



Medical Necessity Guideline: Umbilical	Creation	Review	Effective
Herniorraphy - Children < 5 Years of Age	Date:	Date:	Date:
and Adults	09/01/2007	05/23/2023	09/01/2007

PURPOSE:

To define the indications and required documentation for Umbilical Hernia repair.

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⁾.

<u>GUIDELINE</u>:

- 1. Repair of umbilical hernia is 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 $2 \text{ cm}^{(3)}$.
- 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 $1 \text{ cm}^{(6)}$
 - 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, current clinic note describing the course or progression of the hernia with age, if the size of the hernia is greater than 2 cm, and reducibility.
- In an adult, 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 1 year of age. One study found that 50% of hernias at age 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 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 quite 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 fairly common in adults. They are seen more in overweight people and in women, especially after pregnancy. They tend to get bigger over time.

Smaller hernias with no symptoms sometimes can be watched. Surgery may pose greater 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 a darker color.

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	

СРТ		
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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<u>REFERENCES</u>:

- Benjamin K. Poulose, Alfredo Maximiliano Carbonell and Michael J. Rosen in <u>Sabiston</u> <u>Textbook of Surgery</u>, 21st Edition, 2022, Elselvier Inc., Chapter 45, 1105-1133 <u>https://www.clinicalkey.com</u>/, accessed 5/19/2022
- 2. Joseph A. Sujka and George W. Holcomb, <u>Holcomb and Ashcraft's Pediatric Surgery</u>, 2020, Elselvier Inc., 49, 780-782, https://www.clinicalkey.com/, accessed 5/19/2020
- Dai H. Chung. <u>Sabiston Textbook of Surgery</u>, Chapter 67, 1844-1882, 2020, Elselvier Inc., 49, 780-782, https://www.clinicalkey.com/, accessed 5/19/2022
- Review Date 8/7/2019. Updated by: Neil K. Kaneshiro, MD, MHA, Clinical Professor of Pediatrics, University of Washington School of Medicine, Seattle, WA. Also reviewed by David Zieve, MD, MHA, Medical Director, Brenda Conaway, Editorial Director, and the A.D.A.M. Editorial team. https://medlineplus.gov/ency/article/000987.htm#top, retrieved 5/19/2022
- Review Date 1/15/2019. Updated by: Robert A. Cowles, MD, Associate Professor of Surgery (Pediatrics), Yale University School of Medicine, New Haven, CT. Review provided by VeriMed Healthcare Network. Also reviewed by David Zieve, MD, MHA, Medical Director, Brenda Conaway, Editorial Director, and the A.D.A.M. Editorial team. https://medlineplus.gov/ency/article/002935.htm, retrieved 5/19/2022
- Taylor, Dana M.D. FACS (2019), Umbilical Hernia Repair, In Vikram Kate, (Ed), Medscape, <u>https://emedicine.medscape.com/article/2000990-overview#a2</u>, accessed 5/19/2021

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DOCUMENT HISTORY:

	I HISTORY:					
DHP Committee		Review Ap	proval Date (l	last 5 years)		
that Approved						
Medical Director	06/13/2019	06/22/2020	06/10/2021	05/24/2022	06/07/2022	05/23/2023
СМО	11/21/2018	06/13/2019	06/22/2020	06/10/2021	06/07/2022	06/06/2023
Medical Policy					06/07/2022	06/06/2023
Workgroup						
Effective 2022						
Medical	11/21/2018	06/13/2019	06/22/2020			
Management						
Retired						
December 2020						
Utilization				06/10/2021	06/21/2022	06/20/2023
Management &						
Appeals						
Effective January						
2021						
Utilization	02/28/2019	08/22/2019	06/22/2020			
Management						
Behavioral						
Health						
Retired						
December 2020						
Provider					6/17/2022	06/09/2023
Advisory						
Committee						
(PAC)						
Effective 2022						
Clinical				06/17/2021	06/24/2022	07/20/2023
Management					&	
Committee					08/23/2022	
Effective March						
2021						
Quality	04/16/2019	10/22/2019	06/26/2020			
Management						
Retired 2020						
Executive Quality				08/04/2021	06/28/2022	07/25/2023
Committee						
Effective 2021						

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Document Owner	Organization	Department
Dr. Fred McCurdy, Medical Director	Driscoll Health Plan	Utilization Management

Review/Revision Date	Review/Revision Information, etc.
03/17/2014,	No Change
09/01/2015,	
11/28/2016,	
11/28/2017	
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

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