed collagen remodeling</td>
<td>Longer healing times after injury or surgery</td>
</tr>
<tr>
<td>Impaired immune response</td>
<td>Impaired inflammatory response</td>
<td>Impaired wound healing</td>
</tr>
<tr>
<td>Impaired immune response</td>
<td>Impaired delayed hypersensitivity reaction</td>
<td>Increased risk of severe injury from irritants</td>
</tr>
<tr>
<td>Impaired immune response</td>
<td>Decreased production of cytokines</td>
<td>Impaired immune function</td>
</tr>
<tr>
<td>Impaired immune response</td>
<td>Decrease in number of Langerhans cells</td>
<td>Increased susceptibility to photocarcinogenesis, false-negative delayed hypersensitivity tests</td>
</tr>
<tr>
<td>Impaired neurologic responses</td>
<td>Reduced sensation</td>
<td>Increased risk of thermal or other accidental injury</td>
</tr>
<tr>
<td>Decreased skin thickness</td>
<td>Loss of cushioning and support</td>
<td>Increased risk of pressure damage to elderly skin, decubitus ulcers</td>
</tr>
<tr>
<td>Decreased skin thickness</td>
<td>Decreased vitamin D precursor production</td>
<td>Increased susceptibility to skin tears, bruising</td>
</tr>
<tr>
<td>Atrophy of sweat glands</td>
<td>Decreased sweating</td>
<td>Less ability to thermoregulate, hypothermia</td>
</tr>
<tr>
<td>Reduced stratum corneum lipids</td>
<td>Decreased ability to retain water</td>
<td>Dry skin, xerosis</td>
</tr>
<tr>
<td>Structural changes in stratum corneum</td>
<td>Altered barrier function</td>
<td>Variable response to topical medications, altered sensitivity to irritants</td>
</tr>
<tr>
<td>Reduced movement of water from dermis to epidermis</td>
<td>Reduced epidermal hydration</td>
<td>Dry skin, xerosis</td>
</tr>
<tr>
<td>Decrease in melanocytes</td>
<td>Loss of ability to tan, greater susceptibility to solar radiation</td>
<td>Cutaneous neoplasms</td>
</tr>
<tr>
<td>Decrease in melanocytes</td>
<td>Greying hair</td>
<td>Loss of self-esteem</td>
</tr>
</tbody>
</table>

Copied from Farage et al (2009)
Appendix C – Skin Tear Flowchart

CONTROL BLEEDING
Pressure and Elevation
Consider Kaltostat

If very little bleeding clean first

ASSESS
Consider using HEIDI and TIME
Identify risks for impaired healing
Document assessment findings and STAR Classification
Manage pain

CLEAN
Soak with Prontosan
Remove debris from wound bed and under flap
Remove non-viable tissue

RE-APPROXIMATE
Do not apply tension

DRESS
Protect periwound skin
Apply dressing
Secure with undercast padding and tubular bandage

DOCUMENT
Document care given
Write date on dressing
Draw arrow on dressing showing the direction of the skin flap

Package contains:
1 x Blue Tray
1 x Bluey
1 x disposable ruler
1 x Prontosan
1 x Cavilon Barrier Wipe
1 x Mepilex Ag
1 x Webril

You will also need to collect:
Gloves
Appropriate Tubigrip or Tubifast

Optional:
Iris scissors
Hospital Camera

MANAGEMENT PLAN
Address risk factors identified during the assessment
Document plan
## Appendix D – Student tool

### History

- **What is the complaint?**
- **How long has it existed?**
- **What has been done about the complaint so far?**
- **Medical History**
- **Surgical History**
- **Medications**
- **Social History**
- **Ever Smoked**
- **Alcohol Intake**
- **Mobility**
- **Allergies**

### Examination

- **Systemic**
- **Regional**
- **Local**
  - **Location**
  - **Size**
  - **Tissue**
  - **Inflammation**
  - **Moisture**
  - **Edges**
<table>
<thead>
<tr>
<th>Investigations</th>
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<th>Diagnosis (risks for impaired healing)</th>
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<th>Intervention</th>
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Review:
Appendix E – STAR Classification

STAR Skin Tear Classification System Guidelines
1. Control bleeding and clean the wound according to protocol.
2. Realign (if possible) any skin or flap.
3. Assess degree of tissue loss and skin or flap colour using the STAR Classification System.
4. Assess the surrounding skin condition for fragility, swelling, discolouration or bruising.
5. Assess the person, their wound and their healing environment as per protocol.
6. If skin or flap colour is pale, dusky or darkened reassess in 24-48 hours or at the first dressing change.

STAR Classification System

<table>
<thead>
<tr>
<th>Category 1a</th>
<th>Category 1b</th>
<th>Category 2a</th>
<th>Category 2b</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A skin tear where the edges can be realigned to the normal anatomical position (without undue stretching) and the skin or flap colour is not pale, dusky or darkened.</td>
<td>A skin tear where the edges can be realigned to the normal anatomical position (without undue stretching) and the skin or flap colour is pale, dusky or darkened.</td>
<td>A skin tear where the edges cannot be realigned to the normal anatomical position and the skin or flap colour is not pale, dusky or darkened.</td>
<td>A skin tear where the edges cannot be realigned to the normal anatomical position and the skin or flap colour is pale, dusky or darkened.</td>
<td>A skin tear where the skin flap is completely absent.</td>
</tr>
</tbody>
</table>

Skin Tear Audit Research (STAR). Silver Chain Nursing Association and School of Nursing and Midwifery, Curtin University of Technology. Revised 4/2/2010.
References


