BIOShield
disposable safety

biopsy valves & irrigation accessories

US endoscopy

listening... and delivering solutions®

bioshield®

BioShield® biopsy valves and irrigation accessories are single-use, offering unsurpassed *protection* for patients and staff.

Why single-use valves?

It is nearly impossible to manually clean, disinfect, flush and dry biopsy valves. Reused biopsy valves can become leaky and potentially harbor dangerous pathogens - putting both patients and healthcare workers at risk. Fortunately, BioShield® biopsy valves are single-use, leaving you one less thing to worry about.

Why take the risk?
Trust BioShield® biopsy valves.

BIOShield
disposable safety

value

BioShield® biopsy valve

It just makes sense

Single-use valves reduce the possibility of cross-contamination between patients. Small valve size and easy device passage offer exceptional functionality during usage.

convenience
and peace of mind

Did you know?

Findings suggest biopsy valves aren't designed to be cleaned and reprocessed…

FACT: The design of a biopsy valve inhibits the reach and effectiveness of cleaning brush bristles, making it nearly impossible to remove debris from inner crevices

FACT: Biopsy valves have internal flaps that squeegee biomaterial off devices as they are extracted, allowing it to collect deep within the valve's inner crevices

Arrows show insufficient contact of cleaning brush bristles within internal crevices

Play it safe...US Endoscopy's line of BioShield® biopsy valves are single-use so you no longer have to worry about what lingers in those hidden crevices

what the experts are saying

"...cleaning brush bristles must come in contact with all surfaces of the endoscope channel, parts, connectors and orifices before reuse is safe." [1]

"Air pockets in the biopsy-port caps that prevented effective contact between disinfectants and the microorganisms when submerged during cleaning were pinpointed as the culprits of the spreading bacteria. Also, the design of the caps prevented thorough cleaning and drying of surfaces inside the caps, thus providing an environment where the bacteria could survive the usual disinfection procedures, according to doctors." [2]

"Rubber biopsy port caps must be discarded after all procedures involving the passage of biopsy forceps, guidewires and/or other accessories through the endoscope." [3]

"...healthcare-related infections from endoscopy continue to occur, in part, because endoscopes are difficult to clean due to their complex nature, which includes "springs and valves" as parts of the endoscope that complicate adequate disinfection." [4]

In a documented study,* published in *EndoNurse* and *Infection Control Today*, researchers found visible debris/proteinaceous material in over 50% of the test valves. The reprocessed valves used in the study, supplied from three major U.S. institutions, were deemed "clean and ready to use" prior to microscopic evaluation.

The results showed wear and damage to valve structure, gross contamination on the outer edges, and contamination within the nooks and crannies of the valves - where cleaning brushes can't always reach.

(Figure 1.2-1.4 taken from David M. Parente, BS, BA, MBA, "Could Biopsy Port Valves be a Source for Potential Flexible Endoscope Contamination," Infection Control Today, Volume 11, No. 6, (June 2007).

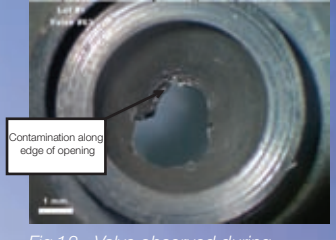

Fig 1.2 - Valve observed during microscopy demonstrates wear and damage after use, manual cleaning and high-level disinfecting. Note the presence of contamination along edge of the opening.

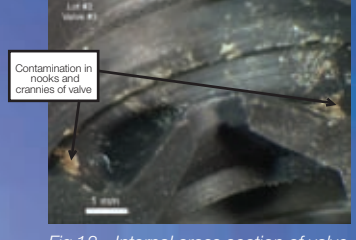

Fig 1.3 - Internal cross section of valve observed at magnification of approximately 10x demonstrates presence of contamination in nooks and crannies of valve.

Fig 1.4 - Valve observed during microscopy at 10x magnification. Note the presence of pinkish droplets on the edge of the valve opening, representing gross contamination.

related articles

- *Society of Gastroenterology Nurses and Associates, Inc., "Position Statement, Reprocessing of Endoscopic Accessories and Valves," Gastroenterology Nursing, Volume 25, No. 5, (September/October 2002).*
- *WGO / OMED, "Practice Guideline: Endoscope Disinfection," World Gastroenterology News, Volume 11, Issue 1, (Spring 2006).*
- *K. M. Mohandas, "Mucocutaneous exposure to body fluids during digestive endoscopy: the need for universal precautions," Indian Society of Gastroenterology, Volume 19, (July-September 1999).*

Source [1]: American Society for Gastrointestinal Endoscopy and the Society for Healthcare Epidemiology of America, "Multi-society guideline for reprocessing flexible gastrointestinal endoscopes," Gastrointestinal Endoscopy, Volume 58, No. 1, (2003).
Source [2]: Jon Coomer, "Investigative team exposes equipment dangers," New England Journal of Medicine, (2003).
Source [3]: Endoscopy Committee, British Society of Gastroenterology, "BSG Guidelines For Decontamination of Equipment for Gastrointestinal Endoscopy," BSG Working Party Report, (February 2008).
Source [4]: Kelly M. Pyrek, "Nooks and Crannies: The Breeding Grounds for Bacteria," Infection Control Today, (June 2002).
Source; David M. Parente, BS, BA, MBA, "Could Biopsy Port Valves be a Source for Potential Flexible Endoscope Contamination," Infection Control Today, Volume 11, No. 6, (June 2007).*

efficiency

BioShield® irrigator...

Flush blood, exudate and other debris out of your way at anytime throughout a procedure*- even with a device in place

How important is a clear view?

The BioShield® irrigator affords immediate, direct, intraprocedural irrigation. Simply attach a 60cc syringe to the irrigation line, or use extension tubing to connect with your water pump for hands-free, foot pedal control.

0071**1133**
Olympus/Fujinon

0071**1137**
Pentax (not pictured)

Add a whole new level of efficiency to your endoscopy procedures with the BioShield® irrigator

immediate, direct irrigation with device in channel

*In order to achieve moderate irrigation pressure and minimize leakage, there must be sufficient room within the biopsy channel for fluid to pass when there is a device in place

convenience

product information

	part number	description	length (cm)	qty/box
Olympus & Fujinon (G5 series and newer) compatible				
	00711124* 00711125 00711128 00711135	biopsy valve (individually packaged) biopsy valve (20 per pack/10 packages) biopsy valve sterile (individually packaged) biopsy valve (individually packaged)	— — —	200 200 100
	00711126 00711129	biopsy valve (individually packaged) biopsy valve (20 per pack/10 packages)	— —	100 200
	00711133	irrigator	30.5	50
Pentax compatible				
	00711127	biopsy valve (individually packaged)	—	100
	00711136	biopsy valve (individually packaged)	—	100
	00711137	irrigator	30.5	50
universal irrigation accessories				
	00711131	universal irrigating adaptor	2.54 (adaptor)	50
	00711134	universal water pump extension tubing	180	50

*Not currently for sale in the United States

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