

# NGPOD<sup>®</sup>



**ARE YOU A  
GUIDING LIGHT IN  
PATIENT SAFETY?**

**[www.ngpodglobal.com](http://www.ngpodglobal.com)**



**2-4%**  
of all tubes  
are misplaced in  
the respiratory tract<sup>1</sup>



**172** 'Never Events'  
associated with NG tube  
misplacement since  
2009



up to **45%**  
attempts to aspirate fail<sup>1</sup>



**45%** Never Events  
caused by X-Ray  
misinterpretation<sup>3</sup>

**6** Patient safety alerts + reports  
since 2005



Two Patient Safety Alerts (PSA) on  
"Reducing the harm caused by  
misplaced nasogastric tubes"  
released<sup>4</sup>

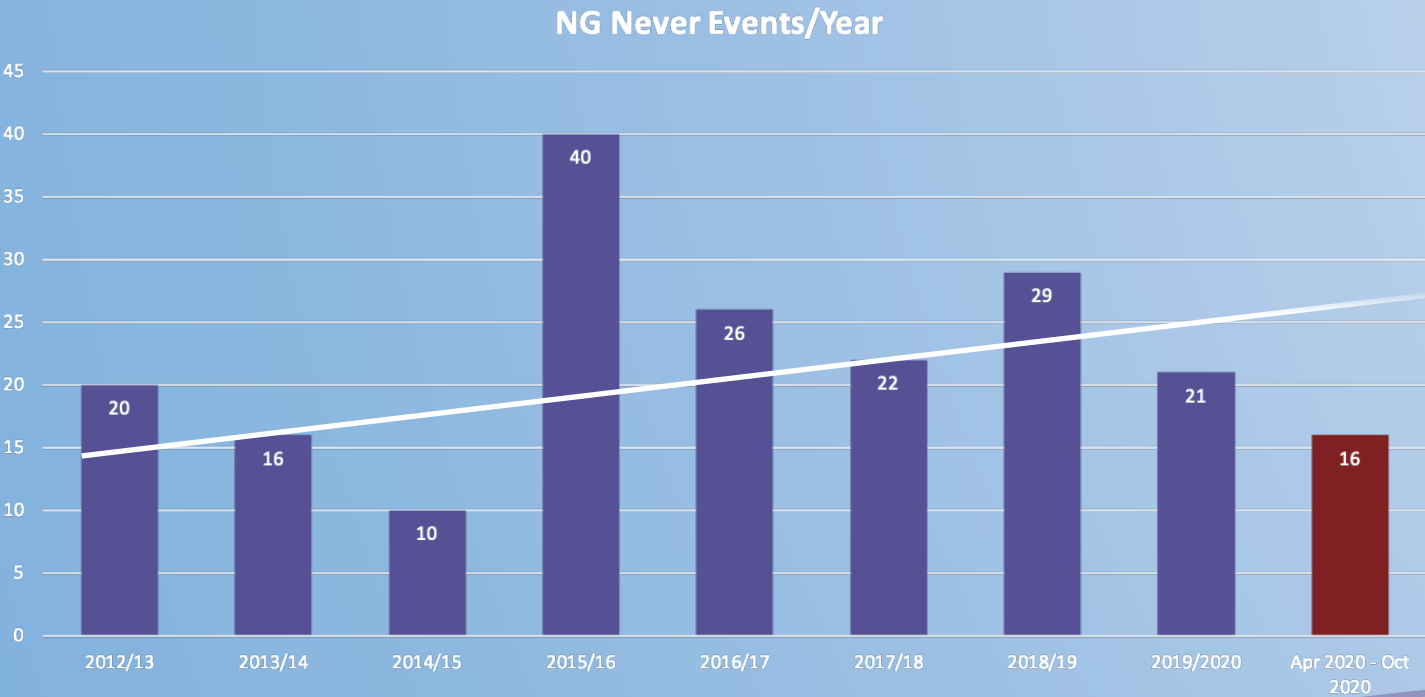
Third Patient Safety Alert  
released after further cases of  
death (29) & serious harm (79)<sup>5</sup>

Reaffirmed pH testing & x-ray as only  
methods of testing following use of  
electromagnetic device resulted in  
harm to patients<sup>7</sup>

BAPEN's NGSIG Position Paper  
"Time to Put Patient Safety First"



NG Tube 'Never Events'





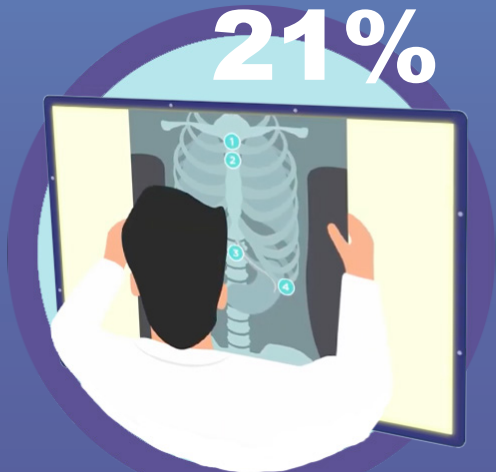
“pH testing is used as the first line test method, with pH between 1 and 5.5 as the safe range”<sup>5</sup>

“Comparing NGPOD® pH test to current NHS Trust practice for confirming the correct placement of a nasogastric (NG) tube”

NGPOD® Clinical Trial IRAS number 217641, ISRCTN14985496

NGPOD® pH test vs pH strip testing

	pH testing with pH strips 	pH testing with NGPOD® 
Requires aspirate?	YES	NO
Requires additional equipment?	YES	NO
% of tests where result is obtained	54.3% <sup>1</sup> - 83.9% <sup>9</sup>	93.5% <sup>9</sup>
Requires interpretation?	YES	NO
% Tests where result is clear	68% <sup>1</sup>	100% <sup>9</sup>
Prone to human factor errors?	YES	NO
% patients requiring x-ray	31% <sup>9</sup> - 45.7% <sup>1</sup>	24.5% <sup>9</sup>

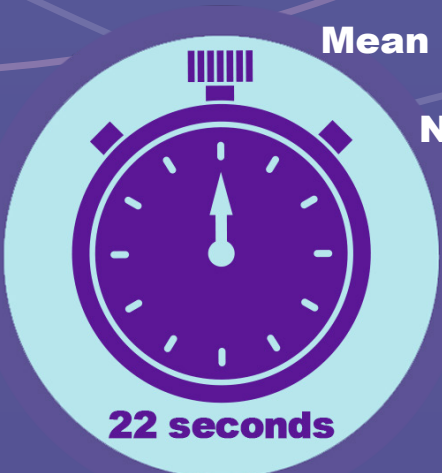


reduction in x-ray



Increase in successful pH testing

to 93.5%



Mean time to obtain NGPOD® result

22 seconds



More cost-effective than testing with pH strips<sup>10</sup>

From every **100** tests using **pH strips**, only **37** may result in a clear outcome..

# The NGPOD® System

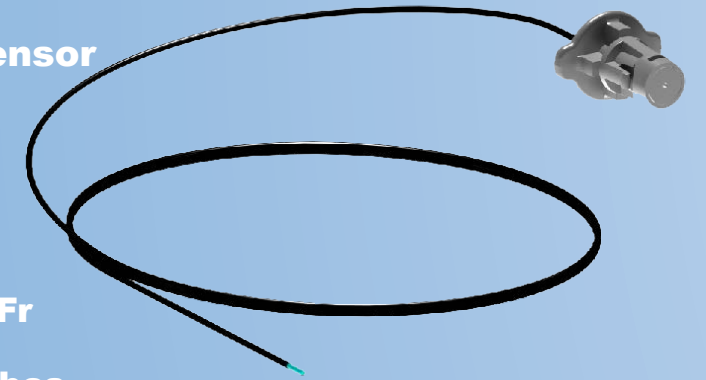
NGPOD®

## NGPOD® handheld device



- ✓ Rapid result [c.15 seconds]
- ✓ Handheld “bed side” test
- ✓ Simple to learn and operate
- ✓ Simple interpretation [YES/NO result]

## pH indicator tipped fibre-optic sensor



- ✓ No aspiration required
- ✓ Reduced requirement for x-ray
- ✓ Compatible with NG Tube +/- 6Fr
- ✓ Works with all brands of NG Tubes

Easy &



cost-effective to implement

No need



to change NG Tube!

Patient receives hydration, nutrition & medication without delay



Staff can be confident they have a clear result

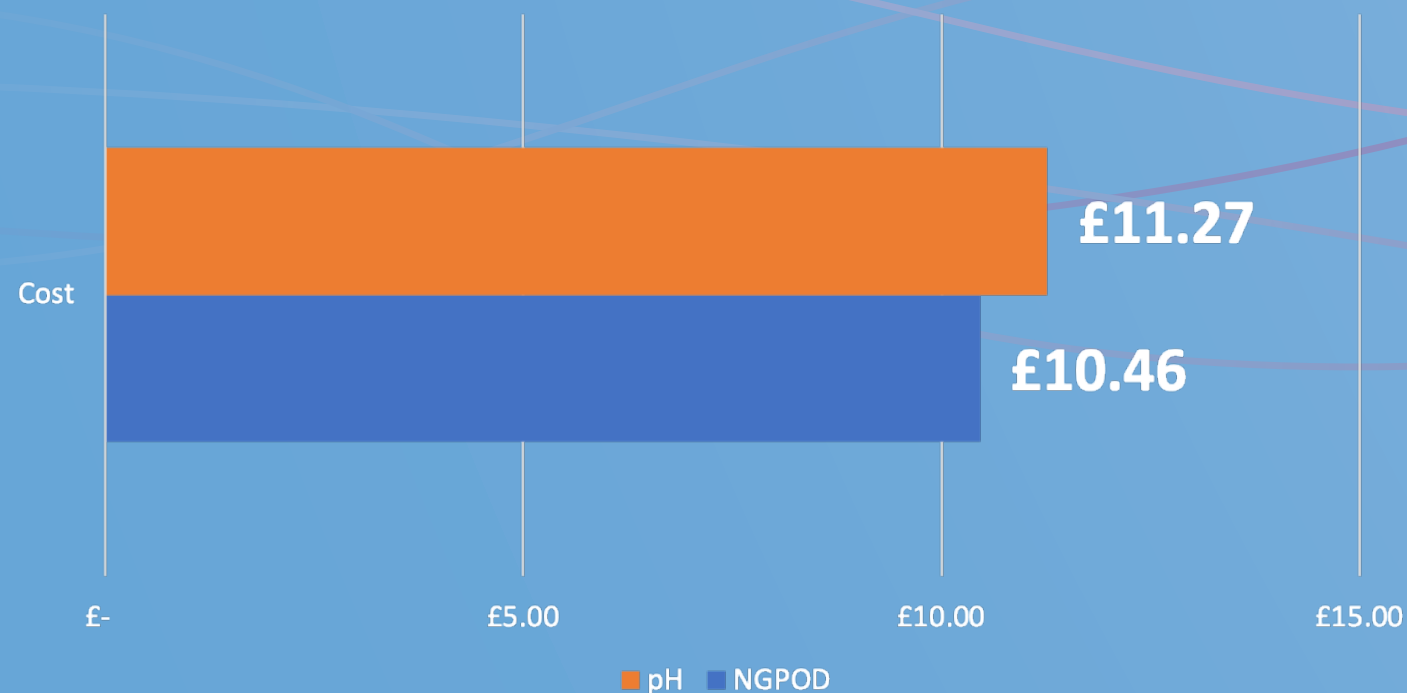


reducing anxiety & unnecessary x-ray



Reduced risk of human interpretation errors

Mean Cost/test





## STEP 1:

Turn on the NGPOD® handheld device

Observe the automatic start up self-test procedure

(RED-AMBER-GREEN)

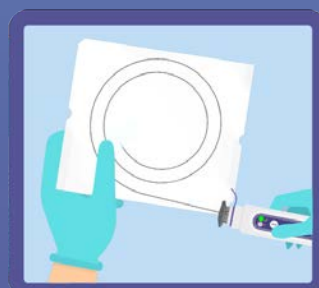


The device enters pre-test mode

## STEP 2:

Keep Sensor in packaging, open in the corner and connect the handheld device to the Sensor connector

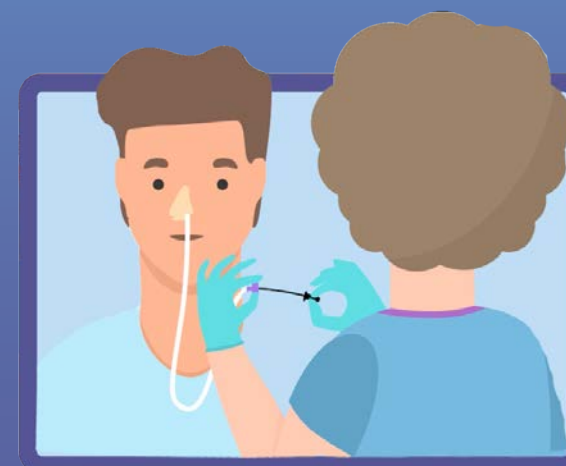
Both components perform an automatic pre-test sensor check, amber LED will be flashing 3 times followed by a red LED



If Green LED illuminates when Sensor is connected, device is ready to be used

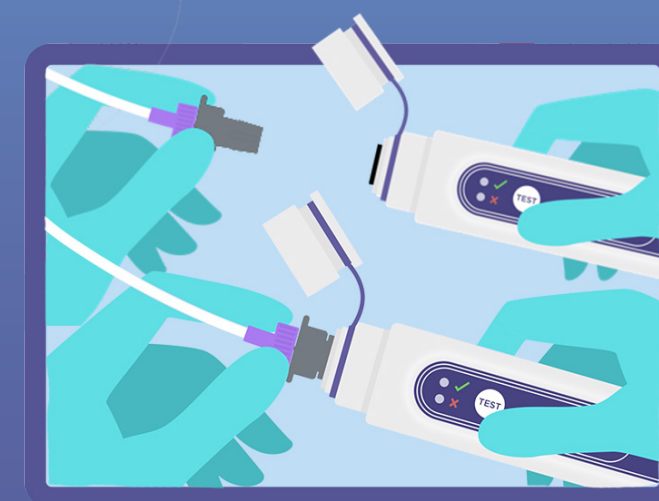
## STEP 3:

Insert Sensor down NG tube



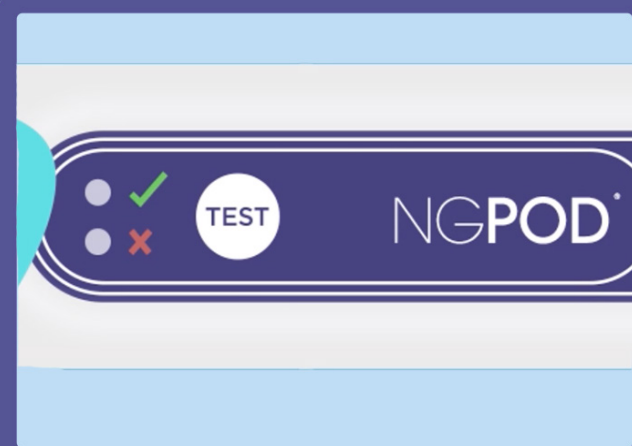
## STEP 4:

Connect the Sensor to the handheld device

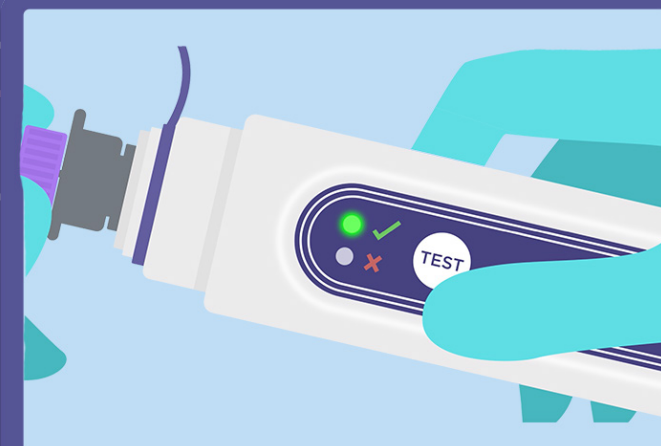


## STEP 5:

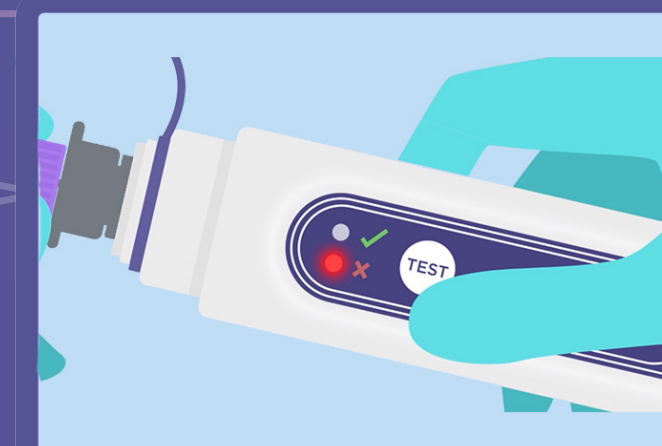
Press the TEST button



Green tick indicates that sensor is in an acidic environment pH < 5.5



Red cross indicates sensor is not in acidic environment or pH > 5.5



## STEP 6:

Dispose Sensor in clinical waste



The NGPOD® is available to purchase now.

Contact our customer support team today:

 +44 (0)161 696 6400

 [sales@ngpodglobal.com](mailto:sales@ngpodglobal.com)

Order Codes

	Direct Code	NHSSC Code	Unit of Sale
NGPOD® Handheld Device	NGPOD-01	FWM4155	1
pH Fibre-Optic Sensor - 92cm	NGPODSensor01-092	FWM4157	25

References

1. Borsci S, Buckle P, Huddy J, Alaestante Z, Ni Z, Hanna GB (2017) Usability study of pH strips for nasogastric tube placement. PLoS ONE 12(11): e0189013.

2. National Patient Safety Agency. Patient Safety Alert 05. Reducing the harm caused by misplaced nasogastric feeding tubes. 21 March 2005

3. NHS Improvement. Resource set Initial placement checks for nasogastric and orogastric tubes. July 2016 19

4. National Patient Safety Agency. Patient Safety Alert 09. Reducing the harm caused by misplaced nasogastric and orogastric feeding tubes in babies under the care of neonatal units. 18 August 2005

5. National Patient Safety Agency. Patient Safety Alert NPSA/2011/PSA002 Reducing the harm caused by misplaced nasogastric feeding tubes in adults, children and infants. 10 March 2011

6. NHS England. Patient Safety Alert NHS/PSA/W/2013/001. Placement devices for nasogastric tube insertion DO NOT replace initial position checks. December 2013

7. National Patient Safety Agency. Rapid Response Report NPSA/2012/RRR001. Harm from flushing of nasogastric tubes before confirmation of placement. 22 March 2012

8. NHS Improvement. Patient Safety Alert NHS/PSA/RE/2016/006. Nasogastric tube misplacement: continuing risk of death or severe harm. 22 July 2016

9. Data on File (Clinical Trial) NGPOD 2020

10. Data on File(HECON Analysis) NGPOD 2020



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