**Title:** Insulin Pump

**Professional**

Original Effective Date: January 1, 1999  
Revision Date(s): June 1, 1999; June 9, 2003; October 3, 2006; November 2, 2006;  
May 15, 2012; December 14, 2012; January 21, 2014; September 29, 2015;  
March 31, 2016; October 1, 2016  
Current Effective Date: March 31, 2016

State and Federal mandates and health plan member contract language, including specific provisions/exclusions, take precedence over Medical Policy and must be considered first in determining eligibility for coverage. To verify a member’s benefits, contact Blue Cross and Blue Shield of Kansas Customer Service.

The BCBSKS Medical Policies contained herein are for informational purposes and apply only to members who have health insurance through BCBSKS or who are covered by a self-insured group plan administered by BCBSKS. Medical Policy for FEP members is subject to FEP medical policy which may differ from BCBSKS Medical Policy.

The medical policies do not constitute medical advice or medical care. Treating health care providers are independent contractors and are neither employees nor agents of Blue Cross and Blue Shield of Kansas and are solely responsible for diagnosis, treatment and medical advice.

If your patient is covered under a different Blue Cross and Blue Shield plan, please refer to the Medical Policies of that plan.

**DESCRIPTION**

An external insulin infusion pump is a small, battery-operated device (about the size of a pager) worn on a belt around the waist and attached to a needle or catheter that provides continuous infusion of insulin.
**POLICY**

Benefits for an insulin pump will be considered per the following guidelines:

A. Prerequisites:
   1. Completion of a comprehensive diabetes education program to include education pertaining to:
      a. When to bolus
      b. How much to bolus depending on meal content
      c. How to adjust basal rates
      d. Meal boluses depending on projected activity level
      e. Use of sick day guidelines
   2. At least 4 multiple daily injections of insulin with self adjustments for at least 6 months (earlier for pregnancy or preconception)
   3. Frequency of glucose self testing of at least 4 times per day during at least 30 days (1 month) prior to initiation of the insulin pump
   4. Ability and commitment to comply with a regimen of pump care, frequent self-monitoring of blood sugar and attention to diet and exercise.
   5. The pump must be ordered and managed by a provider with experience and expertise with managing insulin pumps.

B. Consideration will be given to the following (when not explained by noncompliance):
   - History of severe glycemic excursions (commonly associated with brittle diabetes, hypoglycemic unawareness, nocturnal hypoglycemia, extreme insulin sensitivity and/or very low insulin requirements)
   - Dawn phenomenon with morning fasting blood sugars frequently exceeding 200mg/dl
   - Diabetic complications such as neuropathy, nephropathy and retinopathy
   - Glycosylated hemoglobin (HgbA1c) level > 7.0% or 1% over upper range of normal.
   - Preconception or pregnancy with suboptimal glycemic control with multiple daily insulin injections
   - Recurring hypoglycemia
   - On insulin pump prior to enrollment

C. The provider’s order and rationale for the insulin pump must be provided from the clinical record or from a letter from the ordering provider.
CODING

The following codes for treatment and procedures applicable to this policy are included below for informational purposes. Inclusion or exclusion of a procedure, diagnosis or device code(s) 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 of these services as it applies to an individual member.

CPT/HCPCS
E0784  External ambulatory infusion pump, insulin
S9145  Insulin pump initiation, instruction in initial use of pump (pump not included)

ICD-9 Diagnoses
250.00-250.93  Diabetes mellitus
250.0-250.03  Diabetes mellitus; Diabetes mellitus without mention of complication
250.1-250.13  Diabetes mellitus; Diabetes with ketoacidosis
250.2-250.23  Diabetes mellitus; Diabetes with hyperosmolarity
250.3-250.33  Diabetes mellitus; Diabetes with other coma
250.4-250.43  Diabetes mellitus; Diabetes with renal manifestations
250.5-250.53  Diabetes mellitus; Diabetes with ophthalmic manifestations
250.6-250.63  Diabetes mellitus; Diabetes with neurological manifestations
250.7-250.73  Diabetes mellitus; Diabetes with peripheral circulatory disorders
250.8-250.83  Diabetes mellitus; Diabetes with other specified manifestations
250.9-250.93  Diabetes mellitus; Diabetes with unspecified complication
648.00  Diabetes mellitus; Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care
648.01  Diabetes mellitus; Maternal diabetes mellitus with delivery
648.02  Diabetes mellitus; Maternal diabetes mellitus with deliver, with current postpartum complication
648.03  Diabetes mellitus; Maternal diabetes mellitus, antepartum
648.04  Diabetes mellitus; Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication

ICD-10 Diagnoses
E10.10  Type 1 diabetes mellitus with ketoacidosis without coma
E10.11  Type 1 diabetes mellitus with ketoacidosis with coma
E10.22  Type 1 diabetes mellitus with diabetic chronic kidney disease
E10.29  Type 1 diabetes mellitus with other diabetic kidney complication
E10.311  Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema
E10.319  Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema
E10.3211  Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye
E10.3212  Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye
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E10.3512 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye
E10.3513 Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
E10.3521 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye
E10.3522 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye
E10.3523 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
E10.3531 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye
E10.3532 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye
E10.3533 Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
E10.3541 Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye
E10.3542  Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye
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E10.3551  Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye
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E10.36   Type 1 diabetes mellitus with diabetic cataract
E10.37X1  Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye
E10.37X2  Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye
E10.37X3  Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral
E10.39   Type 1 diabetes mellitus with other diabetic ophthalmic complication
E10.40   Type 1 diabetes mellitus with diabetic neuropathy, unspecified
E10.41   Type 1 diabetes mellitus with diabetic mononeuropathy
E10.42   Type 1 diabetes mellitus with diabetic polyneuropathy
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E10.44   Type 1 diabetes mellitus with diabetic amyotrophy
E10.49   Type 1 diabetes mellitus with other diabetic neurological complication
E10.51   Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene
E10.52   Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E10.59   Type 1 diabetes mellitus with other circulatory complications
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E10.618  Type 1 diabetes mellitus with other diabetic arthropathy
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E10.649  Type 1 diabetes mellitus with hypoglycemia without coma
E10.65   Type 1 diabetes mellitus with hyperglycemia
E10.69   Type 1 diabetes mellitus with other specified complication
E10.8    Type 1 diabetes mellitus with unspecified complications
E10.9    Type 1 diabetes mellitus without complications
E11.00   Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)
E11.01   Type 2 diabetes mellitus with hyperosmolarity with coma
E11.21   Type 2 diabetes mellitus with diabetic nephropathy
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E11.29  Type 2 diabetes mellitus with other diabetic kidney complication
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E13.69   Other specified diabetes mellitus with other specified complication
E13.8    Other specified diabetes mellitus with unspecified complications
O24.011  Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester
O24.012  Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester
O24.013  Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester
O24.02   Pre-existing type 1 diabetes mellitus, in childbirth
O24.03   Pre-existing type 1 diabetes mellitus, in the puerperium
O24.111  Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester
O24.112  Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester
O24.113  Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester
O24.12   Pre-existing type 2 diabetes mellitus, in childbirth
O24.13   Pre-existing type 2 diabetes mellitus, in the puerperium
O24.311  Unspecified pre-existing diabetes mellitus in pregnancy, first trimester
O24.312  Unspecified pre-existing diabetes mellitus in pregnancy, second trimester
O24.313  Unspecified pre-existing diabetes mellitus in pregnancy, third trimester
O24.32   Unspecified pre-existing diabetes mellitus in childbirth
O24.33   Unspecified pre-existing diabetes mellitus in the puerperium
O24.811  Other pre-existing diabetes mellitus in pregnancy, first trimester
O24.812  Other pre-existing diabetes mellitus in pregnancy, second trimester
O24.813  Other pre-existing diabetes mellitus in pregnancy, third trimester
O24.82   Other pre-existing diabetes mellitus in childbirth
O24.83   Other pre-existing diabetes mellitus in the puerperium

Contains Public Information
O24.911  Unspecified diabetes mellitus in pregnancy, first trimester
O24.912  Unspecified diabetes mellitus in pregnancy, second trimester
O24.913  Unspecified diabetes mellitus in pregnancy, third trimester
O24.92  Unspecified diabetes mellitus in childbirth
O24.93  Unspecified diabetes mellitus in the puerperium

**REVISIONS**

<table>
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<tr>
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| 05-15-2012 | In the Policy section:                                                                                          
|            | • In Item A, #2, added "(earlier for pregnancy or preconception)"
|            | • In Item B, added "Recurring hypoglycemia" and "on insulin pump prior to enrollment"
|            | • Removed Item D, "Insulin pumps are not indicated for the type II diabetic with evidence of insulin resistance such as high insulin requirements. In some cases a C-peptide to document insulinopenia may be requested. The requirement would be a C-peptide less than 110% of the lower limit of normal with a concurrent fasting blood sugar less than 225. (For a person with renal insufficiency with creatinine clearance less than 50 ml/min insulinopenia is defined as a fasting C-peptide level less than 200% of the lower limit of normal with a fasting blood sugar less than 225.)"
|            | Updated References section.                                                                                      |
| 12-14-2012 | Revision posted to BCBSKS website, November 15, 2012.                                                           |
|            | In the Policy section:                                                                                          |
|            | • In Item B, #3, removed "2 months" and inserted "30 days (1 month)" to read "Frequency of glucose self testing of at least 4 times per day during at least 30 days (1 month)..."
|            | • Added Item D, "Insulin pump therapy is considered not medically necessary in the morbidly obese (BMI ≥35) Type II diabetic with evidence of insulin resistance." |
|            | In the Coding section:                                                                                          |
|            | • Updated code nomenclature format.                                                                             |
|            | Updated References section.                                                                                      |
| 01-21-2014 | Policy reviewed.                                                                                               |
|            | In Coding section:                                                                                              |
|            | • Added ICD-10 Diagnosis (Effective October 1, 2014)                                                           |
| 09-29-2015 | Policy reviewed.                                                                                               |
|            | In Coding section:                                                                                              |
|            | • Revised ICD-10 Diagnoses effective date to "October 1, 2015"                                                 |
| 03-31-2016 | In Policy section:                                                                                              |
|            | • Removed Item D, "Insulin pump therapy is considered not medically necessary in the morbidly obese (BMI ≥35) Type II diabetic with evidence of insulin resistance. (16-18)"
<p>|            | Updated References section.                                                                                      |</p>
<table>
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<tr>
<th>10-01-2016</th>
<th>In Coding section:</th>
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</table>

**REFERENCES**


Other References
1. Blue Cross and Blue Shield of Kansas Internal Medicine Liaison Committee, Internal Medicine Liaison (see Blue Cross and Blue Shield of Kansas Newsletter, Blue Shield Report. MAC-03-06).
2. Blue Cross and Blue Shield of Kansas Medical Advisory Committee (MAC) meeting, November 2, 2006 (see Blue Cross and Blue Shield of Kansas Newsletter, Blue Shield Report. MAC-03-06).
4. C&A Medical Consultant, Board Certified Internal Medicine, 09/20/12.
5. C&A Medical Consultant, Board Certified Endocrinologist (467), 10/12/12.