Getting started with
MiniMed™ Infusion Sets and Reservoirs

Fit for any lifestyle
Welcome
This guide will introduce you to our range of MiniMed™ infusion sets and reservoirs, and provide you with tips and educational guidelines on how to use them with your MiniMed™ 640G system.

Infusion sets and reservoirs management is an important part of your therapy management. The information here is intended as a guide. You should check with your healthcare professional about what may be best for you.

Let’s get started!

For listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.
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Infusion Sets & Reservoirs
1.1 Pump Mechanics and the Delivery of Insulin

Before we begin, let’s make sure you know how insulin is delivered when using an insulin pump. The parts that make up the pump’s delivery system are the infusion set, the reservoir, and the pump.

1.1.1 Infusion Set

The infusion set consists of tubing (1) that carries insulin from the pump to you. At one end of the tubing is the MiniMed™ Connection (2) which attaches to the reservoir that holds the insulin. At the other end is the insertion site section (3) that will sit on your skin.

The insertion site section has a small insertion needle that places a tiny flexible tube called a cannula (4) into your body**. Once the infusion set is inserted, you remove the insertion needle, leaving just the soft cannula behind. A small piece of adhesive (5) holds the infusion set in place.

1.1.2 Reservoir

The reservoir holds a 2-to-3 days supply of insulin. You will fill the reservoir with insulin following your personal and therapy needs. The reservoir fits into the pump’s reservoir compartment.

You will be replacing both the infusion set and the reservoir every 2 to 3 days, as per your healthcare professionals instructions.

1.1.3 Pump

Inside the pump, at the bottom of the reservoir compartment, is a piston. The piston acts like the plunger rod on a syringe, pushing up on the bottom of the reservoir, moving insulin into the tubing, through the cannula, and into your body.

The piston is controlled by a sophisticated system inside the pump that’s able to deliver insulin in very small doses, as small as 0.025 units as needed.
1.2 Why use MiniMed™ Infusion Sets and Reservoirs?

Infusion sets and reservoirs are key components for successful insulin pump therapy.

MiniMed™ infusion sets and reservoirs work as a system with the pump by providing a unique interface designed for a secure fit.

Patients that had the chance to try both MiniMed™ and standard luer connector preferred the MiniMed™ Connection 3 times more*. Feedback from our patients all over the world show that the MiniMed™ system is a trusted one: every year more than a hundred million MiniMed™ infusion sets and reservoirs are used by our patients.*

1.2.1 MiniMed™ Connection

The core part of this insulin delivery system, is the MiniMed™ connection: patented**, unique and on every infusion set.

1. **Ergonomic** - with large grabbing surface for convenience.

2. **Providing confidence** - audible *click!* indicates that all parts are connected and locked correctly.

3. **Integrated reservoir cap** - The cap is securely integrated into the connection, unlike luer-lock systems, where loss or damage to the reservoir cap can lead to pump malfunction.

4. **Secured locking mechanism** - The connector snaps into place on the reservoir and in the MiniMed™ insulin pump to prevent accidental loosening of the set.

1.2.2 MiniMed™ Reservoirs

The MiniMed™ reservoirs have been designed with your safety in mind, in order to help make the filling a convenient process.

5. **No assembly required** - the reservoir is ready to be filled once it’s removed from the packaging.

6. **Less risk of needle stick injury** - unlike luer reservoirs, no extra needle to handle, it is incorporated into the TransferGuard.

7. **Fits insulin vials and cartridges** - the TransferGuard fits easily onto insulin vials, cartridges and pens.

8. **Less leakage or spillage** - once the TransferGuard is removed, a silicone membrane seals the reservoir.

9. **Rounded shape** - can help eliminate air bubbles during reservoir filling to promote consistent insulin delivery.

Note: MiniMed™ Reservoirs are available in 1.8 and 3 ml size. If you are using a 3 ml pump you can use either reservoir size. Your total insulin requirements for 2-3 days will determine which size reservoir is right for you. Consult your healthcare professional to determine the best pump and reservoir size for you.

*Medtronic data on file  **Paradigm Connector - US Patent # 6,585,695
2.1 Choosing your infusion set type

2.1.1 Angle of insertion*

Infusion sets are designed to be inserted at a 90° or at 20-45° angle to the surface of the skin. 90° insertion angle sets (MiniMed™ Mio™ and MiniMed™ Quick-set™) are beneficial for patients:

• with poor dexterity
• preferring arm or hard-to-reach infusion sites
• that have needlephobia
• such as children who are learning to insert their own sets.

Angled insertion infusion sets (MiniMed™ Mio™ 30 and MiniMed™ Silhouette™) are beneficial for patients:

• that are lean or muscular
• who experience lipohypertrophy
• with a higher risk of the set being pulled out, including active children and athletes (the angle of insertion and the length of the cannula (longer than 90° cannulae) may reduce the risk of a cannula being dislodged)
• who are pregnant (near the end of the second trimester or in the third trimester, when abdominal tissue is stretched taut)
• who experience site infections. The clear window in the adhesive tape of an angled set allows patients to see any redness developing around the cannula, thus potentially reducing the risk of a site infection.

2.1.2 Cannula length*

Most patients can benefit from a shorter-length cannulae (6 mm for 90° sets, 13 mm for 30-45° angled infusion sets). A longer cannula may be necessary for:

• patients with a high BMI
• patients requiring large boluses (≥25 units) for meals
• patients requiring high basal rates (≥2.5 units per hour) to ensure that the insulin is delivered successfully into the subcutaneous tissue

2.1.3 Cannula options: steel needle or plastic soft cannula?*

Steel needle infusion sets (MiniMed™ Sure-T™) are favored for patients who:

• have reactions to plastic cannulae,
• are fit and active
• have a history of bent cannulae.
• are pregnant (up to the second trimester)

As they do not insert a cannula, steel needles are relatively small. Insertion is similar to taking an injection. For that reason, steel needle sets can be appropriate for patients who prefer smaller needles. Steel needle infusion sets are typically very easy to teach patients to use and for patients to insert.
2.2 MiniMed™ Infusion Sets

Medtronic offers a wide range of infusion sets for you to choose the right infusion set for your comfort and safety.

The Infusion Set selection should be done with care and based on your lifestyle, age and body build also international clinical recommendations suggest.

<table>
<thead>
<tr>
<th>STEEL</th>
<th>SOFT CANNULA</th>
<th>ANGLED</th>
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</thead>
<tbody>
<tr>
<td>Manual</td>
<td>With serter</td>
<td>All in one</td>
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<tr>
<td>NEEDLE/CANNULA LENGTHS</td>
<td>6mm 8mm 10mm</td>
<td>6mm 9mm</td>
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</table>
MiniMed™ Infusion Sets

Fit for any lifestyle
MiniMed™ Mio™ 30

30° insertion >
Soft cannula >
All-in-one >

Why choose the MiniMed™ Mio™ 30?

MiniMed™ Mio™ 30 is the newest innovation in the MiniMed™ infusion sets portfolio.

Responding to the patients’ needs, MiniMed™ Mio™ 30 improves flexibility, offering angled insertion and an all-in-one infusion set with integrated serter, for better convenience whilst on the go.

• Convenient - Integrated ‘all-in-one’ infusion set and insertion device
• Practical - Rigid packaging
• At-a-glance site inspection made possible with the clear window on the set
• Easy at-site disconnection - Press and pull motion

The MiniMed™ Mio™ 30 infusion set is particularly suitable for:

• Lean or muscular children or adults
• Patients with recurrent site infections
• Patients with lipohypertrophy and/or dexterity problems

All-in-one convenience
Why choose the MiniMed™ Mio™?

MiniMed™ Mio™ is an all-in-one infusion set, integrating the set and the insertion device in one single unit that comes in a variety of colours.

The MiniMed™ Mio™ is easy to insert and carry, making it a great choice for anyone looking for a portable and reliable infusion set, offering convenience whilst on the go.

- Convenient - Integrated ‘all-in-one’ infusion set and insertion device
- Practical - Rigid packaging
- Easy at-site disconnection - Press and pull motion
- 3 colours to choose from (Blue, Pink and Clear)

The Mio™ infusion set is particularly suitable for:

- Both children and adults of average to heavier build
- Patients who have dexterity or vision problems
- Patients preferring to insert the infusion set in areas that are harder to reach (alternative sites)
Why choose the MiniMed™ Quick-set™?

MiniMed™ Quick-set™ is a popular MiniMed™ infusion set combining ease of use with comfort.

The MiniMed™ Quick-serter insertion device is a spring-activated device designed to make Quick-set™ insertions easy with the press of a button, even in hard-to-reach areas.

- Consistent insertion with optional MiniMed™ Quick-serter™. Manual insertion is also possible, if preferred
- Easy at-site disconnection - Press, turn and lift motion
- Reduce risk of needlestick injury with fold-over needle guard

The MiniMed™ Quick-set™ infusion set is particularly suitable for:

- Both children and adults of average to heavier build
- Patients who need simplicity in set insertion
- Children learning to insert their own sets
- Patients with poor dexterity
SECTION 2: MiniMed™ Infusion Sets

Why choose the MiniMed™ Sure-T™?

MiniMed™ Sure-T™ is uniquely designed to provide continuous insulin delivery. It’s kink-free steel needle, the thinnest available in the MiniMed™ portfolio, combined with an extra disconnection site 10 cm away from the infusion site, provides extra security against dislodging.

- Convenience for children - Tubing connector 10 cm away from insertion site allows disconnection without touching it (press and pull motion)
- Additional adhesive pad for extra security and reduced risk of needle pull-out
- Comfort - 29-gauge steel needle is the thinnest available from Medtronic
- Manual insertion

MiniMed™ Sure-T™ is particularly suitable for:

- Children of normal to heavier build
- Pregnant women
- Patients who are allergic to Teflon® and have reactions to plastic cannulae
- Patients who are fit and active with a history of bent cannulae
- Patients or parents and caregivers who are hesitant about complex infusion site changes

Security, simply
Why choose the MiniMed™ Silhouette™?

MiniMed™ Silhouette™ offers flexibility, with a variable insertion angle from 20 to 45° enabling you to adjust the depth of insertion.

- Controlled insertion with optional MiniMed™ Sil-serter™. Manual insertion is also possible, if preferred.
- At-a-glance site inspection made possible with the clear window on the set
- Flexibility - Adjustable angle insertion allows you to choose
- Easy at-site disconnection - Press and pull motion

MiniMed™ Silhouette™ is particularly suitable for:

- Lean or muscular children or adults
- Patients with a higher risk of the set being pulled out (including active children and sporty individuals)
- Patients with recurrent site infections
- Patients with lipohypertrophy

Comfort and Flexibility
Proper infusion site selection and rotation promotes predictable insulin absorption and protects sites from undesirable tissue changes such as hardening and bumps.*

Different areas of your body absorb insulin at different rates. Your healthcare professional can help you select the best sites for your particular body type.

Shown below are some commonly recommended areas and their relative insulin absorption rates:

- **Abdomen** – considered the most efficient absorption area
- **Hips and buttocks** – slower absorption than in the abdomen but may be preferable for more active patients
- **Outer thigh** – slower absorption than the abdomen, however, rate may rise with physical activity. Interior thigh area should be avoided due to higher risk of irritation and infection
- **Back of the arms** – slower absorption than in the abdomen, however, rate may rise with physical activity

**Avoid inserting your infusion set:**

- Within a 5 cm (2 inch) radius of your belly button or glucose sensor site
- Where your body naturally bends
- In areas where clothing might cause irritation (for example, your belt line)
- Where you have scarred or hardened tissue or stretch marks

**IMPORTANT:** Do not routinely change your set before bedtime, unless you are able to check your blood glucose (BG) 2-3 hours afterwards to ensure that the set is working properly.

Rotating Your Sites

- **Rotate infusion set sites** to keep your tissue healthy.

- Lumps or hardened areas are called “hypertrophy” caused by injecting insulin into the same site over time. If you have lumpy or hard areas choose a softer site and avoid the previous site for about one month or you may experience poor insulin absorption. You may also talk to your healthcare professional to discuss possible alternative site locations.

- **Switching your infusion set to alternative sites** (e.g. if you normally use your abdomen and change to using your arms or legs) may result in changes to your glucose control. This is likely to be due to the speed of insulin absorption, so you may need to check your BG more frequently.

These pictures below may be helpful to assist you in rotating your sites in an organised way. If you wear your site in an area other than your belly (such as leg, arm, or buttocks) you should use a variation of these methods.

Visualise an imaginary clock drawn on your abdomen surrounding your belly button. Rotate infusion sites by starting at the 12 o’clock position and then rotating the site clockwise to 3 o’clock, 6 o’clock, and so on.

Imagine an “M” or “W” pattern approximately 10cm long on either side of your belly button. Start at the end of one letter and proceed through the letter, rotating the infusion set at each intersection.
For better control and to maintain skin health, use each infusion set for 2-3 days, as indicated. Frequent changing of infusion sites can help prevent:

- Cutaneous (skin) complications
- Loss of glycaemic control
- Lipohypertrophy (fatty tissue build-up)

In addition, insulin may lose its strength over time, especially with heat and agitation. As this happens, insulin becomes less effective, and controlling your blood glucose becomes more difficult. Therefore, it is critical to change your insulin reservoir every 2 to 3 days as well.

Simple steps for preventing infection

Besides changing infusion sets and sites every 2 to 3 days, avoid using your infusion sets with broken seals or expired “use by” dates.

Other precautions:

- Wash your hands prior to handling sets
- Thoroughly prepare site
- Check the whole infusion set for leakage
- Verify proper insertion
- Avoid touching or breathing on the needle or cannula

Use it right and use it in good health.
Change your infusion set and reservoir every 2 to 3 days.

**Blood Glucose Values**

- **2** Days
- **3** Days
- **+3 Days**

Longer wear may result in poor insulin absorption and lead to higher blood sugar levels.

Studies show that your blood sugar values increase for each additional day that you wear the same infusion set.

- The amount of time with high sugar values (>180mg/dL or 10mmol/L) increased from 3 hours daily to 9 hours daily when set was used for longer than 3 days.

Wearing infusion sets for greater than 2-3 days can lead to increased skin irritation.

People who use an infusion set for longer than 3 days are 4 times more likely to experience site irritations.

- Itching
- Bruising
- Swelling
- Pain

4.2 Set Change reminder

The Set Change reminder helps you remember to change your infusion set. After you turn on this reminder, it automatically tracks the time between infusion set changes and reminds you to change your infusion set.

To turn on or off, or change the Set Change reminder:

1. Go to the Set Change screen.
   Menu > Reminders > Set Change

2. Select Reminder to turn the reminder on or off. If you turn on the reminder, select Time and choose two or three days for the reminder.

3. Select Save.
Note: Remember that you can fill the reservoir with the amount you need for the 2 to 3 days use without necessarily having to fill it all up to the 300 and 180 units total capacity. While doing this calculation, always consider also the amount of insulin needed for the tubing and cannula priming. Here are some indications for you:

<table>
<thead>
<tr>
<th>CANNULA TYPE</th>
<th>FILL AMOUNT</th>
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<tbody>
<tr>
<td>13 mm plastic</td>
<td>0.7 units</td>
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<table>
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<tr>
<th>TUBING LENGTH</th>
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<tr>
<td>60 cm</td>
<td>12 units</td>
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<tr>
<td>110 cm</td>
<td>22 units</td>
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5.1

Changing the MiniMed™ Mio™ 30 Infusion Set and MiniMed™ Reservoir with the MiniMed™ 640G Insulin Pump

Before you begin, please note that it is not recommended that you change your infusion set just prior to bedtime.

Changing your set during the day may reduce the risk of unexplained highs and no delivery alarms while sleeping. Please refer to the MiniMed™ Mio™ 30 Infusion Set User Guide for more details.

To change your MiniMed™ Mio™ 30 infusion set and Reservoir, you will need to organise the following supplies:

- Reservoir (with blue Transfer Guard)
- Insulin cartridge/vial (at room temp for 1 hour)
- MiniMed™ Mio™ 30 infusion set
- Alcohol swabs/skin antiseptics

STEP BY STEP GUIDE
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

1. START
   REMOVING THE RESERVOIR
   Follow the next steps to remove the reservoir.

   1.1 Wash your hands
   1.2 Select Reservoir & Tubing
   1.3 Select New Reservoir.
   1.4 Remove the infusion set you have been using...

2. FILL RESERVOIR & CONNECT TO THE INFUSION SET TUBING
   Follow the next steps to fill reservoir with insulin and connect to the infusion set tubing.

   2.1 Remove from package. Make sure insulin vial is at room temperature to reduce the risk of air bubbles. (If using insulin cartridge proceed to step 2.6.)
   2.2 Pull plunger down to the amount that you plan to fill with insulin.

2.6 If using a cartridge of insulin.
   Hold the reservoir upright. Push plunger into the reservoir to expel any air. Turn plunger slightly anti-clockwise to loosen it. Firmly press insulin cartridge onto blue transfer guard. Hold the reservoir and cartridge at eye level and using a pencil, push down on the rubber stopper of the cartridge to fill the reservoir.

2.7 Tap the reservoir to move air bubbles to top of reservoir. Push plunger up to move air into vial.

If using insulin vial only.

Plunger

Insulin cartridge
1.5 Remove the used reservoir from the pump.

1.6 Select **Rewind**.

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2.3 Wipe vial with alcohol. Place vial on table. Firmly press the blue transfer guard onto vial.

2.4 Push and hold plunger down.

2.5 With your thumb still on the plunger, flip over so vial is on top. Release thumb and pull plunger down to fill with insulin.

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2.8 If needed, pull plunger back down to amount of insulin needed for 2-3 days.

2.9 To avoid getting insulin on the top of the reservoir, turn vial over so it is upright. Hold transfer guard and turn reservoir counter-clockwise and remove from transfer guard.

---

**IMPORTANT**: If insulin or any liquid gets inside the tubing connector, it can temporarily block the vents that allow the pump to properly fill the infusion set. This may result in the delivery of too little or too much insulin, which could cause hypoglycaemia or hyperglycaemia.

**Continues on next page**
**Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump**

**SECTION 5:**

### CONNECT RESERVOIR TO INFUSION SET

You will place the reservoir connector onto the end of the infusion set to the filled reservoir.

- **A:** Lid
- **B:** Needle guard
- **C:** Cannula housing
- **D:** Infusion site connector
- **E:** Tubing connector
- **F:** Introducer needle
- **G:** Insertion device
- **H:** Finger grips
- **I:** Release buttons
- **J:** Protective cap for infusion site connector
- **K:** Spring with finger loop (inside)

### PLACE RESERVOIR INTO PUMP

Select **Next.**

Now place the filled reservoir into the reservoir compartment of the pump.

**4.1** Place reservoir into pump.

**4.2** Turn clockwise until you feel reservoir lock into place.

### INSERT INFUSION SET

Next, follow the steps to insert the infusion set into your body.

**5.4** After you see drops, press ✔️ and select **Next.**

**6.1** Pull red tape to remove plastic seal.

**6.2** Pull off sterile paper. Do not touch spring with finger loop at this time.
Select Next.

**3.1** Gently push connector onto reservoir. Turn clockwise until locked. You will hear a click.

**3.2** If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

**3.3** Twist plunger counter-clockwise to loosen and remove.

**3.4** If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

**3.5** Select Load Reservoir and unlock pump if necessary.

**3.6** The backlight may have turned off. Press any button to turn the screen back on.

Select Load Reservoir and keep holding.

**4.1** Follow these steps to load the reservoir and fill the tubing.

**4.2** When you see this screen, select Next.

**5.1** Select Load and keep holding until you see drops at the end of tubing, then let go.

**5.2** When you see this screen, select Next.

**5.3** Select Fill and keep holding until you see drops at the end of tubing, then let go.

**6.1** Hold Mio™ 30 with one hand and pull lid off with the other. Be careful not to bend or touch introducer needle.

**6.2** Firmly grip the insertion device in your hand and rest your fingers on finger grips on both sides. With other hand, gently pull back spring with finger loop until you hear a click.

**6.3** Remove needle guard. This will remove part of the paper backing. Be sure the tape is not stuck to the needle.

**6.4** Choose an insertion site from the shaded areas shown here. Wipe with alcohol or other antiseptic.

**6.5** Needle guard

Continues on next page
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

6.7 Place index finger on top release button and your thumb on bottom release button. Rest insertion device on body to ensure an angle of 30°. Press release buttons together to insert needle.

6.8 Use two fingers to hold down adhesive. Place each finger on both sides of the needle but not directly on top. Gently pull insertion device away from your body.

6.9 Secure cannula by gently pressing down with one finger on the clear window of adhesive. Carefully remove larger paper backing under cannula housing.

6.10 Remove smaller paper backing from front end. Press adhesive securely onto skin.

6.11 Place lid back onto the Mio™ 30 for disposal.

Note: Your pump will remember the Fill amount that you used last. Always verify that the Fill amount is correct.

- If it is correct, press ▼ to Fill Now and press ▼.
- If it is incorrect, press ▼ Change to correct amount and. Press ▼ Fill Now.

7.3 Select Fill Now.

7.4 The Home screen displays the insulin as it fills the cannula.
6.12 Gently place a finger on cannula housing to secure it against the body and insert infusion site connector until it locks and you hear it click.

You will now fill the cannula, the little tube under your skin, with insulin.

7.1 Select Fill.

7.2 Select Fill amount and enter 0.700. Then press .

**Note:** Select Stop Filling if you need to stop, for example, if you notice the Total amount is incorrect. This should rarely happen if you have verified the Fill amount on the previous screen.

Your infusion set change is now complete!
MiniMed™ Mio™

90° insertion >
Soft cannula >
All-in-one >

All-in-one personalisation

<table>
<thead>
<tr>
<th>CANNULA TYPE</th>
<th>FILL AMOUNT</th>
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<tr>
<td>9 mm plastic</td>
<td>0.5 units</td>
</tr>
<tr>
<td>Steel (Sure-T)</td>
<td>0.0 units</td>
</tr>
<tr>
<td>6 mm plastic (Quick-set and Mio)</td>
<td>0.3 units</td>
</tr>
<tr>
<td>9 mm plastic (Quick-set and Mio)</td>
<td>0.5 units</td>
</tr>
<tr>
<td>13 mm plastic (Silhouette)</td>
<td>0.7 units</td>
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<tr>
<td>17 mm plastic (Silhouette)</td>
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<table>
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<th>TUBING LENGTH</th>
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<td>60 cm</td>
<td>12 units</td>
</tr>
<tr>
<td>80 cm</td>
<td>16 units</td>
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</tbody>
</table>

Note: Remember that you can fill the reservoir with the amount you need for the 2 to 3 days use without necessarily having to fill it all up to the 300 and 180 units total capacity.

While doing this calculation, always consider also the amount of insulin needed for the tubing and cannula priming. Here are some indications for you:
Changing Your MiniMed™ Infusion Set

Changing the MiniMed™ Mio™ Infusion Set and MiniMed™ Reservoir with the MiniMed™ 640G Insulin Pump

Before you begin, please note that it is not recommended that you change your infusion set just prior to bedtime.

Changing your set during the day may reduce the risk of unexplained highs and no delivery alarms while sleeping. Please refer to the MiniMed™ Mio™ Infusion Set User Guide for more details.

To change your MiniMed™ Mio™ infusion set and Reservoir, you will need to organise the following supplies:

- Reservoir (with blue Transfer Guard)
- Insulin cartridge/vial (at room temp for 1 hour)
- MiniMed™ Mio™ infusion set
- Alcohol swabs/skin antiseptics

STEP BY STEP GUIDE
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

1. **START**

   **REMOVING THE RESERVOIR**

   Follow the next steps to remove the reservoir.

   - **1.1** Wash your hands
   - **1.2** Select Reservoir & Tubing
   - **1.3** Select New Reservoir.
   - **1.4** Remove the infusion set you have been using...

2. **FILL RESERVOIR & CONNECT TO THE INFUSION SET TUBING**

   Follow the next steps to fill reservoir with insulin and connect to the infusion set tubing.

   - **2.1** Remove from package. Make sure insulin vial is at room temperature to reduce the risk of air bubbles. (If using insulin cartridge proceed to step 2.6.)
   - **2.2** Pull plunger down to the amount that you plan to fill with insulin.
   - **2.3** If using a cartridge of insulin.
     Hold the reservoir upright. Push plunger into the reservoir to expel any air. Turn plunger slightly anti-clockwise to loosen it. Firmly press insulin cartridge onto blue transfer guard. Hold the reservoir and cartridge at eye level and using a pencil, push down on the rubber stopper of the cartridge to fill the reservoir.
   - **2.7** Tap the reservoir to move air bubbles to top of reservoir. Push plunger up to move air into vial.

   **If using insulin vial only.**
1.5 Remove the used reservoir from the pump.

1.6 Select Rewind.

...by loosening the adhesive and pulling away from body.

If using insulin cartridge, skip to Step 2.6.

2.3 Wipe vial with alcohol. Place vial on table. Firmly press the blue transfer guard onto vial.

2.4 Push and hold plunger down.

2.5 With your thumb still on the plunger, flip over so vial is on top. Release thumb and pull plunger down to fill with insulin.

2.8 If needed, pull plunger back down to amount of insulin needed for 2-3 days.

2.9 To avoid getting insulin on the top of the reservoir, turn vial over so it is upright. Hold transfer guard and turn reservoir counter-clockwise and remove from transfer guard.

IMPORTANT: If insulin or any liquid gets inside the tubing connector, it can temporarily block the vents that allow the pump to properly fill the infusion set. This may result in the delivery of too little or too much insulin, which could cause hypoglycaemia or hyperglycaemia.

Continues on next page
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

You will place the reservoir connector onto the end of the infusion set to the filled reservoir.

3 CONNECT RESERVOIR TO INFUSION SET

3.1 Remove the infusion set from packaging by pulling down the red plastic tab.
3.2 Then peel sterile paper from bottom.
3.3 With one hand press the three raised markings on the sides of the lid.
3.4 Free tubing from slot. Gently unwind tubing in counter clockwise direction.

4 PLACE RESERVOIR INTO PUMP

Select Next.

Now place the filled reservoir into the reservoir compartment of the pump.

4.1 Place reservoir into pump.
4.2 Turn clockwise until you feel reservoir lock into place.

5 INSERT INFUSION SET

5.4 After you see drops, press and select Next.

Next, follow the steps to insert the infusion set into your body.

6.1 Gently peel paper to expose adhesive.
6.2 Turn over and hold by the lined ridges on the sides.
Follow these steps to load the reservoir and fill the tubing.

3.5 Gently push connector onto reservoir. Turn clockwise until locked. You will hear a click.

3.6 If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

3.7 Twist plunger counter-clockwise to loosen and remove.

3.8 If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

4.3 Select Next.

5.1 Select Load and keep holding .

5.2 When you see this screen, select Next.

5.3 Select Fill and keep holding until you see drops at the end of tubing, then let go.

6.3 With other hand pull up on center of serter until it clicks and locks into place.

6.4 Carefully hold needle guard by tip. To remove it, gently turn needle guard & pull away to expose needle.

6.5 Place tubing in slot on side of serter.

CAUTION: Be careful not to pull the tubing tightly when placing it in the slot.

THE BACKLIGHT MAY HAVE TURNED OFF
Press any button to turn the screen back on.

Select Load Reservoir and unlock pump if necessary.

Select Load Reservoir and fill tubing.

Continues on next page
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

6.6 Choose an insertion site from the shaded areas shown here. Wipe with alcohol or other antiseptic.

6.7 Place against prepared site on body. Press the round indentations on each side of serter to insert needle.

6.8 Push down on center of serter to press adhesive against skin.

Note: Your pump will remember the Fill amount that you used last. Always verify that the Fill amount is correct.

- If it is correct, press ▽ to Fill Now and press ◆.
- If it is incorrect, press ◆. Change to correct amount and. Press ◆. Fill Now.

7.3 Select Fill Now.

7.4 The Home screen displays the insulin as it fills the cannula.
6.9 To remove serter, hold the center handle and gently pull it straight out away from body. Press adhesive securely against skin.

6.10 Place lid back onto serter to safely discard needle.

You will now fill the cannula, the little tube under your skin, with insulin.

7.1 Select Fill.

7.2 Select Fill amount and enter:
- 0.300 if using 6mm cannula
- 0.500 if using 9mm cannula
Then press .

Note: Select Stop Filling if you need to stop, for example, if you notice the Total amount is incorrect. This should rarely happen if you have verified the Fill amount on the previous screen.

Your infusion set change is now complete!
Comfort and Ease

MiniMed™ Quick-set™
90° insertion  >
Soft cannula  >

Note: Remember that you can fill the reservoir with the amount you need for the 2 to 3 days use without necessarily having to fill it all up to the 300 and 180 units total capacity.

While doing this calculation, always consider also the amount of insulin needed for the tubing and cannula priming. Here are some indications for you:

<table>
<thead>
<tr>
<th>CANNULA TYPE</th>
<th>FILL AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mm plastic</td>
<td>0.3 units</td>
</tr>
<tr>
<td>9 mm plastic</td>
<td>0.5 units</td>
</tr>
<tr>
<td>Steel (Sure-T)</td>
<td>0.0 units</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TUBING LENGTH</th>
<th>FILL AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>45 cm</td>
<td>9 units</td>
</tr>
<tr>
<td>60 cm</td>
<td>12 units</td>
</tr>
<tr>
<td>80 cm</td>
<td>16 units</td>
</tr>
<tr>
<td>110 cm</td>
<td>22 units</td>
</tr>
</tbody>
</table>
5.3

Changing the MiniMed™ Quick-set™ Infusion Set and MiniMed™ Reservoir with the MiniMed™ 640G Insulin Pump

Before you begin, please note that it is not recommended that you change your infusion set just prior to bedtime.

Changing your set during the day may reduce the risk of unexplained highs and no delivery alarms while sleeping. Please refer to the MiniMed™ Quick-set™ Infusion Set User Guide for more details.

To change your MiniMed™ Quick-set™ infusion set and Reservoir, you will need to organise the following supplies:

- Reservoir (with blue Transfer Guard)
- Insulin cartridge/vial (at room temp for 1 hour)
- MiniMed™ Quick-serter™ inserter (optional)
- MiniMed™ Quick-set™ infusion set
- Sharps bin
- Alcohol swabs/skin antiseptics

STEP BY STEP GUIDE
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

1. **START**
   - **REMOVING THE RESERVOIR**
     - Follow the next steps to remove the reservoir.

   1.1 Wash your hands
   1.2 Select Reservoir & Tubing
   1.3 Select New Reservoir.
   1.4 Remove the infusion set you have been using...

2. **FILL RESERVOIR & CONNECT TO THE INFUSION SET TUBING**
   - Follow the next steps to fill reservoir with insulin and connect to the infusion set tubing.

   2.1 Remove from package. Make sure insulin vial is at room temperature to reduce the risk of air bubbles. (If using insulin cartridge proceed to step 2.6.)
   2.2 Pull plunger down to the amount that you plan to fill with insulin.
   2.6 If using a cartridge of insulin.
     - Hold the reservoir upright. Push plunger into the reservoir to expel any air. Turn plunger slightly anti-clockwise to loosen it. Firmly press insulin cartridge onto blue transfer guard. Hold the reservoir and cartridge at eye level and using a pencil, push down on the rubber stopper of the cartridge to fill the reservoir.
   2.7 Tap the reservoir to move air bubbles to top of reservoir. Push plunger up to move air into vial.

If using insulin vial only.

Insulin cartridge
1.5 Remove the used reservoir from the pump.

1.6 Select Rewind.

2.3 Wipe vial with alcohol. Place vial on table. Firmly press the blue transfer guard onto vial.

2.4 Push and hold plunger down.

2.5 With your thumb still on the plunger, flip over so vial is on top. Release thumb and pull plunger down to fill with insulin.

2.8 If needed, pull plunger back down to amount of insulin needed for 2-3 days.

2.9 To avoid getting insulin on the top of the reservoir, turn vial over so it is upright. Hold transfer guard and turn reservoir counter-clockwise and remove from transfer guard.

If using insulin cartridge, skip to Step 2.6.

IMPORTANT: If insulin or any liquid gets inside the tubing connector, it can temporarily block the vents that allow the pump to properly fill the infusion set. This may result in the delivery of too little or too much insulin, which could cause hypoglycaemia or hyperglycaemia.

Continues on next page
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

3 CONNECT RESERVOIR TO INFUSION SET

You will place the reservoir connector onto the end of the infusion set to the filled reservoir.

3.1 Remove infusion set from package. Remove the paper that holds the tubing together.

4 PLACE RESERVOIR INTO PUMP

Select Next. Now place the filled reservoir into the reservoir compartment of the pump.

4.1 Place reservoir into pump.

4.2 Turn clockwise until you feel reservoir lock into place.

5 INSERT INFUSION SET

Next, follow the steps to insert the infusion set into your body.

5.4 After you see drops, press and select Next.

6.1 Place blue hub into quick-serter, placing the handle in the tubing slot.

6.2 Holding the serter with one hand, gently press infusion set to secure. Be careful not to push all the way into serter. Do not hold or press on the blue button.
Follow these steps to load the reservoir and fill the tubing.

**5.1** Select Load and keep holding.

**5.2** When you see this screen, select Next.

**5.3** Select Fill and keep holding until you see drops at the end of tubing, then let go.

**5.4** Twist plunger counter-clockwise to loosen and remove.

**3.3** If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

**3.4** Twist plunger counter-clockwise to loosen and remove.

**3.2** Gently push connector onto reservoir. Turn clockwise until locked. You will hear a click.

**3.3** If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

**3.4** Twist plunger counter-clockwise to loosen and remove.

**3.5** If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

**3.6** Turn to loosen needle guard and pull.

**6.3** Holding needle guard, pull off the paper that covers the adhesive.

**6.4** Pull blue button down until you hear it click.

**6.5** Choose an insertion site from the shaded areas shown here. Wipe with alcohol or other antiseptic.

**6.6** Turn to loosen needle guard and pull.

**THE BACKLIGHT MAY HAVE TURNED OFF**

Press any button to turn the screen back on.
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

Note: Your pump will remember the Fill amount that you used last. Always verify that the Fill amount is correct.

- If it is correct, press to Fill Now and press .
- If it is incorrect, press . Change to correct amount and . Press . Fill Now.

6.7 Hold serter against cleaned site.
6.8 Press the two white buttons at the same time.
6.9 Press the blue button to release the infusion set from the serter.
6.10 Pull serter away from body. Press adhesive against skin.

7.3 Select Fill Now.
7.4 The Home screen displays the insulin as it fills the cannula.
6.11 Hold infusion set. Pull blue handle straight out to remove needle.

6.12 Fold blue handle until locked. Dispose the needle in a sharps container.

Your infusion set change is now complete!

7.1 Select Fill.

7.2 Select Fill amount and enter:
- 0.300 if using 6mm cannula
- 0.500 if using 9mm cannula

Then press .

Note: Select Stop Filling if you need to stop, for example, if you notice the Total amount is incorrect. This should rarely happen if you have verified the Fill amount on the previous screen.
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

MiniMed™
Sure-T™
90° insertion >
Steel needle >

Note: Remember that you can fill the reservoir with the amount you need for the 2 to 3 days use without necessarily having to fill it all up to the 300 and 180 units total capacity. While doing this calculation, always consider also the amount of insulin needed for the tubing and cannula priming. Here are some indications for you:

<table>
<thead>
<tr>
<th>CANNULA TYPE</th>
<th>FILL AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel (Sure-T)</td>
<td>0.0 units</td>
</tr>
<tr>
<td>6 mm plastic (Quick-set and Mio)</td>
<td>0.3 units</td>
</tr>
<tr>
<td>9 mm plastic (Quick-set and Mio)</td>
<td>0.5 units</td>
</tr>
<tr>
<td>13 mm plastic (Silhouette)</td>
<td>0.7 units</td>
</tr>
<tr>
<td>17 mm plastic (Silhouette)</td>
<td>0.7 units</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TUBING LENGTH</th>
<th>FILL AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>45 cm</td>
<td>9 units</td>
</tr>
<tr>
<td>60 cm</td>
<td>12 units</td>
</tr>
<tr>
<td>80 cm</td>
<td>16 units</td>
</tr>
</tbody>
</table>
Before you begin, please note that it is not recommended that you change your infusion set just prior to bedtime.

Changing your set during the day may reduce the risk of unexplained highs and no delivery alarms while sleeping. Please refer to the MiniMed™ Sure-T™ Infusion Set User Guide for more details.

To change your MiniMed™ Sure-T™ infusion set and Reservoir, you will need to organise the following supplies:

<table>
<thead>
<tr>
<th>Reservoir (with blue Transfer Guard)</th>
<th>Insulin cartridge/vial (at room temp for 1 hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MiniMed™ Sure-T™ infusion set</td>
<td>Sharps bin</td>
</tr>
<tr>
<td>Alcohol swabs/skin antiseptics</td>
<td></td>
</tr>
</tbody>
</table>

**STEP BY STEP GUIDE**
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

1. **START REMOVING THE RESERVOIR**
   - Follow the next steps to remove the reservoir.
   - **1.1** Wash your hands. Press [ ].
   - **1.2** Select Reservoir & Tubing.
   - **1.3** Select New Reservoir.
   - **1.4** Remove the infusion set you have been using...

2. **FILL RESERVOIR & CONNECT TO THE INFUSION SET TUBING**
   - Follow the next steps to fill reservoir with insulin and connect to the infusion set tubing.
   - **2.1** Remove from package. Make sure insulin vial is at room temperature to reduce the risk of air bubbles. (If using insulin cartridge proceed to step 2.6.)
   - **2.2** Pull plunger down to the amount that you plan to fill with insulin.
   - **2.6** If using a cartridge of insulin.
     - Hold the reservoir upright. Push plunger into the reservoir to expel any air. Turn plunger slightly anti-clockwise to loosen it. Firmly press insulin cartridge onto blue transfer guard. Hold the reservoir and cartridge at eye level and using a pencil, push down on the rubber stopper of the cartridge to fill the reservoir.
   - **2.7** Tap the reservoir to move air bubbles to top of reservoir. Push plunger up to move air into vial.
If using insulin cartridge, skip to Step 2.6.

2.3 Wipe vial with alcohol. Place vial on table. Firmly press the blue transfer guard onto vial.

2.4 Push and hold plunger down.

2.5 With your thumb still on the plunger, flip over so vial is on top. Release thumb and pull plunger down to fill with insulin.

2.8 If needed, pull plunger back down to amount of insulin needed for 2-3 days.

2.9 To avoid getting insulin on the top of the reservoir, turn vial over so it is upright. Hold transfer guard and turn reservoir counter-clockwise and remove from transfer guard.

IMPORTANT: If insulin or any liquid gets inside the tubing connector, it can temporarily block the vents that allow the pump to properly fill the infusion set. This may result in the delivery of too little or too much insulin, which could cause hypoglycaemia or hyperglycaemia.

Continues on next page
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

3 CONNECT RESERVOIR TO INFUSION SET

You will place the reservoir connector onto the end of the infusion set to the filled reservoir.

3.1 Open infusion set packaging and connect the infusion set to the newly filled reservoir. Make sure both the top of the reservoir and the connector are dry before connecting them. Liquid can temporarily block the vents on the tubing connector.

3.2 Gently push connector onto reservoir. Turn clockwise until locked. You will hear a click.

3.3 If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

4 PLACE RESERVOIR INTO PUMP

Now place the filled reservoir into the reservoir compartment of the pump.

4.1 Place reservoir into pump.

4.2 Turn clockwise until you feel reservoir lock into place.

4.3 Select Next.

6 INSERT INFUSION SET

Next, follow the steps to insert the infusion set into your body.

6.1 Choose an insertion site from the shaded areas shown here. Wipe with alcohol or other antiseptic.

6.2 Select Insert infusion set into body.

6.3 Remove backing from the adhesive surrounding the needle.
Follow these steps to load the reservoir and fill the tubing.

**5 LOAD RESERVOIR AND FILL TUBING**

**5.1** Select Load and keep holding .

**5.2** When you see this screen, select Next.

**5.3** Select Fill and keep holding ( ) until you see drops at the end of tubing, then let go.

**5.4** After you see drops, press ( ) and select Next.

When using a Sure-T™ Infusion Set you are not required to fill the canula.

**7 FILL CANNULA**

**7.1** Select Done.

**6.4** Remove needle guard carefully by twisting it and not altering the 90 degree angle prior to insertion.

**6.5** Insert infusion set using a 90 degree angle. Smooth down adhesive to secure set in place.

**6.6** Remove backing from adhesive at the tubing connection site. Place in a convenient location near insertion site. Ensure tubing between the two sites is not tight.

**Your infusion set change is now complete!**
**Note:** Remember that you can fill the reservoir with the amount you need for the 2 to 3 days use without necessarily having to fill it all up to the 300 and 180 units total capacity.

While doing this calculation, always consider also the amount of insulin needed for the tubing and cannula priming. Here are some indications for you:

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</tr>
<tr>
<td>110 cm</td>
<td>22 units</td>
</tr>
</tbody>
</table>
Before you begin, please note that it is not recommended that you change your infusion set just prior to bedtime.

Changing your set during the day may reduce the risk of unexplained highs and no delivery alarms while sleeping. Please refer to the MiniMed™ Silhouette™ Infusion Set User Guide for more details.

To change your MiniMed™ Silhouette™ infusion set (Sil-set) and Reservoir, you will need to organise the following supplies:

- Reservoir (with blue Transfer Guard)
- Insulin cartridge/vial (at room temp for 1 hour)
- MiniMed™ Sil-serter™ inserter (optional)
- MiniMed™ Silhouette™ infusion set
- Sharps bin
- Alcohol swabs/skin antiseptics

**STEP BY STEP GUIDE**
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

START

REMOVING THE RESERVOIR

Follow the next steps to remove the reservoir.

1.1 Wash your hands

1.2 Select Reservoir & Tubing

1.3 Select New Reservoir.

1.4 Remove the infusion set you have been using...

FILL RESERVOIR & CONNECT TO THE INFUSION SET TUBING

Follow the next steps to fill reservoir with insulin and connect to the infusion set tubing.

2.1 Remove from package. Make sure insulin vial is at room temperature to reduce the risk of air bubbles. (If using insulin cartridge proceed to step 2.6.)

2.2 Pull plunger down to the amount that you plan to fill with insulin.

If using insulin vial only.

2.6 If using a cartridge of insulin. Hold the reservoir upright. Push plunger into the reservoir to expel any air. Turn plunger slightly anti-clockwise to loosen it. Firmly press insulin cartridge onto blue transfer guard. Hold the reservoir and cartridge at eye level and using a pencil, push down on the rubber stopper of the cartridge to fill the reservoir.

2.7 Tap the reservoir to move air bubbles to top of reservoir. Push plunger up to move air into vial.
...by loosening the adhesive and pulling away from body.

1.5 Remove the used reservoir from the pump.

1.6 Select Rewind.

If using insulin cartridge, skip to Step 2.6.

2.3 Wipe vial with alcohol. Place vial on table. Firmly press the blue transfer guard onto vial.

2.4 Push and hold plunger down.

2.5 With your thumb still on the plunger, flip over so vial is on top. Release thumb and pull plunger down to fill with insulin.

2.8 If needed, pull plunger back down to amount of insulin needed for 2-3 days.

2.9 To avoid getting insulin on the top of the reservoir, turn vial over so it is upright. Hold transfer guard and turn reservoir counter-clockwise and remove from transfer guard.

IMPORTANT: If insulin or any liquid gets inside the tubing connector, it can temporarily block the vents that allow the pump to properly fill the infusion set. This may result in the delivery of too little or too much insulin, which could cause hypoglycaemia or hyperglycaemia.
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

3 CONNECT RESERVOIR TO INFUSION SET

You will place the reservoir connector onto the end of the infusion set to the filled reservoir.

3.1 Open infusion set packaging and connect the infusion set to the newly filled reservoir. Make sure both the top of the reservoir and the connector are dry before connecting them. Liquid can temporarily block the vents on the tubing connector.

3.2 Gently push connector onto reservoir. Turn clockwise until locked. You will hear a click.

3.3 If you see air bubbles, tap reservoir to move them to top. Push plunger just a bit to move them into tubing.

4 PLACE RESERVOIR INTO PUMP

Now place the filled reservoir into the reservoir compartment of the pump.

4.1 Place reservoir into pump.

4.2 Turn clockwise until you feel reservoir lock into place.

4.3 Select Next.

5 INSERT INFUSION SET with a Sil-serter™ inserter

Next, follow the steps to insert the infusion set into your body.

6.1 Choose an insertion site from the shaded areas shown here. Wipe with alcohol or other antiseptic.

6.2 Select Insert infusion set into body.

6.3 Check that Sil-serter™ inserter is not pre-loaded. Ensure white release button is locked. Open mouth of inserter by depressing the white lever (release button) with your thumb.
5.1 Select **Load** and keep holding ⌘.  
5.2 When you see this screen, select **Next**.  
5.3 Select **Fill** and keep holding ⌘ until you see drops at the end of tubing, then let go.  
5.4 After you see drops, press ⌘ and select **Next**.

**Continues on next page**
SECTION 5: Changing your MiniMed™ Infusion Set and Reservoir with the MiniMed™ 640G Insulin Pump

6.7 Push white release button down to insert the Sil-set cannula.

6.8 Holding down the sides of the cannula adhesive with one hand, release the cannula from the inserter by depressing the white lever. Slide inserter across skin, away from set. Remove front tape and smooth down adhesive.

6.9 Hold cannula down with one hand. Gently press side clips of the introducer needle in whilst pulling it out. Dispose of needle in sharps bin. Check needle for any blood. (Change set if required)

6.10 Peel the back tab of tape and smooth down. Smooth down the adhesive.

6.11 Connect tubing to the cannula.

7.5 Peel off other adhesive backing. Smooth down the adhesive.

7.6 Connect tubing to the cannula.

8.1 Select Fill.

You will now fill the cannula, the little tube under your skin, with insulin.

8.2 Select Fill amount and enter:
- 0.70 if using 13 mm cannula
- 0.70 if using 17 mm cannula

Then press .

Note: Select Stop Filling if you need to stop, for example, if you notice the Total amount is incorrect. This should rarely happen if you have verified the Fill amount on the previous screen.

Your infusion set change is now complete!
Note: Your pump will remember the Fill amount that you used last. Always verify that the Fill amount is correct.

- If it is correct, press \( \checkmark \) to Fill Now and press \( \circ \).
- If it is incorrect, press \( \times \). Change to correct amount and press \( \circ \) Fill Now.

7.1 Next, follow the steps to insert the infusion set into your body.

7.2 Remove front tape from the infusion set.

7.2 Remove the blue needle guard from the cannula.

7.3 Insert cannula using a 20-45 degree angle. Smooth down adhesive to secure set in place.

7.4 Hold cannula down with one finger on the front adhesive. Use thumb and index finger to gently press side clips of the introducer needle inwards whilst pulling it out. Dispose introducer needle in sharps bin. Check needle for any blood. (Change set if required)

8.3 Select Fill Now.

8.4 The Home screen displays the insulin as it fills the cannula.
6.1 Tips for Securing Your Site

- Keep the site clean-shaven.
- Try removing dead surface skin cells with a facial scrub brush, loofah or a washcloth with soap and water.
- Use a prep or additional adhesive underneath or around your site for extra protection by following the tape method steps and specific product directions.
- Stretch skin tight before using a prep wipe or tape.
- After you apply the tape, go back around the edge of the tape with your finger to seal the edges to your skin.
- Avoid using lotions where you intend to apply tape, as the tape may not stick well on top of lotion.
Single Tape Method – For Infusion Sets

1. Clean the skin and allow the skin to dry.
2. Insert the infusion set.
3. Apply a clear adhesive dressing directly over the infusion set.

Open Face Sandwich Method – For Infusion Sets

1. Clean the skin and allow the skin to dry.
2. Apply a clear adhesive dressing directly to the skin.
3. Insert the infusion set through the clear adhesive dressing. The adhesive on the infusion set will be sticking to the clear adhesive dressing instead of sticking directly to your skin.
4. Apply a second clear adhesive dressing on top of the infusion set.

Sandwich Method – For Infusion Sets

1. Clean the skin and allow the skin to dry.
2. Apply a clear adhesive dressing directly to the skin.
3. Insert the infusion set through the clear adhesive. In this way the adhesive on the infusion set will be sticking to the clear adhesive dressing instead of sticking directly to your skin.
4. Apply a second clear adhesive dressing on top of the infusion set.

Note: If you’re using the Single Tape or Sandwich methods, with some adhesive dressings you may not be able to disconnect your infusion set without first removing the tape. There are also cut-out tape options for infusion sets available.

IMPORTANT: The open face sandwich and sandwich method should be used with infusion sets only. Do NOT use the sandwich methods with sensors because the sensor electrode is sensitive and could become damaged if inserted through anything other than dry skin prepped with alcohol.
6.2 Tips for Special Circumstances

6.2.1 Pain on Insertion
- You may put ice on the site to numb it slightly before inserting the needle.
- You may use a numbing cream (topical anaesthetic). Some are available by prescription only and these require specific directions for use such as the amount of time for the numbing to take effect. Be sure to follow the directions provided. You will need to wipe all of the cream off and clean the area allowing it to dry before insertion. Check with your healthcare professional regarding which one may be best for you.
- If you experience pain for a period of time after the infusion set has been in place, this may indicate that you are in or near muscle tissue, and the set should be changed.

6.2.2 Site Change Awareness and Absorption Change
- Switching to alternative sites may result in some changes in BG control due to changes in the speed of insulin absorption in various sites.
- If you use a new location for your infusion set you may need to test your BG more frequently.

6.2.3 Skin Sensitivities, Allergies, and Skin Reactions
- Allergies and skin reactions such as itching, rashes or bumps may occur. If you notice any, determine the cause and use a different product. If it occurs from a tape or adhesive, consider using a different type. If it occurs from a prep or wipe, consider using a different type or use antibacterial soap.

Notify your healthcare professional if you need assistance.

6.2.4 Pregnancy
- When the abdomen becomes too firm to pinch for an infusion set insertion, you may use the upper outer thigh, upper arm or hip instead.
- Switching to these alternative sites may result in some changes in BG control due to changes in the speed of insulin absorption so you may need to check your BG more frequently.
- Infusion sets may need to be changed every 24-48 hours during pregnancy.

Be sure to follow the advice of your healthcare professional.
6.3 Basic Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Insertion</strong></td>
<td></td>
</tr>
<tr>
<td>Difficulties with self-insertion</td>
<td>Try using an infusion set that has an available insertion device</td>
</tr>
<tr>
<td><strong>Infusion Site</strong></td>
<td></td>
</tr>
<tr>
<td>Blood in the cannula</td>
<td>Change infusion set and site</td>
</tr>
<tr>
<td>Wet or leaky dressing</td>
<td>Change infusion set and use one of the methods in the section 6.1</td>
</tr>
<tr>
<td>Rash, redness, itching, burning</td>
<td>Change infusion set and tighten connections</td>
</tr>
<tr>
<td>Infusion set does not adhere</td>
<td>Change infusion set and use one of the methods in the section 6.1</td>
</tr>
<tr>
<td><strong>Tubing</strong></td>
<td></td>
</tr>
<tr>
<td>Air or blood in tubing</td>
<td>Disconnect tubing and prime out the air or change for a new infusion set</td>
</tr>
<tr>
<td>Loose connection</td>
<td>Reconnect to set, ensuring that connections are tight</td>
</tr>
<tr>
<td>Leakage or smell of insulin</td>
<td>Change infusion set and tighten connections</td>
</tr>
</tbody>
</table>

6.4 When To Call

**Your Healthcare Professional**
Contact your Healthcare Professional for medical advice, including:
- For any blood glucose (BG) or insulin adjustment questions and diabetes management
- To report severe hypoglycaemic and hyperglycaemic episodes
- To receive guidelines for exercise or temporary basal rates
- To plan for sick days and hyperglycaemia
- When there is illness, ketones, or vomiting

**Medtronic Diabetes 24-hour Help Line**
Before you call the HelpLine, you might also review our online resources or workbooks:
- For technical assistance with your insulin pump, blood glucose meters, or infusion sets and reservoirs
- For technical assistance with your sensors or transmitter
- To report issues or concerns with your Medtronic products
In addition, consider uploading your device data into CareLink® Personal so that we may review it with you.
## Infusion Sets & Reservoirs

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Length</th>
<th>Medtronic Code (by connection type)</th>
<th>Cannula/Needle (mm)</th>
<th>Tubing (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MiniMed™ Quick-set™ infusion set</strong> (10 per box)</td>
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<td></td>
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<tr>
<td>MiniMed™ Quick-set™ infusion set</td>
<td></td>
<td>MiniMed™ connector</td>
<td></td>
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<tr>
<td>MiniMed™ Quick-set™ infusion set</td>
<td></td>
<td>Luer-lock connector</td>
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<tr>
<td>(10 per box)</td>
<td></td>
<td>(for Paradigm 511, 512/712, 515/715, 522/722, Veo, &amp; MM640G pumps)</td>
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<td>Note, products not described in this guide</td>
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<tr>
<td>MiniMed™ Quick-set™ infusion set</td>
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<tr>
<td>MiniMed™ Silhouette™ infusion set</td>
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<td>MiniMed™ Silhouette™ infusion set</td>
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<td>(10 per box)</td>
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<tr>
<td>MiniMed™ Sure-T™ infusion set</td>
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<tr>
<td>MiniMed™ Mio™ infusion set</td>
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<td>MiniMed™ Mio™ 30 infusion set</td>
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<td>MiniMed™ Insulin Reservoir</td>
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<td>MiniMed™ Insulin Reservoir</td>
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<tr>
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<tr>
<td>MiniMed™ Quick-serter™ insertion device</td>
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<tr>
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<tr>
<td>MiniMed™ Sil-serter™ insertion device</td>
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</table>
Introducing the MiniMed™ 640G System
with exclusive SmartGuard™ technology

Benefit from the unique MiniMed™ connection for insulin delivery, with an infusion set for every lifestyle.

With our most responsive sensor system yet, you can continuously monitor your glucose levels with superior comfort* and accuracy**, and receive an alert when you are at risk of going too high or too low.

With the accurate*** Contour® NEXT LINK 2.4 by Bayer, you can wirelessly send blood glucose results to your MiniMed 640G and deliver an insulin bolus discreetly.

Upload your pump to CareLink® to conveniently track your glucose control and remotely share this information with your healthcare professional.

Safety Information: MiniMed™ 640G Insulin Pump is indicated for the continuous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in persons requiring insulin. In addition, the Enlite™ glucose sensor is indicated for continuous or periodic monitoring of glucose levels in the fluid under the skin, and possible low and high blood glucose episodes. The pump displays continuous glucose values and stores this data so that it can be analysed to track patterns and improve diabetes management. Pump history can be downloaded to a computer for analysis of historical glucose values. The continuous glucose values provided by the MiniMed™ 640G insulin pump are not intended to be used directly for making therapy adjustments. Rather, they provide an indication that a confirmation fingerstick measurement may be required. All therapy adjustments should be based on measurements obtained using a home glucose monitor and not based on the value displayed by the pump.

Safety Information: Medtronic CareLink® Software is intended for use as a tool to help manage diabetes. The purpose of the software is to take information transmitted from insulin pumps, glucose meters and continuous glucose monitoring systems, and turn it into Medtronic CareLink® reports that can be used to identify trends and track daily activities—such as carbohydrates consumed, meal times, insulin delivery, and glucose readings. Medtronic CareLink® report data is intended for use as an adjunct in the management of diabetes only and NOT intended to be relied upon by itself. Patients should consult their healthcare professionals familiar with the management of diabetes prior to making changes in treatment.

Medtronic, MiniMed, Mio, Sure-T, Quick-set, Silhouette, CareLink, Quick-serter and Sil-serter are trademarks of Medtronic MiniMed, Inc.

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The legal manufacturers of MiniMed™ Mio™, MiniMed™ Mio™ 30, MiniMed™ Quick-set™, MiniMed™ Sure-T™ and MiniMed™ Silhouette™ is:

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