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## INTRODUCTION

- DM and médecines sector = 55%<sup>(1)</sup> of the carbon footprint (CF) of the French healthcare system
- In our establishment, inputs account for 76% of total CF, of which the DM sector is responsible for 32%<sup>(2)</sup>
- One way to reduce CF : reduce unused waste

## OBJECTIVE

Eliminate unnecessary waste by optimising made-to-measure packs containing the medical devices required for treatment



## Materials and methods

### Composition of the multidisciplinary team :

Pharmacist, anaesthetist, resuscitator, nurse

**2 pilot departments :**  
intensive care and anaesthesia

### Identification of packs containing UMD\*:

Study of practices in relation to users

\*UMD : Unused Medical Device

### Collection data on UMD :

Weighing of packs with and without UMD  
Estimate of the CF BH\* or GW\*

Measuring the financial impact at purchase time

### Modification of packs :

Reassessment of MD required  
Withdrawal of UMD  
Referencing new packs

## Results

\*BH : Biohazardous Waste

\*GW : General Waste

Pack	Peridural	Suture	Central venous line
Pack weight before	372,68 g	105,62 g	425,72 g
Pack weight after	343,08 g	31,50 g	362,06 g
UMD	1	4	2
Weight of waste saved/year	55 kg/year	64 kg/year	87 kg/year
CF <sup>(3)</sup> saved	20 kg of CO <sub>2</sub> /year	40,5 kg of CO <sub>2</sub> /year	31,5 kg of CO <sub>2</sub> /year
Financial economics	3 617 €/year	820 €/year	986 €/year

	Total
Weight of waste saved/year	<b>205,74 kg/year</b>
Financial economics	<b>5 423 €/year</b>
CF saved	<b>92 kg of CO<sub>2</sub>/year</b>



**= 86 Paris-London by train !**

## CONCLUSION



Action to be extended to the institutional level for future calls for tender



Time saving for nursing staff  
CF reduction



Balance between economy and ecology must be taken into account for financial constraints

(1) [https://theshiftproject.org/wp-content/uploads/2023/04/180423-TSP-PTFF-Rapport-final-Sante\\_v2.pdf](https://theshiftproject.org/wp-content/uploads/2023/04/180423-TSP-PTFF-Rapport-final-Sante_v2.pdf)

(2) Carbon footprint of the Pau Hospital Center

(3) <https://www.urofrance.org/wp-content/uploads/2022/11/Manuel-développement-durable-AFU-Réduction-DASRI.pdf>

