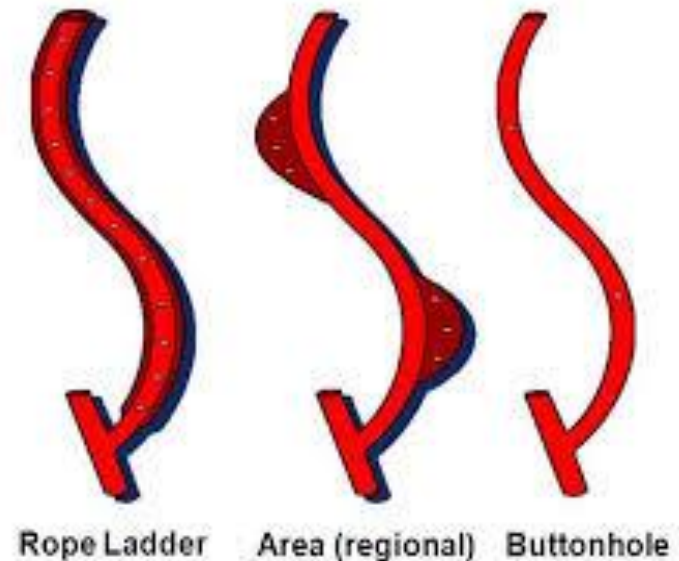


# No site infection with buttohole needling technique, when implementing double anti-sepsia two years experience.

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- From the three Haemodialysis Arterio-venous Fistula (AVF) needling techniques: **rope ladder, area and buttonhole** during the 90 and first decade of 2000 different authors and papers advised not to use the buttonhole (BH) due to site infection problems.



- In our Hospital based Haemodialysis Unit, Home Haemodialysis (HHD) programme and stimulated by European colleagues experiences and recent publications, decided to use as needling technique buttonhole **but with strict adherence to the double anti-sepsia.**



- We present our experience and results after **TWO years**: January 2017/December 2018, of HHD, in relation to **needling site infection with the implementation of double antisepsia**.
- During the training the **patient is instructed on the importance of strict asepsia**.



- **Double anti-sepsia** has been described as the use of **antiseptic solution before and after scab removal** previous to canulation. Also it's to be mentioned that our standard antisepsia protocol include with needling area soap wash previous to the canulation.



- During the mentioned two years we've trained **18 patients for HHD**, with the following Vascular Access:
  - One Tunnelled Catheter.
  - 17 with AVF, all of them were able to self needling with BH technique.

- In our HHD programme a total of **9000 sessions** have been performed.
- The patients were instructed to **report the presence of site redness of any other signal potential Vascular Access infection.**

- Only **one patient reported two episodes** of redness in one of the puncturing sites, the Nephrologist decided to prescribe oral antibiotic, the Nurse **re-trained the patient on both the importance of strict asepsia and on the double anti-septic technique**, with no need to change site.



# Conclusion

- From our experience and from other published ones, we conclude that when **implementing proper asepsia and more precisely double anti-septic technic, BH is a safe needling technique** from the infection point of view.