# The management of caesarean scar pregnancy with or without a combination of methods prior to hysteroscopy: ovarian reserve trends and patient outcomes

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#### Abstract

Study Objective: This study compared the efficacy and safety of a combination of uterine artery embolization or methotrexate before hysteroscopy in the treatment of cesarean scar pregnancy. Methods: We divided 276 cesarean scar pregnancy patients into three groups. Group A underwent direct hysteroscopy; Group B received uterine artery embolization plus hysteroscopy; Group C received the systemic administration of methotrexate prior to hysteroscopy. Results: The patients in Group A lost significantly more blood than those in Groups B (P ; 0.05). There were no significant differences between the three groups with regards to massive hemorrhage and transfusion (P ; 0.05). None of the patients required hysterectomy. Group A was also associated with a significantly shorter period of hospitalization, reduced medical costs, and fewer adverse events than either Group B or C (P ; 0.05). Moreover, among women of advanced age ([?]35y), the levels of serum anti-Mullerian hormone in Group B were significantly lower than those of the baseline group (Pi0.05), which were significantly lower than those in Group A after surgery ( $4.22 \pm 2.35$  vs  $2.78 \pm 1.89$  ng/ml, P ; 0.05). Conclusion: Direct hysteroscopy is a reliable treatment option for most early type I cesarean scar pregnancy patients with a gestational sac. A combination of methotrexate and uterine artery embolization may reduce ovarian reserve in patients aged [?]35y.

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Project name	The management of caesarean scar pregnancy with or without a combination of methods prior to hysteroscopy: ovarian reserve trends and patient outcomes		
Research genres	√□Research projects □new technologies and project □ Other		
Research cycle	72 months	Main researchers	Mingjun Shao, Fei Tang Limei Ji, Min Hu, Keka Zhang, Jiangfeng Pan
Application	Gynaecology	Contacts	Jiangfeng Pan
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Sources of scientific research funds	□Government □Foundation □Company □international institutions √ □Other		
Type of examination	√ □New application □Revised project □Subject of continuing examination		
Submit materials	Research proposal, Informed consent		
China over re the developme remain uncleas treatment of the systemic (UAE) are con CSP patients, that received outcomes, and strategies: L hysteroscopy, Opinion of e After de	Ily accepted that the inci ecent years, coincident wi ent of better ultrasound d tr and no universal guidel this disease. Dilation an administration of methotr mon treatment. In order t we retrospectively analy I treatment in our institu dovarian reserve, of pati JAE combined with hysteros and hysteroscopy alone. ethics committee:	th the creation o lignosis. The mech ines have been re d curettage (D&C) exate (MTX) or ut o identify the be zed the clinical tion. Our aim was ents receiving th copy; systemic MT	f the two-child policy and anisms underlying CSP commended for the ,Operative hysteroscopy, erine artery embolization st therapeutic option for data of 276 CSP patients to compare the clinical ree therapeutic X combined with
content of t informed cor	on plan of the study fu the study is based on the asent, in line with the lons, and agreed to carr	e principle of prequirements of	atients' voluntary and relevant ethical laws

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