

Driscoll Health Plan Medical Necessity Guideline

Medical Necessity Guideline: Umbilical Herniorrhaphy - Children < 5 Years of Age and Adults	Creation Date: 09/01/2007	Review Date: 05/29/2026	Effective Date: 07/28/2026
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PURPOSE:

Define the indications and required documentation for umbilical hernia repair.

LINE OF BUSINESS: STAR, STAR Kids, and CHIP

DEFINITIONS:

Umbilical hernia - an outward bulging (protrusion) of the lining of the abdomen or part of the abdominal organ(s) through the area around the belly button ⁽⁴⁾.

GUIDELINE:

1. Repair of umbilical hernias are considered medically necessary, regardless of the member's age, if it is incarcerated or strangulated.
2. Children (under 18 years of age) - Repair of umbilical hernia is medically necessary for the following conditions:
 - The hernia has not closed by age 5 ^(1, 3).
 - The hernia is larger than 2 cm ⁽³⁾.
3. Adults (18 years of age and older) - Repair of umbilical hernia is medically necessary for the following conditions:
 - The hernia is progressively increasing in size ⁽⁵⁾
 - The hernia defect is greater than 1 cm ⁽⁶⁾
 - There is pain at the hernia site ^(1, 5, 6)
 - There is overlying skin ulceration or thinning ^(1, 6)
 - There is a rupture of the hernia ⁽⁶⁾
 - There is uncontrollable ascites ⁽¹⁾

Required Documentation:

DHP requires the following documentation to assess medical necessity for this procedure:

- In a child, a current clinic note describing the course or progression of the hernia with age, if the size is greater than 2 cm, and reducibility.
- In an adult, a current clinic note describing the course or progression of the hernia, if the size of the hernia is greater than 1 cm, reducibility, if the overlying skin has thinning or ulceration, and if the underlying condition of the patient is resulting in persisting ascites.

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BACKGROUND:

Children:

Umbilical hernias are common in infants. The soft swelling over the belly button often bulges when the baby sits up, cries, or strains. However, the bulge may be flat when the infant lies on the back and is quiet. Umbilical hernias are usually painless. Most hernias in children heal on their own ⁽⁴⁾.

Holcomb and Ashcraft's Pediatric Surgery ⁽²⁾ states the following prognostic statistics: "Several studies have demonstrated spontaneous resolution rates of >90% of hernias by one (1) year of age. One study found that 50% of hernias at age four to five (4–5) years will close by age 11. Another study suggests that hernias with fascial defects greater than 1.5 cm are unlikely to close by age six (6) years. In contrast, other series conclude that even large defects may spontaneously resolve without an operation. The primary danger associated with observation is the possibility of incarceration or strangulation. Studies have shown these complications to be rare, with an incidence of less than 1%. Patients with small fascial defects (0.5–1.5 cm in diameter) appear more prone to incarceration."

The book chapter by Chung in Sabiston Textbook of Surgery ⁽³⁾ states that "Enlarging umbilical hernia over time, in particular with a large skin proboscis more than 3 cm or a significantly large umbilical fascial defect (>2 cm), is unlikely to resolve spontaneously; therefore, surgical repair should be considered at an early age."

Discussion: Based on a review of authoritative textbooks and online resources ^(1, 2, 3, 4), it appears reasonable for the medical necessity cut-off age (other than incarceration or strangulation) to be 5 years for children or for the size cut-off to be a 2 cm fascial defect.

Adults:

Umbilical hernias are relatively common in adults. They are seen more in overweight people and women, especially after pregnancy. They tend to get bigger over time.

Smaller hernias with no symptoms can sometimes be watched. Surgery may pose more significant risks for patients with serious medical problems. Without surgery, there is a risk that some fat or part of the intestine will get stuck (incarcerated) in the hernia and become impossible to push back in. This is usually painful. If the blood supply to this area is cut off (strangulation), urgent surgery is needed. Nausea and vomiting may be experienced, and the bulging area may turn blue or darker.

To avoid this problem, surgeons often recommend repairing the umbilical hernia in adults. Surgery is also used for hernias that are getting larger or are painful. Surgery secures the weakened abdominal wall tissue (fascia) and closes any holes ⁽⁵⁾.

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Benjamin et al., in Sabiston Textbook of Surgery ⁽¹⁾, state that “Small asymptomatic umbilical hernias barely detectable on examination need not be repaired. Adults who have symptoms, a large hernia, incarceration, thinning of the overlying skin, or uncontrollable ascites should have a hernia repair.”

Based on a review of authoritative textbooks and online resources ^(1, 5, 6) it appears that, in adults, other than for the smallest (<1 cm) of hernias, repair is indicated because they inevitably tend to grow larger and cause symptoms.

PROVIDER CLAIMS CODES:

ICD - 10	
K 42.0	Umbilical hernia with obstruction, without gangrene
K 42.1	Umbilical hernia with gangrene
K 42.9	Umbilical hernia without obstruction or gangrene

CPT	
49591	Repair of anterior abdominal hernia, further by initial or recurrent hernia, further by total defect size and by reducible or incarcerated/strangulated.
49592	Repair of anterior abdominal hernia, any approach, initial
49593	Repair of anterior abdominal hernia, any approach, initial
49594	Repair of anterior abdominal hernia, any approach, initial
49595	Repair of anterior abdominal hernia, any approach, initial
49596	Repair of anterior abdominal hernia, any approach, initial
49613	Repair of anterior abdominal hernia, any approach, recurrent
49614	Repair of anterior abdominal hernia, any approach, recurrent
49615	Repair of anterior abdominal hernia, any approach, recurrent
49616	Repair of anterior abdominal hernia, any approach, recurrent
49617	Repair of anterior abdominal hernia, any approach, recurrent
49618	Repair of anterior abdominal hernia, any approach, recurrent

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DOCUMENT HISTORY:

DHP Committee that Approved	Review Approval Date (last 5 years)				
Medical Director	06/07/2022	05/23/2023	05/31/2024	05/30/2025	05/29/2026
CMO	06/07/2022	06/06/2023	06/11/2024	06/10/2025	06/16/2026
Medical Policy Workgroup	06/07/2022	06/06/2023	06/11/2024	06/10/2025	06/16/2026
Provider Advisory Committee (PAC)	6/17/2022	06/09/2023	07/01/2024	06/24/2025	06/16/2026
Clinical Management Committee	06/24/2022 & 08/23/2022	07/20/2023	07/24/2024	07/01/2025	07/21/2026
Executive Quality Committee	06/28/2022	07/25/2023	07/30/2024	07/17/2025	07/28/2026

Document Owner	Organization	Department
Dr. Dan Doucet, Medical Director	Driscoll Health Plan	Utilization Management

Review/Revision Date	Review/Revision Information, etc.
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11/15/2018	Added new reference
11/30/2019	Changed to new format, added reference and process. No change in benefit guideline
05/14/2020	New language and citations (Dr. Akthar) – adds codes
06/02/2020	Dr. Serrao comments addressed
06/16/2020	Additional editing/formatting
05/22/2021	Added update reference Sabiston Textbook of Surgery and replaced quote in guideline – verified current references – Dr. Akhtar
05/09/2022	Initial review by Dr. Thomas Morris
05/24/2022	Final editing and review by Dr. Fred McCurdy
05/04/2023	Updated 2023 CPT codes added
05/23/2023	Reviewed by Drs Thomas Morris and Fred McCurdy
05/31/2024	Reviewed and revised by Drs. Lenore Depagter and Fred McCurdy

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05/13/2025-5/30/2025	Annual Review and revision initiated on 05/13/2025 and completed on 05/30/2025 by Dr. Tessa Perez
05/29/2026	Annual Review completed on 05/29/2026 by Dr. Lenore DePagter

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