

# OPTIMIZING PATIENT SAFETY AND QUALITY OF CARE : A MEDICAL GAS CYLINDER STORAGE AUDIT IN A UNIVERSITY HOSPITAL

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## Background and importance

**Medical gases (oxygen, EMONO) are therapeutic products**

➔ Follow current European or national **guidelines** and standards

**Safety rules** must be followed from the time the cylinder is received, until it is administered to the patient

➔ Cylinders are stored in various clinical departments



## Aim and objectives

The purpose of the **audit** was to **collect data** on :

- Medical gas cylinder (MGC) **storage**
- **Transport** by staff members
- Healthcare professionals **training** regarding MGC



## Material and methods

Audit created by **2 pharmacists** and reviewed by **2 healthcare professionals**



**Grid with 23 questions**

**Various clinical departments**

**3 sites of our University Hospital**

**2 months :**  
From **05/03/2025** to **09/05/2025**

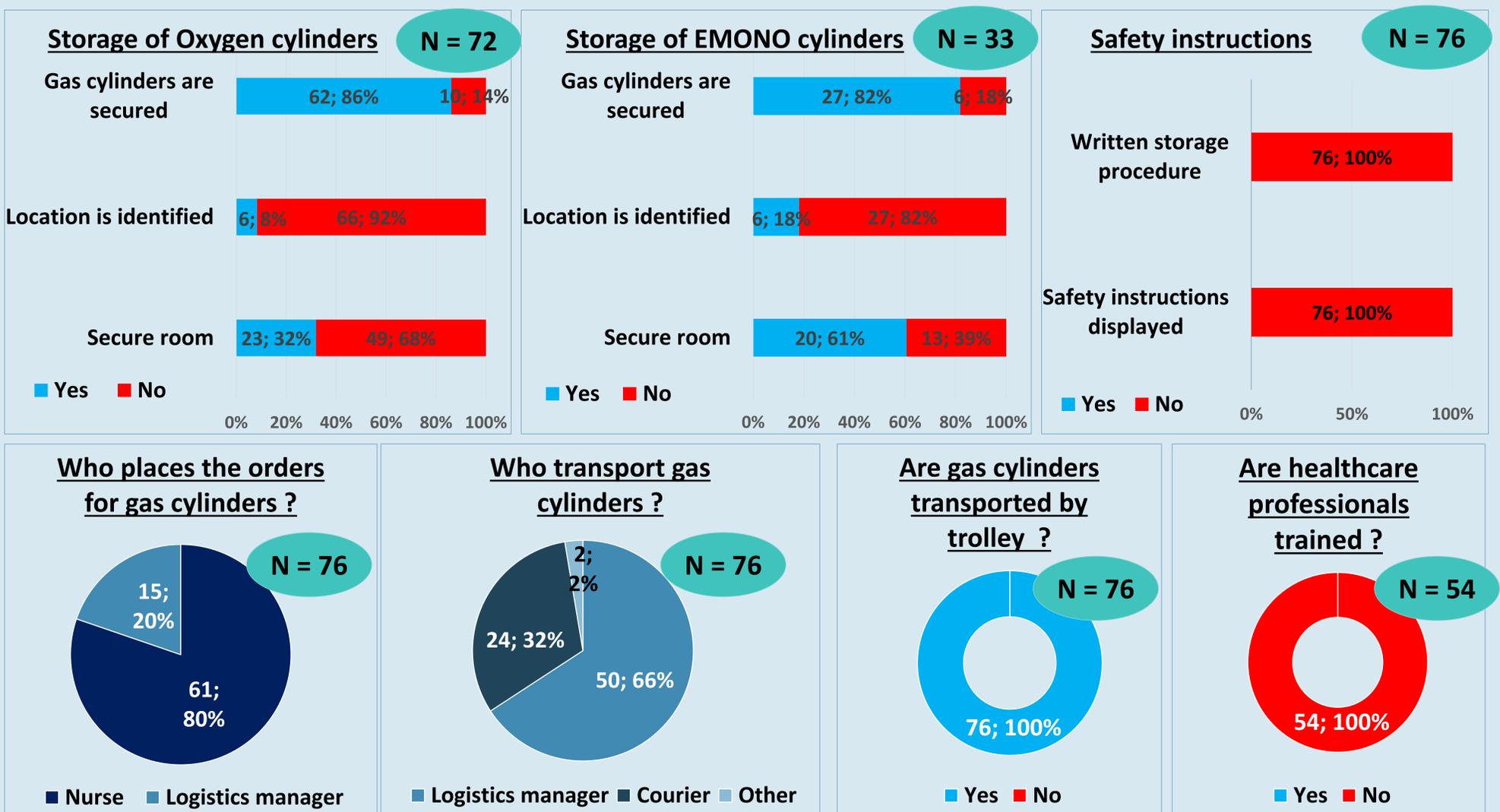
➔ Departments that used the most medical gas cylinder were prioritized first

## Results

**76 clinical departments were audited**

**Oxygen and EMONO cylinders were not stored in each department**

(4 departments had no oxygen cylinder, 43 departments had no EMONO cylinder)



## Conclusion and relevance

- In light of non-compliance with regulations, **storage equipment** were **purchased** to **securely stored** MGC
- **Before using** or **storing** the cylinders, professionals **must identify** MGC by **reading** the cylinder label and **must check** the **good condition** of the cylinders
- To **improve** the **quality** and safety of care, **professionals** must be **informed** and **trained** in best practices and safety rules

