

contact email studiclinici.farmacia@asst-cremona.it ABSTRACT NUMBER

5PSQ-103

29<sup>TH</sup> EAHP CONGRESS 12-13-14 MARCH

PERSON CENTRED PHARMACY -NAVIGATING DIGITAL HEALTH



## Extravasation and onco-haematological biological drugs: analysis of reports in the National Italian Pharmacovigilance Network

Elena Zanetti Lorenzetti (1), Federica Raucci (1), Mara Tisi (1), Andrea Marco Machiavelli (1) (1) SC Farmacia Aziendale, ASST Cremona

The study aimed to analyze pharmacovigilance data to better understand extravasation as an adverse event in onco-hematological treatments, focusing on new biological drugs.

Extravasation, the unintended leakage of intravenous drugs into surrounding tissues, could cause serious complications, especially with antineoplastic and biological therapies, with an incidence of 0.1% to 6% in chemotherapy patients (1).

Current guidelines often overlook extravasation management for new biological agents, highlighting the need for updated protocols and training. Hospital pharmacists play a key role in assessing risks and providing antidote information, using data sheets, older guidelines, literature, and the National Pharmacovigilance Network (RNF).

Data were extracted from the RNF (Italian National Pharmacovigilance network) from October 2006 to August 2024.

## Methods

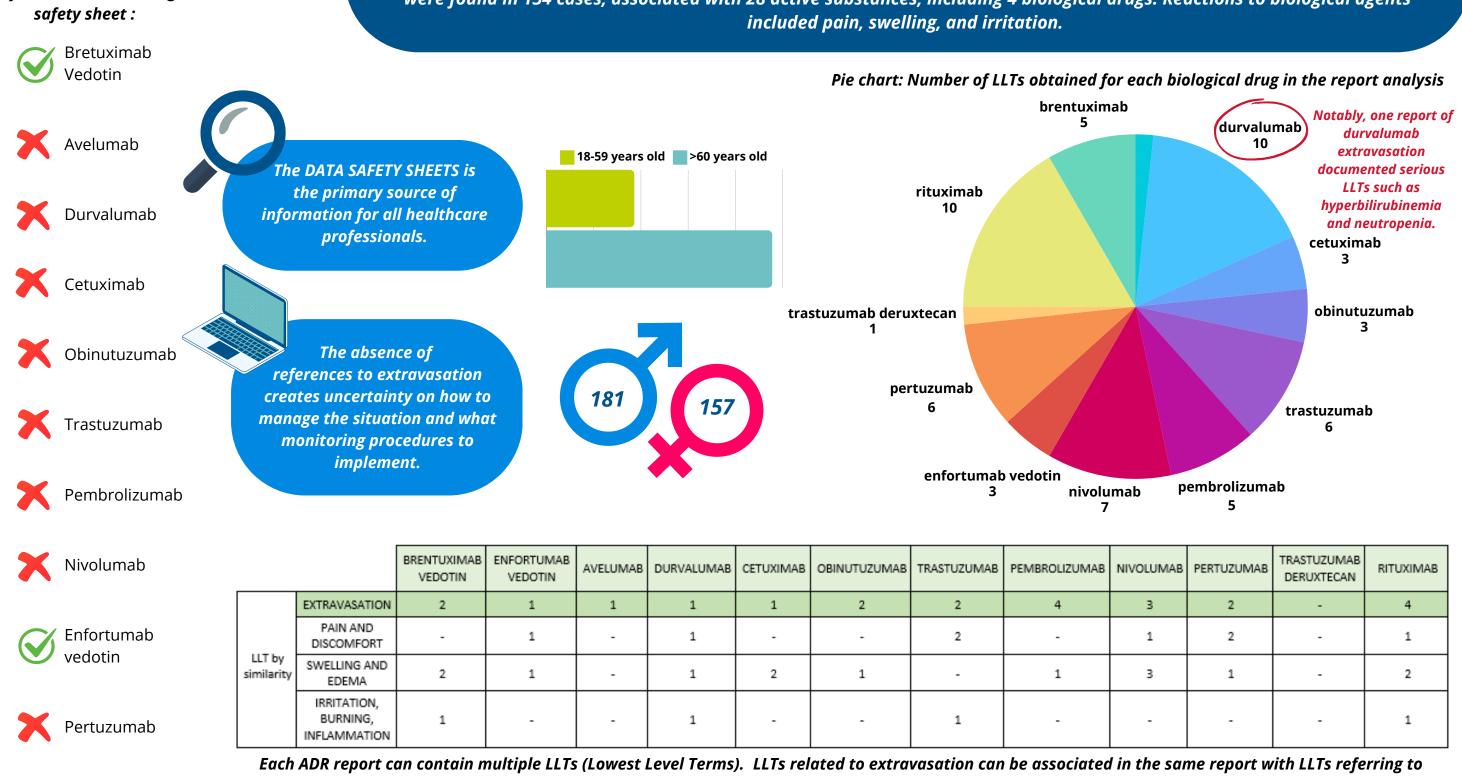
Reports included data coded with a Lowest Level Term (LLT) linked to "extravasation" and classified as suspected drug-related adverse *reactions* according to the Anatomical Therapeutic Chemical (ATC) classification 'L- Antineoplastic and Immunomodulating Agents.' Qualitative and quantitative analyses were conducted, focusing on LLTs for each active substance, particularly biological drugs. Biological agents data sheets were reviewed to assess whether they included instructions or recommendations for managing extravasation.

		Notifiche ?
O SOLO MASTERCASE O ESCLUSO MASTERCASE O TUTTE		Master Case Linked:   O SOLO MASTERCASE LINKED   O ESCLUSO MASTERCASE LINKED
Parent Child:		Linked:
O SOLO PARENT CHILD O ESCLUSO PARENT CHILD O TUTTE		O SOLO LINKED O ESCLUSO LINKED O TUTTE
Ricercare solo segnalazioni inserite dall'utente collegato:		Ricercare solo segnalazioni di competenza dell'organizzazione dell'utente collegato:
Data inserimento:		
da da		a a
Soc:		Art/Pt:
SELEZIONA SOC	- <b>ū</b>	- inizia con Q STRAVASO
Prodotto		Stravaso codicePt: 10015866 - Descrizione: Stravaso - Descrizione SOC: Patologie generali e condizion
Ruolo del farmaco:		Stravaso di sangue codicePt: 10015867 - Descrizione: Stravaso di sangue - Descrizione SOC: Patologie vascolari
Atc		Stravaso di urina codicePt: 10015869 - Descrizione: Stravaso di urina - Descrizione SOC: Patologie renali e urinarie
		Stravaso in sede di accesso vascolare

## Results

A total of 344 reports were analyzed, including 887 LLTs. The analysis involved 41 active substances, including 12 biological drugs, representing 7% of the total LLTs. There were 23 reports involving biological drugs, accounting for 60 LLTs. Serious LLTs were found in 134 cases, associated with 28 active substances, including 4 biological drugs. Reactions to biological agents

Extravasation information inside Drug



Trastuzumab deruxtecan

Rituximab

In conclusion, extravasation-related adverse events

other symptoms. The table summarizes the LLTs for each suspected biological drug in the reports, grouped by similarity.

associated with biological drugs are occurring,

but may be underreported due to misclassification as general incidents.

Notably, only 2 of the 12 biological agents analyzed included specific references to

extravasation in their data sheets. Improving the recognition and reporting of extravasation

through clearer guidelines may promote patient safety and clinical outcomes.

1) Kreidieh, Firas Y et al. Overview, prevention and management of chemotherapy extravasation. World J Clin Oncol. 2016;7(1):87-97 2) Pérez Fidalgo, J A et al. Management of chemotherapy extravasation: ESMO-EONS Clinical Practice Guidelines. Ann Oncol. 23 Suppl 7 (2012):VIIi167-73