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Background and importance



Medical gases (oxygen, EMONO) are therapeutic products
 → Follow current European or national **guidelines** and standards

Medical gases are routinely used in **various clinical departments** in hospitals
 → Healthcare personnel must know how to **handle and administer gases safely** to ensure their safety, the safety of patients, and the quality of care

Aim and objectives

The purpose of this study was to assess :



- **Caregivers' knowledge** of 2 medical gases (oxygen and EMONO)
- **Caregivers' behaviours / practices when administering** medical gases to patients

→ In order to **prioritize future training programs** to be implemented in our hospital

Material and methods

Survey designed by 2 pharmacists

10-question survey in paper format

Target population : **healthcare professionals administering medical gases** (physicians were excluded)

3 sites of our University Hospital

From 05/03/2025 to 31/05/2025

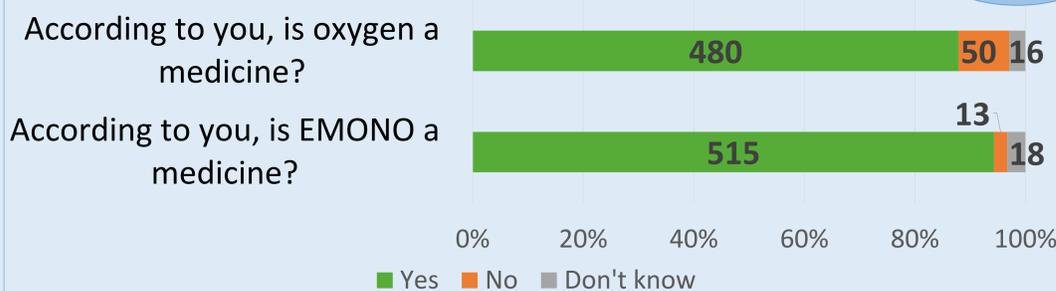
This survey was given to healthcare professionals who worked in clinical departments involved in a storage audit

Results

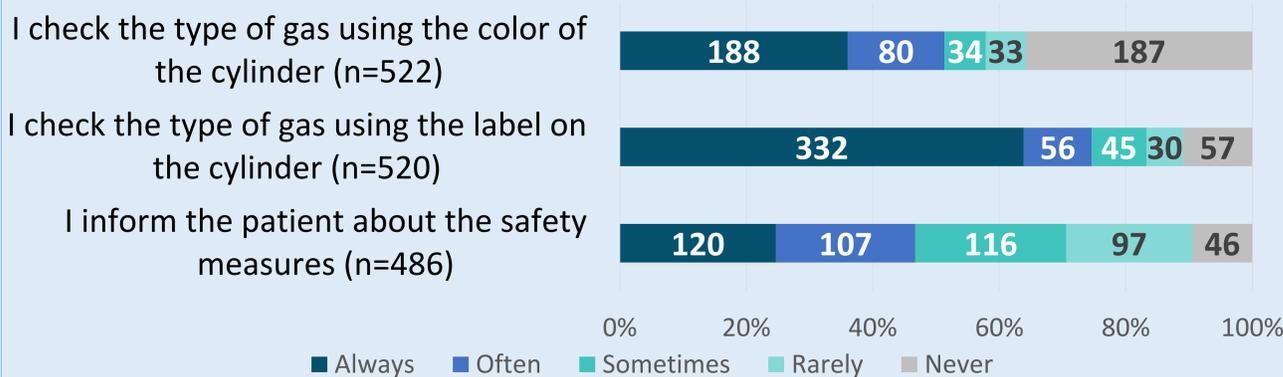
546 respondents in 57 departments

Job title	n (%)
Nurse, nurse anesthetist (including students)	314 (57,5%)
Nursing assistant	182 (33,3%)
Midwife	17 (3,1%)
Other (physical therapist, radiology technician, etc.)	33 (6,0%)

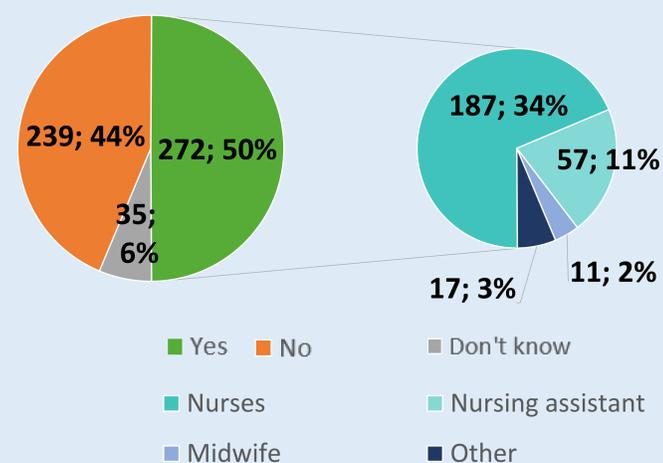
1. Knowledge of the status of medical gases N = 546



2. Before administering medical gas to the patient :



3. Have you received training in the handling and administration of medical gases? N = 546



4. Link between training and practices of respondents N = 546

		Verification of the type of gas by reading the label				
		Always	Often	Sometimes	Rarely	Never
Training	No	127 (26%)	32 (7%)	26 (5%)	17 (3%)	24 (5%)
	Yes	183 (37%)	24 (5%)	19 (4%)	12 (2%)	28 (6%)

p-value <0,05

Conclusion and relevance

These findings on the knowledge and practices of health professionals regarding medical gases helped identify obstacles and drivers on administration of medical gases in hospital settings. Measures must be taken to **improve patient information** with traceability of this information in patient record.

We need to offer **appropriate training to healthcare professionals** in line with best practices to ensure the best quality of care possible related to medical gas administration. We are currently developing a training plan for our hospital.

