



PHARMACY INTERVENTION AND DRUG PRESCRIPTION REGULATIONS IN A TERTIARY HOSPITAL

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Inappropriate drug use and limited funding triggered the implementation of restrictions to regulate highly-prescribed drugs consumption such as **ferric carboxymaltose (FC)** and **human albumin (HA)**.

Mandatory completion of a **designed order form (DOF)** was introduced as a prerequisite in hospital daily practice.

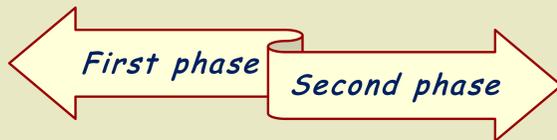


Purpose To clarify the efficacy of **Pharmacy Intervention (PI)** in decreasing irrational drug use.

Material and methods

✓ Observational study in a tertiary hospital (945-beds) was conducted in two phases.

January 2013 - May 2018
Retrospective Analysis



June 2018 - December 2018
After PI

✓ For **FC**, **PI** refers to **DOF completion** where **ferritin serum value** and previous **oral administration** of ferric formulations were taken into account.

✓ For **HA**, strictly adjustment to **clinical guidelines** and **evidence-based indications** were applied throughout local protocol.

✓ **Total and per clinic FC and HA monthly average consumption data** in **pre** and **post PI** were conducted.

✓ Average **drug cost** was calculated.

Results

✚ **FC**: An augmentative trend throughout the first study period was observed.

✚ **HA**: Up to 12/2017 slight differences were presented whereas periodic limited supply led to an expected consumption decline.

✚ **DOF implementation** resulted in overall utilization downsize and prescribers modification mentality.

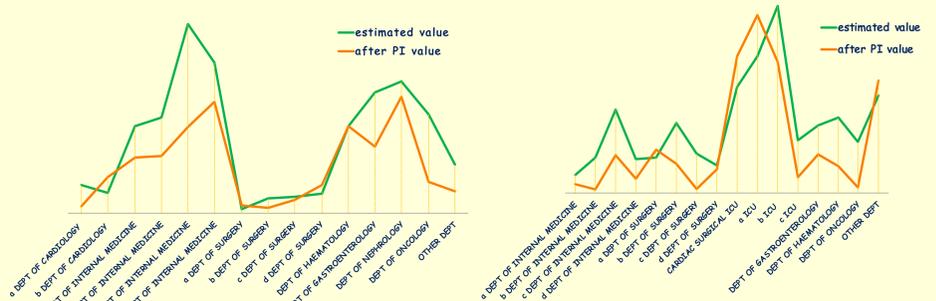
FC MEAN AVERAGE CONSUMPTION

HA MEAN AVERAGE CONSUMPTION



FC 2018 PRESCRIPTION PROFILE

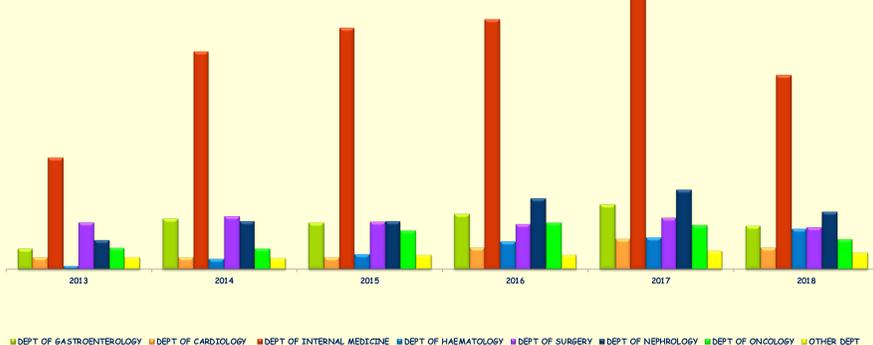
HA 2018 PRESCRIPTION PROFILE



✚ **PI for FC and HA** resulted in a cost supply reduction of 16.000 €/month and 40.000 €/month, respectively, which corresponds to 672.000 €/year save.

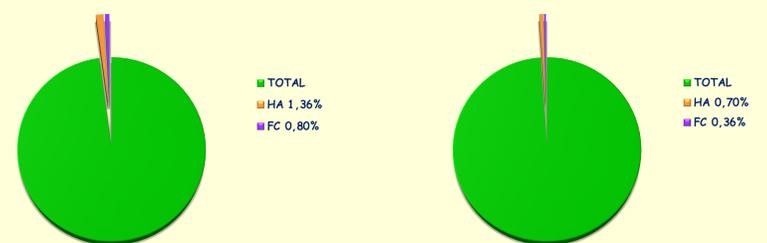
✚ Significant variations in prescription profile in clinics of similar specialty were detected.

FC CONSUMPTION ANALYSIS



BEFORE PI

AFTER PI

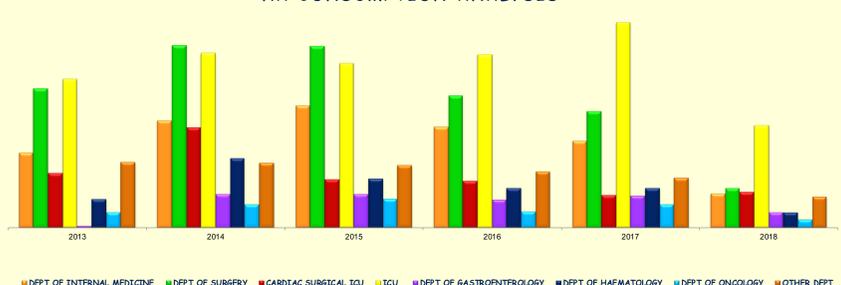


FC AVERAGE GROWTH RATE

HA AVERAGE GROWTH RATE

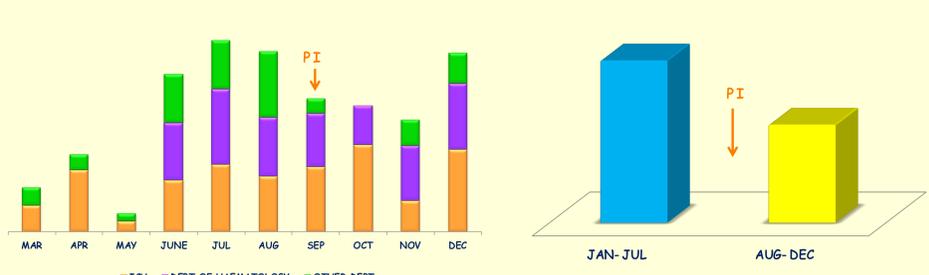


HA CONSUMPTION ANALYSIS



2018 CEFTAZIDIME/AVIBACTAM CONSUMPTION

2018 HUMAN IMMUNOGLOBULIN CONSUMPTION



Conclusion

✚ **PI evaluation** revealed **DOF's necessity** to guarantee high-cost medications **rationalized use** associated with anticipated **prescription accuracy** and **compliance**.



http://www.ejgpc.eu/24-4-495-273