Title
Low-cost Priapism Model for Emergency Medicine Simulation: Detumescence using Intracavernosal Suction (DICS)

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8 Low-cost Priapism Model for Emergency Medicine Simulation: Detumescence Using Intracavernosal Suction (DICS)

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**Background:** Priapism is a relatively uncommon ED complaint. However, it is imperative for an ED physician to know how to rapidly relieve this painful threat to male genitourinary health. Providers must ask personal, and sometimes uncomfortable, questions to their patients to determine the etiology (low-flow vs high flow) and then conduct the proper procedure. Having familiarity with the steps involved and practicing the procedure in a simulated environment aids future providers when they will one day be tasked with treating a priapism without immediate urologic backup.

**Educational Objectives:** To construct a low-cost, realistic model of a human penis that can be used in emergency medicine simulation to teach residents penile nerve blocks, priapism cavernosal aspiration, and other minor procedures (i.e.: zipper entrapment).

**Curricular Design:** Plaster of Paris molds were made using a commercially available phallic model. Flexible silicone was dyed with flesh-colored pigment and poured into the molds. Two wooden dowels were inserted to represent the space occupied by the corpus cavernosi. Once cured, the penises were removed and the dowels were extracted. The corpus cavernosi were made from balloons with tubing from posterior nasal packing that was inserted and tied shut. These balloons were inserted into the spaces left by the wooden dowels. Priapism was replicated by insufflating “blood” (water/corn starch/red food coloring mixture) from a syringe through the tubing. This is then detumesced via manual needle aspiration after a penile nerve block has been performed.

**Impact/Effectiveness:** Currently, there is a lack of readily available task trainers for male urologic emergency procedures. For the cost of less than $15 per model, our device provides a surprisingly realistic trainer for these rare procedures. Each model is reusable, as only the “corpus cavernosi” balloons need to be replaced per learner. Additionally, each one can be used for myriad urologic procedures.