Medical Policy
Insulin Delivery Devices

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Policy Number: 332
BCBSA Reference Number: N/A
NCD/LCD: National Coverage Determination (NCD) for Infusion Pumps (280.14)

Related Policies
Continuous or Intermittent Monitoring of Glucose in Interstitial Fluid, #107

Policy
Commercial Members: Managed Care (HMO and POS), PPO, and Indemnity

We cover insulin pumps and insulin pump supplies, in accordance with the Massachusetts State Mandate, General Laws Part I Title XXII Chapter 175 Section 47N: Items medically necessary for Diagnosis and Treatment of Diabetes. In accordance with the Massachusetts State Mandate, we cover the proper use of insulin delivery devices. Insulin delivery devices are covered to the extent that devices are generally covered by each member’s benefit design.

External insulin pumps (with or without wireless communication capability) are considered MEDICALLY NECESSARY for individuals with diabetes, when prescribed by a diabetologist familiar with insulin pump management, in any of the following groups:

1. Individuals with documented diabetes mellitus meeting all the following criteria (a-e):
   a. Completed a comprehensive diabetes education program within the past two years; AND
   b. Follows a program of multiple daily injections of insulin; AND
   c. Has frequent self-adjustments of insulin doses for the past 6 months; AND
   d. Has documented frequency of glucose self-testing an average of at least 4 times per day during the past month; and
   e. Has documentation of any of the following while on a multiple daily injection regimen:
      - Glycosylated hemoglobin level (HbA1c) greater than 7.0 percent; OR
      - “Brittle” diabetes mellitus with recurrent episodes of diabetic ketoacidosis, hypoglycemia or both, resulting in recurrent and/or prolonged hospitalization; OR
      - History of recurring hypoglycemia or severe glycemic excursions; OR
      - Wide fluctuations in blood glucose before mealtime; OR
      - “Dawn phenomenon” with fasting blood sugars frequently exceeding 200 mg/dl.
2. Individuals with diabetes mellitus successfully using a continuous insulin infusion pump prior to enrollment, and have documented frequency of glucose self-testing on average of at least 4 times per day during the month prior to enrollment

Use of a disposable external insulin pump with wireless communication capability to a hand-held control unit (e.g., OmniPod®) is an acceptable alternative to a standard insulin infusion pump and considered **MEDICALLY NECESSARY** when the criteria above have been met.

Refills for medically necessary disposable external insulin pumps are considered **MEDICALLY NECESSARY**.

**Replacement pumps:**
The medical necessity of replacement external insulin pumps for pediatric individuals who require a larger insulin reservoir will be considered on a case-by-case basis. The following information is required when submitting requests:
1. Current insulin pump reservoir volume; and
2. Current insulin needs; and
3. Current insulin change out frequency required to meet individual needs.

The replacement of external insulin pumps that are out of warranty, are malfunctioning, and cannot be refurbished is considered **MEDICALLY NECESSARY**.

**Note:** The purchase of one insulin pump is allowed every 4 years.

The use of external insulin pumps for any indication other than those listed above is considered **NOT MEDICALLY NECESSARY**.

Replacement of currently functional and warranted insulin pumps for the sole purpose of receiving the most recent insulin pump technology (commonly referred to as an “upgrade”) is considered **NOT MEDICALLY NECESSARY** as such upgrades have not been shown to make a clinically significant difference.

Equipment upgrades or accessories whose sole purpose is to integrate (with wireless communication technology) an insulin pump and interstitial glucose monitor are considered **NOT MEDICALLY NECESSARY**.

**Note:** Intensive diabetic management in any form, including the use of external insulin infusion pumps, is **CONTRAINDICATED** for individuals (or for children, their caregivers) who for any reason are unwilling or unable to participate actively in intensive glucose management and to acquire the cognitive and technical skills required by their regimen.

Insulin injection pens are considered **MEDICALLY NECESSARY** as determined by a licensed health care professional, in accordance with the Massachusetts Mandate, Chapter 175.

Jet pressure Infusion devices are considered **NOT MEDICALLY NECESSARY**.

Surgically implanted insulin infusion systems are considered **INVESTIGATIONAL**.

Chronic intermittent intravenous insulin therapy (CIIT) and pulsatile IV insulin therapy (PIVIT) are considered **INVESTIGATIONAL**.

**Medicare HMO BlueSM and Medicare PPO BlueSM Members**

Medical necessity criteria and coding guidance can be found through the link below.

[National Coverage Determination (NCD) for Infusion Pumps (280.14)](https://www.cms.gov)
Prior Authorization Information

Inpatient
- For services described in this policy, precertification/preauthorization is required for all products if the procedure is performed inpatient.

Outpatient
- For services described in this policy, see below for products where prior authorization might be required if the procedure is performed outpatient.

<table>
<thead>
<tr>
<th>Outpatient</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Commercial Managed Care (HMO and POS)</td>
<td>Prior authorization is not required.</td>
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<tr>
<td>Commercial PPO and Indemnity</td>
<td>Prior authorization is not required.</td>
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<tr>
<td>Medicare HMO BlueSM</td>
<td>Prior authorization is not required.</td>
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<tr>
<td>Medicare PPO BlueSM</td>
<td>Prior authorization is not required.</td>
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</table>

CPT Codes / HCPCS Codes / ICD Codes

Inclusion or exclusion of a code does not constitute or imply member coverage or provider reimbursement. Please refer to the member’s contract benefits in effect at the time of service to determine coverage or non-coverage as it applies to an individual member.

Providers should report all services using the most up-to-date industry-standard procedure, revenue, and diagnosis codes, including modifiers where applicable.

The following codes are included below for informational purposes only; this is not an all-inclusive list.

The above medical necessity criteria MUST be met for the following codes to be covered for Commercial Members: Managed Care (HMO and POS) PPO and Indemnity:

HCPCS Codes

<table>
<thead>
<tr>
<th>HCPCS codes:</th>
<th>Code Description</th>
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<tbody>
<tr>
<td>A4210</td>
<td>Needle-free injection device, each</td>
</tr>
<tr>
<td>A4226</td>
<td>Supplies for maintenance of insulin infusion pump with dosage rate adjustment using therapeutic continuous glucose sensing, per week</td>
</tr>
<tr>
<td>A4230</td>
<td>Infusion set for external insulin pump, non-needle, cannula type</td>
</tr>
<tr>
<td>A4231</td>
<td>Infusion set for external insulin pump, needle type</td>
</tr>
<tr>
<td>A4232</td>
<td>Syringe with needle for external insulin pump, sterile, 3cc</td>
</tr>
<tr>
<td>A9274</td>
<td>(Omnipod), External ambulatory insulin delivery system, disposable, each, includes all supplies and accessories. (There is a limit of insulin pump reservoirs of 15 units per 30 days. Effective 2/1/2012)</td>
</tr>
<tr>
<td>E0784</td>
<td>External ambulatory infusion pump, insulin</td>
</tr>
<tr>
<td>S9145</td>
<td>Insulin pump initiation, instruction in initial use of pump (pump not included)</td>
</tr>
<tr>
<td>S5560</td>
<td>Insulin delivery device, reusable pen; 1.5 ml size</td>
</tr>
<tr>
<td>S5561</td>
<td>Insulin delivery device, reusable pen; 3 ml size</td>
</tr>
<tr>
<td>S5570</td>
<td>Insulin delivery, disposable pen (including insulin): 1.5 ml size</td>
</tr>
<tr>
<td>S5571</td>
<td>Insulin delivery device, disposable pen (including insulin); 3 ml size</td>
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</tbody>
</table>

Note: Insulin pumps and supplies are processed as described through each member’s subscriber certificate.

Description

An external insulin infusion pump is a programmable, battery-powered mechanical syringe/reservoir device controlled by a micro-computer to provide continuous subcutaneous insulin infusion (CSII) in individuals with diabetes mellitus. Typically, the syringe has a two to three day insulin capacity and is connected to an infusion set attached to a small needle or cannula which is inserted into the
subcutaneous tissue. The syringe and pump devices are battery operated and controlled by a small computer that is programmed to deliver a steady "basal" amount of insulin. Pumps may also release a "bolus" dose at meals and at programmed intervals. The purpose of the insulin pump is to provide an accurate, continuous, controlled delivery of insulin which can be regulated by the user to achieve intensive glucose control objectives and to prevent the metabolic complications of hypoglycemia, hyperglycemia and diabetic ketoacidosis. Other more recently developed devices are not battery powered and rely on mechanical instillation of programmed basal and bolus insulin. This document addresses the medically necessary uses of these devices.

**Summary**
The evidence supports the efficacy of the external insulin infusion pump for properly trained diabetics who are not well controlled on intensive, multi-dose insulin therapy. Benefits are seen in long-term control as shown by lowered glycosylated hemoglobin A1c levels. In addition, stability of blood glucose self-measurement values as well as surveyed functional status and quality of life outcomes have been shown to improve in individuals using continuous insulin pump therapy.

The use of external insulin infusion pumps requires careful selection of individuals, meticulous monitoring, and thorough education and long-term ongoing follow-up. This care is generally provided by a multidisciplinary team of health professionals with specific expertise and experience in the management of individuals on insulin pump treatment.

Definitive, agreed upon selection criteria for continuous insulin infusion have not been established. Intensive insulin therapy has been shown to reduce complications and improve outcome in pregnant women with type 1 diabetes, and external insulin pump therapy is considered an appropriate alternative to multiple daily injections for this group (Kitzmiller, 1991). There is also evidence to support the use of external insulin pump therapy for type 1 diabetics who have not achieved adequate glucose control despite multiple daily injections. There is evidence to suggest that insulin pumps may benefit individuals with various types of glycemic excursions such as the "dawn phenomenon" (early morning rise in blood glucose), nocturnal hypoglycemic episodes, hypoglycemic unawareness, and severe hypoglycemia (Hirsch, 1990; Pickup, 2002; Selam, 1990).

**Policy History**

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
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<tbody>
<tr>
<td>1/2010</td>
<td>Clarified coding information.</td>
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<tr>
<td>8/2018</td>
<td>Medically necessary statements regarding Massachusetts State Mandate, General Laws Part I Title XXII Chapter 175 Section 47N: Items medically necessary for Diagnosis and Treatment of Diabetes clarified. 8/10/2018</td>
</tr>
<tr>
<td>10/2017</td>
<td>Clarified coding information.</td>
</tr>
<tr>
<td>10/2016</td>
<td>Clarified coding information.</td>
</tr>
<tr>
<td>1/2016</td>
<td>Language clarified under the coding section to indicate that insulin pumps and supplies are processed as described through each member’s subscriber certificate. 1/1/2016.</td>
</tr>
<tr>
<td>12/2014</td>
<td>Medical policy ICD 10 remediation: Formatting, editing and coding updates. No changes to policy statements.</td>
</tr>
<tr>
<td>11/2011</td>
<td>Added limit of insulin pump reservoirs (HCPCS level II code A9274) of 15 units per 30 days. Effective 2/1/2012.</td>
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</table>
6/2010  Added Medicare language regarding non-coverage of services comprising an Outpatient Intravenous Insulin Therapy regimen when furnished pursuant to an OIVIT regimen.


3/2010  Policy updated to reflect decision to allow the purchase of one insulin pump once in 4 years. Effective 3/10/2010

7/2000  Policy updated to allow the purchase of one insulin pump once in 5 years.

Information Pertaining to All Blue Cross Blue Shield Medical Policies
Click on any of the following terms to access the relevant information:
Medical Policy Terms of Use
Managed Care Guidelines
Indemnity/PPO Guidelines
Clinical Exception Process
Medical Technology Assessment Guidelines

References

Endnotes

1 Massachusetts State Mandate, General Laws Part I Title XXII Chapter 175 Section 47N: Items medically necessary for diagnosis and Treatment of Diabetes.