



# Skin Care

## Lesson Plan

To use this lesson for self-study, the learner should read the material, do the activity, and take the test. For group study, the leader may give each learner a copy of the Learner's Guide and follow this plan to conduct the lesson. You may copy certificates for everyone who completes the lesson and passes the test. **Approximate time: One hour.**

### Objectives

At the conclusion of this lesson, participants will be able to:

1. Describe the structure and functions of the skin.
2. Explain what happens to the skin as people age.
3. Care for elderly clients' skin in a way that will prevent skin problems.
4. Recognize and report skin problems.



### Preparation

1. Review the Learner's Guide and the game.
2. Prepare for the Jeopardy®-like game. The game answers may be read to the learners, or write each answer on a separate sheet of paper and tack the sheets to the wall behind cover sheets with the point values. Tack the answers and cover sheets in columns, and place a paper with the category name at the head of each column. The cover sheet can be removed when a learner chooses that category and point value, revealing the answer underneath.
3. If you are reading the answers, mark the numbers off the Game Categories chart as they are used.
4. Prepare several small gift certificates or other inexpensive prizes, as it is possible that there will be more than one game winner. If prizes are not an option, use the Award Certificate in this packet.
5. If possible, enlist the help of another worker to keep score during the game.
6. Remember that the point of the exercise is to learn the material in an interesting way, not to cause conflict. Keep the game fun and educational.

### Lesson

1. Explain to participants that this lesson will be taught in the form of a game similar to the television game show, Jeopardy. The learners will be given answers, and they must come up with the correct questions to match the answers.
2. Review the learning goals for the session with the participants.
3. Give each participant a copy of the Learner's Guide. Read or review the material together.
4. Explain the rules of the game:
  - A. Each participant will take a turn as a "contestant."
  - B. By turns, each contestant will choose a category and a value, such as: "Skin Functions for 30."
  - C. The answer to the question will be read, and the first person to call out the correct question to match the answer given will receive the assigned point value. If preferred, ask participants to raise their hands and be recognized. Contestants may refer to the Learner's Guide for help.
  - D. The contestant with the most points at the end of the session will receive an award.
5. Play the game, using it as an opportunity for teaching. Expand upon the information presented in the game as needed, giving illustrations that are specific to your residence or organization. Make sure everyone understands both the answers and the questions.

### Evaluation

Ask participants to complete the test and grade their work. Distribute certificates to those who complete the test with at least 7 correct answers.

**Answers:** 1.F; 2.d; 3.d; 4.b; 5.c; 6.T; 7.F; 8.a; 9.T; 10.T.





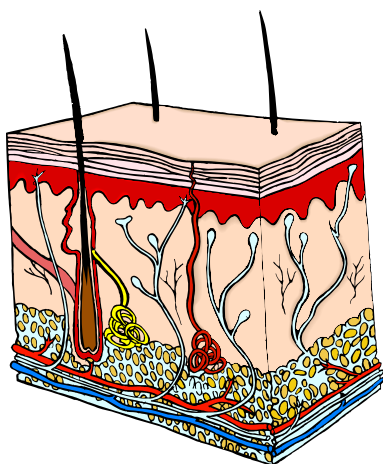
# Preventing Skin Problems



## Learner's Guide

### *The Structure of Skin: What is Skin?*

Skin covers and protects our bones and organs. It is composed of an *epidermis* and a *dermis*.



The Skin - Cut Away View

**Epidermis:** The thin, top layer of skin surface.

**Dermis:** The thicker layer beneath the surface. It contains:

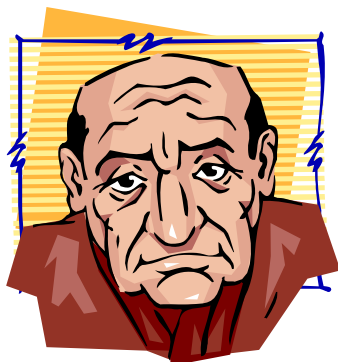
- ♦ **Blood vessels:** Tubes that carry blood through the body, with oxygen and food.
- ♦ **Nerves:** Fibers that carry sensations to and from the brain.
- ♦ **Oil glands:** Organs that secrete an oily lubricating fluid.
- ♦ **Sweat glands:** Organs that separate waste products from the blood and secrete them as sweat.
- ♦ **Hair follicles:** Organs that create hair.
- ♦ **Fatty tissue:** Layer of fat under the skin. While not part of the skin, the fatty tissue provides a protective layer of padding, to prevent injury to underlying bones and muscles, and insulation, to keep heat in.

### *The Functions of Skin: What Does Skin Do?*

1. Controls body temperature
  - a. Releases heat through sweat
  - b. Constricts and expands surface blood vessels to insulate or cool the body
2. Protects against injury and disease
  - a. Covers and pads muscles and bones, preventing damage
  - b. Forms a barrier against harmful organisms and infection
3. Provides sensations
  - a. Nerve endings sense danger
  - b. Sensitive to pressure, pleasure, pain, and temperature
4. Creates Vitamin D
  - a. Produced by sunlight on the skin
5. Cares for itself
  - a. Self-lubricating with oil glands
6. Warns of disease
  - a. Changes in color, temperature, or moistness may signal illness



## ***The Aging of Skin: What Happens as Skin Gets Older?***



- ⇒ The skin and fatty tissue layer get thinner
- ⇒ The skin becomes less elastic
- ⇒ Oil glands produce less oil, so skin is dry
- ⇒ Blood vessel walls get thinner and more delicate, so they break easily
- ⇒ Circulation of the blood slows down, so the skin is not getting as much oxygen and nutrition from the blood, causing the skin to become poorly nourished and fragile

Because of these changes in the skin, older people:

- Tend to feel cold
- Suffer from skin tears
- Heal slowly
- Become wrinkled
- Develop pressure sores

## ***Caring for Older Skin: How Should We Care for Older Skin?***



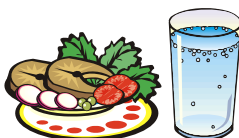
- ❑ Keep skin clean
  - Pat skin, don't rub, when washing or drying
  - Use powder sparingly—excess powder can cause irritation



- ❑ Keep skin lubricated
  - Use lotions liberally

- Frequent bathing with soap will dry the skin—use lotion cleansers

- ❑ Massage the skin, but avoid bony projections and irritated areas--massage around but not directly on them
- ❑ Don't disturb moles
- ❑ Keep skin creases and folds dry



- ❑ Eat nutritious food and drink lots of water
- ❑ Change position often to improve circulation and prevent pressure sores

- ❑ Use chair cushions and good beds
- ❑ Keep clothes and bedding dry
- ❑ Inspect skin daily for redness, tears, blisters, scrapes, or irritated areas
- ❑ Report problems to a nurse or doctor





## Skin Problems: Causes and Symptoms

### Decubitus Ulcers (Bed Sores or Pressure Sores)

#### Causes:

- ❖ Sustained pressure on the skin compresses the blood vessels and prevents nutrition and oxygen from getting to the skin cells. Over time, the skin tissue dies and decubitus ulcers develop.
- ❖ The skin is under pressure where the bones press against the skin tissue, especially when the weight of the body or a body part is pushing down on a pressure point.
- ❖ Body fluids such as urine and feces contain damaging chemicals. When they remain on the skin they cause moist areas that become irritated and develop sores.
- ❖ Friction from clothing or bedding can injure the skin and lead to skin ulcers.

#### What to Report to the Nurse, Doctor, or Supervisor:

- o A red pressure area that does not become normal after 20 minutes without pressure
- o A reddened area of the skin that does not turn white when you push on it
- o A skin area that is warm or hot to the touch
- o Any swelling
- o Any opening in the skin
- o Blisters, tears, craters, rashes, or holes
- o Scrapes or abrasions
- o Drainage or weeping from the skin



Be especially alert when you are caring for clients that are frail, don't move around much, or have poor nutrition. **Clients with little or no feeling in parts of the body, such as stroke victims, must be watched because they don't feel pressure spots, so they don't change positions often enough.**



## Preventing Skin Problems

- Encourage or assist clients to walk or exercise several times a day.
- Encourage or assist clients to keep their skin clean, dry, and lubricated.
- Encourage or assist clients to keep their bedding free of wrinkles.
- Encourage or assist clients to eat well and drink plenty of liquid.
- Provide a well-balanced diet.
- Weigh clients weekly, especially those at risk of skin problems.
- Notify nurse or physician of weight loss of 10 pounds or more during a 6-month period.

#### For clients that are in chairs most of the time:

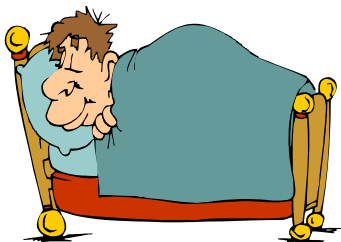
- Encourage or assist them to stand, walk, or shift their weight **every 15 minutes.**
- Teach them how to do chair push-ups with their arms.
- Teach them to sit with their knees at the same level as their hips, with their thighs horizontal to the chair. This will distribute their weight along their thighs and away from pressure points.
- If a client cannot do these things, he or she should return to bed after an hour in a chair.





For clients that are in bed most of the time:

- Teach them how to use side rails and the trapeze to change position frequently, at least every two hours. Be available to assist them if necessary. ***Even small shifts in body weight are helpful.***



- When you are assisting a client to change position, move him or her carefully so you do not create friction and shearing between the skin and the bedding or clothes.
- The head of the bed should be raised as little as possible, no more than 30 degrees, to prevent sliding and pressure on the bony areas. If it must be raised higher for eating, ***it should be lowered an hour later.***
- Massage the skin when possible, but avoid massaging pressure points or irritated areas.
- Reposition in ways that allow any reddened areas to recover, and reposition often enough so reddened areas can recover quickly.

For clients that use special chair cushions or mattress overlay pads:

- Check to be sure that the pads are thick enough to do the job. Place your hand under the pad while the client is on top of it—if you can feel the client's body through the cushion, the pad is too thin.
- Pads and cushions should be replaced after long periods of use. They lose their ability to reduce pressure with time.

For clients with pressure sores:

- Keep weight and pressure off any reddened areas and wounds.
- Use pillows to elevate or separate body parts and keep pressure off an area, such as a pillow under the calf to raise the heel off the bed, or a pillow between the legs to keep the knees from touching.
- Don't place pillows on areas of pressure, as this reduces blood flow to the tissue.
- Be careful when putting pillows between legs: Too much separation can cause the hips to rotate outward.

Are You Ready to Play  
Skin Care Jeopardy?





## CARE OF THE SKIN: GAME CATEGORIES

| Skin Structure    | Skin Functions    | Aging Skin        | Skin Care         | Skin Problems     |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| <u>10 points</u>  | <u>10 points</u>  | <u>10 points</u>  | <u>10 points</u>  | <u>10 points</u>  |
| <u>20 points</u>  | <u>20 points</u>  | <u>20 points</u>  | <u>20 points</u>  | <u>20 points</u>  |
| <u>30 points</u>  | <u>30 points</u>  | <u>30 points</u>  | <u>30 points</u>  | <u>30 points</u>  |
| <u>40 points</u>  | <u>40 points</u>  | <u>40 points</u>  | <u>40 points</u>  | <u>40 points</u>  |
| <u>50 points</u>  | <u>50 points</u>  | <u>50 points</u>  | <u>50 points</u>  | <u>50 points</u>  |
| <u>60 points</u>  | <u>60 points</u>  | <u>60 points</u>  | <u>60 points</u>  | <u>60 points</u>  |
| <u>70 points</u>  | <u>70 points</u>  | <u>70 points</u>  | <u>70 points</u>  | <u>70 points</u>  |
| <u>80 points</u>  | <u>80 points</u>  | <u>80 points</u>  | <u>80 points</u>  | <u>80 points</u>  |
| <u>90 points</u>  | <u>90 points</u>  | <u>90 points</u>  | <u>90 points</u>  | <u>90 points</u>  |
| <u>100 points</u> | <u>100 points</u> | <u>100 points</u> | <u>100 points</u> | <u>100 points</u> |





## CARE OF THE SKIN: GAME ANSWERS

| <b>Skin Structure</b>                                       | <b>Skin Functions</b>                                         | <b>Aging Skin</b>                                                             | <b>Skin Care</b>                                                      | <b>Skin Problems</b>                                                    |
|-------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|
| <u>10 points</u><br>Top layer of the skin                   | <u>10 points</u><br>Vitamin D                                 | <u>10 points</u><br>Get thinner with age                                      | <u>10 points</u><br>Don't disturb these                               | <u>10 points</u><br>Swelling                                            |
| <u>20 points</u><br>Nerves                                  | <u>20 points</u><br>By lubricating the skin                   | <u>20 points</u><br>It becomes wrinkled                                       | <u>20 points</u><br>Pat, don't rub                                    | <u>20 points</u><br>Every two hours                                     |
| <u>30 points</u><br>Organs that create hair                 | <u>30 points</u><br>The skin covers and pads them             | <u>30 points</u><br>Caused by oil glands producing less oil                   | <u>30 points</u><br>Inspect the skin this often                       | <u>30 points</u><br>Body fluids containing harmful chemicals            |
| <u>40 points</u><br>The dermis                              | <u>40 points</u><br>By releasing heat through sweat           | <u>40 points</u><br>Becomes slower with age                                   | <u>40 points</u><br>Frequent bathing with soap                        | <u>40 points</u><br>Pressure points                                     |
| <u>50 points</u><br>Oil glands                              | <u>50 points</u><br>Danger                                    | <u>50 points</u><br>Becomes less stretchy                                     | <u>50 points</u><br>Nutritious food & water                           | <u>50 points</u><br>Keep it wrinkle-free                                |
| <u>60 points</u><br>Layer of fat under the skin             | <u>60 points</u><br>Forms a barrier against harmful organisms | <u>60 points</u><br>Because the skin loses its ability to control temperature | <u>60 points</u><br>To improve circulation and prevent pressure sores | <u>60 points</u><br>Pressure on blood vessels prevents cell nourishment |
| <u>70 points</u><br>Blood vessels                           | <u>70 points</u><br>Pressure, pleasure, pain, and temperature | <u>70 points</u><br>Because they get thin and delicate                        | <u>70 points</u><br>Things that should be kept dry                    | <u>70 points</u><br>Move people carefully in bed to avoid this          |
| <u>80 points</u><br>Sweat glands                            | <u>80 points</u><br>Changes that may warn of disease          | <u>80 points</u><br>Because the skin is dry, thin, and fragile                | <u>80 points</u><br>Do this, but not on irritated areas               | <u>80 points</u><br>Pillows                                             |
| <u>90 points</u><br>Padding to prevent injury and stay warm | <u>90 points</u><br>Constrict and expand to warm or cool body | <u>90 points</u><br>Carried by the blood in the blood vessels                 | <u>90 points</u><br>Use one sparingly and the other liberally         | <u>90 points</u><br>Clients with little or no feeling in places         |
| <u>100 points</u><br>Structures contained in the dermis     | <u>100 points</u><br>Six things the skin does                 | <u>100 points</u><br>Five results of aging skin changes                       | <u>100 points</u><br>Five things that should be reported to a nurse   | <u>100 points</u><br>One hour                                           |





## CARE OF THE SKIN: GAME QUESTIONS (ANSWER SHEET)

| <b>Skin Structure</b>                                                                                      | <b>Skin Functions</b>                                                                                                                                                     | <b>Aging Skin</b>                                                                                                                         | <b>Skin Care</b>                                                                     | <b>Skin Problems</b>                                                                                                      |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <u>10 points</u><br>What is the epidermis?                                                                 | <u>10 points</u><br>What is produced by sunlight on the skin?                                                                                                             | <u>10 points</u><br>What happens to the skin and fatty tissue?                                                                            | <u>10 points</u><br>What are moles?                                                  | <u>10 points</u><br>What should be reported to a nurse or supervisor?                                                     |
| <u>20 points</u><br>What are fibers that carry sensations to and from the brain?                           | <u>20 points</u><br>How do the oil glands take care of the skin?                                                                                                          | <u>20 points</u><br>What is one thing that happens to aging skin?                                                                         | <u>20 points</u><br>How should we wash and dry the skin?                             | <u>20 points</u><br>How often should a bedbound client change position?                                                   |
| <u>30 points</u><br>What are hair follicles?                                                               | <u>30 points</u><br>How does the skin prevent damage to muscles and bones?                                                                                                | <u>30 points</u><br>Why does aging skin get dry?                                                                                          | <u>30 points</u><br>What should be done every day?                                   | <u>30 points</u><br>What are urine and feces?                                                                             |
| <u>40 points</u><br>What is the thicker layer of skin under the surface?                                   | <u>40 points</u><br>How does the skin control temperature?                                                                                                                | <u>40 points</u><br>What happens to the circulation as we age?                                                                            | <u>40 points</u><br>What dries the skin?                                             | <u>40 points</u><br>What are places where the bones press against the skin?                                               |
| <u>50 points</u><br>What are organs that secrete an oily lubricating fluid?                                | <u>50 points</u><br>What do the nerve endings sense?                                                                                                                      | <u>50 points</u><br>What happens to the skin as we age?                                                                                   | <u>50 points</u><br>What should we eat to have healthy skin?                         | <u>50 points</u><br>How should bedding be maintained?                                                                     |
| <u>60 points</u><br>What is the fatty tissue?                                                              | <u>60 points</u><br>How does the skin protect against disease?                                                                                                            | <u>60 points</u><br>Why do older people feel cold?                                                                                        | <u>60 points</u><br>Why should older people change position often?                   | <u>60 points</u><br>What causes decubitus ulcers?                                                                         |
| <u>70 points</u><br>What are tubes that carry blood through the body with oxygen and food?                 | <u>70 points</u><br>What are the nerve endings sensitive to?                                                                                                              | <u>70 points</u><br>Why do blood vessels break easily?                                                                                    | <u>70 points</u><br>What are clothes and bedding?                                    | <u>70 points</u><br>What is friction?                                                                                     |
| <u>80 points</u><br>What are organs that separate waste products from the blood and secrete them as sweat? | <u>80 points</u><br>What are changes in color, temperature, or moistness?                                                                                                 | <u>80 points</u><br>Why does older skin tear and get sores easily?                                                                        | <u>80 points</u><br>What is massage?                                                 | <u>80 points</u><br>What should you use to elevate body parts and keep pressure off an area?                              |
| <u>90 points</u><br>What does the fatty tissue layer provide?                                              | <u>90 points</u><br>How do the blood vessels control body temperature?                                                                                                    | <u>90 points</u><br>What are oxygen and nutrients?                                                                                        | <u>90 points</u><br>What are powder and lotion?                                      | <u>90 points</u><br>Who should be carefully observed for skin problems?                                                   |
| <u>100 points</u><br>What are blood vessels, nerves, oil glands, sweat glands, and hair follicles?         | <u>100 points</u><br>What are temperature control, protection against injury and disease, provides sensations, creates Vitamin D, cares for itself, and warns of disease? | <u>100 points</u><br>What are: a tendency to feel cold, suffer from skin tears, heal slowly, become wrinkled, and develop pressure sores? | <u>100 points</u><br>What are redness, tears, blisters, scrapes, or irritated areas? | <u>100 points</u><br>How long should a client stay in a chair if he or she can't stand, walk, or shift weight frequently? |





## Skin Care: Test

Name \_\_\_\_\_ Date \_\_\_\_\_ Score \_\_\_\_\_  
(7 correct answers required)

**Directions: Circle the best answer.**

1. A little blister on an elderly person's skin is normal and nothing to be concerned about.  
True or False
2. You should report a reddened area on the skin to the nurse or your supervisor if:
  - a. It has a dark black or brown center.
  - b. It doesn't turn white under your thumb when you press on it.
  - c. You remove all pressure from it and it still doesn't return to a normal skin color after 20 minutes.
  - d. b and c
3. You should encourage clients to have healthy skin by:
  - a. Bathing frequently with soap and water.
  - b. Only bathing occasionally.
  - c. Using lots of powder in all the skin folds and creases.
  - d. Staying clean, using lotion, eating well, drinking water, and exercising.
4. When sitting in a chair for long periods, your clients should:
  - a. Sit with knees higher than hips.
  - b. Get up or shift their weight every fifteen minutes.
  - c. Stay there as long as possible.
  - d. Avoid shifting their weight in the chair too much.
5. Older people are at risk for pressure sores because:
  - a. They eat too much.
  - b. They bathe too often.
  - c. The skin, the fatty tissue layer, and the blood vessel walls are thinner and more fragile.
  - d. Their bones get sharper as they age.
6. Changes in a person's skin color could be a sign of illness.  
True or False
7. People who are in bed most of the time should keep the head of their bed raised as high as possible, because a sitting position is better for circulation than a lying position.  
True or False
8. Older people tend to feel cold because:
  - a. The fatty tissue layer is thinner and the blood vessels don't expand and contract as well.
  - b. They don't wear enough clothes.
  - c. Their internal thermostat doesn't work anymore.
  - d. None of the above.
9. Older people heal slowly because the skin is not getting enough oxygen and nutrition.  
True or False
10. People who have had strokes or are paralyzed must be watched closely for skin ulcers.  
True or False





# Award: Grand Champion Winner



Awarded to: \_\_\_\_\_  
(Name of Participant)

## For Winning the Game Skin Care Jeopardy<sup>®</sup>



Presented by: \_\_\_\_\_





# Certificate of Completion

Awarded to: \_\_\_\_\_  
(Name of Participant)

**For Completing the  
One-Hour Course Entitled  
*Skin Care***



Date of Course: \_\_\_\_\_

Organization: \_\_\_\_\_

Presented by: \_\_\_\_\_  
(Signature of presenter, or write "self-study")

