

Single - Versus Double - Layer Hysterotomy Closure At Primary Caesarean Delivery and Bladder Adhesions

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Design

A secondary analysis from a prospective cohort study of women undergoing first repeat caesarean section.

Setting

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Results

Of the 127 women, primary hysterotomy closure was single layer in 56 and double layer in 71. Single-layer hysterotomy closure was associated with bladder adhesions at the time of repeat caesarean (24% versus 7%, $P = 0.01$). Single-layer closure was associated in this study with a seven-fold increase in the odds of developing bladder adhesions (odds ratio, 6.96; 95% confidence interval, 1.72–28.1), regardless of other surgical techniques, previous labor, infection and age over 35 years. There was no association between single-layer closure and other pelvic or abdominal adhesions.

Conclusions

Primary single-layer hysterotomy closure may be associated with more frequent bladder adhesions during repeat caesarean deliveries. The severity and clinical implications of these adhesions should be assessed in large prospective trials.