

**Abstract:**

Hemodialysis cannulation is often done with a notoriously harmful device that also exposes operators to a high risk of accidental puncture. It is very interesting to look at the Japanese experience, that has introduced, with an excellent success rate, a new device for the cannulation of FAV: a plastic cannula. The aim of this review is to verify if the literature describes any advantages in the use of the plastic cannula in hemodialysis compared to the traditional metal needle, in relation to mechanical and hemodynamic vascular trauma, treatment adequacy, patient comfort and operator safety. The study has been conducted by researching, reviewing and selecting scientific articles through search engines and specialized journals. The peculiarities of the device's design allow to expand the current possibilities in the practice of cannulation, producing positive outcomes for the patient and the operator. There is a need, however, for further studies and an update of device's features.

**Reference:**

Nardinocchi, M. D., Manocchi, K. and Traini, T. (2020) The appropriateness of cannulation devices in the management AVF. *Giornale Italiano Di Nefrologia*. 37(3), p.1-15.

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