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IMPACT OF PHARMACEUTICAL INTERVENTIONS IN PARENTERAL NUTRITION

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Background

The role of pharmacists on (PN)parenteral nutrition

Results

The study included **69 patients**



During the study, only 1 patient developed Refeeding Syndrome.

As shown in the graph, the alerts electronic physician NP to discontinuation prescription represented 9,8% of PI. In 2016-2017, the waste in supplemented bags with expired date resulted in a loss of **526€/year** on average. The reason for this waste was verbal NP discontinuation. These alerts together with a better communication with nursing teams resulted in **0 waste**.

management differs between hospitals. In our case, pharmacists aren't limited to compounding ΡN and distribution. For more than 20 years, pharmacists have been supporting the calculation of patients' basal metabolism (PBM) and developed protocols for a gradual introduction of PN in order to avoid refeeding syndrome (RS).

Purpose

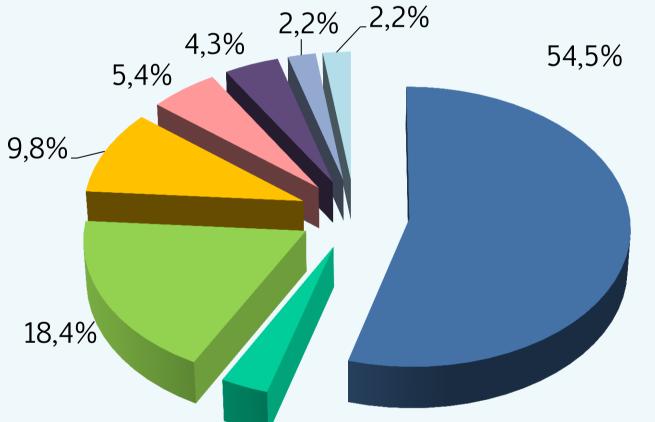
evaluate pharmaceutical То interventions (PI) in PN, its acceptance and impact.

Materials

Prospective		study	including	
nationts	on	DNI	March	to



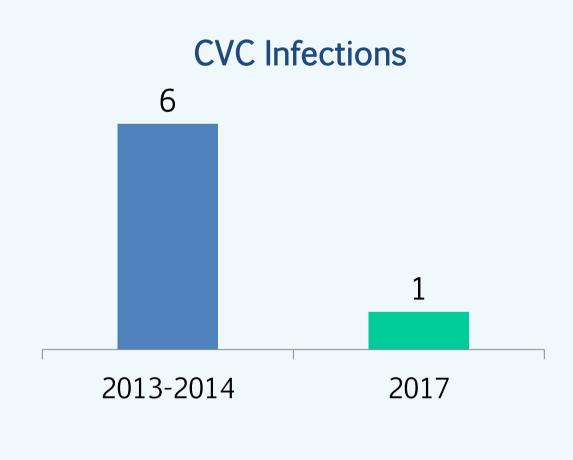
Interventions in 126 PN prescriptions (52,3%) Acceptance rate 90,2%



■ PBM and rate infusion calculation

3,3%

standard All bags were supplemented in a laminar flow chamber. Only 1 patient presented central venous catheter (CVC) infection with positive blood culture. In the homologous period of 2013-2014, when the bags were supplemented in the wards, the number of CVC infections was 6.



Conclusion

patients on PN, March to September 2018.

Data were collected through communication with nurses/ physicians or from electronic records.

Prescriptions daily were electronically validated. PBM was calculated by Harris-Benedict formula.

All interventions and relevant clinical data were recorded and analyzed.

Suggestions for special protocols due to the high risk of RS

Prescribed bag adjustments

- Alerts to physician NP electronic prescription discontinuation
- Electrolytic imbalances
- corrections
- Scheduling of NP suspension days
- Hydric imbalances adjustments

Correction of prescribed lipid supplements

Pharmacists are key elements with a recognized value of theirs interventions (90,2%) acceptance rate) which improve the adequacy and safety of PN concerning metabolic and catheter-related complications.

Reference s

Giancarelli A, Davanos E. Evaluation of Nutrition Support Pharmacist Interventions. JPEN 2014; 39(4):476-81