

A New Type of External Penile Support Device

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Abstract

The application of current penile support devices is very limited because it will cause a strong foreign body sensation in most women. In order to improve the overall satisfaction of women, this article proposes a new penile support device, namely the erection band.

Keywords: Erectile Dysfunction; Penile Support

Penile support has a long history, but so far, its practical application is very limited, because it will cause a strong foreign body sensation during most female intercourse. Current penile support mostly uses two rigid rods to provide longitudinal support [1,2]. Therefore, their outer contours are irregular and hard. In order to improve the overall satisfaction of women, this article proposes a new penile support device, namely the erection band. **Figure 1a** shows the structure of the erection band, which consists of a double-layer cloth and a serpentine wire embedded therein [3]. Therefore, the erection band is

actually a soft belt. However, when rolled into a tube, it can provide a longitudinal support force greater than 1 kg. As shown in **Figure 1b**, the typical size of the erection band is 130mm x 60mm. Obviously, the erection band has good size adaptability. In fact, it is suitable for all patients with penis diameter less than 40mm. The erection band is designed for patients with moderate to severe erectile dysfunction. It is very easy to use. Just wrap it on the penis shaft and tightly tie it with packing tape, as shown in **Figure 1c**, then wear a condom or a piece of penis sleeve, as shown in **Figure 1d**.

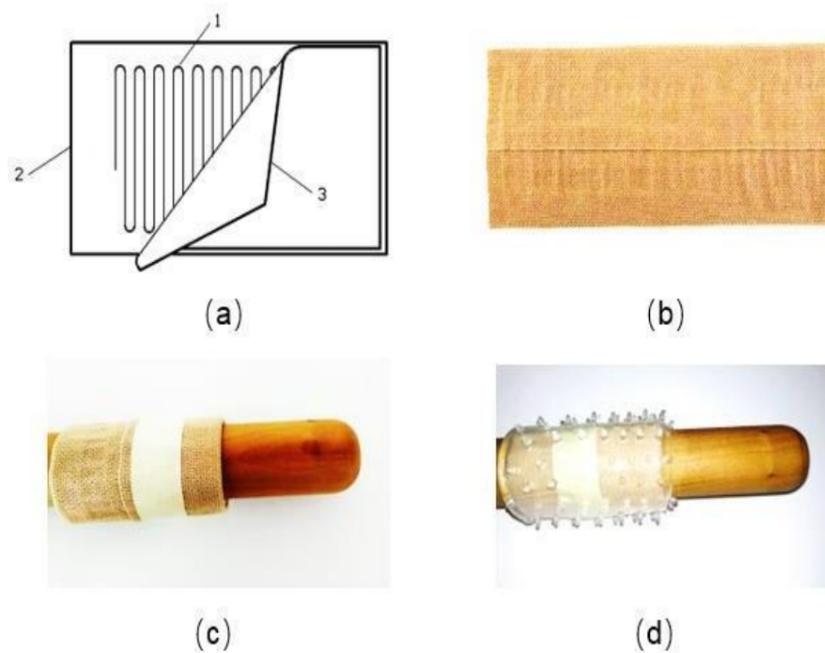


Figure 1: Erection band

- (a) The structure of the erection band: 1- Metal wire; 2,3- Double-layer cloth,
- (b) Typical erection band,

- (c) Wrapped around the penis and tied with tape,
- (d) Covered by penis sleeve.

Compared with the existing penile support, since the erection band covers more areas of the penis, the overall satisfaction of the patient will slightly decrease. However, the outer contour of the erection band

in use is a normal cylindrical shape, which will significantly improve the feeling of women.

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