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EFFECT OF ADDING LH TO CONVENTIONAL FSH-ONLY PROTOCOLS ON AI-ASSESSED OOCYTE QUALITY, EMBRYO MORPHOKINETICS, AND ICSI OUTCOMES

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OBJECTIVE

Sapientiae

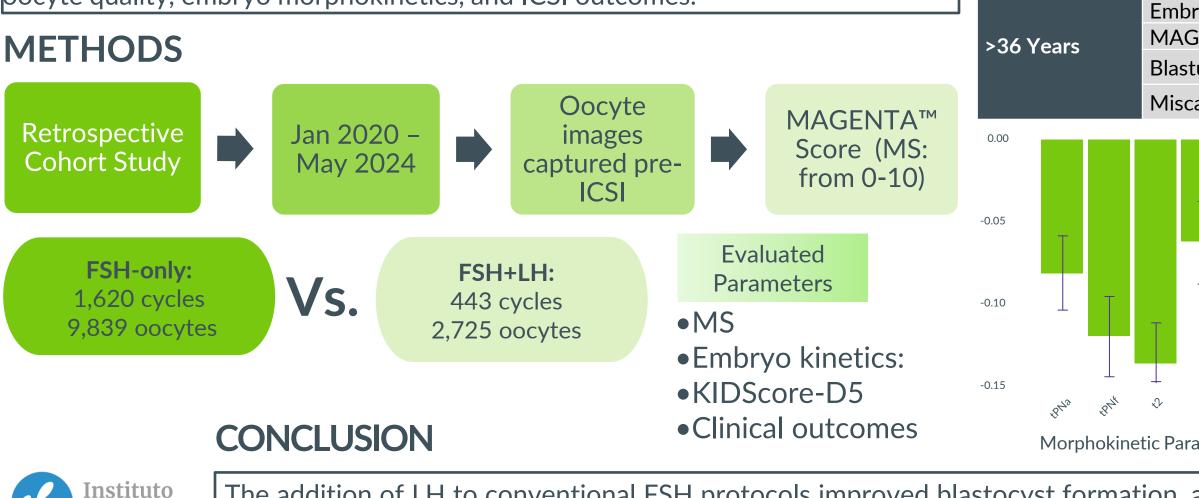
RESULTS (

Age

All ages

≤35 Years

The addition of LH to FSH in stimulation protocols is suggested to induce a more physiological response compared to FSH alone. This combination appears to enhance both the quantity and quality of oocytes. MAGENTA[™] is an AI tool that evaluates images of mature denuded oocytes, providing analyses that correlate with subsequent blastocyst development. Therefore, the present study evaluated the effect of the addition of LH to a standard FSH-only protocol on AI-assessed oocyte quality, embryo morphokinetics, and ICSI outcomes.



The addition of LH to conventional FSH protocols improved blastocyst formation, and enhanced oocyte quality, particularly in younger patients, while reducing miscari

Comparison Between FSH-only and FSH+LH

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Variable	FSH-only	FSH+LH	P value
Cycles	443	1,620	
Embryos	2,725	9,839	
MAGENTA [™] Score	5.9 ± 0.06	5.9 ± 0.03	0.138
Blastulation rate (%)	52.8 ± 1.50	56.7 ± 0.79	0.022
Cycles	113	292	
Embryos	930	2,359	
MAGENTA [™] Score	5.9 ± 0.06	6.4 ± 0.10	< 0.001
Blastulation rate (%)	57.0 ± 2.50	65.4 ± 1.56	0.004
Cycles	330	1,328	
Embryos	1,794	7,480	
MAGENTA [™] Score	5.7 ± 0.07	5.8 ± 0.03	0.215
Blastulation rate (%)	32.9 ± 1.05	33.6± 1.02	0.77
Miscarriage _	17.59 _	9.95	0.030
		NS	Faster embryo development in FSH + LH Group
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