Non-Invasive Cervical Dilation Monitoring

Tech ID: 34201 / UC Case 2021-994-0

BRIEF DESCRIPTION

An innovative ultrasound-based device designed to measure cervical dilation and potentially monitor fetal conditions more accurately and less invasively during labor.

FULL DESCRIPTION

This technology introduces a novel approach to labor monitoring, utilizing a narrow linear ultrasound probe embedded in a Foley catheter. It aims to provide precise measurements of cervical effacement and dilation, offering an alternative to traditional, often invasive, cervical checks. With the capability for high-resolution imaging and potential for additional fetal monitoring, this device represents a significant advancement in obstetric care, enhancing safety and comfort for laboring women.

SUGGESTED USES

- Obstetric care in hospitals and maternity clinics for labor monitoring.
- Potential use in remote or low-resource settings where traditional monitoring is challenging.
- Integration into existing labor and delivery protocols to enhance patient care

ADVANTAGES

- Non-invasive alternative to traditional cervical checks, potentially reducing infection risks.
- High-resolution imaging for accurate measurements of cervical dilation and effacement.
- Embedded in a Foley catheter, leveraging existing epidural procedures for ease of use.
- Potential capabilities for additional fetal monitoring, including blood oxygenation levels.
- Provisional patent filed, indicating a protectable and innovative approach.

PATENT STATUS

Patent Pending

CONTACT

Richard Y. Tun
tunr@uci.edu
tel: 949-824-3586.

OTHER INFORMATION

CATEGORIZED AS

- **Medical**
  - Disease: Women's Health
  - Imaging

RELATED CASES

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5270 California Avenue / Irvine,CA
92697-7700 / Tel: 949.824.2683