

ABSTRACT

BLOOD-TAKING NEEDLE WITH AUTOMATIC NEEDLE RETRACTION

An auto-retractable blood collection needle, including: a needle holder (1) including a first tube (11), a second tube (12) and a holder tail (13); a needle (2) installed in the first tube (11); a built-in sliding sleeve (3) which is elongated and through and has a C-shaped cross section; a needle shield (4) which is hollow and elongated; and a spring (not shown) sheathed on the first tube (11). The second tube (12) is installed in the built-in sliding sleeve (3) and is capable of sliding back and forth. The built-in sliding sleeve (3) is installed in the needle shield (4) and is capable of sliding back and forth. A locking mechanism is formed by the holder tail (13) and the needle shield (4). When the holder tail (13) is unlocked from the needle shield (4), a force of the spring pushes the second tube (12) to slide backward, and then the built-in sliding sleeve (3) is driven to slide rearward to lock with the needle shield, so that the needle is fully retracted into the needle shield. The auto-retractable blood collection needle of the present invention can prevent needlestick injuries and cross infections, reduce the damages of the needle to vessels of patients, and miniaturize product designs.

(FIG. 1)