

### 1 How often can I puncture?

#### Skin:

The number of possible punctures always depends on the thickness of the needle and the puncture technique. In test series, the skin could be punctured up to 1000 times at the same (1 cm radius) without having to change the skin. Considering that the arm has many possible puncture sites, the skin can be punctured over 10,000 times if all puncture sites are used.

#### Vein:

As with the skin, the durability of the vein is highly dependent on the size of the needle. The vein can be punctured up to 100 times in the same place (1 cm) before it starts to leak. If all possible puncture sites are used, it can be assumed that around 1,000 punctures will be required before the vein needs to be replaced.

### 2 The veins start to leak after a short time. What am I doing wrong?

The classic mistake when using injection arms is attaching the fluid bag too high. Do NOT hang the bag on an infusion stand of normal height, as this causes the pressure in the vein to become very high and the self-closing property of the tube is no longer guaranteed. The lower end of the blood bag may only hang slightly above the upper edge of the arm, please refer to the operating instructions.

### 3 Filling the veins takes too long. What can I do?

Hold the blood bag higher during the filling process, this will increase the pressure and the veins will fill faster.

### 5 I would like to change the skin and veins. Can I do this myself?

**YES!!** Replacing the skin is easy.

The skin is grasped and pulled upwards. The veins can then be removed and new veins inserted. Small retaining lugs and nets hold the veins in the recesses. To pull on the skin, turn it inside out, rub it with talcum powder or baby powder and then place it on the ball of the hand. Now simply pull the skin down onto the core. See also our "How-to-use" video.



### 6 We haven't used the arm for a while. Now it's blocked. What should we do?

In principle, the veins should always be emptied if the arm has not been used for a while. Use the large-volume syringe supplied for this purpose. Connect this to the end of the tube used to deflate the veins. Close the blood bag tightly and lay it flat next to the arm. Open the valve of the bag. Also open the valve at the end with the syringe. Now press air into the vein until all the blood has flowed back into the bag.

If you have forgotten to empty the arm, remove the vein tube from the arm and place the blocked tube in lukewarm water for several hours. The dried blood should dissolve and you can then rinse it out of the vein with clear water and a syringe.



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