

Dignity[®] Briefs with Curly Fiber

Study finds briefs with Curly Fiber may prevent, reduce severity, and promote healing of Incontinence Associated Skin Damage (IASD).¹



ACTIVE SKIN
PROTECTION™



Skin pH and Incontinence Associated Skin Damage¹

A widespread problem in many long-term care settings



Despite increased awareness and improvements in care, many nursing homes and their residents continue to experience the effects of Incontinence Associated Skin Damage or IASD.

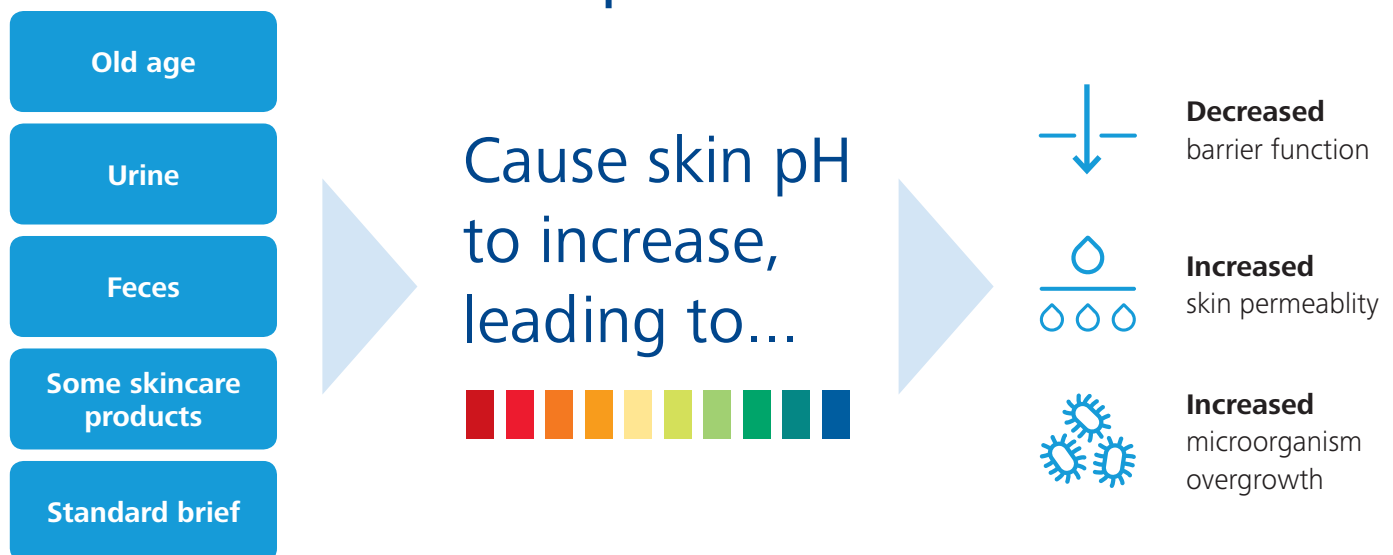
- **Incontinence Associated Skin Damage (IASD)** is an inflammation of the skin due to chronic incontinence and may be accompanied by **redness, blistering, erosion and secondary infection**.
- IASD accompanied by unrelieved pressure results in a **5-fold increase in pressure ulcer risks**.²

Incontinence Associated Skin Damage is oftentimes referred to as one of the following:

Incontinence Associated Dermatitis (IAD) / Moisture Associated Skin Damage (MASD) / Adult diaper rash/dermatitis / Perineal rash/dermatitis

They all reference the same – inflammation caused by an irritant such as urine and/or feces contacting the skin resulting in skin damage.

Skin pH & IASD



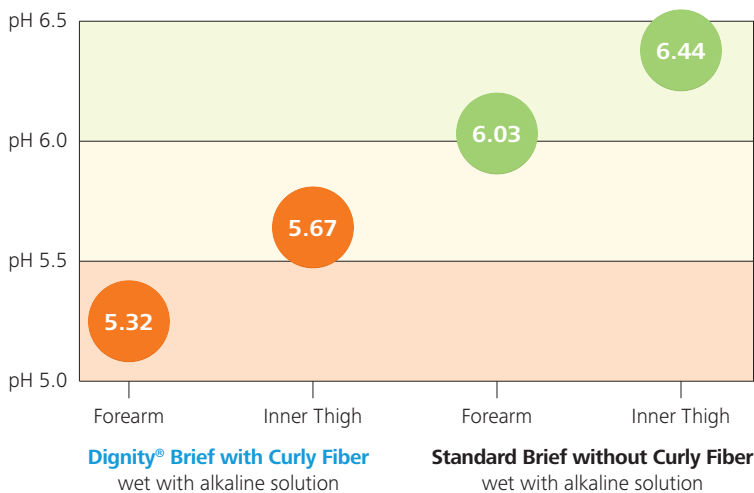
Study finds briefs with Curly Fiber may prevent, reduce severity, and promote healing of Incontinence Associated Skin Damage (IASD).¹

Study Title: Absorbent briefs containing Curly Fiber lower (acidify) skin pH reducing risk for incontinence associated skin damage in older nursing home residents¹

Authors: Donna Z. Bliss et al.

Background: Alkaline skin pH is a risk factor for Incontinence Associated Skin Damage (IASD). A more acidic skin pH reduces risk of IASD and may benefit incontinent adults.¹

Skin pH Results



Clinical Conclusions

Dignity® Briefs with Curly Fiber significantly lower/acidify pH of skin exposed to an alkaline solution with pH similar to urine/feces while standard briefs do not.¹

Dignity® Briefs with Curly Fiber have potential to prevent IASD, reduce IASD severity, and promote IASD healing in NH residents.¹

Note: the pH scale is a logarithmic scale, and each unit of measure is a ten-fold change of hydrogen ion concentration.

How clinical benefits lead to economical advantages

The clinical benefit of Dignity® Briefs with Curly Fiber is likely to offset some episodes of mild to moderate IASD compared to standard industry briefs and potentially leads to economic benefits for a facility.

The cost of treating IASD

\$169
PER EPISODE

Average cost to treat one mild to moderate IASD episode in one resident³ (adjusted for inflation).⁴

\$2,535
PER MONTH

Average cost to treat ongoing IASD in one resident³ (adjusted for inflation).⁴

IASD occurrence can be up to 52%⁵

This example assumes a 20% occurrence in a 100 bed LTC facility with 75% incontinence.



Are you interested in learning more about the economic benefits we can offer your facility?

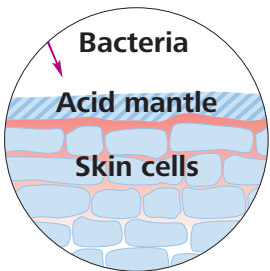
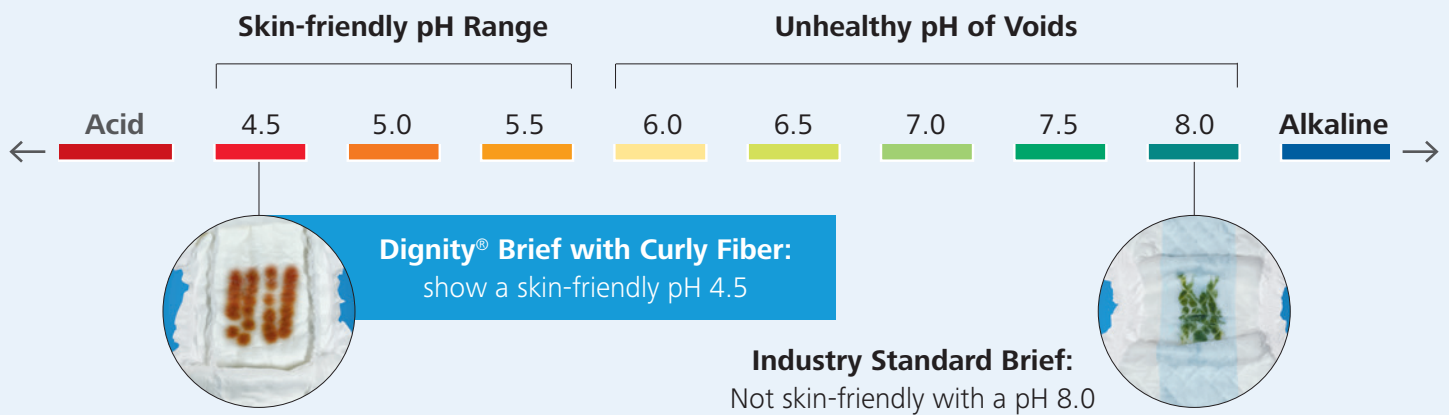
Ask your local representative or call us today! ☎ 1-800-243-2294.

Only HARTMANN incontinence products with Curly Fiber reduce the high pH of voids to a skin-friendly pH 5.5.⁶

Maintaining skin health, dignity and quality of life

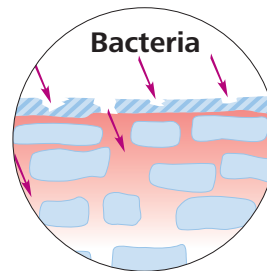
Standard pH test: Dignity Briefs® with Curly Fiber vs. Industry Standard Brief⁶

Test uses 200ml of synthetic urine added to each brief followed by the application of a wide-range pH indicator.



Healthy acid mantle

- **Healthy skin** has a slightly acidic value of **pH 4.5 to 5.5**.
- The acid mantle is an acidic film on the surface of the skin that **acts as a barrier** to bacteria, fungi, and other infections.



Weakened acid mantle

- Skin pH naturally **increases with age** (up to 6.0).⁷
- Urine, fecal matter, and perspiration may **increase skin pH up to pH 8.0**.
- Elevated pH is associated with a **breakdown** of the acid mantle, allowing bacteria to penetrate skin cells and **cause IASD**.
- Maceration and friction result in **excoriation, infection, and other complications**.

A weakened acid mantle can increase the chances of IASD.

Curly Fiber: a proprietary component that makes the difference

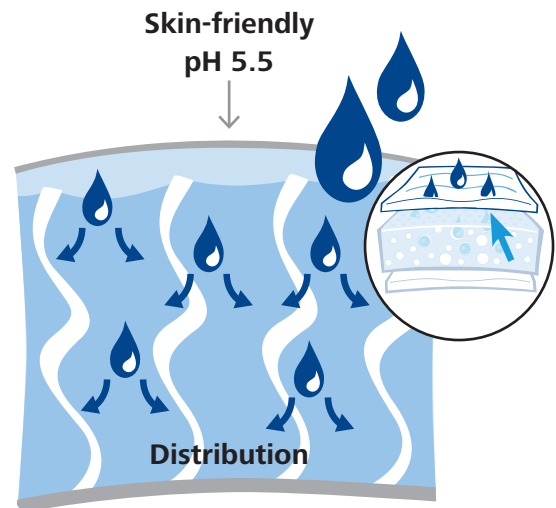
Voids overhydrate skin and increase its pH.⁸ Curly Fiber instantly reduces the high pH to a skin-friendly pH 5.5, and maintains the pH of the natural skin surface.⁷

What is it?

Curly Fiber is a specially developed, spiral-shaped cellulose fiber used in the upper layer of the absorbent core next to the skin.

What does it do?

This proprietary component buffers the pH of voids. Curly Fiber also helps draw the fluid into the superabsorbent core and distributes it.



Curly Fiber helps maintain a healthy skin environment by:

- Maintaining a skin-healthy pH value
- Preserving the acid mantle
- Facilitating rapid fluid distribution within the brief



Standard in most Dignity® Briefs with Curly Fiber: The inner cuff system⁹ provides an additional inner barrier.

When the wearer is lying on his or her side or moves when voiding, the **risk of leakage increases**.

Dignity Briefs® with Curly Fiber now come **standard with an inner cuff system⁹** that enhances the quality of life by helping prevent embarrassing leakage.

The inner cuff system **reduces caregiver clean-up time**.



Dignity® Briefs with Curly Fiber maintain a skin-friendly environment of pH 4.5–5.5 even after multiple voids.⁷

The Situation

Standard briefs do not buffer the high pH of voids to a skin-friendly pH 5.5, and this creates unhealthy alkaline skin environment.

The Solution

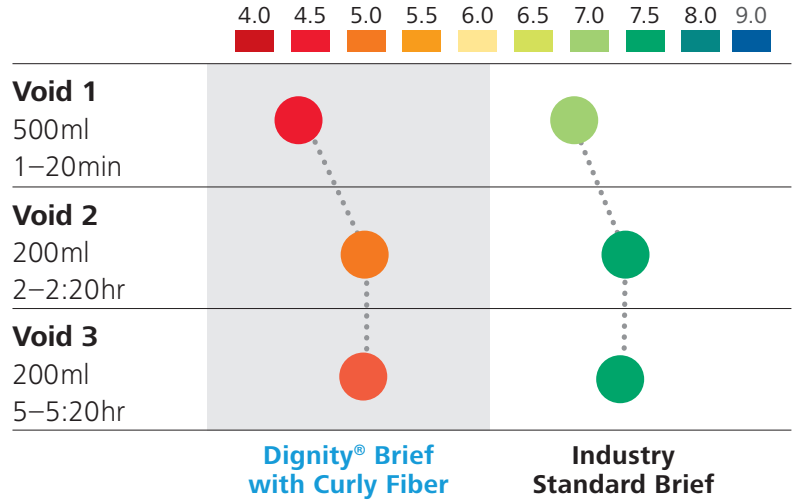
Dignity® Briefs with Curly Fiber

- Instantly reduce the high pH value of voids⁷
- Maintain a skin-friendly pH 5.5 value⁷
- Buffer pH for up to 5 hours⁷
(may be especially beneficial during sleep)

pH test: Dignity® Briefs with Curly Fiber vs. Industry Standard Brief

To simulate the effect of repeated voiding, our brief with Curly Fiber and an industry standard brief received three applications of synthetic urine, a pH 6.8 test solution. Surface pH was measured at designated intervals.

At each interval over a 5-hour period, our brief with Curly Fiber had a skin-friendly pH in the 4-5 range. With a pH in the 6-7 range, the industry standard brief without Curly Fiber was more alkaline, i.e., less skin friendly.



Dignity® Briefs with Curly Fiber:

Skin protection begins immediately and lasts for over 5 hours,⁷ which may be especially beneficial during sleep.



Rest easy with Dignity® P.M. Overnight™ Briefs with Curly Fiber.

Designed for overnight protection, extended wear or very heavy incontinence.

Dignity® Briefs with Curly Fiber: Premium care with Active Skin Protection and leakage protection



Curly Fiber: pH 5.5 spiral-shaped cellulose fiber

- ensures a skin-friendly pH value of 5.5⁷
- guides fluids away from the skin immediately⁷

Example shown with inner cuff system



1 Inner cuff system for maximized leakage protection



4 The 3-layer absorbent core guides fluids quickly into its center, locking both urine and odor safely inside



2 Hypoallergenic materials minimize the risk for allergic reactions



5 Superabsorbent polymer reduces ammonia formation and neutralizes unpleasant odor



3 Air Active® material in the hip area increases air-permeability and promotes a skin-healthy environment



6 Soft, cloth-like backsheet provides a smooth, comfortable feel

Guide to the appropriate size for maximum performance and leakage protection.

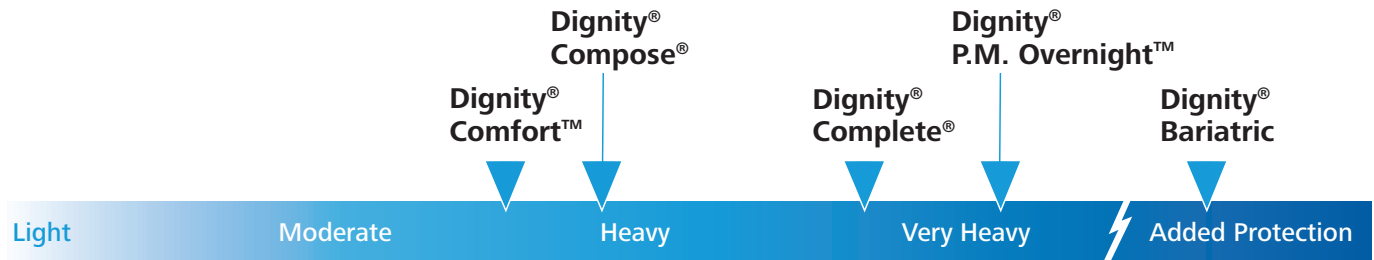
1. **Measure hips or waist**
(whichever is larger)



2. **Select corresponding Dignity® Brief size**

Size	Waist/Hips	Brief Color
Youth	15"–22" (38–56cm)	White
Small	20"–31" (51–79cm)	White
Medium	32"–44" (81–112cm)	White
Large	5"–58" (114–147cm)	Blue
X-Large	59"–64" (150–163cm)	Tan
XX-Large	63"–68" (160–174cm)	Green
Bariatric	63"–94" (160–239cm)	White

Dignity® Briefs absorbency scale



Added Protection is about 18% more absorbent than Dignity® P.M. Overnight briefs.



Dignity® Comfort™ with Curly Fiber

Basic, fitted brief for moderate to heavy incontinence, and does not have the inner cuff system.



Dignity® Compose® with Curly Fiber

Most popular adult brief for moderate to heavy incontinence.



Dignity® Complete® with Curly Fiber

Highest performing Dignity® day-brief for heavy incontinence.



Dignity® P.M. Overnight™ with Curly Fiber

Designed for overnight protection extended wear or very heavy incontinence.



Dignity® Bariatric Brief

Bariatric size brief for very heavy protection. Does not have Curly Fiber.



Ordering Information

Ordering Information

For more information or to place an order, please contact your distributor or call our Customer Service Center at **1-800-243-2294**.

Dignity Briefs® with Curly Fiber	Order no.	Size	Brief color	Waist/Hips	Briefs per bag	Bags per case	Briefs per case
Dignity® P.M. Overnight™ with Curly Fiber Very heavy protection/ Overnight extended-wearing	222493	Medium	White	32"–44" (81–112cm)	24	4	96
	222495	Large	Blue	45"–58" (114–147cm)	18	4	72
	222496	X-Large	Tan	59"–64" (150–163cm)	20	3	60
	222497	XX-Large	Green	63"–68" (160–174cm)	24	2	48
Dignity® Complete® with Curly Fiber Very heavy protection	222453	Medium	White	32"–44" (81–112cm)	24	4	96
	222455	Large	Blue	45"–58" (114–147cm)	18	4	72
	222456	X-Large	Tan	59"–64" (150–163cm)	20	3	60
	222457	XX-Large	Green	63"–68" (160–174cm)	24	2	48
Dignity® Compose® with Curly Fiber Heavy protection	222420	Youth	White	15"–22" (38–56cm)	24	4	96
	222421	Small	White	20"–31" (51–79cm)	24	4	96
	222423	Medium	White	32"–44" (81–112cm)	24	4	96
	222425	Large	Blue	45"–58" (114–147cm)	18	4	72
	222426	X-Large	Tan	59"–64" (150–163cm)	20	3	60
	222427	XX-Large	Green	63"–68" (160–174cm)	24	2	48
Dignity® Comfort™ with Curly Fiber Heavy protection	222313	Medium	White	32"–44" (81–112cm)	24	4	96
	222315	Large	Blue	45"–58" (114–147cm)	18	4	72
	222316	X-Large	Tan	59"–64" (150–163cm)	20	3	60
	222317	XX-Large	Green	63"–68" (160–174cm)	24	2	48
Bariatric Brief Size							
Dignity® Bariatric Brief¹⁰ Very heavy protection	32000	Bariatric	White	63"–94" (160–239 cm)	8	4	32

* ACTIVE SKIN PROTECTION means these briefs include Curly Fiber, which instantly converts the high pH value of voids to a skin-friendly pH 5.5; hypoallergenic materials, which have an extremely low potential for causing allergic reactions; superabsorbent polymer to lock-in fluids and maintain a healthy, dry environment; and cloth-like, breathable side panels for increased air-permeability and optimum skin health.

¹ Bliss et al., Absorbent Briefs Containing Curly Fiber Lower (Acidify) Skin pH Reducing Risk for Incontinence Associated Skin Damage in Older Nursing Home Residents; WOCN Conference Symposium 2016

² Melter, Pressure Ulcer Assessment and Treatment; Wild Iris Medical Education 2014; 17

³ Bliss et al., An economic evaluation of four skin damage prevention regimens in nursing home residents with incontinence: economics of skin damage prevention; J Wound Ostomy Continence Nurs. 2007;34(2): 143–152

⁴ www.usinflationcalculator.com, results may vary

⁵ Black et al., MASD Part 2: Incontinence-Associated Dermatitis and Intertriginous Dermatitis; J Wound Ostomy Continence Nurs. 2011; 38(4): 359–370

⁶ Beguin et al., Improving diaper design to address incontinence associated dermatitis; BMC Geriatrics 2010, 10:86

⁷ Blaak et al., Treatment of Aged Skin with a pH 4 Skin Care Product Normalizes Increased Skin Surface pH and Improves Barrier Function: Results of a Pilot Study; Journal of Cosmetics, Dermatological Sciences and Applications, 2011, 1, 50–58

⁸ Gray et al., Incontinence-Associated Dermatitis: A Comprehensive Review and Update; J Wound Ostomy Continence Nurs. 2012; 39(1): 61–74

⁹ Dignity® Comfort™ Brief does not have an inner cuff system.

¹⁰ Dignity® Bariatric Brief does not have Curly Fiber.

For more information or to place an order, please contact your distributor
or call our Customer Service Center at **1-800-243-2294**.

To see a video clip of how products with Curly Fiber instantly reduce the alkaline
pH of voids to a skin friendly pH 5.5, please visit **activeskinprotection.com**

To learn more about HARTMANN products, please visit **hartmannusa.com**

HARTMANN USA, Inc.
Rock Hill, SC 29730
1-800-243-2294

hartmannusa.com



**Going further
for health**