Novel technique to repair leaked biliary stone extraction balloon

Accessories used for biliary stone extraction include balloon catheters and wire baskets. The stone extraction balloon consists of a catheter with a soft, pliant balloon located at the tip [1]. Although these balloons are meant for single use, in developing countries these balloons are reused after sterilization with ethylene oxide. Mostly these balloons get punctured by the sharp edges of stones and leak from the proximal end, or sometimes they burst due to excessive pressure applied during stone extraction. We present a simple method to repair leaked balloons and to reuse them in case of emergency and in centers with limited resources (▶Video 1).

METHOD: Locate the leakage site by immersing balloon 1 in water and inflating it. During inflation, bubbles will be seen coming from the leakage site (▶Fig. 1). After locating the point of leakage, dry it with a piece of gauze. Take another damaged balloon (balloon 2) and locate the area with an intact latex sheath (▶Fig. 2). Cut balloon 2 at one end so as to obtain an intact ring of latex sheath (▶Fig. 3). Now put the ring over balloon 1. Use forceps to place it exactly over the leaking area. Apply instant adhesive and fix the ring over the balloon 1 (▶Fig. 4). Let it dry. Check the balloon for any leakage. Sterilize it with ethylene oxide. It can now be used for stone extraction (▶Fig. 5).

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Competing interests

The authors declare that they have no conflict of interest.
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