



nutrisafe2

PRODUCT GUIDE

WHY CHOOSE VYGON?



**OVER
60
YEARS
EXPERIENCE**

PATIENT CARE
LIES AT THE HEART
OF WHAT WE DO



**CLINICAL
EXPERTISE**



WE
ACHIEVED
**CARBON
NEUTRALITY**
2021 & 2022

MORE THAN
100 MILLION
PRODUCTS IN
110 COUNTRIES

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OUR SERVICE OFFERING



Customer Service & Technical Support

Talk through your enquiry with our dedicated Teams.



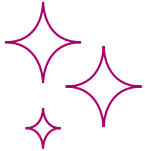
Education & Training

We offer our customers a variety of valuable and comprehensive training options to help you and your teams meet your training requirements.

IN NEONATOLOGY, THINK...



SAFE



CLEAN



ACCURATE



UTILISING OUR EXPERTISE IN NEONATOLOGY

Created in **2005** as a safe system fully incompatible with Luer systems, in advance of the creation of the ISO 80369 in 2016¹

Zero reported misconnections in
over **20 years** of clinical use

Satisfied customers from more than
40 countries



THE NUTRISAFE2 SYRINGE
HAS A **GREATER DOSING
ACCURACY** COMPARED
WITH ENFIT™ LDT SYRINGE



SAFE

Specially designed for neonatal patients, Nutrisafe2 is a unique safe enteral feeding system incompatible with Luer and other small-bore connectors in accordance with **ISO 80369-1** requirements. The risk of misconnection is minimised, and the patient's safety is increased.

The lockable system provides additional security. Accidental disconnection is practically impossible, ensuring precious nutrients are received.



CLEAN

NECROTISING ENTEROCOLITIS (NEC) DEVELOPS IN 5-10% OF PRETERM INFANTS IN ASSOCIATION WITH ENTERAL FEEDING AND BACTERIAL COLONIZATION²

Feeding tubes must not create extra risk to neonates by introducing bacteria into their digestive tract. Engineered to be 30% smaller, there is no need for the cleaning and disinfection protocols associated with ENFit™. Nutrisafe2 minimises the risk of microbial contamination, safeguarding the health and wellbeing of neonates.

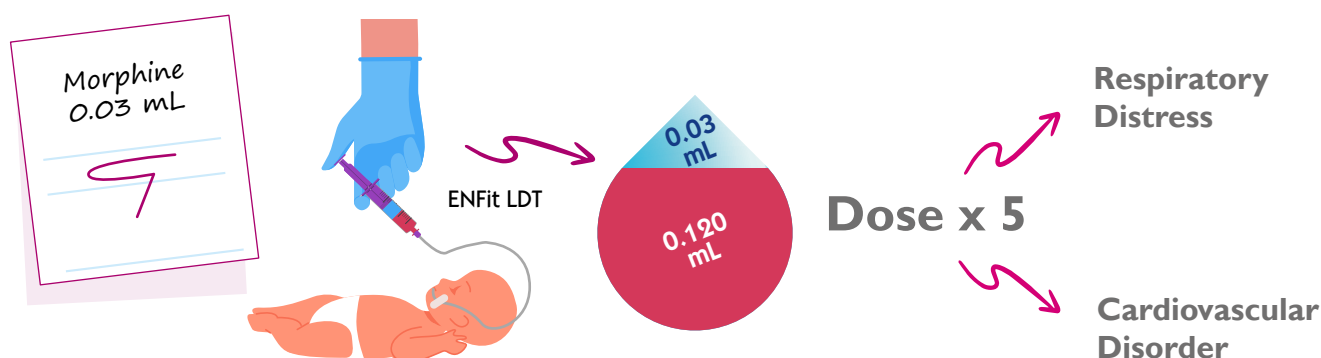


ACCURATE

Dose accuracy is of great importance in the NICU, especially for critical drug administration. Fluid displacement creates an overdosing risk when using the syringe.



FOR EXAMPLE



Using ENFit Low Dose Tip (LDT) in neonatology is more likely to result in administering higher than prescribed doses to the neonates.

SCIENTIFIC EVIDENCE ON ACCURACY

A study was published in **2023**⁵ comparing the accuracy of ENFit™ LDT syringes and Nutrisafe2 syringes was compared using the Dosing Variance calculation.

i

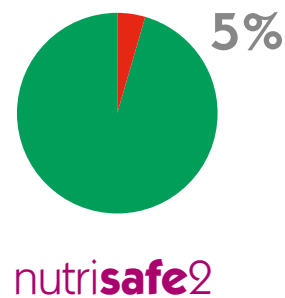
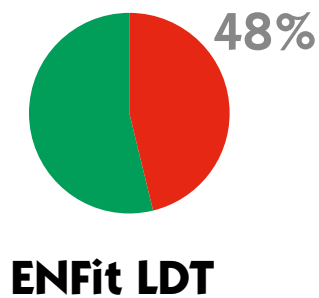
WHAT IS DOSING VARIANCE (DV)?

$$DV = \frac{\text{Actual Volume} - \text{Intended Volume}}{\text{Intended Volume}} \times 100$$

Dosing variance is acceptable within a range of +/- 10%

150 TESTS CONDUCTED FOR EACH TYPE OF SYRINGE.

Of those tests:

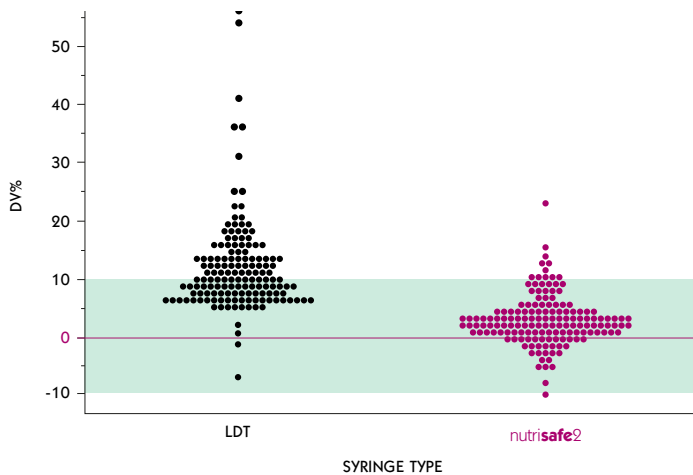


● Acceptable DV
● Unacceptable DV

MEAN ABSOLUTE DOSING VARIANCE

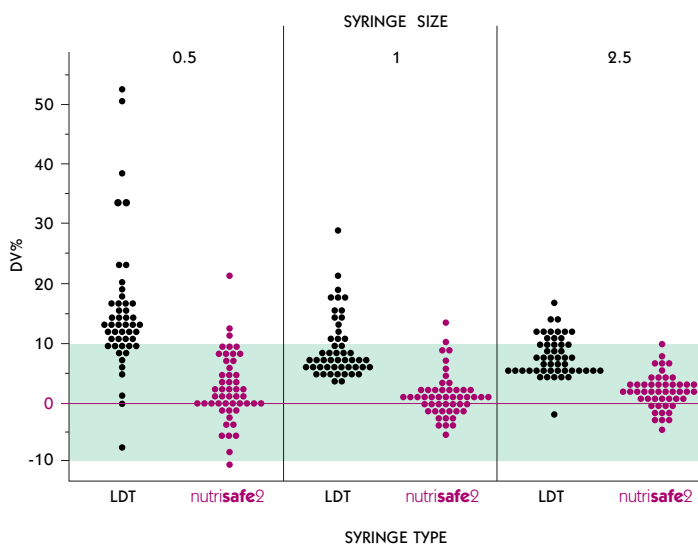


IN MORE DETAIL...



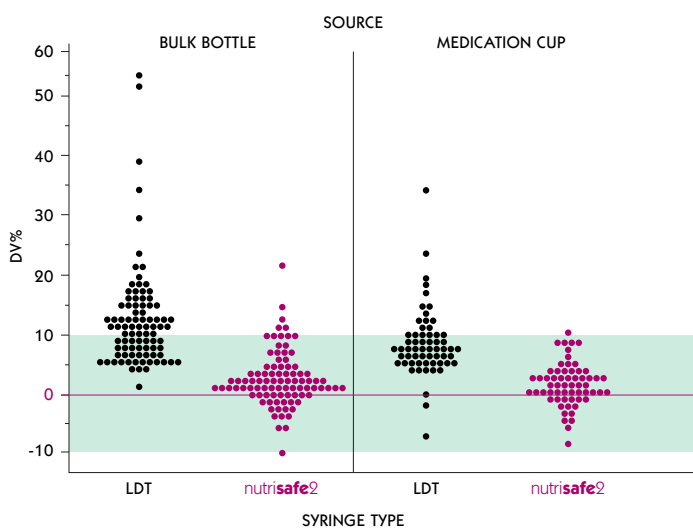
COMPARISON BETWEEN SYRINGE TYPE

Nutrisafe2 is **more accurate** than the ENFit™ LDT: **95%** of the Nutrisafe2 doses have an **acceptable** dosing variance.



COMPARISON BETWEEN SYRINGE TYPES AND SIZE

Dosing variance **increases** while the syringe volume decreases. However, Nutrisafe2 still has a mean variance within the **acceptability range** for all volumes.



INFLUENCE OF ADAPTOR AND MEDICATION CUP

Bulk bottle **adaptors don't fix the inaccuracy issue** with the ENFit **LDT**. Medication cups were associated with acceptable dosing variance. However, Nutrisafe2 is **more accurate** with these accessories.

ADDRESSING THE RISKS OF RESIDUE BUILD-UP IN ENFIT™ CONNECTORS

ENFit feeding connectors, by their design, are susceptible to accumulating debris and residue inside the tubing. This can lead to several complications, including increased risk of infection.

Maintaining a rigorous cleaning routine is crucial. However, a recent study revealed that even with thorough cleaning, a significant percentage of ENFit connectors still harboured residue, posing a potential health threat.

INVESTIGATORS FOUND ONLY 35 (31%)
AND 13 (16%) OF THE ENFIT CONNECTORS
TO HAVE ZERO RESIDUE, RESPECTIVELY.⁶

HOW DOES NUTRISAFE2 COMBAT THIS?

Its unique design features a smoother interior, significantly reducing the space for milk, medication, or formula to become trapped, thereby minimising the risk of infection associated with ENFit connectors.

Furthermore, the compact size of Nutrisafe2, 30% smaller than ENFit connectors, eliminates the need for cleaning protocols. This translates to a reduced risk of microbial contamination, ultimately safeguarding the health of neonates.

DID YOU KNOW?

The Global Enteral Device Supplier Association (GESDA) recommends that ENFit tubes and caps should be cleaned each day and anytime there is medication or feed build up.

FEEDING TUBES

POLYURETHANE FEEDING TUBES

WITHOUT STYLET

Designed for neonatal patients and newborns, the PUR Nutrisafe2 feeding tubes are intended to be used for medium-term (up to 29 days) and feature the following characteristics:

- Made of PUR
- Closed distal tip with 2 lateral eyes
- Small cap with colour code to quickly identify the size
- Numerical markings every centimetre:
 - from 5cm to 35cm for codes 001364, 001361 & 001363
 - from 5cm to 70cm for codes 001362 & 001365
- Radiopaque line from 4Fr to 6Fr, and $\frac{3}{4}$ radiopaque tubing from 8Fr
- Transparent to better visualise the administered solution.

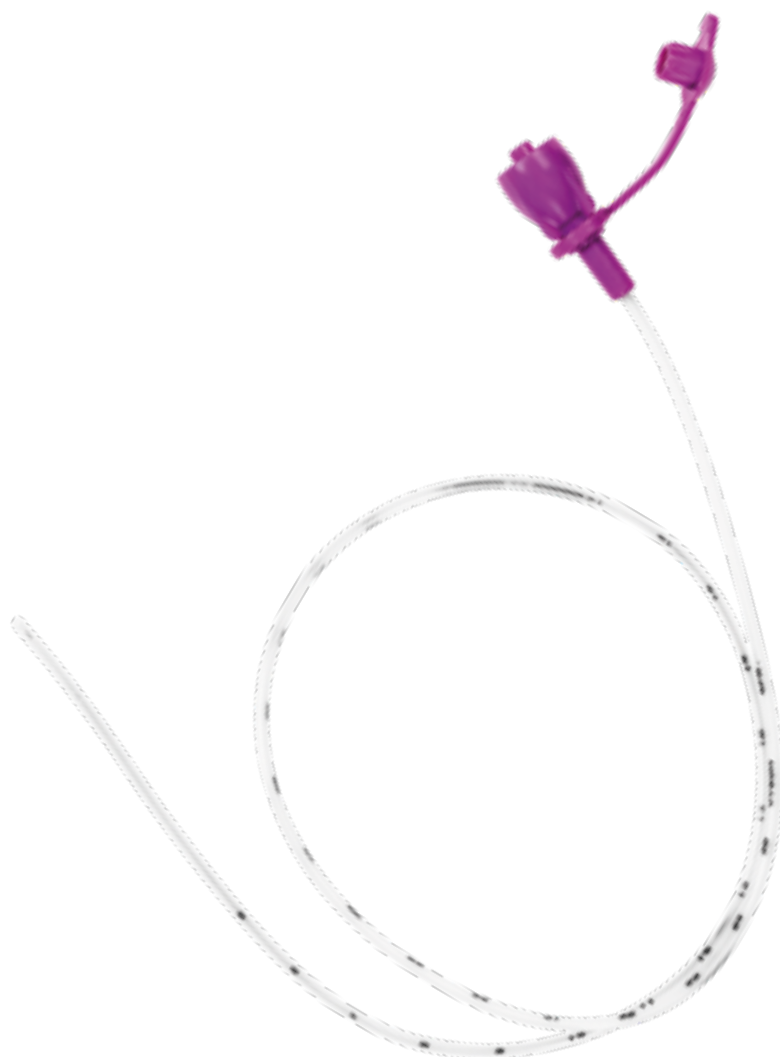


Code	Tube					Colour code	Quantity
	Length cm	Fr	Ext. Ø mm	Int. Ø mm	Prim. vol. mL		Box/ case
001364042	40	4	1.5	0.8	0.26	Purple	25/600
001364052	40	5	1.7	1	0.38	Grey	25/600
001364062	40	6	2	1.2	0.53	Green	25/600
001364082	40	8	2.5	1.5	0.8	Blue	25/600
001361042	50	4	1.5	0.8	0.31	Purple	50/600
001361052	50	5	1.7	1	0.46	Grey	50/600
001361062	50	6	2	1.2	0.64	Green	50/600
001361082	50	8	2.5	1.5	0.97	Blue	50/600
001363042	75	4	1.5	0.8	0.44	Purple	25/600
001363052	75	5	1.7	1	0.66	Grey	25/600
001363062	75	6	2	1.2	0.92	Green	25/600
001363082	75	8	2.5	1.5	1.4	Blue	25/600
001362042	125	4	1.5	0.8	0.69	Purple	25/600
001362052	125	5	1.7	1	1.05	Grey	25/600
001362062	125	6	2	1.2	1.5	Green	25/600
001362082	125	8	2.5	1.5	2.3	Blue	25/600

HIGH FLOW WITHOUT STYLET

Designed for neonatal patients needing a higher flowrate, the 4Fr High Flow polyurethane feeding tube enables the flow rate to be increased by 48%⁷. It is intended to be used up to 29 days and features the following characteristics:

- Made of PUR
- Closed distal tip with 2 lateral eyes
- Small cap with colour code to quickly identify the size
- Numerical markings every centimetre from 5cm to 35cm
- Radiopaque line
- Transparent to better visualise the administered solution.

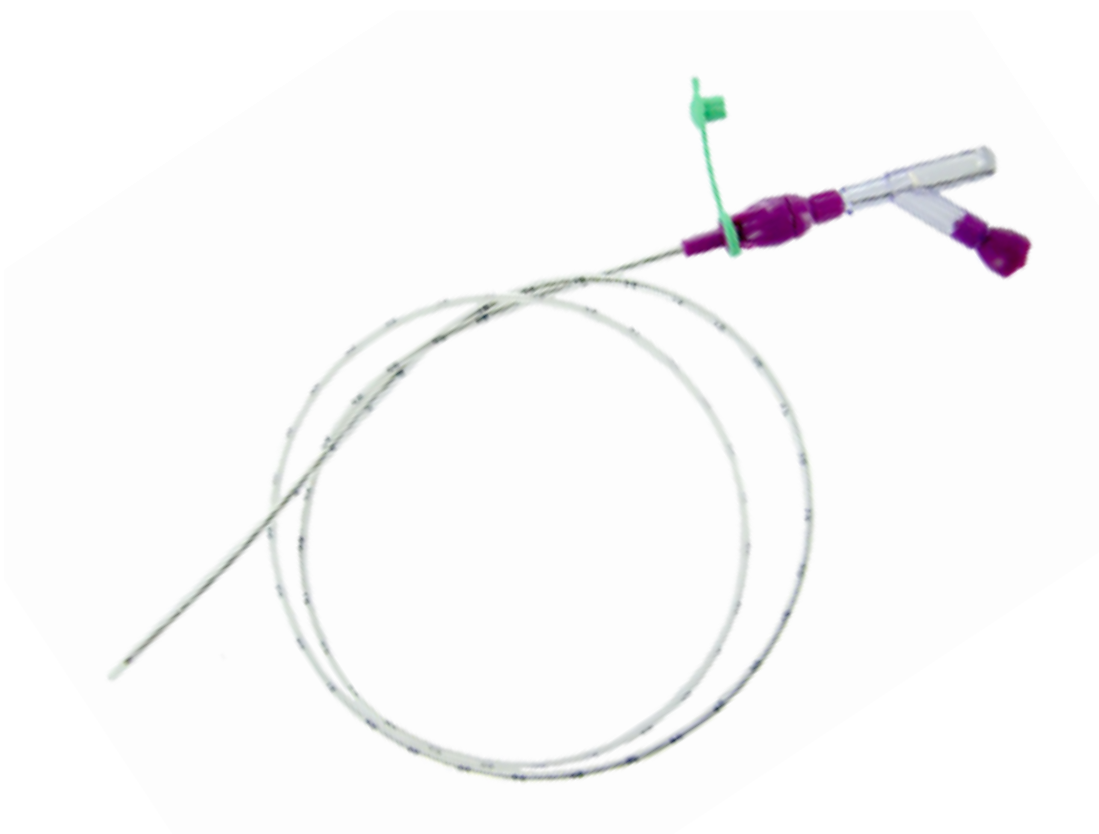


Code	Tube					Colour code	Quantity
	Length cm	Fr	Ext. Ø mm	Int. Ø mm	Prim. vol. mL		Box/ case
0013640425	40	4	1.5	1	0.38	Purple	25/600

WITH STYLET

Designed for neonatal patients and newborns, the PUR Nutrisafe2 feeding tubes are intended to be used for medium-term (up to 29 days) and feature the following characteristics:

- Made of PUR
- Stylet protected by a ball end to facilitate the placement
- Closed or open distal tip with 2 lateral eyes
- Small cap with colour code to quickly identify the size
- Numerical markings every centimetre:
 - from 5cm to 35cm for code 001363
 - from 5cm to 70cm for code 001362
- Radiopaque.



Code	Tube					Distal tip	Colour code	Quantity
	Length cm	Fr	Ext. Ø mm	Int. Ø mm	Prim. vol. ml			Box/ case
0013630621	75	6	2	1.2	0.93	Closed	Green	25/300
0013630821	75	8	2.5	1.7	1.8	Closed	Blue	25/300
0013630822	75	8	2.5	1.7	1.8	Open	Blue	25/300
0013620621	125	6	2	1.2	1.5	Closed	Green	25/300
0013620821	125	8	2.5	1.7	2.9	Closed	Blue	25/300
0013620822	125	8	2.5	1.7	2.9	Open	Blue	25/300

FEEDING TUBES

PVC FEEDING TUBES

Especially designed for neonatal patients and newborns, the PVC Nutrisafe2 feeding tubes are intended to be used for short-term (up to 5 days) and feature the following characteristics:

- Made of PVC
- Closed distal tip with 2 lateral eyes
- Small cap with colour code to quickly identify the size of the tube
- Numerical markings every centimetre:
 - from 5cm to 35cm for codes 00364, 00361 & 00363
 - from 5cm to 70cm for code 00362
- Radiopaque
- Transparent to better visualise the administered solution.



Code	Tube					Colour code	Quantity
	Length cm	Fr	Ext. Ø mm	Int. Ø mm	Prim. vol. mL		Box/ case
000364042	40	4	1.5	0.8	0.24	Purple	25/600
000364052	40	5	1.7	1.0	0.36	Grey	25/600
000364062	40	6	2.0	1.2	0.51	Green	25/600
000364082	40	8	2.5	1.5	0.78	Blue	25/600
000361042	50	4	1.5	0.8	0.28	Purple	50/600
000361052	50	5	1.7	1.0	0.43	Grey	50/600
000361062	50	6	2.0	1.2	0.60	Green	50/600
000361082	50	8	2.5	1.5	0.93	Blue	50/600
000363042	75	4	1.5	0.8	0.41	Purple	25/600
000363052	75	5	1.7	1.0	0.62	Grey	25/600
000363062	75	6	2.0	1.2	0.89	Green	25/600
000363082	75	8	2.5	1.5	1.37	Blue	25/600
000362042	125	4	1.5	0.8	0.66	Purple	25/600
000362052	125	5	1.7	1.0	1.02	Grey	25/600
000362062	125	6	2.0	1.2	1.45	Green	25/600
000362082	125	8	2.5	1.5	2.25	Blue	25/600

SILICONE FEEDING TUBES

WITHOUT WEIGHTED TIP

Designed for neonatal patients and newborns, the silicone gastro-duodenal Nutrisafe2 feeding tubes are intended to be used for a maximum of 29 days and feature the following characteristics:

- Made of silicone
- Closed distal tip with 2 lateral eyes
- Small cap with colour code to quickly identify the size
- Numerical markings every centimetre:
 - from 5cm to 35cm for code 002331
 - from 5cm to 70cm for code 002332
- Radiopaque
- Transparent to visualise the administered solution.



Code	Tube					Colour code	Quantity
	Length cm	Fr	Ext. Ø mm	Int. Ø mm	Prim. vol. mL:		Box/case
002331042	50	4	1.5	0.8	0.29	Purple	10/480
002331052	50	5	1.7	1	0.44	Grey	10/480
002331062	50	6	2	1.2	0.62	Green	10/480
002331082	50	8	2.5	1.5	0.96	Blue	10/480
002332042	125	4	1.5	0.8	0.66	Purple	10/480
002332062	125	6	2	1.2	1.44	Green	10/480
002332082	125	8	2.5	1.5	2.34	Blue	10/480

SILICONE FEEDING TUBES

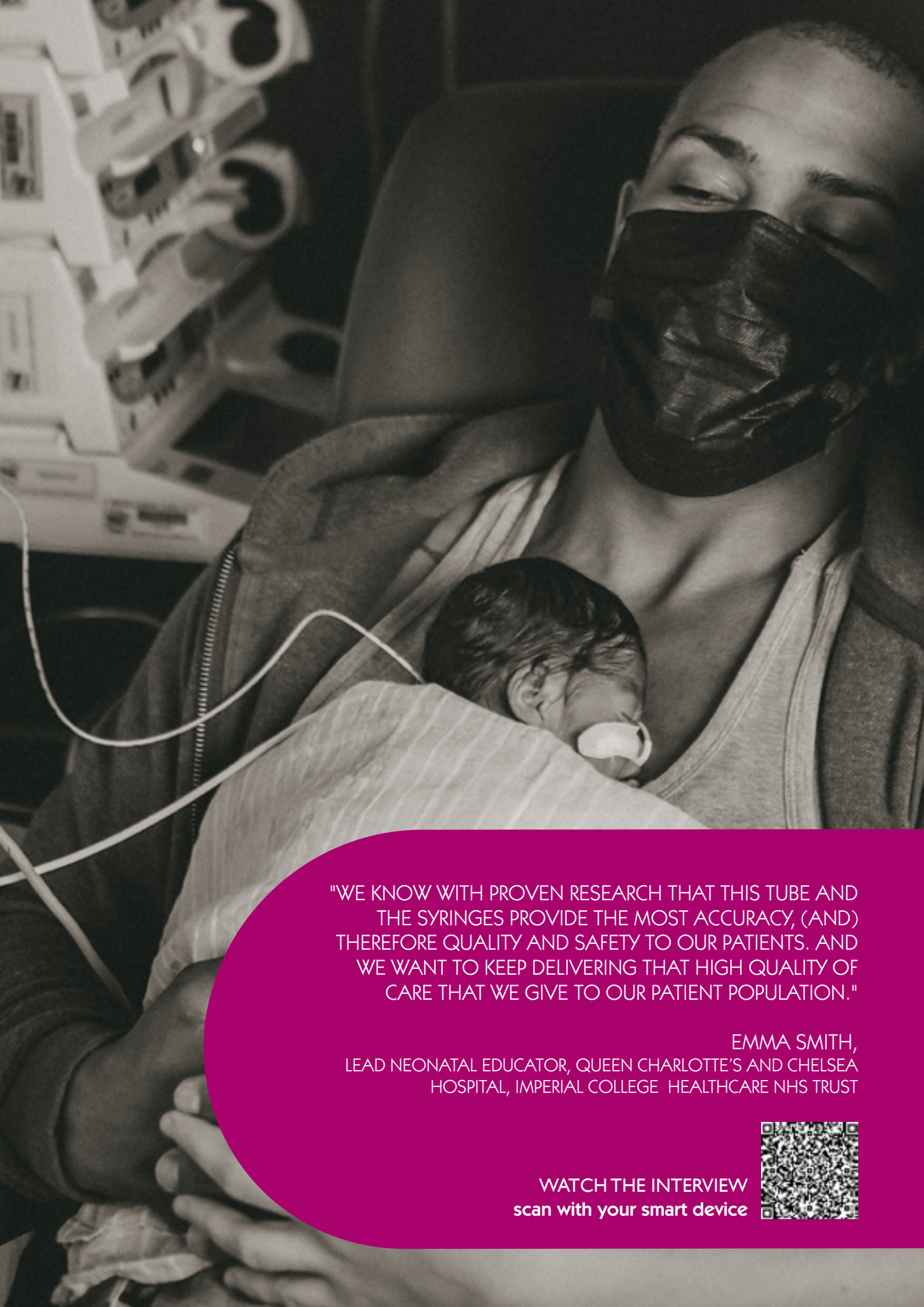
WITH WEIGHTED TIP

Designed for neonatal patients and newborns, the silicone gastro-duodenal Nutrisafe2 feeding tubes with weighted tip are intended to be used up to 29 days and feature the following characteristics:

- Made of silicone
- Weighted tip with metallic olive
- Closed distal tip with 2 lateral eyes
- Small cap with colour code to quickly identify the size
- Numerical markings every centimetre from 5cm to 70cm
- Radiopaque
- Transparent to visualise the administered solution.



Code	Tube					Colour code	Quantity
	Length cm	Fr	Ext. Ø mm	Int. Ø mm	Prim. vol. mL		Box/case
002395062	125	6	2.0	1.0	1.0	Green	10/480
002395082	125	8	2.5	1.3	2.21	Blue	10/480



"WE KNOW WITH PROVEN RESEARCH THAT THIS TUBE AND THE SYRINGES PROVIDE THE MOST ACCURACY, (AND) THEREFORE QUALITY AND SAFETY TO OUR PATIENTS. AND WE WANT TO KEEP DELIVERING THAT HIGH QUALITY OF CARE THAT WE GIVE TO OUR PATIENT POPULATION."

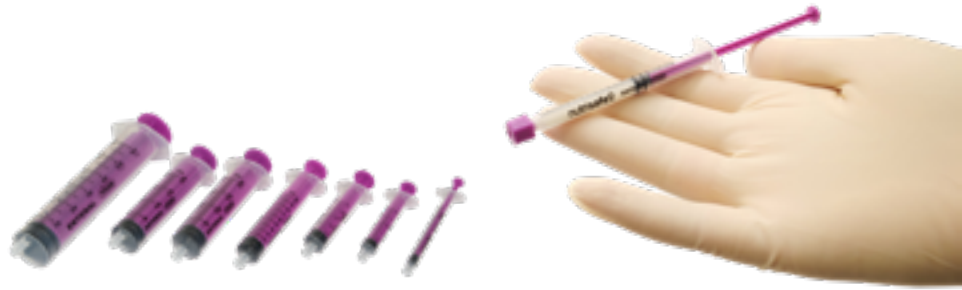
EMMA SMITH,
LEAD NEONATAL EDUCATOR, QUEEN CHARLOTTE'S AND CHELSEA
HOSPITAL, IMPERIAL COLLEGE HEALTHCARE NHS TRUST

WATCH THE INTERVIEW
scan with your smart device



SYRINGES

VY-P SYRINGES



Code	VY-P Syringes				Quantity
	Cap	Volume mL	Graduation every	Nutrisafe2 connection	Box/case
001015014	No	1	0.01 mL	Centered, slip	100/2400
001015024	No	2.5	0.1 mL	Centered, slip	100/2000
001015054	No	5	0.2 mL	Centered, lockable	100/1600
001015104	No	10	0.2 mL	Centered, lockable	100/1000
001015204	No	20	0.5 mL	Centered, lockable	80/800
001015214	No	20	0.5 mL	Offset, lockable	80/800
001015604	No	60	1 mL	Offset, lockable	60/240
0010151041	Yes	10	0.2 mL	Centered, lockable	100/1000
1015.2141	Yes	20	0.5 mL	Offset, lockable	80/800
1015.6041	Yes	60	1 mL	Offset, lockable	60/240

RE-USABLE SYRINGES

The VY-P Nutrisafe2 reusable syringes have been specifically designed for homecare enteral nutrition and medication. The syringes incorporate a purple-coloured plunger and “Enteral” print, enabling instant identification for enteral use.

These syringes are sterile (for the first use) and individually packed.



Code	Re-usable syringes			Quantity
	Volume mL	Graduation every mL	nutrisafe2 connection	Box/case
001012014	1	0.01	Centered, slip	100/2400
001012024	2.5	0.1	Centered, slip	100/2000
001012054	5	0.2	Centered, lockable	100/1600
001012104	10	0.2	Centered, lockable	100/1000
001012204	20	0.5	Centered, lockable	80/800
001012604	60	1	Offset, lockable	60/240

ACCESSORIES

EXTENSION LINE

STANDARD EXTENSION LINES

These Nutrisafe2 extension lines keep the feeding tube away from the syringe driver to improve patients comfort and help to avoid tube dislodgement:

- Purple-coloured PVC extension line
- Standard bore for standard milk formula or large bore for fortified milk
- Attached cap to close the line helping to prevent contamination.



Code	Standard extension tube				Quantity
	Length cm	Ext. Ø mm	Int. Ø mm	Prim. vol. mL	Box/case
000368032	30	2.5	1.5	0.62	50/300
000368102	100	2.5	1.5	1.86	50/300
000368152	150	2.5	1.5	2.74	50/300
000369152	150	4.0	2.8	9.4	25/300

EXTENSION LINE WITH CLAMP

This device gives extended connection to pumps and allows greater freedom of movement for the patients:

- Purple-coloured PVC extension tube
- Roberts clamp
- Attached cap to close the tube.



Code	Extension tube with clamp				Quantity
	Length cm	Ext. Ø mm	Int. Ø mm	Prim. vol. mL	Box/case
0003681021	100	2.5	1.5	1.86	50/300
0003681521	150	2.5	1.5	2.74	50/300

EXTENSION SETS FOR GASTROSTOMY BUTTON

Extension sets allow you to connect a Nutrisafe2 syringe or a Nutrisafe2 pump administration set to a gastrostomy button for feeding or medication.

Two distal tips are available:

- Straight tip for bolus dose administration
- Curved tip for continuous feeding.



Code	Extension line for gastrostomy button					Quantity
	Length cm	Ext. Ø mm	Int. Ø mm	Prim. vol. mL	Distal connection	Box/case
0053071103	30	6	4.2	4.5	Straight	10/120
0053072103	30	4.2	3	2.4	Curved to 90°	10/120
0053071106	60	6	4.2	8.7	Straight	10/120
0053072106	60	4.2	3	4.6	Curved to 90°	10/120

SYRINGE ACCESSORIES

VENTED CAPS

Vented caps are used for Nutrisafe2 syringes (20 and 60mL) to enable gravity feeding and to protect the feed from contamination.



Code	nutrisafe2 syringe	Syringe capacity	Quantity
	Type	Volume	Box/case
00081822	VY-P	20mL	30/240
00081862	VY-P	60mL	30/240

MALE CAPS FOR NUTRISAFE2 SYRINGES



Code	Packaging	Quantity (box/case)
00082801	Individually packed	100/4800
00082808	Pack containing 8 caps	100/1800

HOLDER FOR NUTRISAFE2 SYRINGES

Designed to hold 20mL and 60mL Nutrisafe2 syringes in vertical position for gravity feeding.
Easy screw fixation, for attachment to any vertical bar.

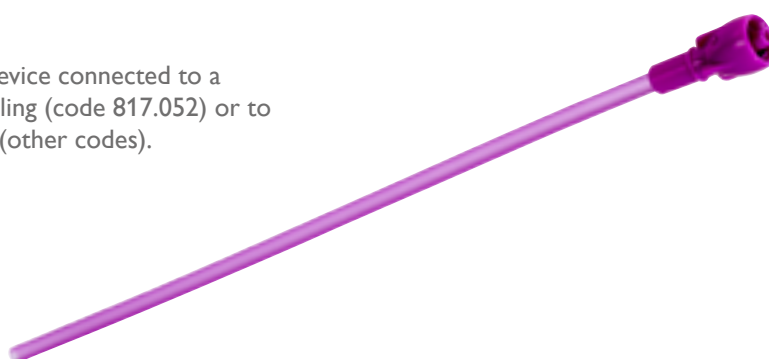
Code	Quantity (box/case)
000367011	5/120



SAMPLING DEVICES

DRAWING-UP STRAWS

The Nutrisafe2 drawing-up straw is a device connected to a Nutrisafe2 syringe for medication sampling (code 817.052) or to fill the syringe with milk / milk formula (other codes).



Code	Drawing-up straw				Quantity
	Length cm	Int. Ø mm	Ext. Ø mm	Prim. vol. mL	Box/case
000817052	5	1.2	2.0	0.11	100/1800
000817152	15	2.0	3.3	0.55	50/900
000817153	15	3.0	4.2	1.2	50/900
000817154	15	1.5	2.5	0.33	50/900
000817202	20	2.0	3.3	0.71	50/900
000817203	20	3.0	4.2	1.5	50/900
000817302	30	3.0	4.2	2.2	50/600
000817502	50	2.0	3.3	1.6	20/240

DRAWING-UP STRAW WITH FILTER

This drawing-up straw incorporates:

- A male Nutrisafe2 connector
- A 5µm filter.



Code	Drawing-up device			Quantity
	Length cm	Ext. Ø mm	Int. Ø mm	Box/case
000817105	10	2.5	1.5	50/900

AMPOULE SAMPLING NEEDLE

This needle is designed to aspirate medications from an ampoule to administer the medication orally, via a feeding tube or via a gastrostomy device.

Features:

- Male Nutrisafe2 connector
- No filter
- Length: 52 mm
- External diameter: 1.1mm.

Code	Quantity (box/case)
00817002	100/1800



LOCKABLE BOTTLE CAP FOR SAMPLING

These Nutrisafe2 caps can be used with a large variety of vials to replace the original cap. Once the cap is in place, the content can only be sampled with a Nutrisafe2 syringe for enteral use. Duration of use up to 30 days.

Non-sterile and individually packed.

Compliant NF H35-49



Code	Cap	Quantity
	Ø mm	Box/case
00082018	18	20/1920
00082020	20	20/1920
00082022	22	20/1920
00082028	28	20/1920

NEEDLELESS VIAL ACCESS CAP

These devices are designed to perforate sealed vials. The contents of the vial can then be aspirated using a Nutrisafe2 syringe. After sampling, the vial can be stored with the Nutrisafe2 access cap in place with its attached closing cap. Hence, it is secured against accidental access with a standard syringe or hypodermic needle.



Code	Compatibility	Quantity
	Vial Ø mm	Box/case
00821012	14	50/400
00821022	20	25/200

NUTRISAFE2 SPIKE

Connected to a Nutrisafe2 syringe, this device allows medication sampling from vials with a rubber cap. Features a spike at the proximal end, as well as a male NS2 connection with cap.



Code	Spike		Quantity
	Length mm	Prim. vol. mL	Box/case
00281062	31.5	0.51	10/240

OTHER ACCESSORIES

CAP FOR NUTRISAFE2 FEEDING TUBES

Purple-coloured obturator female cap for Nutrisafe2 feeding tubes.
Individually packed.

Code	Quantity (box/case)
00082901	100/4800



NUTRISAFE2 - ENFIT™ ADAPTOR

The Nutrisafe2 - ENFit adaptor is indicated for enteral use only.
It enables the connection between a female ENFit connector (e.g. distal end of an ENFit administration pump set) and a male Nutrisafe2 connector (e.g. a Nutrisafe2 feeding tube).

Priming volume: 0.10mL

Code	Quantity (box/case)
00036872	100/1800



ENFIT - NUTRISAFE2 ADAPTOR

The ENFit - Nutrisafe2 adaptor is indicated for enteral use only.
It enables the connection between a female Nutrisafe2 connector (e.g. Nutrisafe2 syringe) and a male ENFit connector (e.g. a Nutrifit feeding tube).

Priming volume : 0.25 mL

Non-sterile

Code	Quantity (box)
0VEACC510	300



GRIPLOK® SECUREMENT DEVICE

Designed to secure enteral feeding tubes (and nasal cannulae), this device features:

- Fixation with hydrocolloid adhesive
- Griplik technology that allows re-opening in order to get access to the tube to be cleaned or repositioned.

The Griplik securement device can be cut in half in order to reduce its size.

Code	Quantity (box/case)
00580411	50/1000



3-WAY STOPCOCK

The 3-way stopcocks allow the delivery of medication without disconnecting feed. They incorporate a female Nutrisafe2 port to connect to Nutrisafe2 feeding tubes and 2 male ports.

Code 005802.02 is chemically more resistant.

Code	Stopcock		Prim. vol. mL	Quantity
	Tested at bar	Material		Box/case
00580201	10	Polycarbonate	0.26	50/300
00580202	-	Polyamide	0.26	50/300



SYRINGE-SYRINGE TRANSFER DEVICE

Connector to transfer medications contained in a Nutrisafe2 syringe into another, without need for intermediary or another container.

Code	Quantity (box/case)
00036822	30/2880



GASTRIC ASPIRATION

DUAL FLOW GASTRIC TUBE

Dual flow gastric tube for continuous gastric aspiration with Nutrisafe2 connection:

- Made of PVC
- The main channel is fitted with a removable taper connector (code 00036812)
- The extension tube of the secondary channel ends with a male Nutrisafe2 hub
- Closed distal tip with 6 lateral eyes
- Numerical markings every centimetre from 5cm to 45cm
- Radiopaque
- The product is also supplied with a straight double tapered connector
- Length: 60 cm
- Transparent to visualise the administered solution.

Code	Quantity (box/case)
00340062 (6Fr)	10/180
0040082 (8Fr)	10/180



FEED SET ADAPTOR

Adaptor to connect pump administration sets to Nutrisafe2 feeding tubes.

Code	Quantity (box/case)
00036802	30/2880



Y CONNECTOR

The Y connector allows delivering medication without disconnecting feed.

Y connector features Nutrisafe2 connections:

- 2 male ports at the proximal end
- 1 female port at the distal end

Priming volume: 0.44mL.

Code	Quantity (box/case)
00036842	50/300



OUR COMMITMENT TO THE ENVIRONMENT

2021 was a landmark year as Vygon UK achieved carbon neutrality in accordance with the guidance set out in PAS 2060, with certification renewed in 2022 as year-on year emission reductions were achieved and the residual emissions were offset with the purchase of high-quality Verified Carbon Standard (VCS) emission reduction projects. Vygon are in the process of expanding its emissions reporting to include Scope 3 emissions, this will involve a baseline year reset and result in reporting higher emissions than in previous years and therefore, unable to purchase carbon credits. Following the baseline year and emission targets reset, our focus will be to regain Carbon Neutral status.

We are delighted to announce that Vygon UK has successfully undergone the NHS Evergreen Sustainable Supplier Assessment, attaining level 2 status. This is key to supporting us to understand how we align to the NHS's long term sustainability priorities and the pathway to progress.

These accomplishments underscore our unwavering dedication to sustainable practices and reinforces our role as a responsible contributor to the healthcare system.



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