

Scalp Vein Set

Description

A **Scalp Vein Set**, also known as a butterfly needle or winged infusion set, is a medical device designed for venipuncture. It consists of a hypodermic needle with flexible “wings” on either side, a length of soft, flexible tubing, and a connector to attach to a syringe or IV line. It’s primarily used for accessing small or difficult veins, commonly in paediatric, geriatric, or oncology patients, or for short-term intravenous therapy and blood sampling.

Specification

- **Needle Gauge Sizes:** Commonly 18G, 20G, 21G, 23G (smaller gauge means larger diameter)
- **Needle Length:** Usually 19 mm to 25 mm
- **Tubing Length:** Approximately 20–30 cm of flexible PVC or silicone tubing
- **Wings:** Soft, flexible plastic wings for easy handling and stability during insertion
- **Connector:** Standard Luer lock or slip fitting compatible with syringes and IV sets
- **Colour Coding:** Needle gauges are color-coded as per ISO standards for easy identification
- **Packaging:** Sterile, individually packed for single use

Material

- **Needle:** Stainless steel, surgical grade, sharp bevelled tip for easy insertion
- **Tubing:** Medical-grade PVC or silicone for flexibility and kink resistance
- **Wings:** Polypropylene or similar soft plastic for grip and control

Category

Intravenous (IV) Access Devices / Blood Collection Devices

Product Form

Single-use, sterile, disposable winged needle set with tubing and connector.

Usage

- Venipuncture for blood collection
- Short-term intravenous infusions or medications
- Accessing small or fragile veins, especially in paediatric and elderly patients
- Oncology patients with compromised veins
- Situations requiring more precision and stability during needle insertion

Advantages

- Flexible wings improve needle control and reduce accidental needle movement
- Soft tubing allows comfortable vein access with less trauma
- Smaller needle sizes minimize pain and vessel damage
- Ideal for small or fragile veins
- Easy to secure with tape or dressings
- Reduces risk of needle dislodgement during infusion

Disadvantages

- Single-use only, creating medical waste
- Risk of needle-stick injuries if not handled carefully
- Tubing length may not be sufficient for all infusion setups
- Not suitable for long-term intravenous access

Precautions

- Use sterile, single-use scalp vein sets only to prevent infection
- Ensure correct needle gauge based on patient vein size and procedure
- Dispose of used needles immediately in approved sharps containers
- Avoid excessive bending or kinking of tubing
- Monitor insertion site for signs of infiltration, phlebitis, or infection

HS & HSN Codes

- **HS Code:** 9018.39 — Needles, catheters, cannula and the like (excluding those for sutures or acupuncture)
- **HSN Code (India):** 9018 — Instruments and appliances used in medical, surgical, dental or veterinary sciences

Sterilization Details

- Supplied sterile and intended for single use only — no re-sterilization recommended
- Manufactured under strict aseptic conditions and packaged in sterile barrier systems
- Store in a clean, dry environment away from direct sunlight

Human and Veterinary Applications

- **Human Medicine:** Used extensively in hospitals, clinics, and laboratories for blood draws and IV infusions
- **Veterinary Medicine:** Adapted scalp vein sets are used in animals for blood sampling and IV therapies, especially in small animals like cats and dogs

Frequently Asked Questions (FAQs)

Q1: What is a scalp vein set?

A1: It's a winged infusion set with a needle and tubing designed to access small veins for blood collection or IV therapy.

Q2: Why is it called a butterfly needle?

A2: Because the plastic wings on either side resemble butterfly wings, helping with needle control during insertion.

Q3: Can it be reused?

A3: No, scalp vein sets are single-use devices to prevent infection and contamination.

Q4: What needle gauge should I use?

A4: It depends on vein size and procedure; common gauges are 21G for adults and 23G for children or fragile veins.

Q5: How is it sterilized?

A5: They are pre-sterilized by manufacturers using ethylene oxide or gamma radiation and supplied sterile.