

CP 4.7: Diabetic Follow-Up

Updated:
Reviewed:

Purpose

To ensure the proper maintenance of blood sugar and insulin levels in the diabetic patient to be accomplished through patient's ability to self-manage their blood glucose monitoring, appropriate prescription drug usage, recognition of desired drug effects, recognition of hypo/hyperglycemia and treatment of same.

Policy Statements

In response to a referral from a health authority or primary health care provider, the Community Paramedic (CP) will follow guidelines outlined on the Request for Service form and care plan for follow-up on diabetic patients. It is expected that the CP will document findings and report them to the primary health care provider and collaborate with other health care team members to provide support as appropriate.

Procedure

1. **OBTAIN** and **REVIEW** patient's health history and care plan prior to appointment.
2. **REFER** to Request for Service form and care plan for direction with respect to assessment, patient specific care parameters and patient teaching required.
3. **REVIEW** history and physical including health care providers plan for diet, blood glucose targets and medications.
4. **OBSERVE** patient's physical state/general well-being.
5. **INSPECT** patient's feet and **DISCUSS** foot care with patient and review information as required. Proper footcare is critical for diabetic patients because they are prone to foot problems caused by neuropathy and poor circulation which can lead to loss of feeling in their feet, changes in the shape of their feet and foot ulcers or sores that do not heal. According to the National Institute of Health, simple daily footcare can prevent serious problems. **REVIEW** the following information about footcare with the patient as necessary:
 - **Check Your Feet Every Day**
 - Check your feet for cuts, sores, red spots, swelling, and infected toenails. You may have foot problems, but feel no pain in your feet.
 - Check your feet each evening when you take off your shoes.
 - If you have trouble bending over to see your feet, use a mirror to help. You can also ask a family member or caregiver to help you.
 - Call your doctor right away if a cut, blister, or bruise on your foot does not begin to heal after a few days.
 - **Wash Your Feet Every Day**
 - Wash your feet in warm, not hot, water. Do not soak your feet because your skin will get dry.
INSPECT patient's feet and **DISCUSS** foot care with patient and review information as required. Proper footcare is critical for diabetic patients because they are prone to foot problems caused by neuropathy and poor circulation which can lead to loss of feeling in their feet, changes in the shape of their feet and foot ulcers or sores that do not heal. According to the National Institute of Health, simple daily footcare can prevent serious problems. **REVIEW** the following information about footcare with the patient as necessary:
 - Before bathing or showering, test the water to make sure it is not too hot. You can use a thermometer (32° to 35° C is safe) or your elbow to test the water.
 - Use cornstarch to keep the skin between your toes dry to prevent infection.
 - **Keep the Skin Soft and Smooth**
 - Rub a thin coat of skin lotion or cream on the tops and bottoms of the feet
 - Do not put lotion between your toes, because this might cause infection
 - **Smooth corns and calluses**
 - Thick patches of skin called corns or calluses can grow on the feet. If you have corns or calluses, check with your foot doctor about the best way to care for them.
 - If your doctor tells you to, use a pumice stone to smooth corns and calluses after bathing or showering. Pumice

stone is a type of rock used to smooth the skin. Rub gently, only in one direction, to avoid tearing the skin.

- Do not cut corns and calluses.
- Do not use razor blades, corn plasters, or liquid corn and callus removers - they can damage your skin and cause an infection.
- **If you can see, reach, and feel your feet, trim your toenails regularly**
 - Trim your toenails with nail clippers after you wash and dry your feet.
 - Trim your toenails straight across and smooth the corners with an emery board or nail file. This prevents the nails from growing into the skin. Do not cut into the corners of the toenail.
 - Have a foot doctor trim your toenails if:
 - you cannot see or feel your feet
 - you cannot reach your feet
 - your toenails are thick or yellowed
 - your nails curve and grow into the skin
- **Wear Shoes and Socks At All Times**
 - Wear shoes and socks at all times. Do not walk barefoot when indoors or outside. It is easy to step on something and hurt your feet. You may not feel any pain and not know that you hurt yourself.
 - Make sure you wear socks, stockings, or nylons with your shoes to keep from getting blisters and sores.
 - Choose clean, lightly padded socks that fit well. Socks that have no seams are best.
 - Check inside your shoes before you put them on. Make sure the lining is smooth and that there are no objects in your shoes.
 - Wear shoes that fit well and protect your feet
- **Protect Your Feet From Hot and Cold**
 - Wear shoes at the beach and on hot pavement. You may burn your feet and may not know it.
 - Put sunscreen on the top of your feet to prevent sunburn
 - Keep your feet away from heaters and open fires
 - Do not put hot water bottles or heating pads on your feet
 - Wear socks at night if your feet get cold. Choose socks carefully. DO NOT wear socks with seams or bumpy areas. Choose padded socks to protect your feet and make walking more comfortable.
 - Wear lined boots in the winter to keep your feet warm. In cold weather, check your feet often to keep your feet warm avoid frostbite.
- **Keep the Blood Flowing to Your Feet**
 - Put your feet up when you are sitting.
 - Wiggle your toes for 5 minutes, 2 or 3 times a day. Move your ankles up and down and in and out to help blood flow in your feet and legs.
 - Do not cross your legs for long periods of time.
 - Do not wear tight socks, elastic, or rubber bands around your legs. Do not wear restrictive footwear or foot products. Foot products that can cut off circulation to the feet, such as products with elastic, should not be worn by diabetics.
 - Do not smoke. Smoking can lower the amount of blood flow to your feet.
- **Be More Active**
 - Being active improves blood flow to the feet. Ask your health care team for safe ways to be more active each day. Move more by walking, dancing, swimming, or going bike riding.
 - If you are not very active, start slowly
 - Find safe places to be active
 - Wear athletic shoes that give support and are made for your activity.

6. **MEASURE** and **RECORD** blood pressure and weight.

7. **ASSESS** patient's understanding of disease and impact of diet and exercise. **ENSURE** patient is using medications as prescribed and inform the primary care provider if they're not. If patient is on insulin, ensure correct use of devices and storage of vials (i.e. ensure patient can visualize the proper amount of insulin they are to inject, correct injection sites, injection technique and site rotation, changing needles with each injection, not keeping opened/active insulin in the fridge, ensuring insulin is not exposed to temperature

- extremes). **REVIEW** information with patient as required. **INSPECT** injection sites for redness or irritation.
8. **ENQUIRE** about hypoglycemia episodes at each visit. **DISCUSS** recognition and treatment of hypoglycemia as needed.
 9. **INSPECT** glucose meter to ensure it turns on when a strip is inserted and does not provide error messages. If not working, **REFER** to pharmacy for new meter.
 10. **OBSERVE** patient as he/she performs blood glucose reading on personal home glucose meter. **ASK** patient to read out loud the glucometer reading. **REVIEW** usage with client if required. **ENCOURAGE** patient to use a new lancet with each poke.

NOTE: patients should follow SPECIFIC directions from their health care provider regarding frequency of blood glucose monitoring. In the absence of those directions and if not using insulin, testing is only recommended when suspecting hypoglycemia, or if feeling sick.

11. If blood glucose (BG) is less than 4 mmol/L or if patient experiencing signs & symptoms of hypoglycemia:
 1. **ASSESS** vital signs and level of consciousness
 2. If airway, breathing or vital signs are compromised, immediately initiate emergency response
 3. **ASSIST** patient with treatment including 15-20 grams of carbohydrate – some suggestions include:
 - 15 g of glucose in the form of glucose tablets/gel (preferred choice) **OR**
 - 15 mL (3 teaspoons) sugar dissolved in water **OR**
 - 175 mL (3/4 cup) of juice or regular soft drink **OR**
 - 6 LifeSavers® (1=2.5 g of carbohydrate) **OR**
 - 15 mL (1 tablespoon) of honey
 4. **REPEAT** blood glucose in 10-15 If BG remains less than 4 mmol/L, repeat step III
 5. If their next meal is more than one hour away, they should eat a snack, such as a half- sandwich or cheese and crackers (something with 15 grams of carbohydrate and a protein source)
 6. **CONTACT** health care provider for further direction
12. **RECORD** patients concerns about treatment (e.g. Insulin levels, blood sugar levels, foot problems)
13. **COMMUNICATE** with health care provider or health care team if blood glucose falls outside acceptable parameters as noted on care plan or if any self-care difficulties are noted or suspected such as vision problems or inability to perform own footcare due to mobility, co-ordination, diminished sensation or other difficulties.

Patient Education Resources

[Canadian Diabetes Association – Diabetes and You](#)

[Canadian Diabetes Association – Health Living Resources](#)

[Diabetes – Take Care of Your Feet for a Lifetime](#)

Documentation

DOCUMENT details of the visit on the CP progress notes and notify primary health care provider or health care team of findings and any concerns.

References

1. Canadian Diabetes Self-Management Education - Help your patient take charge. [\[Link\]](#)
2. Eagle County Paramedic Services. Community Paramedic Protocols Manual. 2013. [\[Link\]](#)
3. National Institute of Diabetes and Digestive and Kidney Diseases. Diabetes - Take Care of Your Feet for a Lifetime. 2014. [\[Link\]](#)
4. Tri-County Health Care Emergency Medical Services. Community Paramedic Policy & Procedure Manual. 2016. [\[Link\]](#)
5. Vancouver Coastal Health. Hypoglycemia in Diabetes: Adult Management Protocol – Acute and Residential. 2013.

