

LOS ANGELES UNIFIED SCHOOL DISTRICT
Medical Services Division
District Nursing Services Branch

Guidelines for Licensed Nursing Provider

i-PORT (INSULIN) ADVANCE INJECTION PORT

I. GENERAL GUIDELINES

A. PURPOSE

The i-Port Advance injection port allows Multiple Daily Injections (MDI) patients to administer insulin without skin punctures for each shot.

B. GENERAL INFORMATION

1. The port can be worn for up to 72 hours, even while exercising, sleeping, and showering. Parents let the school nurse know the date and time the i-port was inserted.
2. The injection port is for individuals who are on injection therapy that scar quickly or have belonephobia (fear of needles).
3. After insertion, a soft, flexible tube called a cannula is left under the skin to deliver insulin medication directly from a syringe or pen into the subcutaneous tissue.
4. These ports are typically worn on the abdomen but can also be placed on other areas, such as the buttocks, thigh, or arm.
5. You can inject both long-acting and rapid-acting insulin through the same port if you wait 60 minutes between injections. Always inject rapid-acting insulin first, then wait one hour, and then inject your long-acting insulin.
6. The insulin is injected into the injection port through a syringe or pen. Using i-Port has improved insulin compliance and self-care, reducing diabetes-related hospitalizations and hypoglycemic events.



C. PRECAUTIONS

Signs if the i-port has a crimped or bent cannula: **DO NOT USE iPORT if ANY OF THE FOLLOWING CONDITION EXIST:**

1. Difficulty pressing down on the plunger of the syringe when injecting.
2. Injected medication escaping from the device onto the top of the septum.
3. Injected medication leaking onto the skin or saturating the tape.
4. Moisture is present inside the transparent body of the device.

D. FIRST AID

If i-Port falls off:

1. Observe the insertion site for any signs of bleeding, redness, swelling, or discharge.
2. Follow the specific instructions provided by the student's healthcare provider and the i-Port Advance manufacturer. **This may include:**
 - Applying a clean dressing to the insertion site.
 - Administering insulin as directed on the Diabetes Medical Management Plan (DMMP).
 - Monitoring the student for any signs of infection or other complications.
 - Contact the student's parents/guardian immediately.
 - Store i-Port in a clean, covered container or plastic bag and send it home.





E. PERSONNEL

1. Licensed Nursing Provider or School Physician.

F. EQUIPMENT

1. Provided by Parent
 - a. Antiseptic wipes (e.g. Alcohol wipes)
 - b. insulin pen or insulin vial and syringe with needles gauge 32-38, 5-8 mm in length
2. Provided by School:
 - a. Disposable non-latex gloves
 - b. Sharps container

II. PROCEDURE FOR i-PORT ADVANCE INJECTION PORT

ESSENTIAL STEPS	KEY POINTS AND PRECAUTIONS
1. Check the record or verify parent/guardian for insertion date.	
2. Wash hands.	
3. Check medication authorization for the correct dose and check the medication expiration date.	
4. Check for site integrity, such as irritation, inflammation, redness, or dislodgement.	Do not use i-Port. Call the parent for possible replacement and revert to injections into the skin.
5. Clean the septum with purified water or alcohol wipe before each use.	
6. Puncture the septum using an injection needle (Attached to a Syringe with insulin or insulin pen).	Needles need to be 5-8 mm (3/16-5/16 inch) in length and 32-38 gauge 
7. Slowly inject medication.	
8. Remove the injection needle	
9. Dispose needle in a sharp container	
10. For Nursing: Document electronically and on the Diabetes Protocol Log . For trained staff: Document on the Diabetes Protocol Log . Document: dose, time, site, glucose values, and adverse reactions. Mark "supervised" on the Diabetes Protocol Log.	*

REFERENCES:

Amal M. Khan and Khaled A. Alswat , 2019 Feb: Benefits of Using the i-Port System on Insulin-Treated Patients from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6380230/>

American Diabetes Association. (n.d.). Legal Rights. Retrieved June 9, 2021 from <http://www.diabetes.org/living-with-diabetes/parents-and-kids/diabetes-care-at-school/legal-protections/>

Medtronic i-Port Advance injection port from <https://www.medtronicdiabetes.com/products/i-port-advance>

Medtronic i-Port Advance Training Guide from <https://www.aerasmedical.com/pub/media/wysiwyg/i-Port-QuickGuide.pdf>