EFFECT OF ANAESTHETIC TECHNIQUES IN MIGRATION AND APOPTOSIS MDA-MB-231 TUMOR CELLS “IN VITRO”, IN BREAST CANCER SURGERY

Morís L. *, Cassinello F. **, López V. *Fundacion Jimenez Diaz University Hospital, Madrid; **Nuestra Señora de Candelaria University Hospital, Tenerife.

MASTECTOMY SURGERY

	SGA	PBI	P
AGES (year)	56,75	65,25	0,468
WEIGHT (BMI)	28,75	26,87	0,384
POSITIVE SENTIONAL NODE	1	2	1,000
AXILLARY NODE CLEARANCE	1	2	1,000
OESTROGEN RECEPTOR POSITIVE	4	4	1,000
PROGESTERONE RECEPTOR POSITIVE	3	4	1,000
HER2 (positive)	0	0	
FISH (amplified)	0	0	
SURGERY TIME (min)	133,75	113,75	0,884
RECOVERY TIME (min)	112,5	131,25	0,659

SGA

THE GENERAL ANESTHESIA GROUP
MAINTAINED WITH
SEVOFLURANE AND OPIOIDS

PBI

THE GENERAL ANESTHESIA GROUP
MAINTAINED WITH INTRAVENOUS
CONTINUOUS PERFUSION OF PROPOFOL
TOGETHER WITH BLOCKING OF THE
LATERAL AND ANTERIOR CUTANEOUS
BRANCHES OF THE INTERCOSTAL NERVES

MIGRATION CELL

Slower **migration** was observed in both samples of the PBI group in the 1st postoperative hour (6h: -2.7% vs 2.7%, $p = 0.56$; 24h: -7.92% vs 1.26%, $p = 0.149$) and greater in the postoperative 18-24h (6h: -14.1% vs 3.42%, $p = 0.08$; 24h: -9.91% vs -0.76%, $p = 0.38$)

APOPTOSIS CELL

Apoptosis was reduced in postoperative 18-24h of SGA serum compared with their preoperative values (-39.8%) with a level close to significance ($p = 0.068$). There were no changes in apoptosis with serum from the PBI group (0.75%, $p = 1$) and there was no significant difference between both groups ($p = 0.149$)

- C. A. Deegan, D. Murray, P. Doran, P. Ecimovic, D. C. Moriarty, and D. J. Buggy, "Effect of anaesthetic technique on oestrogen receptor-negative breast cancer cell function in vitro.," *Br. J. Anaesth.*, vol. 103, no. 5, pp. 685–90, 2009.
- A. I. Jaura, G. Flood, H. C. Gallagher, and D. J. Buggy, "Differential effects of serum from patients administered distinct anaesthetic techniques on apoptosis in breast cancer cells in vitro: a pilot study," *Br. J. Anaesth.*, vol. 113, no. suppl 1, pp. i63–i67, 2014.

CONCLUSION:

This outcomes implies that anaesthetic technique might affect the serum environment that impacts cancer cell funtion.