

PHARMACOLOGICAL SUPPORT TOOL IN THE PEDIATRIC EMERGENCY ROOM

I. Sacanella Anglès, M. Martín Marqués, H. Suñer Barriga, D. Pascual Carbonell, P. López Broseta, J. Bodega Azuara, M. Vuelta Arce, MA. Roch Ventura, I. Plo Seco, E. Esteve Pitarch, A. García Molina, S. Jornet Montaña, CD. Ciuciu, S. Conde Giner, L. Canadell Vilarrasa

Pharmacy Department, Hospital Universitari Joan XXIII. Tarragona, Spain

What was done?							Why was it done?	
gn Implement		Active principle Commercial name Concentration	Dose/kilogram	Total dose	Total dose in milliliters	Preparation and other recommendations		Prescription Prepar
	Standardize Streamline	Adenosin IV Adenocor® 0, 6 mg/2 mL	0,1 mg/kg	0,35 mg	0,1 mL	NO dilution required IV bolus: administrate in 1-2 seconds followed by 5-10 mL NS If needed: next doses 0,2 mg/kg	treatment algorithms	Pharmacological card assist clinical staff
ARMACOLOGICAL CARDS		Adrenaline IM Adrenaline 1:1000 (1 mg/mL)	0,01 mg/kg	0,04 mg	0,04 mL	NO dilution required IM administration in anterolateral region thigh		
		Adrenaline IV or IO (CPR) Adrenaline 1:1000	0,01 mg/kg	0,04 mg	0,35 mL from the diluted solution	Dilution (1:10.000) = 1 mL Adrenaline + 9 mL NS (0,1 mg/mL dilution) IV bolus: administration in 1-2 seconds in case of CPR If CPR persists, repeat dose each 4 minutes (2 CPR cycles)		
	Preparation	Amiodarone IV (CPR) Trangorex® 150 mg/3 mL	5 mg/kg	17,5 mg	0,35 mL	NO dilution required IV bolus: administration in 1-2 seconds in case of CPR Maximum dose = 300 mg/dose	must be Unambiguous	
	Administration	Amiodarone IV Trangorex® 150 mg/3 mL	5 mg/kg	17,5 mg	3,5 mL from the diluted solution	Dilute 3 mL amiodarone (150 mg/3 mL) + 27 mL D5W (dilution 5 mg/mL) Administer in 30 minutes		enhancing
Pharmacological cards were aimed to unify criteria in prescription and administration of drug usage as a		Atropine IV Atropin 1 mg/mL	0,02 mg/kg	0,1 mg	1 mL from the diluted solution	Dilute 1 mL atropin + 9 mL NS (dilution 0,1 mg/mL) IV bolus: administrate in 1 minute Maximum dose = 1 mg	1	PATIENT SAFETY

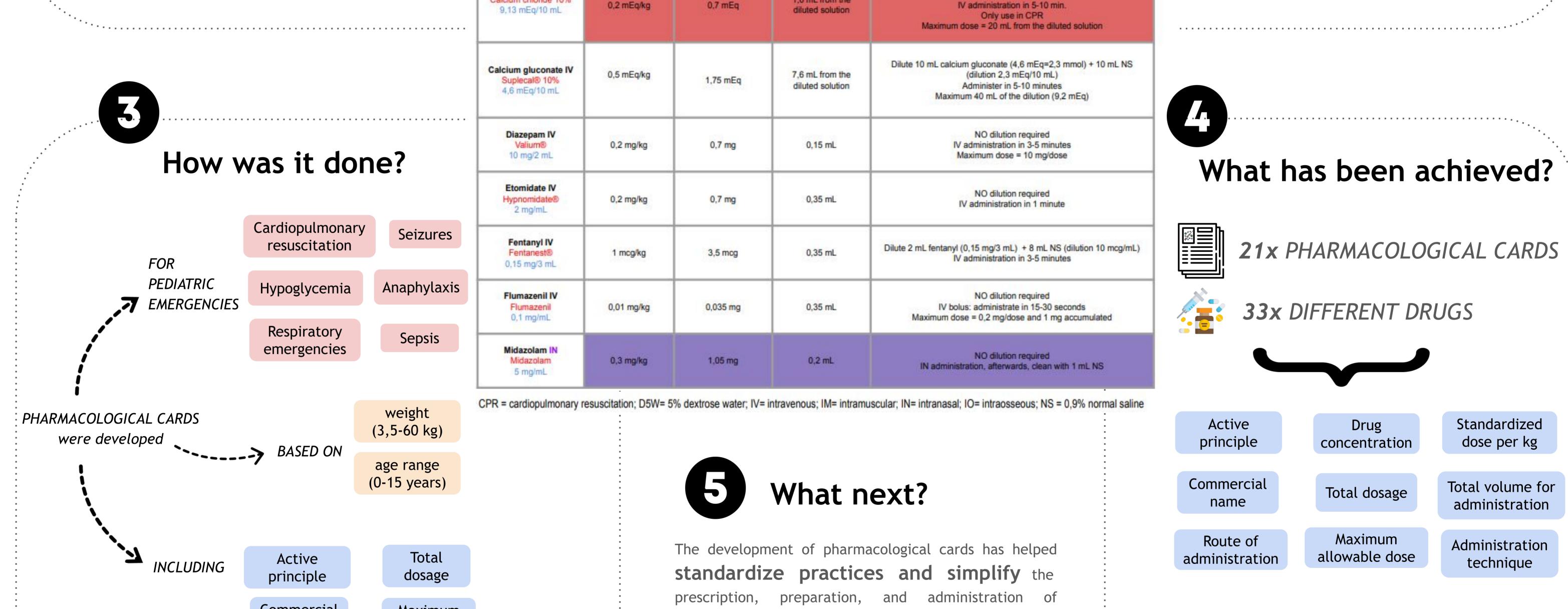
1,6 mL from the

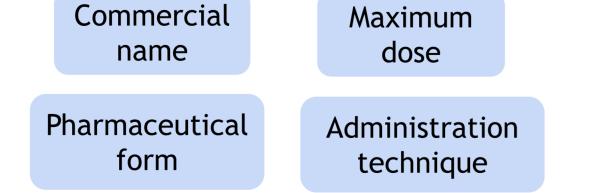
support tool

Calcium chloride

Calcium chloride 10%

Dilute 1 mL atropin + 9 mL NS (dilution 0,1 mg/mL) IV bolus: administrate in 1 minute Maximum dose = 1 mg Dilute 10 mL calcium chloride (9,13 mEq) + 10 mL NS (dilution 4,5 mEq/10 mL) IV administration in 5-10 min.





Medical and nursing staff underwent training in the

utilization of these tools. An evaluation of the protocols was

conducted 12 months after their implementation

commonly used drugs in pediatric emergency (PE) situations.

The protocolization and implementation of this tool have enhanced drug safety in pediatric emergency scenarios by reducing human errors and minimizing medication-related harm. We did not encounter **any medication-related errors during the 12-month evaluation** period after the implementation

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ignasi.sacanella@gmail.com

