

# QUIZ – 22-09-25-DIURETICS

Dr. Sonu Manuel

Consultant Nephrologist

St. Mary's Hospital

Thodupuzha

- A) BNS absorption is unaffected by nasal pathology and its clearance is increased by food and hepatic metabolism.
- B) BNS consistently bypasses renal tubular resistance seen in heart failure, unlike other loop diuretics.
- C) BNS shows similar peak concentration and natriuresis as oral/IV forms
- D) BNS has higher protein binding and longer half-life than subcutaneous bumetanide, leading to prolonged diuresis.

WHICH STATEMENT ABOUT BUMETANIDE  
NASAL SPRAY (BNS) IS MOST ACCURATE?



- BNS shows similar peak concentration and natriuresis as oral/IV forms

ANSWER

- ▶ Administered intranasally, BNS bypasses gastrointestinal absorption, which may be impaired in congested heart failure patients due to gut edema.
- ▶ BNS shows rapid absorption with peak plasma concentration typically within 20–30 minutes, faster than oral bumetanide.
- ▶ Comparable to oral and intravenous forms, with less variability than oral administration noted in healthy adults.
- ▶ Provides a non-invasive, patient-friendly option for ambulatory rescue diuresis.
- ▶ Nasal mucosal congestion or inflammation may reduce absorption; not demonstrated to overcome intrinsic renal tubular diuretic resistance.
- ▶ Generally well tolerated; most common side effect is mild nasal dryness or local irritation.

## EXPLANATION

- ▶ Dr Anand Naveen Thakur
- ▶ Associate Consultant
- ▶ Accord Ss hospital
- ▶ Faridabad



**WINNER**

THANKS

