CHAPTER 6

GENITOURINARY SYSTEM
## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEMALE CATHETERIZATION SIMULATOR</td>
<td>51</td>
</tr>
<tr>
<td>MALE CATHETERIZATION SIMULATOR</td>
<td>51</td>
</tr>
<tr>
<td>UROLOGICAL EXAMINATION PHANTOM FOR ENDOSCOPIC OPERATIONS</td>
<td>52</td>
</tr>
<tr>
<td>PELVIC BONE WITH FETAL SKULL</td>
<td>53</td>
</tr>
<tr>
<td>EVA PELVIC TEACHING MODEL</td>
<td>54</td>
</tr>
<tr>
<td>CERVICAL DILATATION/EFFACEMENT SIMULATORS</td>
<td>54</td>
</tr>
<tr>
<td>LABOR DELIVERY MODULE</td>
<td>55</td>
</tr>
<tr>
<td>BIRTHING PROCESS, 5 STAGES</td>
<td>56</td>
</tr>
<tr>
<td>PELVIS IN MEDIAN SECTION WITH UTERUS IN NINTH MONTH OF PREGNANCY</td>
<td>57</td>
</tr>
<tr>
<td>TESTICULAR EXAMINATION SIMULATOR</td>
<td>57</td>
</tr>
<tr>
<td>EPISIOTOMY TRAINER</td>
<td>58</td>
</tr>
<tr>
<td>EPISIOTOMY SUTURING SIMULATOR</td>
<td>58</td>
</tr>
<tr>
<td>OBSTETRICAL MANIKIN</td>
<td>59</td>
</tr>
<tr>
<td>THE EMPATHY BELLY PREGNANCY SIMULATOR</td>
<td>60</td>
</tr>
<tr>
<td>BIRTHING MECHANISM</td>
<td>61</td>
</tr>
<tr>
<td>ADVANCED CHILDBIRTH SIMULATOR</td>
<td>62</td>
</tr>
<tr>
<td>REPRODUCTION AND DEVELOPMENT KIT WITH VHS</td>
<td>63</td>
</tr>
<tr>
<td>DISPOSABLE VAGINAL SPECULA ILLUMINATION SYSTEM</td>
<td>64</td>
</tr>
</tbody>
</table>
Catheterization is one of the basic skills all nursing students must learn, and to learn the techniques, they must practice. Any patient volunteers? Not likely! But simulators allow demonstration and practice in urinary catheterization without embarrassment or discomfort to the patient or the students. In addition, catheterization simulators are useful for anatomical identification and demonstration of perineal care. The realism of Catheterization Simulators will help your students bridge the gap, from classroom to bedside, with ease and comfort.
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**UROLOGICAL EXAMINATION PHANTOM FOR ENDOSCOPIC OPERATIONS**

**Phantom comprises:**

- Natural size trunk, made of special plastic with interchangeable genitalia
- On a base with a water tray
- Male genitalia with urethra and interchangeable prostate and connection to the bladder
- External female genitalia with urethra and connection to the bladder
- Prostate capsule can be filled with natural or synthetic materials
- Bladder is split and joined together with a sealing ring

- Bladder incorporates four openings:
  - The front connection to either the prostate or urethra
  - The top to take a bladder trocar or for drainage
  - The back wall for providing tissue, if necessary, for measuring pressure or the insertion
    of electrodes
- An opening for the plug connector for draining the contents of the bladder with the pertinent shut-off and drain hose

- All endoscopic operations can be practised on the phantom using ultrasound or lasers

- Phantom is also suitable for various experimental examinations. For example: testing and assessing new methods in high frequency technology, pressure and flow measurements, testing new instruments etc.

### PELVIC BONE WITH FETAL SKULL

A female pelvis fetal skull is designed to demonstrate the birth process. The skull is fastened to a flexible shaft to allow passage, in different positions, through the pelvic outlet.

**Skills**

- Demonstrates the birth process
- Demonstrates forceps and vacuum deliveries
EVA PELVIC TEACHING MODEL

A lifelike female pelvis for developing diagnostic skills in gynecologic procedures, anatomical instruction, abdominal palpation, and speculum instruction. EVA allows the comprehensive, stress free introduction of gynecological examinations, or more advanced tactile comparisons of pelvic pathologic conditions in a classroom setting easing the way into clinical experience. Constructed of soft, easily cleaned, vinyl materials that approximate skin texture, EVA provides detailed, life-like anatomical features and references. Included are the following interchangeable inserts: normal cervix for IUD insertion and removal, normal parous cervix, cervix with endocervical polyp, cervix with ectropian characteristics, cervix with neoplasia (carcinoma), normal uterus for IUD insertion and removal, pregnant 10-week uterus, and two adnexal masses.

CERVICAL DILATATION/EFFACEMENT SIMULATORS

These simulators are designed to facilitate the teaching, demonstration, and practice of cervical examination prior to birth. Every effort has been made to provide exceptional realism in these simulators so that the visual and tactile sensations experienced provide a positive transition to patient procedures. The complete simulator set consists of six separate 5" x 5" x 5" pelvic blocks. The external appearance of all six blocks is identical with the variations being in the internal
structure. Internal texture, tissue density, and correct anatomical size are all carefully represented to provide the most realistic condition possible. The simulators depict six different cervical conditions prior to birth. Each pelvic block is clearly identified on the bottom to indicate which condition exists internally. The different conditions depicted are: Stage 1 (no dilatation, no effacement), Stage 2 (2 cm dilatation, 50% effacement), Stage 3 (2 cm dilatation, full effacement), Stage 4 (5 cm dilatation, full effacement), Stage 5 (7 cm dilatation, full effacement), and Stage 6 (9 cm dilatation, full effacement). With predetermined measurements of the internal cervical condition, all guesswork or estimating on the part of the student and instructor is eliminated. Almost everyone’s tactile understanding of 2 cm, 5 cm, 7 cm, and 9 cm dilatation and effacement conditions is identical, eliminating misconceptions and inaccurate patient condition evaluations.

**Skills**

Facilitate the teaching, demonstration, and practice of cervical examination prior to birth

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**LABOR DELIVERY MODULE**

Six labor stations selected to represent conditions of the cervix and vagina prior to labor, during labor, and at birth in a primigravid woman. Stations illustrated are: STA -5 prior to onset of labor, STA -4 cervix partially effaced, STA -3 cervix fully effaced, STA 0 fetal head at plane of ischial spine, STA +2 cervix nearing full dilation, and STA +5 crowning of the fetal head.
Anatomical representation of human birth. 5 stages of the birthing process, mounted individually on bases:

- Fetus in womb, cervix closed
- Fetus in womb, cervix open
- Fetus in womb, start of head passage
- Fetus in womb and pelvis, finish of head passage
- Placenta in the womb
Natural size pelvis cross section with removable fetus showing many different structures.

Self-examination of the testicles is just as important as self-examination of the female breasts for early detection of tumors. Providing exceptional realism, this simulator features soft, thin outer skin with delicate underlying structures and four embedded, simulated tumors. Ideal for teaching proper palpation techniques.
EPISIOTOMY TRAINER

For practice and repair of episiotomy, and repair of perineal lacerations.

Skills

- Performing an episiotomy
- Tissue layer identification and handling
- Deep musculature suturing
- Subcuticular suturing
- Superficial suturing

EPISIOTOMY SUTURING SIMULATOR

This episiotomy simulator provides a realistic way for students to learn surgical techniques without the constraint of time and concern for safety, which are factors with a live patient during
childbirth. In addition to being portable, the lifelike texture of the episiotomy simulator allows the learner to develop a "feel" for instrument handling, tension on suture and the advantages of one method of tying knots over another. The episiotomy set includes midline-, left mediolateral- and right mediolateral- episiotomies.

OBSTETRICAL MANIKIN

An anatomically correct pelvic model with full term new born and placenta to give your trainees realistic practice in multiple techniques, and to learn the procedure for emergency childbirth. The lifelike pelvic cavity has pronounced pelvic landmarks, located spinal column, angled birth canal, ilium, ischium, sacrum, sacro spinous ligaments, and great sciatic notch For realistic practice of delivery techniques.

Skills

- Leopold's Maneuver
- Emergency Childbirth
THE EMPATHY BELLY PREGNANCY SIMULATOR

A specially designed multi-component, weighted vest that allows men, women, boys, and girls to temporarily experience typical symptoms and effects of being pregnant.

Over 20 symptoms and effects of pregnancy are felt including:

- Awkwardness in body movements
- Change in personal and sexual self-image
- Increased body temperature and perspiration
- Mild fetal kicking “movements”
- Postural changes of back and shift in center of gravity
- Pregnant profile – enlarged breasts and abdomen
- Pressure on bladder and other internal organs
- Shortness of breath
- Weight gain of 30-33 lbs.
BIRTHING MECHANISM

Features

- Removable end-plate for insertion of automatic birthing system
- Removable cervixes automatically dilate as labor progresses
- Advance and rotation of fetus through birth canal
- Crowning of fetal head
- Manipulation of the vulva to pass the forehead, nose, and ears
- Syringe mouth and nose
- Rotation of the shoulders to enable correct delivery technique of neonate

Birthing fetus
This versatile childbirth simulator is used worldwide by healthcare educators. It not only provides an excellent simulation of the normal delivery experience for the student and educator, but also provides instruction in abnormal and multiple deliveries.

This childbirth simulator offers the ability to demonstrate the following obstetric procedures:

- Normal vaginal delivery
- Complete, frank, and footling breech birth
- C-section delivery
- Ritgen’s maneuver
- Episiotomy
- Vertex presentation
- Intrauterine manipulation
- Multiple births, including Vertex/vertex, vertex/breech, breech/vertex, and breech/breech presentation.
- Prolapse of umbilical cord
- Demonstration of placenta previa: total, partial, and marginal
- Vacuum extraction (with optional vacuum delivery fetus)
• Normal delivery of umbilical cord and placenta
• Palpation of fetal fontanelles
• Simulated suction of nose and mouth

There’s no better way to depict the actual size and developmental stages of a fetus than with these incredibly realistic replicas! Nine dramatic, fetal reproductions show the stages of human development in a unique, innovative way – through hands-on plastic models and replicas each student can examine and study. Four models of the early stages of the embryo and five actual replicas of the growing fetus are included. The kit offers a direct and complete approach to an understanding of human reproduction from fertilization to birth. The accompanying text and teaching guide provide in-depth background information and study questions, along with 13 transparencies and 12 reproducible blackline masters. The multimedia kit also includes The Miracle of Life VHS program, which tells the fascinating story of embryonic and fetal growth.
DISPOSABLE VAGINAL SPECULA ILLUMINATION SYSTEM

- Unique integrated light source transmits superior illumination for a more accurate diagnosis
- Eliminates positioning of an external light source
- Integrated on/off switch close to the task area for operational convenience
- New ergonomic design allows for easy cleaning
- Reengineered, more robust cable for your busy practice needs
- New lamp design with improved lamp life
- Provides greater visualization of the exam area