



SIE CESNEN SECTION

by

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VIMS, BELLARY

EVIDENCE- BASED MEDICINE



UNSAFE OBSTETRICIAN

- "Cases of surgeries being done on the wrong patient, on the wrong part of his body and surgical equipment being left behind is very common in India. So a checklist which guides the team at three phases of an operation —
- before induction of anaesthesia,
- before skin incision and
- before the patient leaves the operating room — is vital,"
 - O TOI- 26.06.2008

'Millions die of preventable surgical injuries every year' 26 Jun 2008, 0347 hrs IST, Kounteya

Sinha, TNN

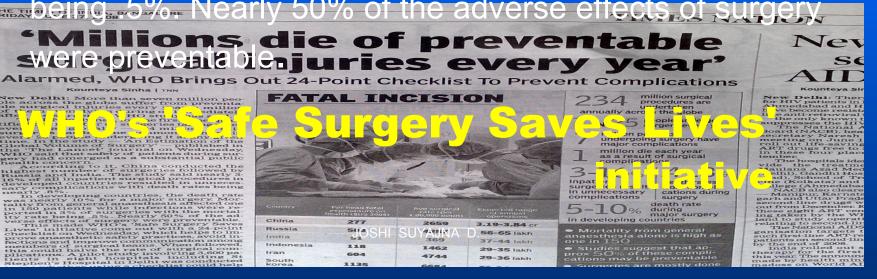
• More than seven million people across the globe suffer from preventable surgical injuries every year, a million of them even dying during or immediately after the surgery, a WHO study has said.



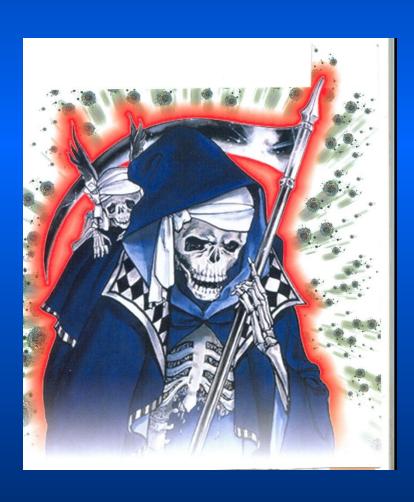
Estimation of the Global Volume of Surgery' — published in the The Lancet' journal on Wednesday 25-06-2008

In developing countries, the death rate was nearly 10% for a major surgery. Mortality from general anaesthesia affected one in 150 patients while infections were reported in 3% of surgeries with the mortality rate

being 5%. Nearly 50% of the adverse effects of surgery.



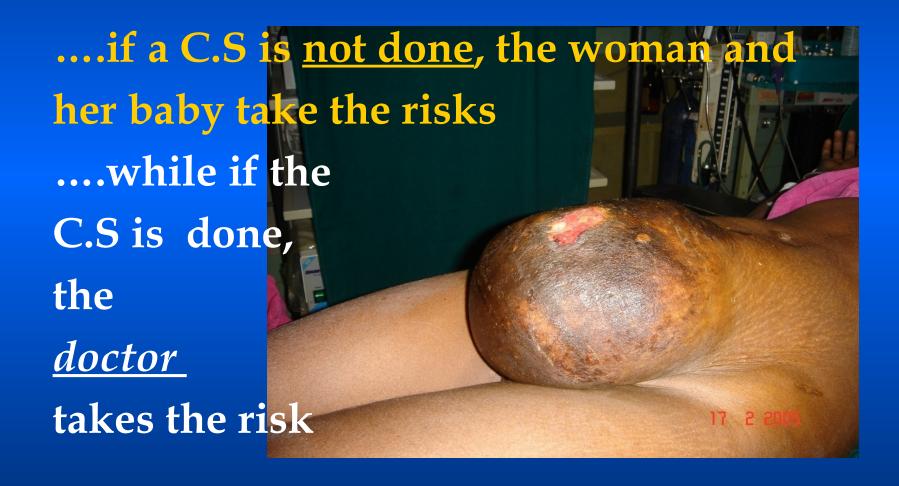
IS C.S. SAFE?



NO!

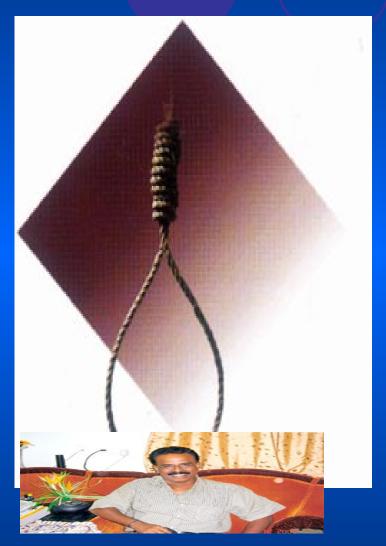


IS C.S. SAFE?



MORTALITY OF PATIENT





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Loss of Pregnant Women's Lives

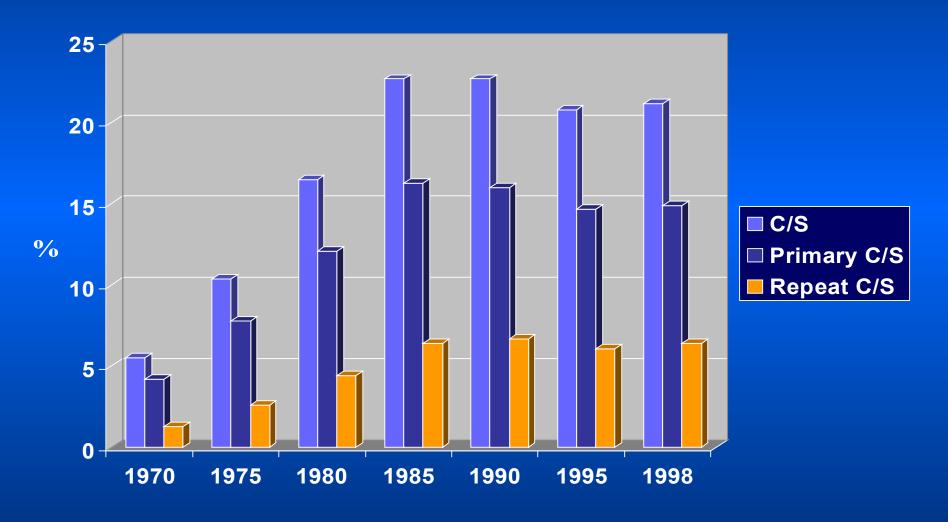
4 loaded 747s everyday!!



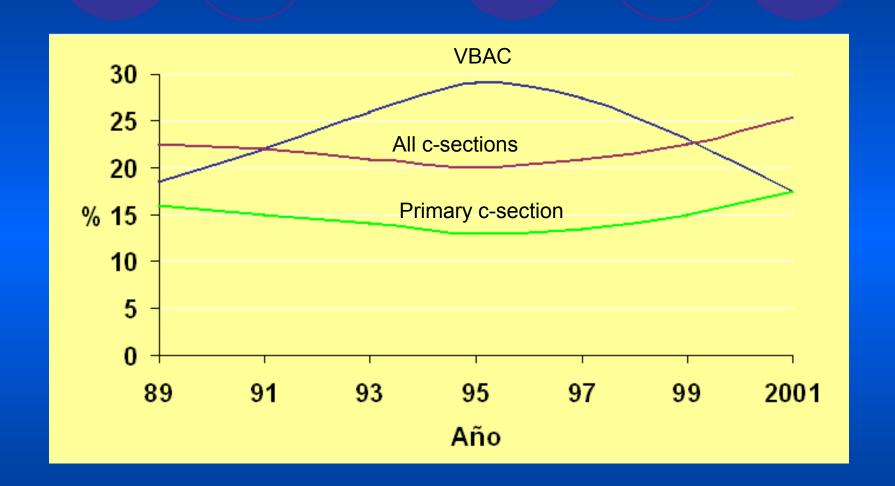




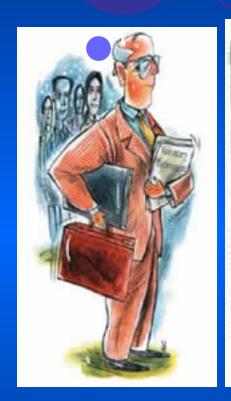
Cesarean Delivery: The Epidemic

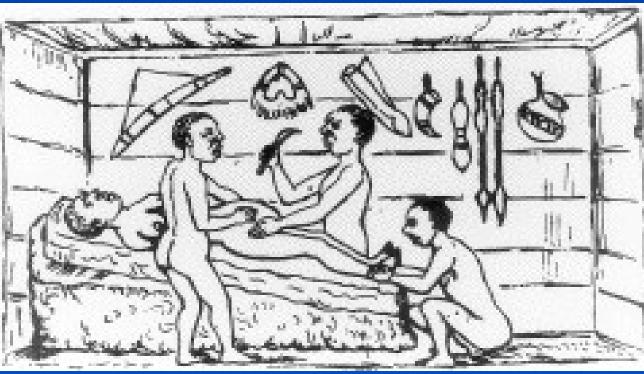


Frequency of cesarean section, primary cesarean and vaginal birth post-c-section between 1989 - 2001



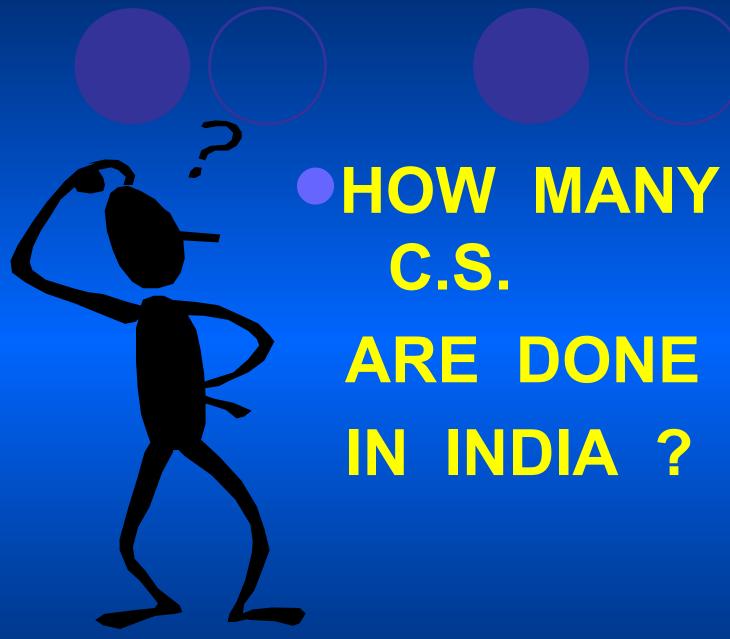
UNNECESSARY c. s.



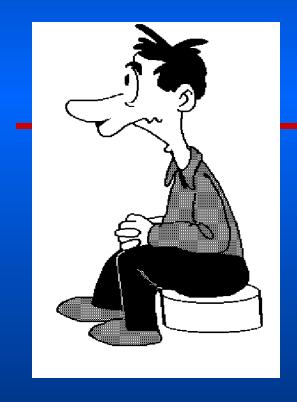


'REDUCE THE QUANTITY

IMPROVE THE QUALITY'



HQH-BELLARY



8%

31%

in

in

1980

2007

15%

C.s. are here to stay Can we make them

safer?





WHO's 'Safe Surgery Saves Lives' initiative came out with a 24-point checklist on 25-06-2008

Trends in Birth: A Transformation of Expectations

Pre- 20th Century

"The mother is the primary patient"

Death of both

Death of mother

20th Century

"The fetus becomes the primary patient once labor commences"
Death of child
Injury to child

Current Trend 21st Century

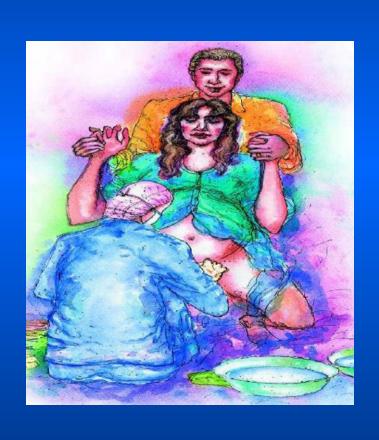
"Perfect outcomes"

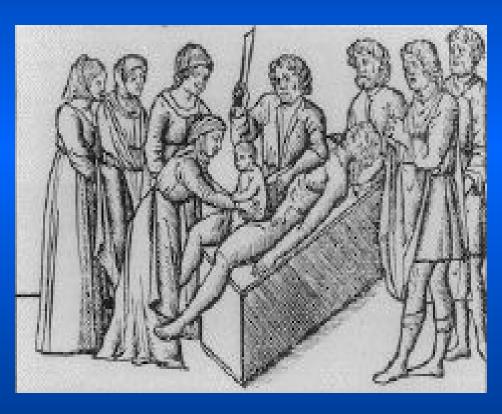
Avoid and injury to mother and child

Adapted from Cesarean Section- A Brief History. ACOG & NIH. 1993

http://www.nlm.nih.gov/exhibition/cesarean

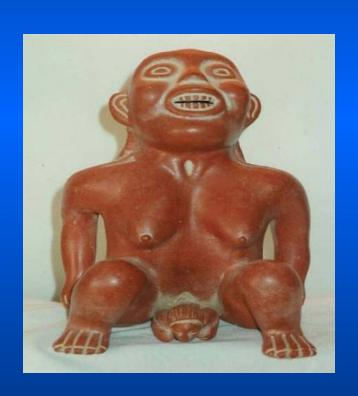
'8' hours Vs '8' minutes





'Delivery 2020'

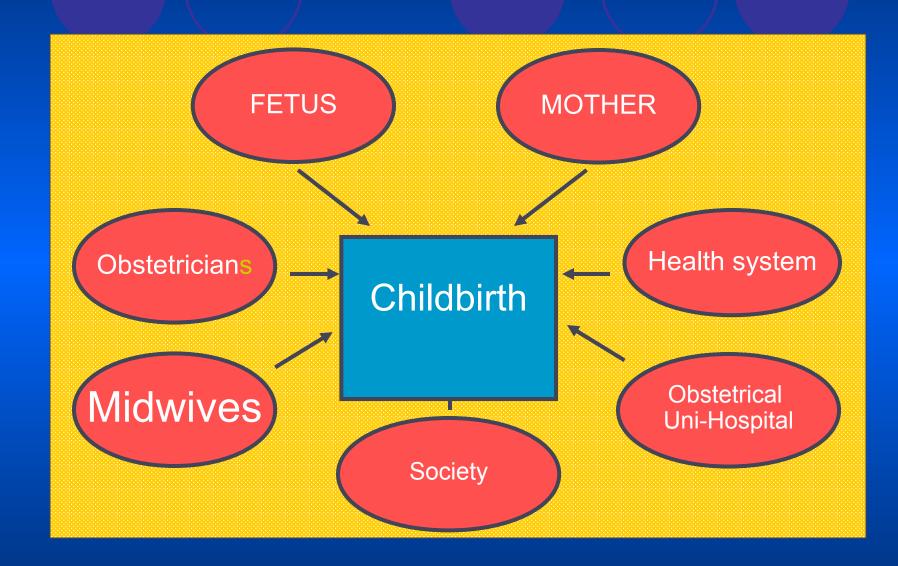
easy normal delivery or



S. C. S.



Who are involved in delivery?



Who are involved?

FETUS MOTHER

obstetrician



Know your patient







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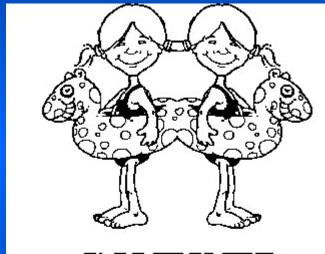
ANAESTHESIA

- Decreased use of General Anesthesia
 - Decreased maternal death rates
- Spinal Anesthesia may provide superior anesthesia as compared to Epidural Anesthesia
 - Anecdotal Reports
- Epidural Opioids provide longer latency and less side effects than IT opioids
 - Epidural opioids typically not given until after delivery of neonate

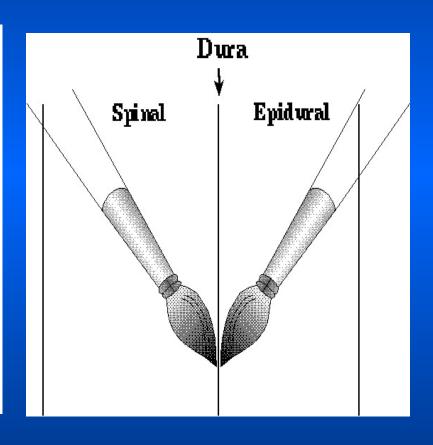
CSE Technique becoming standard in many clinical practices

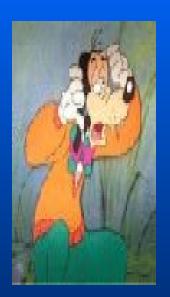
- "Best of both worlds"
- Higher success rates for epidural placement

Best of both worlds

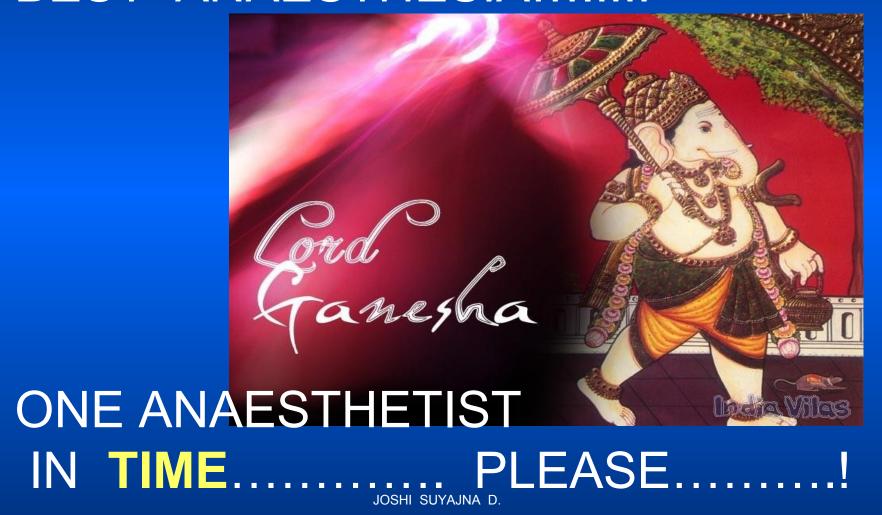


COMBINED
SPINAL-EPIDURAL
ANESTHESIA?





GOOD ANAESTHETIST..... BEST ANAESTHESIA...!!!!



ANAESTHETIST

• 'MANDATORY '

NO SURGERY

WITHOUT ANAESTHETIST

'DOCUMENT HIS PRESENCE'

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O. T.

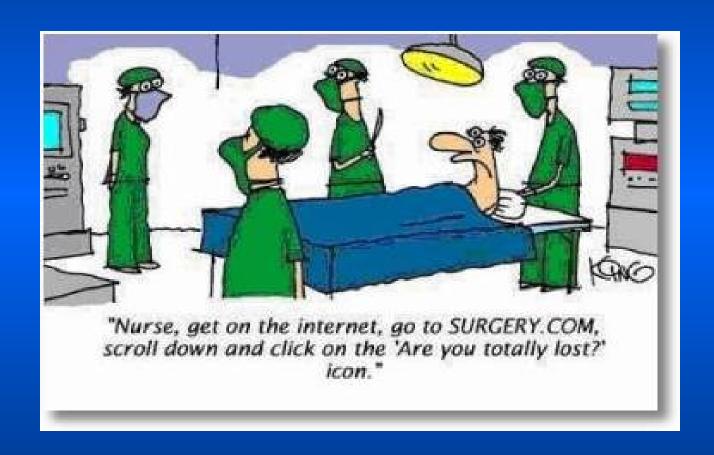
- A. Good Boyle's apparatus
- B. Multipara monitor
- C. Suction apparatus







Decorum of the O.T.



Mobile phone in the O.T.!

NO



NO



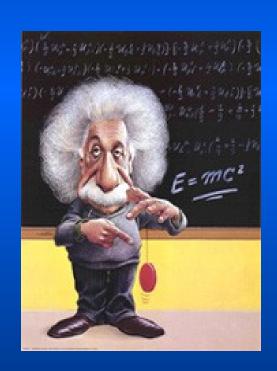


NUMBER OF ASSISTANTS

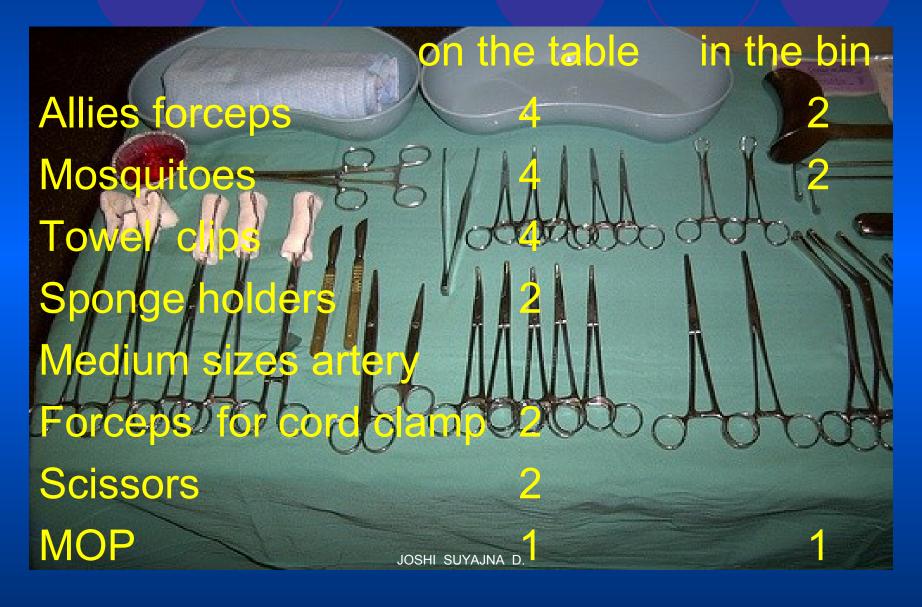




- 1. WHEN THE INSTRUMENTS
 ARE AUTOCLAVED
- 2. ON THE TABLE
- 3. BEFORE CLOSING THE PERITONEUM
- 4. AFTER THE SURGERY
- 5. BEFORE AUTOCLAVING



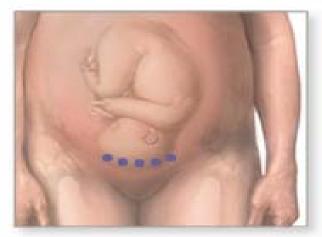
INSTRUMENTS



SKIN INCISION

Horizontal incision







SKIN INCISION

Horizontal incision

"A FRIEND
IN NEED IS A
FRIEND
INDEED"

Vertical incision





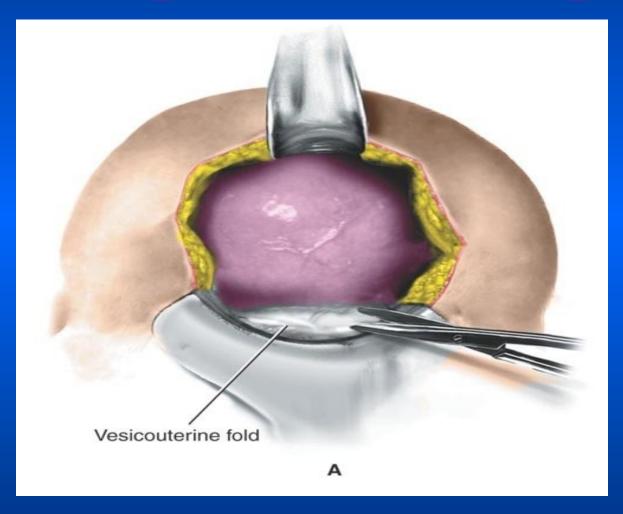




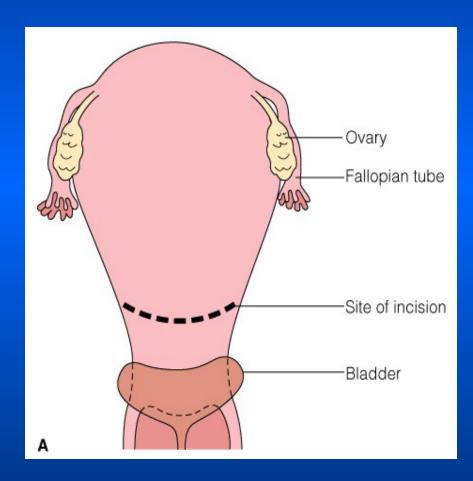
C.S. SCAR-INDIA

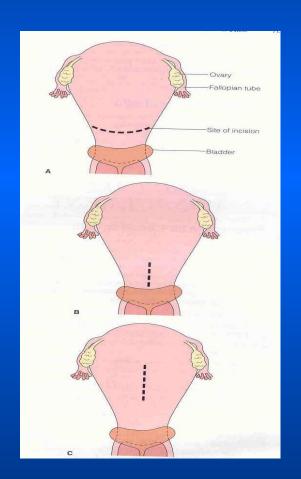


UTERO-VESICAL FOLD

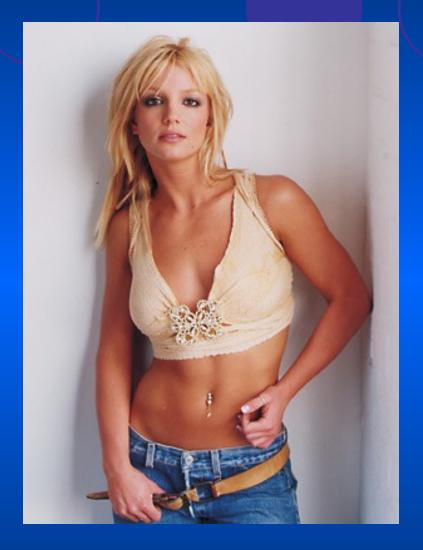


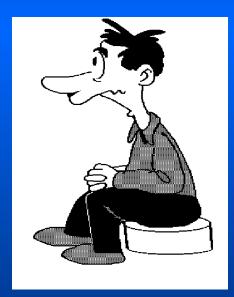
UTERINE INCISIONS





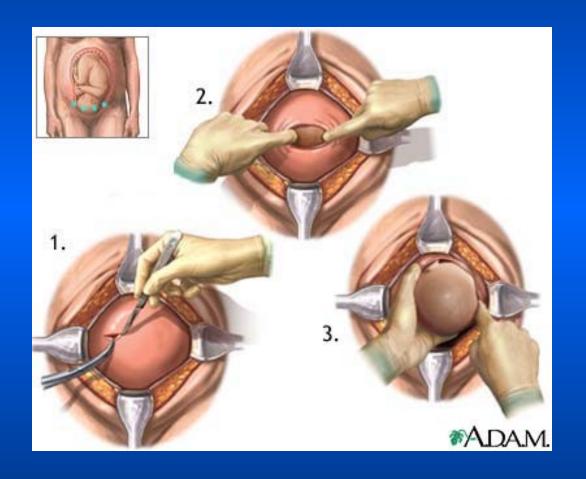
FASHION CHANGES



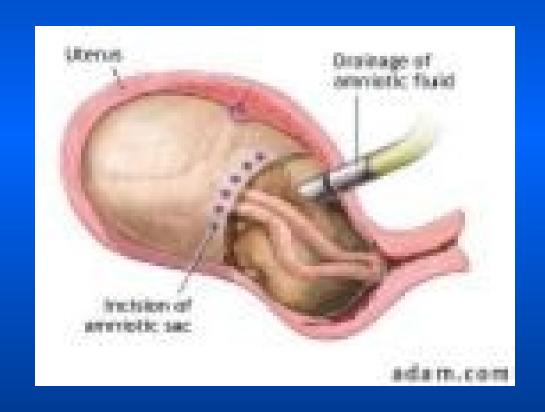


AS LOW AS POSSIBLE .. NO

UTERINE INCISION



AMNIOTIC SAC



EXTRACTION OF FOETAL HEAD

Cesarean section

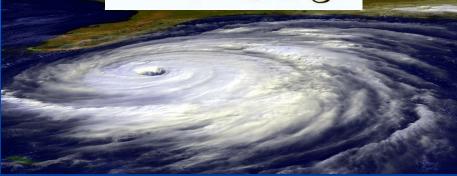


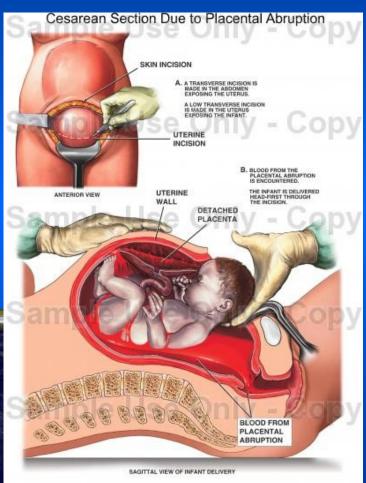
The surgeon reaches into the abdominal incision and lifts the baby's head as an assistant pushes down on the upper uterus

*ADAM.

BE COOOL MAN....



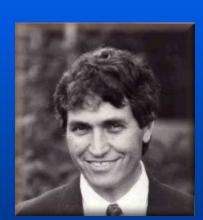




EXTERIORISATION OF UTERUS

NO

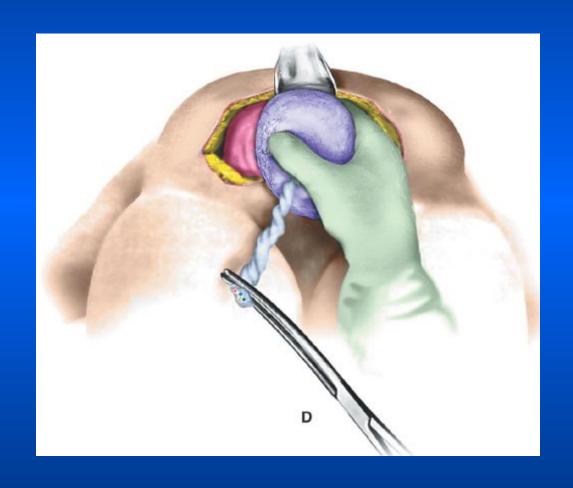




"Misgav Ladach" Cesarean Section

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NO MANUAL REMOVAL OF PLACENTA





'SINGLE LAYER' OR 'DOUBLE LAYER' CLOSURE



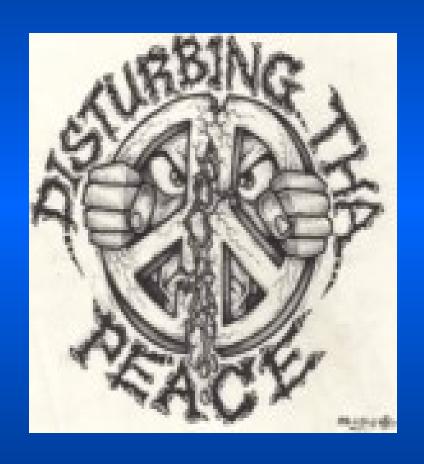
No sufficient data to recommendSINGLE LAYER.

• DOUBLE...SAFER

• VICRYL NO.1 1.1 m

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GUTTER CLEANING





SKIN CLOSURE

1. mattress sutures with monofilament

2. subcuticular

3. staplers

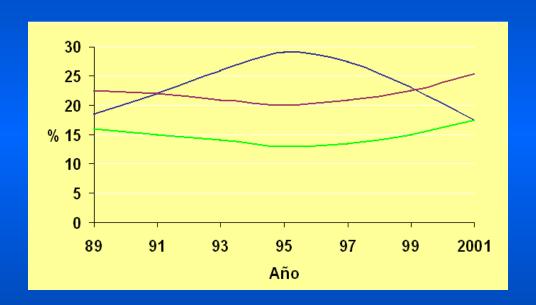


2 & 3 need perfect subcutaneous closure with ???

PREVIOUS LSCS

ACCIDENTAL VBAC





• ELECTIVE REPEAT C.S.

What has changed?

Lydon-Rochelle M, et al
Risk of uterine rupture
during labor among women with a prior cesarean
delivery.

N Engl J Med

2002

VBAC services start closing

2004

Landon, M. B et al. NICHHD MFM Network
Maternal and Perinatal Outcomes Associated with
a Trial of Labor after Prior Cesarean Delivery.

Timing of Emergency Cesarean TOL-VBAC

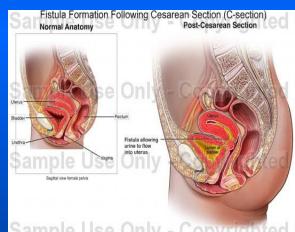
ACOG VBAC statement.

Appropriate personal to perform cesarean must be . .

- 1998: "readily available"

- 1999: "immediately available"

- 2001: JCAHO adopts "immediately available"



FACILITIES AND RESOURCES

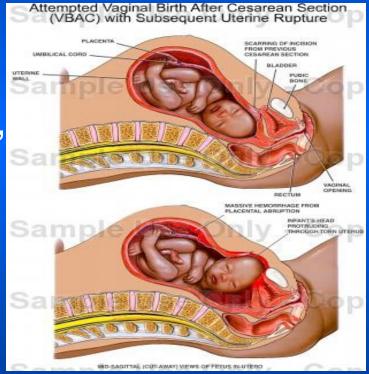
- A trial of labour after Caesarean is always associated with a risk of uterine rupture, however small.
- For this reason, a TOL after Caesarean should only be considered in a hospital where provisions for performing an <u>immediate</u> Caesarean section are available.

CATASTROPHIC COMPLICATIONS TOL-VBAC

• FACILITY FOR 'CRASH C.S.' -

IMPOSSIBLE

'DECISION TO INCISION'
INTERVAL OF
30 minutes
is TOOOO LATE



Conservatism in Obstetrics

"No matter how carefully the uterine incision is sutured, we can never be certain that the cicatrized uterine wall will stand a subsequent pregnancy and labor without rupture. This means that the usual rule is

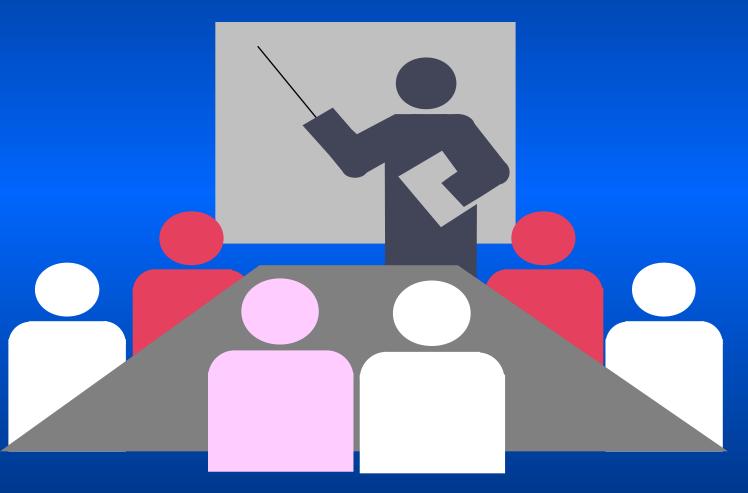
once a cesarean, always a cesarean"

Edwin Craigin, 1916



He was referring ONLY to classical cesarean scars!

C.S. TO BE DONE BY POSTGRADUATES



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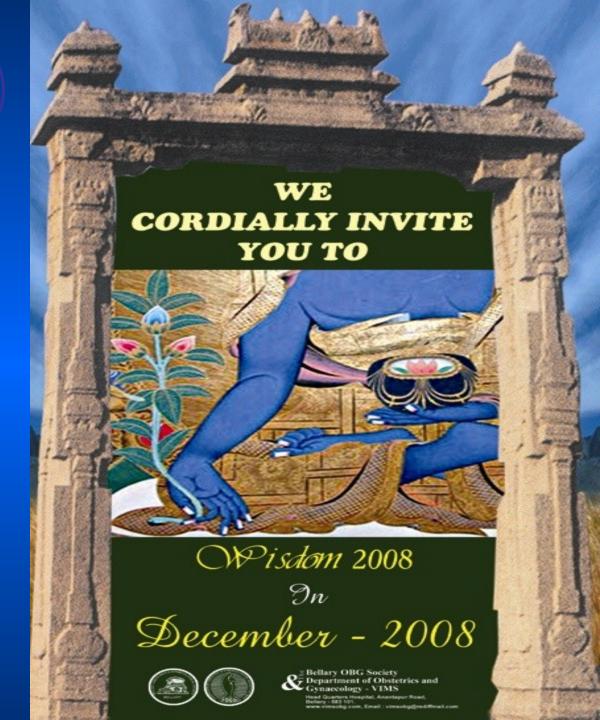
THANK YOU
FOR ALLOWING
ME TO SHARE THIS
WITH YOU TODAY

Suyajna @ yahoo.com



WISDOM 2008

12th, 13th, 14th December 2008





According to it, China conducted the highest number of surgeries followed by Russia and India. The study said nearly 3-16% of all inpatient surgical procedures in developed countries resulted in unnecessary complications with death rates being nearly 8%.