

IMPROVING PHARMACOLOGICAL TREATMENT: REAL-TIME SAFETY AUDITS

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Objectives

Patients admitted to intensive care units (ICU) are characterized by their need for a more advanced level of care and a higher risk of patient safety-related incidents. Errors in pharmacological treatments may occur due to an unintended act or by omission. Present a checklist designed to improve the pharmacotherapeutical care process

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Present the results obtained with this tool in our ICU

Methods



The evaluated **pharmacological treatment** and **nutritional measures** were: allergies, correct prescription, indication and dosage, verbal orders, prophylaxis of thromboembolic disease, gastrointestinal hemorrhage, glycemic control, antibiotic adequacy, enteral nutrition monitoring and parenteral assessment.

Results



Multivariate analyses didn't demonstrate significant changes in the pharmacological care process when variables were analyzed quarterly, except for **improving lack of verbal prescription** (26% to 2.2% p<0.05) and improving **management of nutrition** (58,33% to 72.62% p<0.05). Furthermore, audits were useful to detect errors of omission and to correct them promptly in 8.3%.

		February – May		June – September		Octubre - Enero		р
Prescribed threatment		Nº	%	Nº	%	No	%	<0.0001
administred correctly. Verbal orders	Yes	143	73.71	125	85.62	133	97.79	
	Yes, after	0	0	0	0	0	0	
	No	51	26.29	21	14.38	3	2.21	
		Febrary – May		June – September		Octubre - Enero		þ



Real-time safety audits in medication help to verify the adequacy of pharmacological orders and can increase safety awareness. The tool has been useful to improve the nutrition management.