

It is supposed to reduce the risk of infection and stacking of the anatomical site where cutaneous puncture with fixation of peripheral, central or arterial catheters is performed” Soriano (2015) et al.

Abstract:

INTRODUCTION: skin fixing devices in peripheral, central or arterial catheters have several important drawbacks: site infection, stacking of material in the anatomical area which is very annoying for the patient and medical staff risk when fixating stitches are used.

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OBJECTIVE: to develop a fixing device that simplifies presently used systems, favoring asepsis and motility.

METHODS: the device herein described is composed by a mechanical fixation, a closing system and coupling for intravenous catheters. The system has a thin circular piece with at least two holes for subcutaneous fixation, one or several conducts for lumina and a hollow cylindrical part in one side, screwed exteriorly and flat inside, with an oriented protuberance. A watertight plug with one or several thin tubes that adapt to the lumina, a positional slot, a handle and a solid screwed tap for perfect closure are available for at home use. An intermediate plug with one or several lumina and a screwed hollow plug are provided for in hospital use.

RESULTS: the above described device is intended to be used in two settings: in hospital and at home. It is supposed to reduce the risk of infection and stacking of the anatomical site where cutaneous puncture with fixation of peripheral, central or arterial catheters is performed.

Reference:

Soriano, E., García, J.M., Blaya, F., Islán, M.E., Gallego, L.T., Franco-Lopez, Á. and Garcia de Lorenzo, A. (2015) Fixing device for closing and coupling an intravenous catheter. *Nutrición Hospitalaria*. 32(3), p.1382-5. .



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