FINALIST SHOWDOWN BEST INNOVATORS AND RESEARCHERS



The "push" to stop unnecessary C-section by taking control of labour pain: TENtrol Study

Name: Sahar Raza

Designation: Research Trainee

Organisation: icddr,b



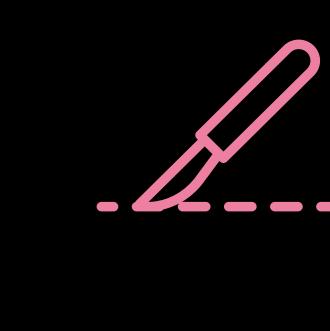




The "push" to stop unnecessary C-section by taking control of labour pain:

TENtrol Study





Caesarean section epidemic in



14.5%

Convenience/

Avoidunces

labour pain

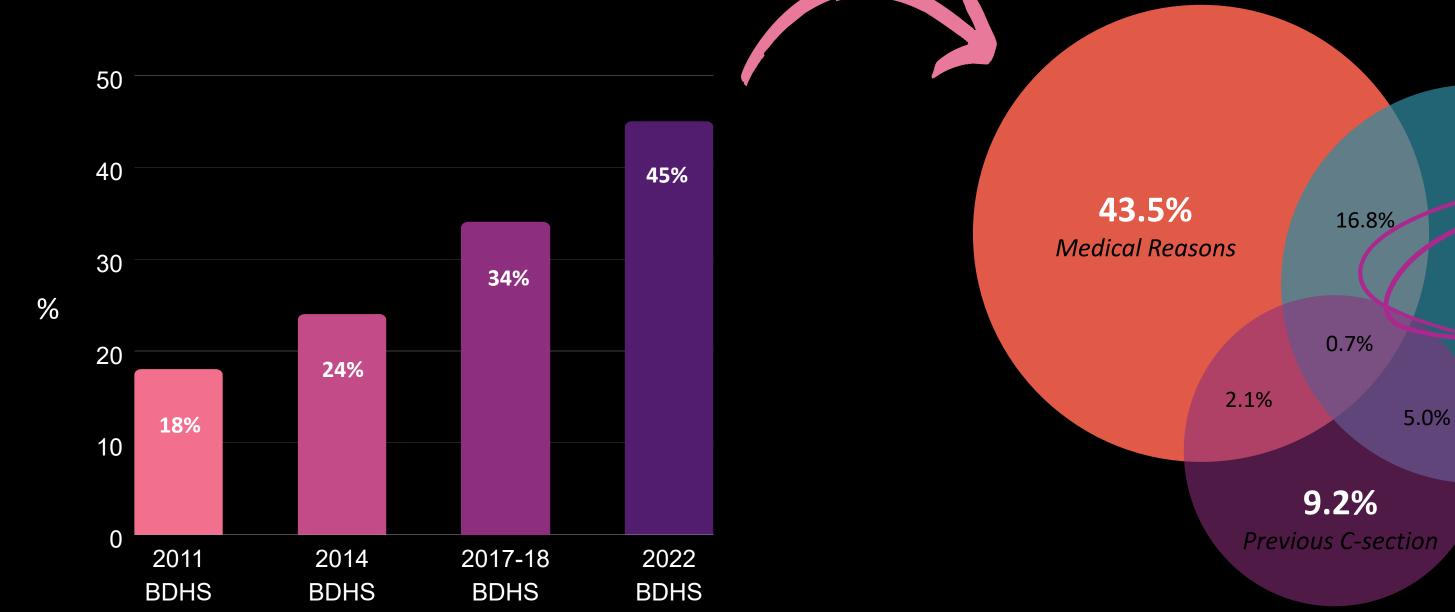


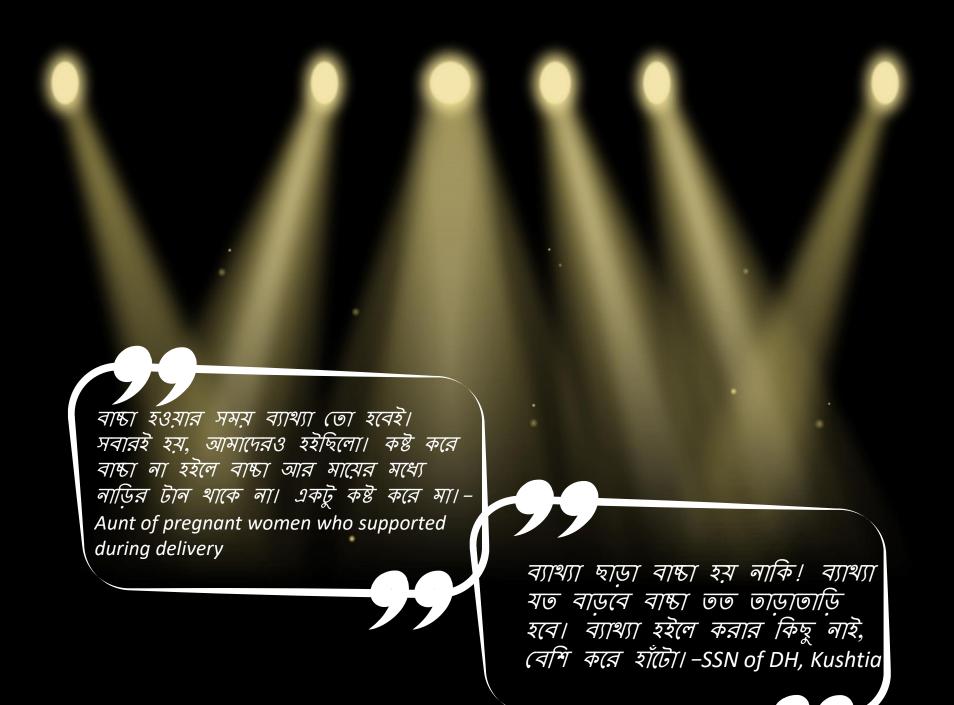
Figure 1: Percentage of C section Births (BDHS)

Figure 2: Women's reported reasons for having a Caesarean section





Management is a Human right Management is a Woman's right





Pharmacological AND non-pharmacological methods of pain

management

for

a positive childbirth experience



Does not acknowledge pain management as a critical issue in rendering birth services

Health facilities

Do not always have resources and expertise to provide epidural

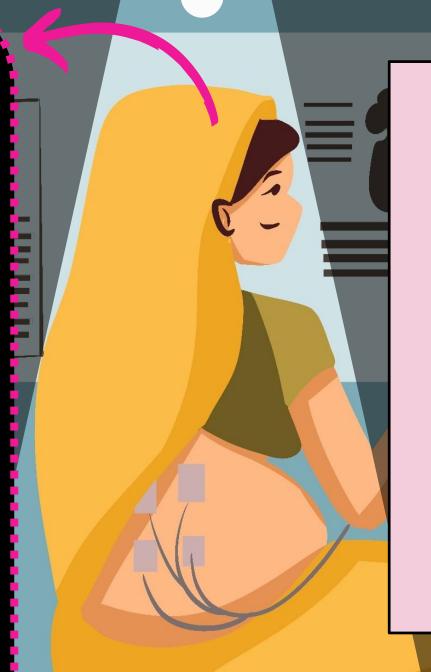


Positive childbirth experience



Sense of control and pain management option

Decrease anxiety and fear



Non-pharmacological approaches



Hypnobirth



TENS machine



Water birth

Pharmacological approaches



Gas and Air (Entonox)



Epidural anesthesia



Opiates



TENS

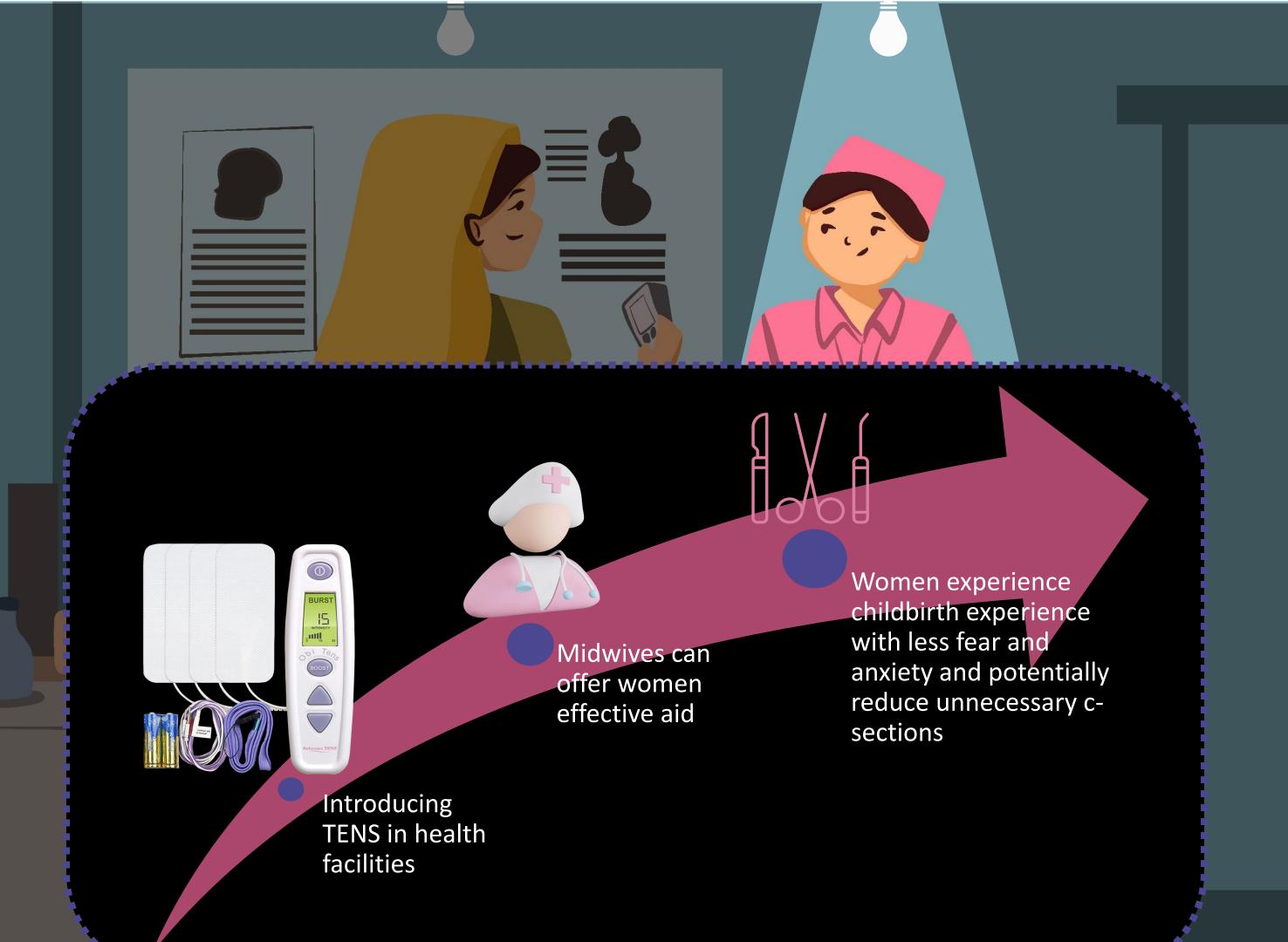
(Transcutaneous electrical nerve stimulation)



Safe
Non-invasive
Low cost (\$80-\$100)
Portable
Reusable
Easy to set up and self operated
Allows movement

Low-voltage electrical impulses through electrodes using the Gate Theory of pain







Safety

→ Number of adverse events

Acceptability

- →Interest to use it by women
- → Agree to recommend it to others after use

Feasibility

- → Perceived easy of use by women and health care providers
- → Number of malfunction events

Benefit

- → Severity of pain
- → Sense of control during labour
- → Satisfaction in pain relief during labour
- → Satisfaction with child-birth experience

Outcome of Interests

Quasi-experimental before-after design:
In two Upazila
Health Complex



- Interview after enrollment:
 Interview of women with
 labor pain immediately
 coming to the health facility
- Interview during labour:
 Interview of women during labour/ giving birth
- Exit Interview:

 Interview of women after giving birth before leaving the hospital



Study Design

Data Collection Methods

months

Month 1-3
Preparation
IRB
Formative Research

Month 4-6
Baseline assessment

- \Box Severity of pain
- ☐ Sense of control during labour
- □Satisfaction in pain relief during labour
- □ Satisfaction with childbirth experience

Month 7-9
Implementation
Training and Trouble
Shooting

□ Interest to use it by women

☐ Agree to recommend it to others after use

Month 10-12

Endline assessment

- ☐ Perceived easy of use by women and health care providers
- □Number of malfunction events
- ☐ Severity of pain
- □Sense of control during labour
- □Satisfaction in pain relief during labour
- ☐ Satisfaction with childbirth experience



