

# Introduction to Intradermal Injections Curriculum



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2709 Mondovi Road  
Eau Claire, WI 54701 USA  
800.830.1416  
+1.715.830.2040  
[www.realityworks.com](http://www.realityworks.com)

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## About the Author



Kasey Carlson has been a Registered Nurse for 17 years. She holds a Master's degree in Nursing Education from the University of Wisconsin – Eau Claire and has been teaching associate degree nursing for over 11 years. She also has a second Master's degree in Learning Design and Technology from San Diego State University. Ms. Carlson specializes in healthcare simulation curriculum design.

## Introduction to Intradermal Injections

This curriculum and accompanying injection training tool will help students learn about medication administration through the intradermal route.

# Curriculum Structure

The *Introduction to Intradermal Injections* curriculum is composed of the following parts. Approximate times are included.

| Lesson | Title                                                            | Approximate Time    |
|--------|------------------------------------------------------------------|---------------------|
| One    | FOCUS: Part 1 - Developing Awareness of Patient-Focused Care     | 10 minutes          |
| One    | FOCUS: Part 2 - Anatomy (Identifying Layers of Skin)             | 10 minutes          |
| One    | LEARN: Introduction to Intradermal Injections Slide Presentation | 20 minutes          |
| One    | REVIEW: Practice and Assessment of Intradermal Injections        | 30 minutes          |
|        | <b>Total</b>                                                     | <b>1 - 1½ hours</b> |

# Lesson Structure

Each lesson begins with a Lesson Overview, Lesson Objectives and a Lesson at a Glance table which lists the lesson activities, materials required, suggested preparation steps and approximate class time.

## Lesson Sections

The actual lesson follows the overview, which will contain the sections described below.

### ***FOCUS***

Every lesson begins with a FOCUS activity intended to capture participants' attention. This may be in the form of a small or large class discussion, a game, a review of previous lesson information, or a demonstration. During this activity, participants are introduced to the topic of the lesson.

### ***LEARN***

The LEARN activity in each lesson varies in its presentation mode. It may be a slide presentation, group activity, or demonstration.

### ***REVIEW***

The majority of lessons end with a REVIEW activity intended to briefly review the lesson's key messages or main points.

# Lesson One – Introduction to Intradermal Injections

## Lesson Overview

*In this lesson, students will learn about the medication administration through the intradermal route.*

## Pre-Lesson Knowledge

- Integumentary anatomy
- Dosage calculation
- Safe medication administration practices

## Lesson Objectives

After completing this lesson, participants will be able to:

- Identify guidelines for safe medication administration
- Discuss indications for the intradermal route
- Identify locations for intradermal injections
- Demonstrate intradermal injection technique
- Explain how to document an intradermal injection

## Lesson at a Glance

| Activity      | Materials                                                                                                                                                                                                                                                                                                                                                                      | Preparation                                                                                                                                                                                                                                                                                                                                                            | Approximate class time |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| FOCUS: Part 1 | 1. <i>Introduction to Intradermal Injections (Focus on Empathy)</i> worksheet<br>2. <i>Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)</i><br>3. <i>Introduction to Intradermal Injections (Focus on Empathy) Instructor Resource</i><br>4. <i>Introduction to Intradermal Injections Check-Off (Sample Provider's Orders) Instructor Resource</i> | 1. Print/photocopy <i>Introduction to Intradermal Injections (Focus on Empathy)</i> and <i>Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)</i> worksheets (one per participant)                                                                                                                                                            | 10 minutes             |
| FOCUS: Part 2 | 1. <i>Introduction to Intradermal Injections (Focus on Anatomy)</i> worksheet<br>2. <i>Introduction to Intradermal Injections (Focus on Anatomy) Instructor Resource</i>                                                                                                                                                                                                       | 1. Print/photocopy <i>Introduction to Intradermal Injections (Focus on Anatomy)</i> worksheet (one per participant)                                                                                                                                                                                                                                                    | 10 minutes             |
| LEARN         | 1. <i>Introduction to Intradermal Injections</i> slide presentation<br>2. <i>Introduction to Intradermal Injections Check-Off (Sample Medical Administration Record)</i><br>3. Injection pad, model or simulator                                                                                                                                                               | 1. Prepare <i>Introduction to Intradermal Injections</i> slide presentation for viewing<br>2. Print/photocopy <i>Introduction to Intradermal Injections Check-Off (Sample Medical Administration Record)</i> for each participant                                                                                                                                      | 20 minutes             |
| REVIEW        | 1. <i>Introduction to Intradermal Injections Check-Off (Instructor Resource)</i><br>2. <i>Introduction to Intradermal Injections Check-Off (Sample Medication Administration Record)</i><br>3. <i>Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)</i><br>4. <i>Introduction to Intradermal Injections Check-Off</i> worksheet                      | 1. Print/photocopy (one per participant): <ul style="list-style-type: none"><li>• <i>Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)</i></li><li>• <i>Introduction to Intradermal Injections Check-Off</i> worksheet</li><li>• <i>Introduction to Intradermal Injections Check-Off (Sample Medication Administration Record)</i></li></ul> | 30 minutes             |

## Introduction to Intradermal Injections

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                     |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>5. <i>Introduction to Intradermal Injections Check-Off (Medication Administration Record)</i> worksheet</p> <p>6. Injection pad, model or simulator</p> <p>7. <i>Introduction to Intradermal Injections Quiz</i></p> <p>8. <i>Introduction to Intradermal Injections Quiz - Answer Key</i></p> <p>Supplies:</p> <ul style="list-style-type: none"><li>• Med cart or mock med cart</li><li>• Mock/demo vial of Tuberculin</li><li>• Intradermal injection models, task trainer or simulator</li><li>• Intradermal TB syringes</li><li>• Alcohol swab</li><li>• Hand sanitizer or access to a sink</li><li>• Clean gloves</li></ul> | <ul style="list-style-type: none"><li>• <i>Introduction to Intradermal Injections Check-Off (Medication Administration Record)</i> worksheet</li><li>• <i>Introduction to Intradermal Injections Quiz</i></li></ul> <p>2. Get the supplies ready for the lesson</p> |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

Instructor Note: For Focus and Review activities, the instructor may choose to have students complete both or one of the two activities. Focus activities may also be completed prior to class. Instructor demonstration is encouraged.

## Lesson One - Introduction to Intradermal Injections

# FOCUS: Part 1 - Developing Awareness of Patient-Focused Care

**10 minutes**

**Purpose:**

To help students develop awareness of patient focused care.

**Materials:**

- *Introduction to Intradermal Injections (Focus on Empathy) worksheet*
- *Introduction to Intradermal Injections Check-Off (Sample Provider's Orders) worksheet*
- *Introduction to Intradermal Injections (Focus on Empathy) Instructor Resource*
- *Introduction to Intradermal Injections Check-Off (Sample Provider's Orders) Instructor Resource*

**Facilitation Steps:**

1. Distribute the *Introduction to Intradermal Injections (Focus on Empathy) worksheet* and *Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)* prior to or at the start of the class.
2. Have the *Introduction to Intradermal Injections (Focus on Empathy) Instructor Resource* and *Introduction to Intradermal Injections Check-Off (Sample Provider's Orders) Instructor Resource* available.
3. Have students read through the information and complete the *Introduction to Intradermal Injections (Focus on Empathy) worksheet*.
4. Have students pair up upon completion and share answers.

# Introduction to Intradermal Injections

## (Focus on Empathy) Instructor Resource

**READ** the following:

After a provider writes an order, the order is transcribed onto the medication administration record (MAR). The MAR is used to prepare the medications for the patient. Prior to medication administration, it is important that the “Rights of Administration” are completed three times. The “Rights of Administration” include, but are not limited to,:

**1. Right patient**

- Match the name on the order to the patient
- Ask patient to identify himself/herself with 2 identifiers such as name, date of birth, medical record number, or photograph
- When available, use technology (for example, bar-code system)

**2. Right medication**

- Verify that the MAR accurately reflects the provider’s orders
- Match the medication label with the MAR
- Make sure patient is not allergic to it and it is not expired

**3. Right dose**

- Verify that the MAR accurately reflects the provider’s orders
- Confirm appropriateness of the dose using a current drug reference
- If necessary, calculate the dose and have another nurse calculate the dose as well

**4. Right route**

- Verify that the MAR accurately reflects the provider’s orders
- Confirm that the patient can take or receive the medication by the ordered route

**5. Right time**

- Verify the frequency of the ordered medication
- Double-check that you are giving the ordered dose at the correct time.
- Confirm when the last dose was given

**6. Right documentation**

- After you give the ordered medication, document it

# Introduction to Intradermal Injections Check-Off

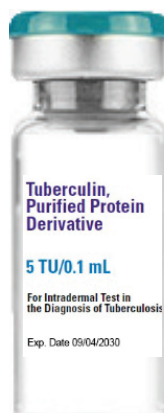
## (Sample Provider's Orders) Instructor Resource

Now look at this sample MAR, provider's order and label. Practice completing your checks.

|                                                                             |              |             |                                               |
|-----------------------------------------------------------------------------|--------------|-------------|-----------------------------------------------|
| DERMIT, HENRY<br>MRN: 8965325<br>Age: 32 years<br>Date of Birth: 06/17/XXXX | Date         | Time        | Provider's Orders                             |
|                                                                             | <i>Today</i> | <i>0700</i> | <i>Admit to medical floor for observation</i> |
|                                                                             |              |             | <i>Tuberculin 0.1ml ID NOW</i>                |
|                                                                             |              |             | <i>Dr. Mary Thompson</i>                      |

| Medication Administration Record |               |           |            |
|----------------------------------|---------------|-----------|------------|
| Patient                          | Dermat, Henry | MRN       | 8965325    |
| Date of Birth                    | 06/17/XXXX    | Provider  | Thompson   |
| Age                              | 32 years      | Allergies | Penicillin |

| Medication                   | Time     | Mon | Tues | Wed | Thurs | Fri | Sat | Sun |
|------------------------------|----------|-----|------|-----|-------|-----|-----|-----|
| Tuberculin 0.1ml intradermal | Initials |     |      |     |       |     |     |     |
|                              | Site     |     |      |     |       |     |     |     |



### REFLECT on the situation

- Why do we complete the Rights of Administration three times?  
*For patient safety and ensuring the correct patient receives the correct medications.*
- What would happen to the patient if a mistake was overlooked (e.g. wrong dose given, wrong patient received medication)?  
*The patient could become ill or even die. These errors need to be communicated to the provider immediately.*
- Who is liable for mistakes in medication administration?
  - If the order was written correctly from the provider, the person administering the medication and completing the rights is liable. (May expand into the consequences)*

**SHARE** your thoughts with a peer

Name: \_\_\_\_\_ Class: \_\_\_\_\_

# Introduction to Intradermal Injections (Focus on Empathy)

**READ** the following:

After a provider writes an order, the order is transcribed onto the medication administration record (MAR). The MAR is used to prepare the medications for the patient. Prior to medication administration, it is important that the “Rights of Administration” are completed three times. The “Rights of Administration” include:

**1. Right patient**

- Match the name on the order to the patient
- Ask patient to identify himself/herself with 2 identifiers such as name, date of birth, medical record number, or photograph
- When available, use technology (for example, bar-code system)

**2. Right medication**

- Verify that the MAR accurately reflects the provider’s orders
- Match the medication label with the MAR
- Make sure patient is not allergic to it and it is not expired

**3. Right dose**

- Verify that the MAR accurately reflects the provider’s orders
- Confirm appropriateness of the dose using a current drug reference.
- If necessary, calculate the dose and have another nurse calculate the dose as well

**4. Right route**

- Verify that the MAR accurately reflects the provider’s orders
- Confirm that the patient can take or receive the medication by the ordered route

**5. Right time**

- Verify the frequency of the ordered medication
- Double-check that you are giving the ordered dose at the correct time.
- Confirm when the last dose was given.

**6. Right documentation**

- After you give the ordered medication, document it.

## Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)

Now look at this sample MAR, provider's order and label. Practice completing your checks.

|                                                                             |       |      |                                        |
|-----------------------------------------------------------------------------|-------|------|----------------------------------------|
| DERMIT, HENRY<br>MRN: 8965325<br>Age: 32 years<br>Date of Birth: 06/17/XXXX | Date  | Time | Provider's Orders                      |
|                                                                             | Today | 0700 | Admit to medical floor for observation |
|                                                                             |       |      | Tuberculin 0.1ml ID NOW                |
|                                                                             |       |      | Dr. Mary Thompson                      |

|               |               |           |            |
|---------------|---------------|-----------|------------|
| Patient       | Dermat, Henry | MRN       | 8965325    |
| Date of Birth | 06/17/XXXX    | Provider  | Thompson   |
| Age           | 32 years      | Allergies | Penicillin |

| Medication                       | Time     | Mon | Tues | Wed | Thurs | Fri | Sat | Sun |
|----------------------------------|----------|-----|------|-----|-------|-----|-----|-----|
| Tuberculin 0.1ml intradermal NOW | Initials |     |      |     |       |     |     |     |
|                                  | Site     |     |      |     |       |     |     |     |



**REFLECT** on the situation

- Why do we complete the Rights of Administration three times?
- What would happen to the patient if a mistake was overlooked (e.g. wrong dose given, wrong patient received medication)?
- Who is liable for mistakes in medication administration?

**SHARE** your thoughts with a peer

## Lesson One - Introduction to Intradermal Injections

# FOCUS: Part 2 - Anatomy (Identifying Layers of Skin)

**10 minutes**

**Purpose:**

To help students learn to identify layers of the skin.

**Materials:**

- *Introduction to Intradermal Injections (Focus on Anatomy) Instructor Resource*
- *Introduction to Intradermal Injections (Focus on Anatomy) worksheet*

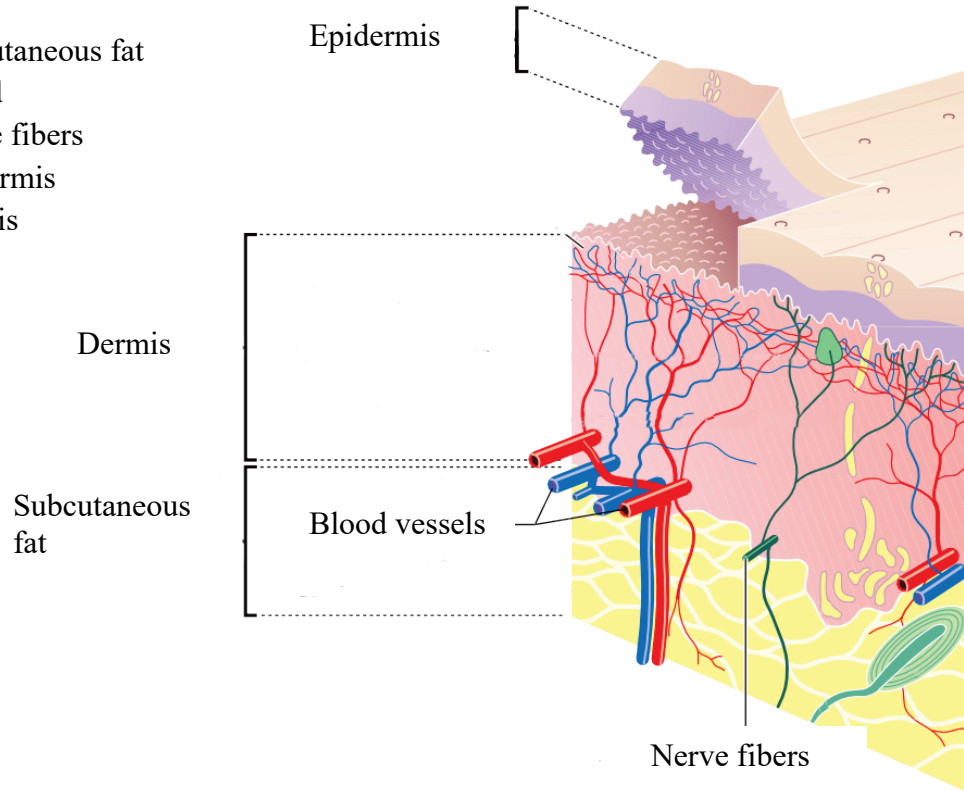
**Facilitation Steps:**

1. Distribute the *Introduction to Intradermal Injections (Focus on Anatomy)* worksheets prior to or at the start of the class.
2. Have the *Introduction to Intradermal Injections (Focus on Anatomy) Instructor Resource* available for teacher.
3. Have students read through the information and complete the worksheet.
4. Have students pair up upon completion and share answers.

# Introduction to Intradermal Injections (Focus on Anatomy) Instructor Resource

Intradermal is defined as “within or between the layers of the skin” (Merriam-Webster). Below is a diagram of the layers of the skin. Label the diagram with the words listed and answer the questions below.

1. Subcutaneous fat
2. Blood
3. Nerve fibers
4. Epidermis
5. Dermis



1. If an injection is intradermal, which layers is the medication placed between?  
*An intradermal injection is placed between the epidermis and the dermis layers*
2. Can intradermal injections bleed?  
*If done correctly, they should not bleed or bleed scantily. Blood means the needle entered into the dermis.*
3. Do intradermal injections hurt?  
*As you can see, the nerve fibers do go the edge of the dermis so intradermal injections feel like a small pinch.*

Modified work.

By Madhero88 (Own work) [CC BY-SA 3.0 (<http://creativecommons.org/licenses/by-sa/3.0/>)], via Wikimedia Commons([https://commons.wikimedia.org/wiki/File%3ASkin\\_layers.png](https://commons.wikimedia.org/wiki/File%3ASkin_layers.png))

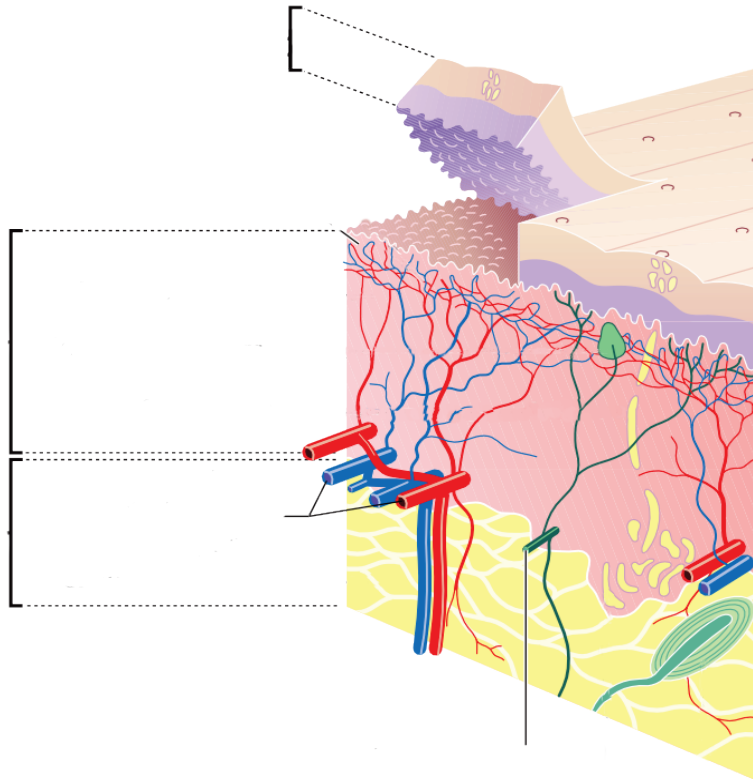
Merriam-Webster (2016). Dictionary. Retrieved from <https://www.merriam-webster.com/>

Name: \_\_\_\_\_ Class: \_\_\_\_\_

# Introduction to Intradermal Injections (Focus on Anatomy)

Intradermal is defined as “within or between the layers of the skin” (Merriam-Webster). Below is a diagram of the layers of the skin. Label the diagram with the words listed and answer the questions below.

1. Subcutaneous fat
2. Blood vessels
3. Nerve fibers
4. Epidermis
5. Dermis



1. If an injection is intradermal, which layers is the medication placed between?
2. Can intradermal injections bleed?
3. Do intradermal injections hurt?

Modified work.

By Madhero88 (Own work) [CC BY-SA 3.0 (<http://creativecommons.org/licenses/by-sa/3.0/>)], via Wikimedia Commons([https://commons.wikimedia.org/wiki/File%3ASkin\\_layers.png](https://commons.wikimedia.org/wiki/File%3ASkin_layers.png))

Merriam-Webster (2016). Dictionary. Retrieved from <https://www.merriam-webster.com/>

## Lesson One - Introduction to Intradermal Injections

# LEARN: Intradermal Injections Slide Presentation

20 minutes

### Purpose:

Participants will receive a thorough introduction to intradermal injections and the proper procedure and documentation surrounding it.

### Materials:

- *Introduction to Intradermal Injections* slide presentation
- *Introduction to Intradermal Injections Check-Off (Sample Medication Administration Record)*
- Injection pad, model or simulator

### Facilitation Steps:

1. Share the following information with students as you show the slide presentation.

**Slide 1:** Introduction Slide (Source: Perry, A., Potter, P., & Ostendorf, W. (2014). *Clinical Nursing Skills and Techniques*. 8<sup>th</sup> Edition. Publisher: Mosby, Inc.)

**Slide 2:** Parenteral means administered in a manner other than through the digestive tract (in this case, by intradermal injection)

See *Introduction to Intradermal Injections (Focus on Anatomy)* worksheet. Discuss location of epidermis and dermis.

Parenteral medications are absorbed more quickly than oral medications but intradermal has the longest absorption time compared to other parenterals.

**Slide 3:** Sensitivity tests are very potent medications. Since the dermis has reduced blood flow and is absorbed slower, this decreases the risk for anaphylactic reactions.

We test for tuberculosis (TB) since, according to the Centers for Disease Control (2016), one third of the world's population is infected. A total of 9,557 TB

cases (a rate of 3.0 cases per 100,000 persons) were reported in the United States in 2015. There were 1.8 million TB-related deaths worldwide.

Intradermal can also be used in local anesthetic (numbing of an area). Examples include for stitches and dental procedures.

**Slide 4:** Sensitivity testing requires that the administrator be able to clearly see the injection sites for changes in color and tissue integrity

**Slide 5:** It is important that the needle length is small to slide between the layers of skin. Gauge refers to the diameter of the needle. The higher the gauge, the thinner the needle.

(Show the students the supplies and where to find the length/gauge of a needle on the package)

**Slide 6:** Review *Introduction to Intradermal Injections (Focus on Empathy)* worksheet.

Prior to administering any medication, it is important to review the medication administration record and provider's order. It is essential to review general information about the medication as well.

Make sure the medication is appropriate for your patient.

**Slide 7:** Demonstrate swabbing of vial, removing needle cap in one smooth motion to prevent a rebound needle stick and drawing of medication

One handed scoop method: Place the cap on a flat surface and hold the syringe in one hand. Keep the other hand by your side. Slide the needle into the cap, then lift it up

## Introduction to Intradermal Injections

and snap it on securely using only one hand.

Depending on dose, it may be necessary to add air equal to the dose into the vial prior to removing the medication. This equalizes the pressure in the vial.

Finish completing the rights of administration once dose is drawn. This may be done at a medication cart or at bedside depending on facility.

**Slide 8:** Review proper identifiers (name, date of birth, medical record number, photograph in MAR)

Ask students how they would explain an intradermal injection

**Slide 9:** Assist patient to comfortable position (e.g. Have patient extend elbow and support forearm on flat surface)

**Slide 10:** Demonstrate intradermal injection. Point out bleb (or wheal).

**Slide 11:** Patient teaching can include when site is to be read (e.g. TB is to be read 48 to 72 hours after administration) and signs of hypersensitivity. Can draw a circle around injection site with skin pencil if necessary.

**Slide 12:** Every MAR is different. Demonstrate documentation of intradermal injections.

# Introduction to Intradermal Injections Check-Off

(Sample Medication Administration Record)

|               |                |           |            |
|---------------|----------------|-----------|------------|
| Patient       | Dermitt, Henry | MRN       | 8965325    |
| Date of Birth | 06/17/XXXX     | Provider  | Thompson   |
| Age           | 32 years       | Allergies | Penicillin |

| Medication                          |          | Mon                 | Tues | Wed | Thurs | Fri | Sat | Sun |
|-------------------------------------|----------|---------------------|------|-----|-------|-----|-----|-----|
| Tuberculin 0.1ml intradermal<br>NOW | Initials | <i>JW</i>           |      |     |       |     |     |     |
|                                     | Site     | <i>Left Forearm</i> |      |     |       |     |     |     |
|                                     |          |                     |      |     |       |     |     |     |
|                                     |          |                     |      |     |       |     |     |     |

| Initials  | Signature/Title        | Initials | Signature/Title |
|-----------|------------------------|----------|-----------------|
| <i>JW</i> | <i>Janice Wells SN</i> |          |                 |
|           |                        |          |                 |
|           |                        |          |                 |

## Lesson One - Introduction to Intradermal Injections

# REVIEW: Practice and Assessment of Intradermal Injections

30 minutes

### Purpose:

Participants will practice intradermal injections on models and then complete a quiz to assess mastery.

### Materials:

1. *Introduction to Intradermal Injections Check-Off (Instructor Resource)*
2. *Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)*
3. *Introduction to Intradermal Injections Check-Off worksheet*
4. *Introduction to Intradermal Injections Check-Off (Sample Medication Administration Record)*
5. *Introduction to Intradermal Injections Check-Off (Medication Administration Record) worksheet*
6. Injection pad, model or simulator
7. *Introduction to Intradermal Injections Quiz*
8. *Introduction to Intradermal Injections Quiz - Answer Key*

### Supplies:

- Med cart or mock med cart
- Mock/demo vial of Tuberculin
- Intradermal injection models, task trainer or simulator
- Intradermal TB syringes
- Alcohol swab
- Hand sanitizer or access to a sink
- Clean gloves

### Facilitation Steps:

1. Give students the following handouts:
  - *Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)*
  - *Introduction to Intradermal Injections Check-Off worksheet*

- *Introduction to Intradermal Injections Check-Off (Sample Medication Administration Record)*
  - *Introduction to Intradermal Injections Check-Off (Medication Administration Record) worksheet*
2. Access the *Introduction to Intradermal Injections Check-Off (Instructor Resource)*. Following the steps on the check-off page, demonstrate an intradermal injection on the model, task trainer or simulator.
  3. Have students review the *Introduction to Intradermal Injections Check-Off (Sample Medication Administration Record)* and *Introduction to Intradermal Injections Check-Off (Sample Provider's Orders)*. Answer any questions students may have on using these.
  4. Following the steps on their *Introduction to Intradermal Injections Check-Off worksheet*, have students practice intradermal injections on the model, task trainer or simulator available.
  5. Students should properly document their injection on the *Introduction to Intradermal Injections Check-Off (Medication Administration Record) worksheet*.
  6. Hand out the *Introduction to Intradermal Injections Quiz* to students. Give them a couple of minutes to complete it.
  7. Have students self-check or peer check their answers as you share them from the *Introduction to Intradermal Injections Quiz - Answer Key*.

# Introduction to Intradermal Injections

## Check-Off (Instructor Resource)

### **PREPARATION:**

Supplies:

- Provider Order
- MAR
- Med cart or mock med cart
- Mock/demo vial of Tuberculin
- Intradermal injection models (can be placed on a manikin)
- Intradermal TB syringes
- Alcohol swab
- Hand sanitizer or access to sink
- Clean gloves

**Optional:** Evaluate the student's ability to complete an intradermal injection using the check-off. May score via points or satisfactory/unsatisfactory. See sample completed MAR for proper documentation.

After demonstration, have students practice intradermal injections on the models using the following steps:

## Introduction to Intradermal Injections

|     |                                                                                                                |  |
|-----|----------------------------------------------------------------------------------------------------------------|--|
| 1.  | Verify MAR with written order from provider                                                                    |  |
| 2.  | Review medication reference information (proper dosage, side effects, contraindications etc.)                  |  |
| 3.  | Gather supplies needed for preparing and administering medication                                              |  |
| 4.  | Wash your hands with sanitizer or soap/water                                                                   |  |
| 5.  | Compare MAR with medication; complete the Rights of Administration                                             |  |
| 6.  | Draw up the correct dose; complete the Rights of Administration                                                |  |
| 7.  | Wash your hands with sanitizer or soap/water                                                                   |  |
| 8.  | Gather supplies; lock medication cart and ensure no patient information is visible per HIPAA                   |  |
| 9.  | Knock, enter room and provide for privacy                                                                      |  |
| 10. | Identify yourself with name and title (student nurse, medical assistant, etc.)                                 |  |
| 11. | Wash your hands with sanitizer or soap/water                                                                   |  |
| 12. | Identify patient by asking name and date of birth; verify this information with the MAR                        |  |
| 13. | Explain the procedure to the patient and ask if they have any questions; verify allergies with MAR             |  |
| 14. | If not completed at the cart, complete the Rights of Administration                                            |  |
| 15. | Apply clean gloves                                                                                             |  |
| 16. | Assist patient to comfortable position and select appropriate site                                             |  |
| 17. | Clean site with alcohol swab                                                                                   |  |
| 18. | Remove needle cap and hold syringe with bevel up                                                               |  |
| 19. | Administer injection at a 5-15 degree angle noting small bleb/wheel                                            |  |
| 20. | Withdraw needle, applied alcohol swab or gauze lightly over site                                               |  |
| 21. | Ask your patient if they are comfortable and if they have any questions; observe for signs of hypersensitivity |  |
| 22. | Remove gloves and wash your hands with sanitizer or soap/water                                                 |  |
| 23. | Document medication administration on the MAR                                                                  |  |
|     | Score                                                                                                          |  |

## Introduction to Intradermal Injections

### Check-Off (Sample Provider's Orders)

[illegible]

DERMIT, HENRY  
MRN: 8965325  
Age: 32 years  
Date of Birth: 06/17/XXXX

# Introduction to Intradermal Injections

## Check-Off

**PART ONE:** Practice intradermal injections on the model using the following steps:

|     |                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------------------|
| 1.  | Verify MAR with written order from provider                                                                    |
| 2.  | Review medication reference information (proper dosage, side effects, contraindications etc.)                  |
| 3.  | Gather supplies needed for preparing and administering medication                                              |
| 4.  | Wash your hands with sanitizer or soap/water                                                                   |
| 5.  | Compare MAR with medication; complete the Rights of Administration                                             |
| 6.  | Draw up the correct dose; complete the Rights of Administration                                                |
| 7.  | Wash your hands with sanitizer or soap/water                                                                   |
| 8.  | Gather supplies; lock medication cart and ensure no patient information is visible per HIPAA                   |
| 9.  | Knock, enter room and provide for privacy                                                                      |
| 10. | Identify yourself with name and title (student nurse, medical assistant, etc.)                                 |
| 11. | Wash your hands with sanitizer or soap/water                                                                   |
| 12. | Identify patient by asking name and date of birth; verify this information with the MAR                        |
| 13. | Explain the procedure to the patient and ask if they have any questions; verify allergies with MAR             |
| 14. | If not completed at the cart, complete the Rights of Administration                                            |
| 15. | Apply clean gloves                                                                                             |
| 16. | Assist patient to comfortable position and select appropriate site                                             |
| 17. | Clean site with alcohol swab                                                                                   |
| 18. | Remove needle cap and hold syringe with bevel up                                                               |
| 19. | Administer injection at a 5-15 degree angle noting small bleb/wheal                                            |
| 20. | Withdraw needle, applied alcohol swab or gauze lightly over site                                               |
| 21. | Ask your patient if they are comfortable and if they have any questions; observe for signs of hypersensitivity |
| 22. | Remove gloves and wash your hands with sanitizer or soap/water                                                 |
| 23. | Document medication administration on the MAR                                                                  |

# Introduction to Intradermal Injections Check-Off

## (Sample Medication Administration Record)

|               |                |           |            |
|---------------|----------------|-----------|------------|
| Patient       | Dermitt, Henry | MRN       | 8965325    |
| Date of Birth | 06/17/XXXX     | Provider  | Thompson   |
| Age           | 32 years       | Allergies | Penicillin |

| Medication                          |          | Mon                 | Tues | Wed | Thurs | Fri | Sat | Sun |
|-------------------------------------|----------|---------------------|------|-----|-------|-----|-----|-----|
| Tuberculin 0.1ml<br>intradermal NOW | Initials | <i>JW</i>           |      |     |       |     |     |     |
|                                     | Site     | <i>Left Forearm</i> |      |     |       |     |     |     |
|                                     |          |                     |      |     |       |     |     |     |
|                                     |          |                     |      |     |       |     |     |     |

| Initials  | Signature/Title        | Initials | Signature/Title |
|-----------|------------------------|----------|-----------------|
| <i>JW</i> | <i>Janice Wells SN</i> |          |                 |
|           |                        |          |                 |
|           |                        |          |                 |

# Introduction to Intradermal Injections Check-Off

## (Medication Administration Record)

|               |                |           |            |
|---------------|----------------|-----------|------------|
| Patient       | Dermitt, Henry | MRN       | 8965325    |
| Date of Birth | 06/17/XXXX     | Provider  | Thompson   |
| Age           | 32 years       | Allergies | Penicillin |

| Medication                       |                  | Mon | Tues | Wed | Thurs | Fri | Sat | Sun |
|----------------------------------|------------------|-----|------|-----|-------|-----|-----|-----|
| Tuberculin 0.1ml intradermal NOW | Initials<br>Site |     |      |     |       |     |     |     |
|                                  |                  |     |      |     |       |     |     |     |
|                                  |                  |     |      |     |       |     |     |     |

| Initials | Signature/Title | Initials | Signature/Title |
|----------|-----------------|----------|-----------------|
|          |                 |          |                 |
|          |                 |          |                 |
|          |                 |          |                 |

Name: \_\_\_\_\_ Class: \_\_\_\_\_

## Introduction to Intradermal Injections Quiz

Select the best answer to the following multiple-choice questions:

1. Intradermal injections are used for which of the following?
  - a. Pain medications
  - b. Local anesthetics
  - c. Insulin
  - d. Vaccines
2. Which of the following is the proper site for an intradermal injection?
  - a. Anterior forearm
  - b. Abdomen
  - c. Back of upper arm
  - d. Thigh
3. You need to give a tuberculin skin test to a patient. Which of the following needles would you correctly select?
  - a. 1 to 3 inch, 22- to 18-gauge needle
  - b. 5/8 to 1½ inch, 24- to 18-gauge needle
  - c. 5/8 to 1 inch, 25- to 27-gauge needle
  - d. 3/8 to 5/8 inch, 25- to 27-gauge needle
4. When administering an intradermal injection, what angle should be used?
  - a. 5-15 degree
  - b. 15-45 degree
  - c. 45-90 degree
  - d. 90 degree only
5. After you give a tuberculin skin test to a patient, what should be included in the aftercare instructions?
  - a. Call the provider if there are signs of hypersensitivity
  - b. The site needs to be read in 48-72 hours
  - c. Do not put pressure on or massage the site
  - d. All of the above

## Introduction to Intradermal Injections Quiz - Answer Key

1. Intradermal injections are used for which of the following?

a. Pain medications

**b. Local anesthetics**

c. Insulin

d. Vaccines

*Intradermal can also be used in local anesthetic (numbing of an area). Examples include for stitches and dental procedures.*

2. Which of the following is the proper site for an intradermal injection?

**a. Anterior forearm**

b. Abdomen

c. Back of upper arm

d. Thigh

*Choices b and c are used for subcutaneous injections. Choice d is used for intramuscular.*

3. You need to give a tuberculin skin test to a patient. Which of the following needles would you correctly select?

a. 1 to 3 inch, 22- to 18-gauge needle

b. 5/8 to 1½ inch, 24- to 18-gauge needle

c. 5/8 to 1 inch, 25- to 27-gauge needle

**d. 3/8 to 5/8 inch, 25- to 27-gauge needle**

*Needles for intradermal are small in length and width*

4. When administering an intradermal injection, what angle should be used?

**a. 5-15 degree**

b. 15-45 degree

c. 45-90 degree

d. 90 degree only

*A narrow angle allows for the needle to enter under the epidermis*

5. After you give a tuberculin skin test to a patient, what should be included in the aftercare instructions?

a. Call the provider if there are signs of hypersensitivity

b. The site needs to be read in 48-72 hours

c. Do not put pressure on or massage the site

**d. All of the above**

*All should be included in patient teaching*

## Sources

Centers for Disease Control (2016). Tuberculosis Data and Statistics. Retrieved from <https://www.cdc.gov/tb/statistics/>

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