Objective: Determine the influence of Porcine Oviductal Fluid (POF) on motion parameters in ejaculated (EJ) and epididymal (EP) boar spermatozoa under capacitating conditions.

Material and Methods:

Ejaculated and Epididymal sperm were washed in Percoll® and incubated with POF (50µg/ml) (P+POF) for 30 min in TALP medium.

Results and Conclusions:

The presence of POF in EJ sperm reduced the percentage of total motility and modify the motion pattern reducing the lateral head displacement (ALH) and beat cross-frequency (BCF). The incubation with POF in EP sperm did not affect the parameters analyzed.

Some motion parameters were modulated by POF in EJ sperm. POF not affected motion parameters in EP sperm. Some interactions between proteins adhered to the EJ sperm membrane (from seminal plasma) and POF proteins could modulate sperm motility.

Supported by Seneca 08752/PI/08 and AGL2006-03495