

# CASE STUDY



## THE PROBLEM:

Trust needs to reduce amount of plastic packaging

## THE SOLUTION:

Review alternative products with less packaging

## THE RESULT:

Alternative product is almost identical but all plastic packaging is removed

### BRIEF

Endoscopy Team has successfully purchased an alternative Polyp trap product and eliminated 100% of the plastic packaging from the product.

This would be disposed of in our domestic waste stream.



Previous Polytraps were £8.27  
EACH – A box of 25 were £206.70

ON AVERAGE – 2 boxes a WEEK =  
£413.40 X 52 WEEKS - £21,496



**APPROXIMATELY SAVING £6,670  
FOR THE SAME PRODUCT**  
(Now being used at The Royal  
Stoke for over 12 Months).



New Polytraps are £5.94  
EACH - A box of 25 is  
£142.56

ON AVERAGE - 2 boxes a  
WEEK ARE £285.12 X 52  
WEEKS = £14,826



# BIG ACHIEVEMENTS

MR64 green recycling bins - used for majority of metal accessories. According to our records, Royal Stoke recycled a total of 3020kg of metal with the MR containers in 2024.

This includes Endoscopy, Theatres and Interventional radiology. County Hospital recycled 743kg in 2024.

A significant reduction is CO2 and cost. There will be cost savings for introducing the MR containers, for example they will use less size S32 bins as they will have the larger containers.

CO<sub>2</sub>

The main achievement is to reduce CO<sub>2</sub>, and these changes will massively help to improve waste segregation and reach sustainability goals.





# Daisy Grip torniquet

Benefits reusable safe reduces plastic

26.40 each x10 equals £260 one off.

now on the unit sustainable less plastic and waste, education videos and face to face sessions provided on how to use and clean in-between patients. Single use now stopped.

Patients x60 approx daily, 420 pts weekly approx. maybe 80% have sedation so 336 torniquets are disposed off weekly equals 17472 torniquets annually

Saving 1.800 pounds annually

# Ongoing to do list

- ▶ Solus reports to standardise print to only 2 G.P receives now an electronic copy
- ▶ Harlow printing expensive to use recycled paper but is from a sustainable resources they said.
- ▶ Penthrox lead by A&E consultant alternative to Entonox ongoing
- ▶ QR codes work with County on this to reduce patient information and feedback imminent
- ▶ Broken waste bins plastic can be reported to Andrew Allman for repair they have a 10-year warranty.
- ▶ And Many more!!!!
- ▶ Many Thanks Scott Taylor Deputy Manager Endoscopy at UHNM



Our  
Procurement

## UHNM Case Study: Reusable Gowns

### IN ENDOSCOPY DEPARTMENT (COUNTY)

THE SINGLE USE, NON-STERILE GOWNS THAT WERE  
REPLACED WITH REUSABLE WERE FROM 365 HEALTHCARE.

TOTAL BWK8157

2019/20 SUPPLIED - 6,900

THIS IS EQUIVALENT TO  
GREENHOUSE GAS EMISSIONS FROM  
**16,817 MILES** DRIVEN BY AN  
AVERAGE PETROL CAR!



NHS  
University Hospitals  
of North Midlands  
NHS Trust

### CREATING THE BASELINE

IN 2019/20 COUNTY WERE RECEIVING 950 PER WEEK. DURING THE TRIAL (2021/22) IT WAS DETERMINED THAT THE VOLUMES REQUIRED WERE MUCH LOWER THAN ANTICIPATED, 800 GOWNS PER WEEK.

### CALCULATING THE CARBON EMISSIONS (TCO<sub>2</sub>e)

- IMPACT OF A SINGLE USE GOWN IS CALCULATED 905 g CO<sub>2</sub>e (OR 0.95 kg CO<sub>2</sub>e). SOURCE: [59151820 \(MEDRXIV.ORG\)](https://medrxiv.org)
- USING SUPPLY CHAIN DATA FOR UHNM THE CARBON REDUCTION PER ANNUM WAS CALCULATED BY NOT USING SINGLE USE GOWNS.

6.56  
TCO<sub>2</sub>e

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