

Mystic®II





Obstetrical Vacuum Assist Delivery System

QUICK REFERENCE GUIDE

This document is not intended to be the directions for use. Please refer to the instructions for use included with each Mystic II device.



Soft Bell Style Cups should be used for OA presentations (70% - 85% of deliveries)

The Cochrane Database¹ and UpToDate² both suggest using soft, bell-shaped vacuum extractors for uncomplicated, occiput anterior deliveries. Mystic II MitySoft Bell Cup happens to be one of the softest most patient friendly bell cups on the market today.

Boffil, James A., MD, et al., The Mississippi Operative Vaginal Delivery Trial: Lessons Learned , Contemporary OB/GY/ Schifrin, Barry S., MD, et al., Cutting Your Legal Risks with Vacuum Assisted Delivery , OBG Management, June 1994

Vacuum Assisted Vaginal Delivery Guideliines

- For MitySoft Bell Cup, remove the protective lid from the cup before use
- Check the integrity of the Mityvac Mystic II Obstetrical Vacuum Assist Delivery System by pressing the cup to the palm of your gloved hand and applying vacuum. The gauge needle should remain steady. (NOTE: The gauge needle should rest in the ZERO box when vacuum is not applied.)

CAUTION: DO NOT USE DEVICE IF GAUGE NEEDLE DOES NOT INDICATE ZERO IN THE ABSENCE OF A VACUUM.

- Optional: Connect a vacuum tracking device such as the Medevco VacuLink to the Luer Lock fiitting after unscrewing the cap. Then follow their directions for use provided.
- Carefully examine fetal presentation and position prior to placing the cup over the flexion point. WARNING: DO NOT USE PRODUCT IF FLEXION POINT IS NOT ACCESSIBLE.
- To insert the MitySoft Bell Cup, grasp the cup with the fingers and fold edges inward to facilitate insertion (see Figure 1). To insert the M-Style Mushroom Cup, fold the cup against the stem at a 90 degree angle (see Figure 2).

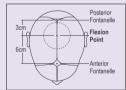




M-Style Mushroom Cup - With the stem in the bent position, grasp the mushroom shaped portion of the cup with the fingers. The stem should be parallel to palm and wrist. Separate the labia with the other hand. Continuing with the stem in the bent position, press the cup portion downward and inward over the fourchette to make contact with the fetal scalp. Apply the cente of the cup over the flexion point (see Figure 3). The flexion point can be located by identifying the posterior fontanelle and then moving the finger anteriorly along the sagittal suture approximately 3 cm. The sagittal suture should pass under the middle of the cup.

MitySoft Bell Cup - Separate the labia with the other hand. Press the cup portion downward and inward over the fourchette to make contact with the fetal scalp. Apply the center of the cup over the flexion point (see Figure 3). The flexion point can be located by identifying the posterior fontanelle and then moving the finger anteriorly along the sagittal suture approximately 3 cm. The sagittal suture should pass under the middle of the cup.

CAUTION: NEVER APPLY THE CUP TO ANY PORTION OF THE INFANT'S FACE



- Gently move a finger around the rim of the cup to remove intrusion of extrane
- With the cup placed over the flexion point, raise the vacuum level to approximately 10 cm Hg (yellow shaded area on gauge face) to initiate vacuum. Recheck the rim of the cup for interposed extraneous tissue.
- With the onset of contraction, rapidly raise the vacuum to 38-58 cm Hg (green shaded area on gauge face) and begin applying traction.¹² Always apply traction in harmony with contractions and along the pelvic axis.

CAUTION: DO NOT EXCEED RECOMMENDED VACUUM LEVELS.

Note: Mystic II is self limiting. Mystic II will not allow you to pump into the red area on the gauge.

When the contraction is no longer effective, discontinue traction. You may reduce the vacuum to approximately **10 cm Hg** (yellow shaded area on gauge face) while awaiting the next contraction or maintain vacuum at current level. Reduce vacuur by slowly pushing or pulling on the vacuum release lever located directly beneath the gauge (See Figure 4). 11.



- 12. Recheck for interposed extraneous tissue prior to each tractive effort.
- 13. If traction is misaligned or too forceful, the vacuum cup may disengage (pop-off). In case of pop-off, check fetal scalp for trauma before reapplying vacuum cup.

CAUTION: ABANDON VACUUM ASSISTED DELIVERY IF THE VACUUM CUP DISENGAGES (POPS-OFF) THREE TIMES.

With each successive contraction, draw the head gently over the perineum. Once the head is delivered, release vacuum and remove the cup. Continue delivery in the usual manner. In the unlikely event the vacuum does not release, unscrew Luer Lock cap at the bottom of the handle.

. CAUTION: DO NOT OPERATE VACUUM PUMP AT TRACTIVE LEVELS FOR MORE THAN TEN CUMULATIVE MINUTES OF TRACTION OR TOTAL PROCEDURE TIME OF 15 TO 30 MINUTES.

- Carefully examine infant's head and observe vital signs at regular intervals to ensure infant's well being.
- Dispose of the Mityvac Mystic II delivery system in accordance with all applicable Federal, State and local Medical/ Hazardous waste practices.
- 17. Document the use of the Mityvac Mystic II delivery system and notify nursery staff per hospital protocol.



For Non OA Presentations use the NEW Mystic II M-Style Low Profile Mushroom Cup (roughly 20% of all deliveries are Non OA).

- Check the integrity of the Mityvac Mystic II Obstetrical Vacuum Assist Deliver System by pressing the cup to the palm of your gloved hand and applying vacuum. The gauge needle should remain stacky, (NOTE: The gauge needle should rest in the ZERO box when vacuum is not applied.) CAUTION: DO NOT USE DEVICE IF GAUGE NEEDLE DOES NOT INDICATE ZERO IN THE ABSENCE OF A VACUUM.

- If the fetal head is high and accessible beneath the uterine incision, wipe the scalp as clean as possible and place vacuum cup over the flexion point. If the head is low and in accessible, place gloved fingers under the head and flex upward to bring the scalp under the uterine incision. Wipe scalp as clean as possible and apply the vacuum cup to the flexion point.

 CAUTION: NEVER APPLY THE CUP TO ANY PORTION OF THE INFANT S FACE

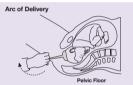
- Raise the vacuum to 38-58 cm Hg (green shaded area on gauge face) and begin applying traction to gently bring the head upward through the incision.^{1,2}

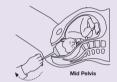
- ument the use of the Mityvac Mystic II delivery system and notify nu

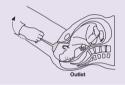
Prerequisites For Vacuum Assisted Cesarean Delivery • Proper indication for operative delivery

Proper indication for use of the vacuum assisted delivery device

Bofill, James A., MD, et al., The Mississippi Operative Vaginal Delivery Trial: Lessons Learned Contemporary OB/GYN, October 1998.







- DO NOT exceed recommended vacuum levels.
 Never apply the vacuum cup to any portion of the infant's face.
 Vacuum assisted delivery should only be performed or supervised by a trained and experienced healthcare provider.
- There should be a willingness to abandon attempts at vacuum extraction if satisfac progress is not made. (ACOG Technical Bulletin #196, Aug. 1994).

- Abandon vacuum assisted delivery if:

 a. Vacuum cup becomes disengaged (pope-off) three times.

 b. Vertex has not advanced substantially with each traction attempt.

 c. There is evidence of fetal scalp trauma.

 d. Cumulative traction time exceeds 10 minutes or total vacuum pro exceeds 15 to 30 minutes.

ication is absource.

Non-reassuring fetal status

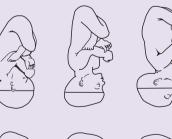
Failure to deliver spontaneously following an appropriately managed second stage of labor

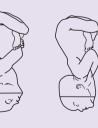
nal: Need to avoid voluntary expulsive efforts Inadequate expulsive efforts

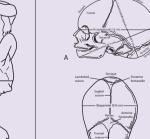
- Non-vertex positions (breech or transverse lie/position) or face or brow presentation
 Suspected cephalopelvic disproportion
 Previous scalp sampling
 Suspected macrosomia, or risk of shoulder dystocia
 Falied vacuum or forceps attempt
 Less than 34 weeks gestation
 Unengaged vertex
 Incompletely dilated cervix
 Need for device rotation
 Suspected fetal bleeding abnormalities

These instructions are intended as general guidelines. Practitioners should refer to curren institutional and recognized guidelines that address vacuum assisted delivery.

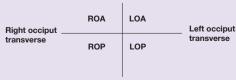
Important Landmarks











Occiput posterior



