

Cohere Medical Policy -Intrathecal Pain Pumps

Clinical Policy for Medical Necessity Review

Version: 3

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Important Notices

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Policy Information:

Specialty Area: Musculoskeletal Care

Policy Name: Cohere Medical Policy - Intrathecal Pain Pumps

Type: $[\underline{X}]$ Adult (18+ yo) | $[\underline{X}]$ Pediatric (0-17 yo)

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Medical Necessity Criteria

Service: Intrathecal Pain Pumps

Cohere Health takes an evidence-based approach to reviewing imaging and procedure requests, meaning that sufficient clinical information must be provided at the time of submission to determine medical necessity. Documentation must include a recent and detailed history, physical examination related to the onset or change in symptoms, relevant lab results, prior imaging, and details of previous treatments. Advanced imaging or procedures should be requested after a clinical evaluation by the treating provider, which may include referral to a specialist.

- When a specific clinical indication is not explicitly addressed in the Cohere
 Health medical policy, medical necessity will be determined based on
 established clinical best practices, as supported by evidence-based
 literature, peer-reviewed sources, professional society guidelines, and
 state or national recommendations, unless otherwise directed by the
 health plan.
- Requests submitted without clinical documentation, or those that do not align with the provided clinical information—such as mismatched procedure, laterality, body part, or CPT code—may be denied for lack of medical necessity due to insufficient or inconsistent clinical information.
- When there are multiple diagnostic or therapeutic procedures requested simultaneously or within the past three months, each will be reviewed independently. Clinical documentation must clearly justify all of the following:
 - o The medical necessity of each individual request
 - Why prior imaging or procedures were inconclusive, or why additional/follow-up studies are needed
 - o How the results will impact patient management or treatment decisions
- Requests involving adjacent or contiguous body parts may be considered not medically necessary if the documentation demonstrates that the patient's primary symptoms can be adequately assessed with a single study or procedure.

Description

An intrathecal drug delivery system (IDDS) involves a surgically implanted pump that delivers medication; the system includes a pump, medication reservoir, and catheter. Once programmed, the pump delivers a set amount of medication via a catheter into the intrathecal space of the spinal canal. Intrathecal drug therapies include opioid medications and nonopioid medications (e.g., baclofen, ziconotide, local anesthetics).¹

Medical Necessity Criteria

Indications

An **intrathecal pain pump** is considered appropriate if **ANY** of the following is **TRUE**:

- Anti-spasmodic drugs (e.g., baclofen) for intractable spasticity with ALL of the following²:
 - Non-invasive methods of spasm control (e.g., oral anti-spasmodic drugs) are not effective due to ANY of the following:
 - Failure to adequately control the spasticity; OR
 - Intolerable side effects; AND
 - Before pump implantation, the patient must have responded favorably with a 50% improvement of function or spasticity to a trial intrathecal dose of the anti-spasmodic drug; OR
- Opioid and non-opioid drugs for the treatment of chronic, intractable pain of malignant or non-malignant origin with **ALL** of the following 1.3-6:
 - Any drug(s) used to fill the implantable infusion pump must be appropriate for the treatment of the patient's pain condition; AND
 - o Origin of pain is ANY of the following:
 - Malignant with ALL of the following:
 - Life expectancy greater than 3 months; AND
 - History indicates there was not an adequate response to non-invasive methods of pain control; OR
 - Non-malignant and unresponsive to less invasive medical therapy as indicated by ALL of the following:
 - Duration of conservative care of greater than 3 months with ALL of the following:
 - Physical therapy; AND
 - o Interventional pain injections if medically appropriate; AND
 - Medication including systemic opioids; AND

- Evaluation with a multidisciplinary physician team that includes
 ALL of the following:
 - Psychological evaluation by a licensed mental health professional; AND
 - Surgery is not indicated; OR
- Permanent intrathecal pain pump with **ALL** of the following:
 - Completion of a preliminary trial of intraspinal opioid or non-opioid drug administration with or without a temporary catheter (e.g., intrathecal, epidural); AND
 - Evidence of at least 50% potential pain relief with the procedure (e.g., trial); AND
 - Minimal side effects and patient tolerance^{7,8}; OR
- Replacement or revision of a covered device* is medically necessary with
 ANY of the following:
 - Device is not functioning, and the rationale is documented in the chart (e.g., pump interrogation report, imaging reports, pump flow study); OR
 - Device recalled by the manufacturer; OR
 - Notification was received from the pump indicating an impending failure.

Non-Indications

An **intrathecal pain pump** is not considered appropriate if **ANY** of the following is **TRUE**:

- Presence of a known allergy or hypersensitivity to the drug being used (e.g., oral baclofen, morphine, etc.); OR
- Active infection²; OR
- The patient's body size is insufficient to support the weight and bulk of the device²; OR
- Replacement of a device for ANY of the following:
 - The entire implantable infusion system, including the catheter and/or programmer components, at the end of battery life; OR
 - Upgrade to newer technology when the current device is functional.

*NOTE: A covered device includes the device-pump/battery, programmer, catheter, and extensions. Documentation should include which component(s) require replacement.

*NOTE: If the patient has another implanted programmable device, and due to crosstalk between devices that may inadvertently change the prescription, all devices should be checked for possible crosstalk at the time of implantation of the infusion pump, with appropriate continued surveillance for such interactions.

Level of Care Criteria

Inpatient or Outpatient

Procedure Codes (CPT/HCPCS)

CPT/HCPCS Code	Code Description
62323	Injection(s), of diagnostic or therapeutic substance(s) (e.g., anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); with imaging guidance (i.e., fluoroscopy or CT)
62324	Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (e.g., anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, cervical or thoracic; without imaging guidance
62325	Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (e.g., anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, cervical or thoracic; with imaging guidance (i.e., fluoroscopy or CT)
62326	Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus,

	of diagnostic or therapeutic substance(s) (e.g., anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); without imaging guidance	
62327	Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (e.g., anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); with imaging guidance (i.e., fluoroscopy or CT)	
62350	Implantation, revision or repositioning of tunneled intrathecal or epidural catheter, for long-term medication administration via an external pump or implantable reservoir/infusion pump; without laminectomy	
62351	Implantation, revision or repositioning of tunneled intrathecal or epidural catheter, for long-term medication administration via an external pump or implantable reservoir/infusion pump; with laminectomy	
62355	Removal of previously implanted intrathecal or epidural catheter	
62360	Implantation or replacement of device for intrathecal or epidural drug infusion; subcutaneous reservoir	
62361	Implantation or replacement of device for intrathecal or epidural drug infusion; nonprogrammable pump	
62362	Implantation or replacement of device for intrathecal or epidural drug infusion; programmable	

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pump, including preparation of pump, with or without programming	
Removal of subcutaneous reservoir or pump, previously implanted for intrathecal or epidural infusion	
Electronic analysis of programmable, implanted pump for intrathecal or epidural drug infusion (includes evaluation of reservoir status, alarm status, drug prescription status); without reprogramming or refill	
Electronic analysis of programmable, implanted pump for intrathecal or epidural drug infusion (includes evaluation of reservoir status, alarm status, drug prescription status); with reprogramming	
Electronic analysis of programmable, implanted pump for intrathecal or epidural drug infusion (includes evaluation of reservoir status, alarm status, drug prescription status); with reprogramming and refill	
Electronic analysis of programmable, implanted pump for intrathecal or epidural drug infusion (includes evaluation of reservoir status, alarm status, drug prescription status); with reprogramming and refill (requiring skill of a physician or other qualified health care professional)	
Refilling and maintenance of implantable pump or reservoir for drug delivery, spinal (intrathecal, epidural) or brain (intraventricular), includes electronic analysis of pump, when performed;	
Refilling and maintenance of implantable pump or reservoir for drug delivery, spinal (intrathecal,	

	epidural) or brain (intraventricular), includes electronic analysis of pump, when performed; requiring skill of a physician or other qualified health care professional	
C1772	Infusion pump, programmable (implantable)	
C1891	Infusion pump, non-programmable, permanent (implantable)	
C2626	Infusion pump, non-programmable, temporary (implantable)	
E0782	Infusion pump, implantable, non-programmable (includes all components, e.g., pump, catheter, connectors, etc.)	
E0783	Infusion pump system, implantable, programmable (includes all components, e.g., pump, catheter, connectors, etc.)	
E0785	Implantable intraspinal (epidural/intrathecal) catheter used with implantable infusion pump, replacement	
E0786	Implantable programmable infusion pump, replacement (excludes implantable intraspinal catheter)	

Medical Evidence

Schultz et al. (2021) also analyzed data from the Product Surveillance Registry (PSR). The study included 4646 patients with chronic, non-malignant pain who received a drug delivery system. Adverse events, product performance, and device replacement were discussed. The literature supports the use of drug delivery systems as an option instead of systemic opioids.⁴

Stearns et al. (2020) analyzed data from a prospective, long-term, multicenter registry of patients who received an intrathecal drug delivery system (IDDS) for cancer-related pain. The PSR included 1403 patients with cancer from 2003, when the registry began, through July 2017. Common cancer types were lung, breast, colon/rectal, pancreatic, and prostate. Improved pain levels and higher quality of life scores were demonstrated, including patients with late-stage cancer. Efficacy was demonstrated in randomized controlled clinical trials (RCTs), yet overall utilization is low.³

Carvajal et al. (2018) performed an observational study of patients diagnosed with pancreatic cancer; prevalence rates of pain range from 47% to 82%. The Results from 11 years of data were analyzed using an IDDS. A total of 10,300 IDDS days were analyzed. Before IDDS implantation, severe pain was reported (median presurgical numeric rating scale [NRS], 8 [interguartile range, 7-9]) despite receiving a daily dose of oral morphine of 360 mg. Concerning the median overall survival (OS), post-intrathecal treatment initiation was 82 days (95% confidence interval, 59-95). After implant surgery, the median OS was 91 days (83-111) for implanted pumps and 27 days (20-49) for external pumps (P < .0001). Patients reported significant pain relief as evidenced by a notable reduction in pain scores at 1 week, 1 month, and 3 months post-implantation (P < .001). Severe pain (NRS score ≥7) also decreased from 89.2% before surgery to 4.5% after 1 week, 6.7% after 1 month, and 10.3% after 3 months of IDDS implantation (P < .01). Rates of complications were low and aligned with existing literature findings. The authors suggest that a long-term IDDS is effective and safe for managing refractory pancreatic cancer pain.9 Aman et al. (2021) emphasized that the American Society of Pain and Neuroscience (ASPN) Best Practices and Guidelines support the interventional management of cancer-associated pain with intrathecal drug delivery systems.10

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Policy Revision History/Information

Original Date: September 14, 2023		
Review History		
Version 2	03/29/2024	Policy criteria reviewed and updated per medical literature
Version 3	07/10/2025	Annual review.
		Clarified the indications to improve usability and organization.
		Reworded the indications for "anti-spasmodic drugs".
		Added an indication for "opioid and non-opioid drugs" for conservative care for non-malignant pain, ("physical therapy, interventional pain injections if medically appropriate, and medication including systemic opioids").
		Added an indication for "opioid and non-opioid drugs" for "evaluation with a multidisciplinary physician team," including a "psychological evaluation by a licensed mental health professional" and when "surgery is not indicated."
		Included a note regarding covered devices (device-pump/battery, programmer, catheter, and extensions).
		Literature review - Medical Evidence section updated (Aman et al., 2021).