

Demco L. Effect of heating and humidifying gas on patients undergoing awake laparoscopy. *J Am Assoc Gynecolo Laparosc.* 2001;8:247-251.

LINK - <http://www.sciencedirect.com/science/article/pii/S1074380405605853>

Abstract

Study Objective

To determine the effect of heating and humidifying CO₂ on the tolerance of awake laparoscopy and frequency of shoulder pain and patient recovery.

Design

Randomized, controlled study (Canadian Task Force classification I).

Setting

University-affiliated hospital.

Patients

Forty consecutive women.

Intervention

Awake laparoscopy with and without heating and humidifying CO₂.

Measurements and Main Results

Heating and humidifying CO₂ decreased the frequency of shoulder pain and increased tolerance of the procedure. Thirty percent of patients required no intravenous sedation and did not experience shoulder pain when 3 L of gas or 15 mm Hg pressure was achieved. When shoulder pain did occur with heated and humidified gas, it was brief.

Conclusion

Heating and humidifying CO₂ increases tolerance of awake laparoscopy and decreases the frequency and duration of shoulder pain.