

# **There is no relationship between Paraoxonase serum level activity in women with endometriosis and the stage of the disease: an observational study**

Felipe Barca Bragatto<sup>1,2</sup>  
Email: febarca@gmail.com

Caio Parente Barbosa<sup>2</sup>  
Email: caiopb@uol.com.br

Denise Maria Christofolini<sup>2</sup>  
Email: denise.morf@gmail.com

Carla Peluso<sup>2</sup>  
Email: carlapeluso@yahoo.com.br

Aline Amaro dos Santos<sup>2</sup>  
Email: aline.amaro.santos@hotmail.com

Fernanda Abani Mafra<sup>2</sup>  
Email: mafra\_fe@gmail.com

Viviane Cavalcanti<sup>2</sup>  
Email: vivimbc@gmail.com

Sonia Hix<sup>1</sup>  
Email: soniahix@uol.com.br

Bianca Bianco<sup>2\*</sup>  
\* Corresponding author  
Email: bianca.bianco@hotmail.com

<sup>1</sup> Division of Biochemistry, Department of Morphology, Faculdade de Medicina do ABC, Santo André, Santo André/SP, Brazil

<sup>2</sup> Human Reproduction and Genetics Center, Department of Gynecology and Obstetrics, Faculdade de Medicina do ABC, Av. Príncipe de Gales, 821 Santo André/SP, Brazil

## **Abstract**

### **Background**

Endometriosis is a chronic condition whose pathophysiology is unknown, but there is evidence suggesting a link with oxidative stress. Paraoxonase is a serum enzyme which circulates associated with high-density lipoprotein (HDL). It acts protecting HDL and LDL of