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BALANCING CLINICAL BENEFITS AND COST SAVINGS: COMPASSIONATE DRUG USE AT AN ITALIAN UNIVERSITY HOSPITAL — EVIDENCE AND INSIGHTS

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BACKGROUND AND IMPORTANCE

In this study, a retrospective analysis of approved compassionate uses of drugs (CUs, Fig.1) at the Azienda Ospedale-Università di Padova (AOUP) between 2022 and the first half of 2023 was conducted, with a focus on the economic-clinical implications.

- ✓ Absence of feasible therapeutic alternatives;
- Positive evaluation by the Territorial Ethics Committee (TEC);
- ✓ Willingness of the manufacturer to supply the drug free of charge.



AIM AND OBJECTIVES

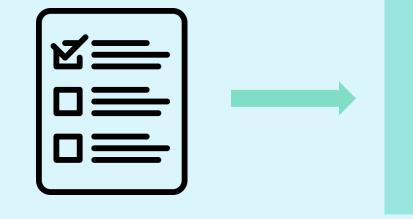
The purpose is to emphasize the importance of CUs in a University Hospital, to ensure patients have access to potentially life-saving therapies without burdening National Health Care System's economic budget.

MATERIALS AND METHODS

A monitoring activity was implemented by the AOUP Clinical Research Unit through creation of follow-up forms submitted to corporate Operational Units (OU) physicians in order to evaluate the clinical andeconomic impact of CUs (Fig.2).

follow-up forms

Clinical impact monitoring activity





- ➤ N° of patients;
- Clinical outcomes;
- > Treatment duration.

Economic impact monitoring activity



The avoided costs

€7,130,668, 62% of

which came from the

compassionate use of

the drug burosumab in

patients with X-linked

hypophosphatemic

osteomalacia (Fig.5).

amounted to

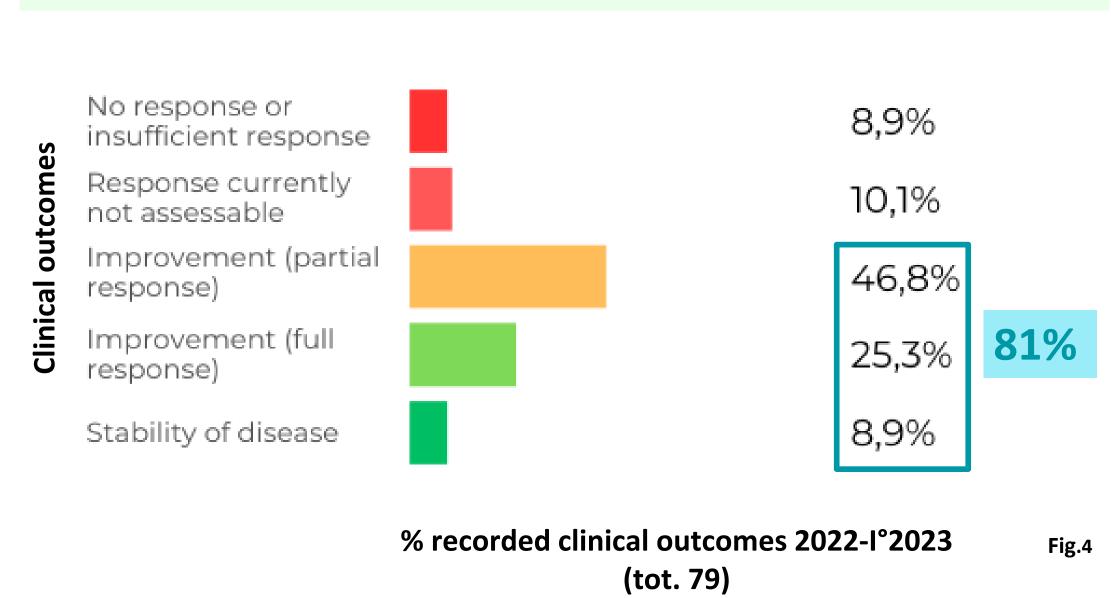
- Ex-factory price;
- Lenght of therapy;
- Posology and dosage.

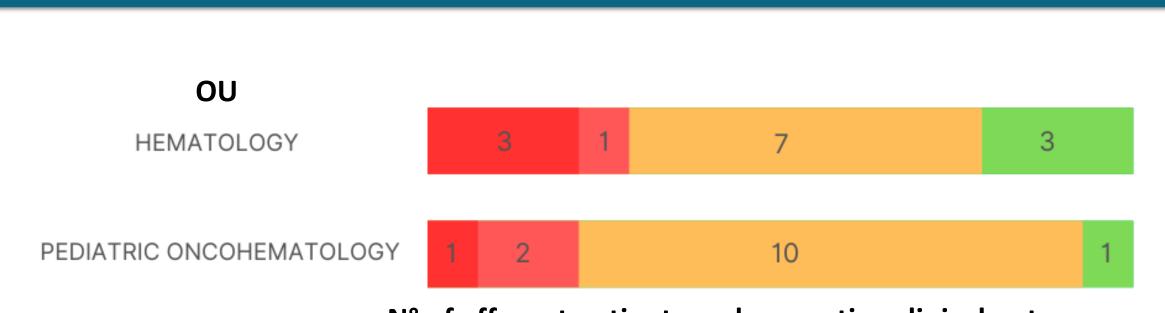
COST-**THERAPY**

Fig.2

RESULTS

- In the time frame considered, at AOUP, the CU regimen was approved for 84 patients mainly afferent to the hematologic field (Fig.3).
- In 79 undertook the treatment, with, in 81% of cases, partial or complete improvement of the clinical picture, or stability of disease, in the case of degenerative diseases (Fig.4).





N° of afferent patients and respective clinical outcomes Fig.3

> else 37.6% **AVOIDED COSTS** €7.130.668,00

burosumab 62.4% Fig.5 % avoided costs

CONCLUSIONS AND RELEVANCE

- Collaboration between university hospitals, pharmaceutical companies and regulatory authorities is essential to optimize compassionate drug use programs ensuring equitable access to potentially life-saving treatments and at the same time facilitating the gathering of valuable clinical data.
- Cost savings generated from this approach can be reinvested to expand the national healthcare system.

ABSTRACT NUMBER:





REFERENCES