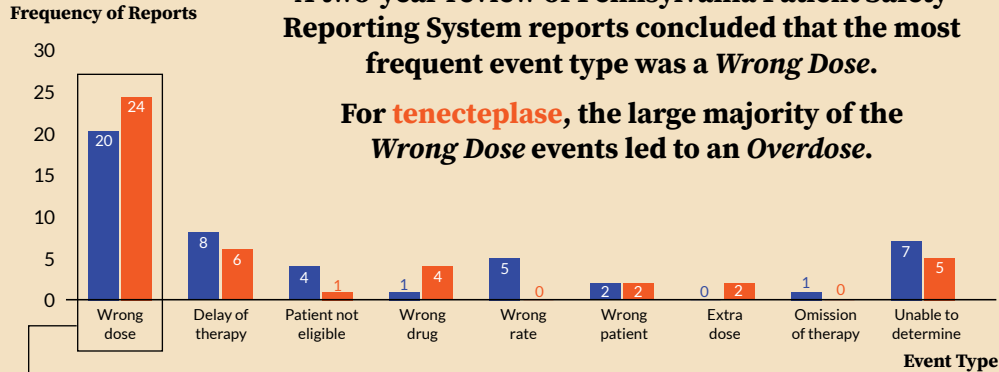


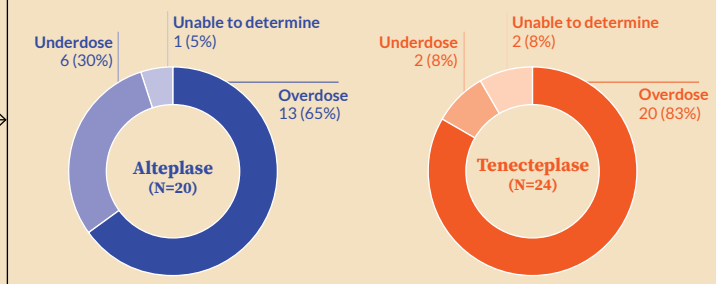
Alteplase- and Tenecteplase-Related Errors and Risk Mitigation Strategies in the Treatment of Acute Ischemic Stroke: A Study of Event Reports From 52 Hospitals

A two-year review of Pennsylvania Patient Safety Reporting System reports concluded that the most frequent event type was a **Wrong Dose**.

For **tenecteplase**, the large majority of the **Wrong Dose** events led to an **Overdose**.



Subcategories of Wrong Dose by Intended Medication (N=44 reports)



Most Frequent Associated Factors for Each Medication

Alteplase

- Weight incorrect or not collected
- Programming error with infusion pump
- Drug label wrong or missing

Tenecteplase

- Knowledge and/or experience deficit
- Order not placed in electronic health record
- Dosing information unavailable or incorrect

Recommendation Highlights

- Require the use of the order set specific to each indication.
- Create a hard stop in the EHR for:
 - Missing documentation of the most recent weight.
 - Contraindications.
 - A dose exceeding 25 milligrams for the treatment of acute ischemic stroke with tenecteplase.
- Dedicate a separate medication kit in the automated dispensing cabinet for individual medication based on indication. Ensure that the kit contains appropriate supplies and dosing instructions.