Technical update on PPH Technologies:

High quality, affordable NASG; balloon Tamponade; and haemostatic Agents

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Drivers of affordability and quality initiatives

- High cost of the original NASG
- Additional costs incurred through logistics inefficiencies
- Quality issues



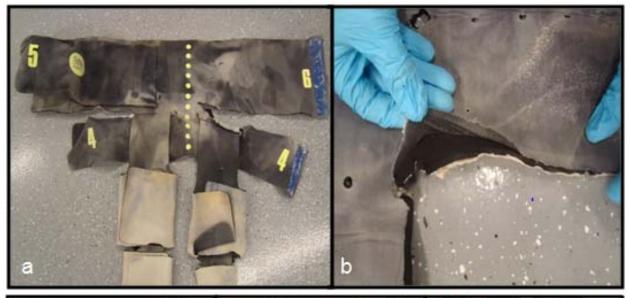


Process toward affordable, quality NASG

- Fingerprint mapping
- DMR (Device Master Record)
- Sourcing
- Quality plan
- Ordering



Process (finger print mapping)



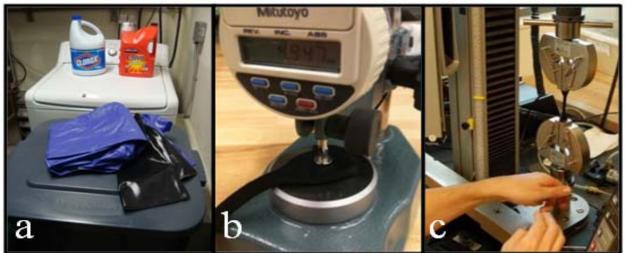
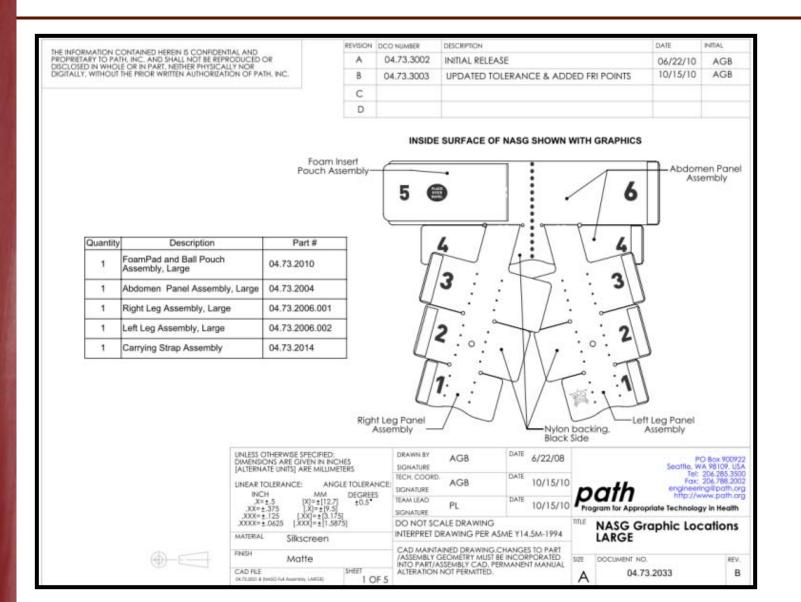




Photo collage credit: A. Beddoe, PATH

Process (DMR)





Process (sourcing)

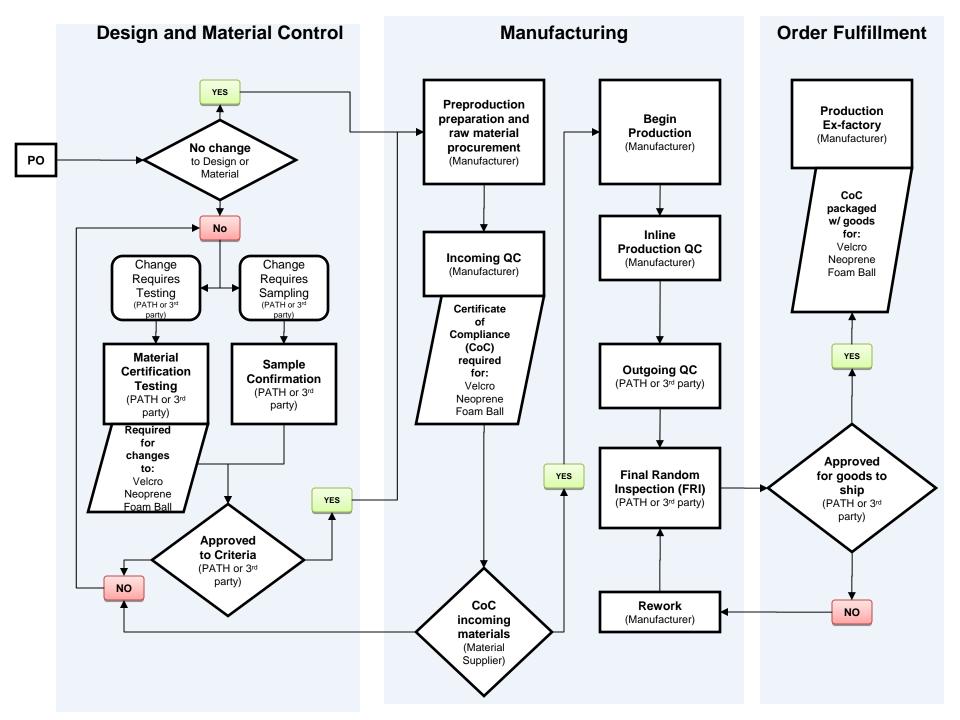




Process (Quality Plan)

- Ensures high quality of samples is carried out through production
- Development of the QP includes risk assessment, understanding supplier motives
- Qualified materials
- Final Inspection (3rd party) prior to shipment





Results

- Fully qualified large NASG manufacturer in China who can supply the garment at a price of US\$54 (freight on board [FOB]).
- Technology transfer completed to a large NASG manufacturer in India who can supply the garment at a price of US\$65 (FOB).
 Qualification of this manufacturer is still in progress.







Remaining challenges

- Vissco Indian supplier
- Multiple Sizes
- Demand, minimum order quantities and lead times

Cleaning logistics and protocol



Vissco

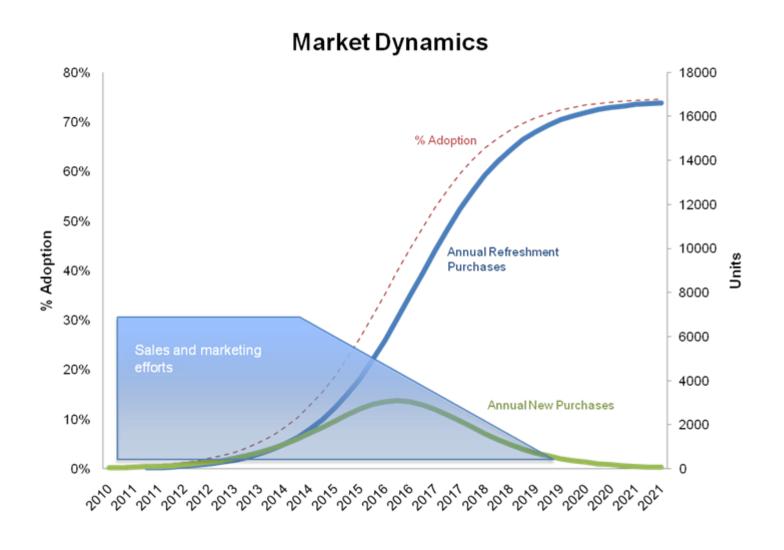








Demand, minimum order, lead times





NASG Sizes

	CURRENT	RECENT HISTORY	ANCIENT HISTORY
LARGE	standard geometry but with 4-5" added to panels 5 and 6	standard geometry but with 4-5" added to panels 5/6	standard geometry but with 4-5" added to panels 5 and 6
MEDIUM	standard geometry	standard geometry	standard geometry
SMALL	small geometry designed for India	N/A	N/A



Cleaning logistics and protocol





Other emerging PPH technologies

- Balloon tamponade
- Hemostatic agents







Hemostatic agents

- **Haemostatic agents:** have gained widespread use for pelvic surgery in last few years. Specifically, they are good for use in areas of difficult accessibility. (Shah, 2009)
- **Uterine Atony:** "FlowSeal delivered to the oozing area through single syringe, Hemostasis was achieved instantaneously recommended as an adjunct to conventional methods" (Moriarity, 2007)
- Challenges with mixing/packaging: Further research needs to be conducted to improve product use. Current challenges include ease of mixing, form factor not specifically designed for uterine application, delivery method, pre-measured dose packaging.
- Price negotiations



Large NASG ordering details

Price: \$53.76 USD FOB China

Lead time: 60 days

Minimum order: 1000 units

Manufacturer: Neil Pryde Performance Manufacturing, China

Orders placed to: Blue Fuzion Group Ltd- Hong Kong

http://www.bluefuziongroup.com/

Contact: julian.cosgrave@bfgroup.asia

Questions: contact Paul LaBarre, PATH; plabarre@path.org





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