



Did you know?

...that performance indicators (PIs) for clinical practice in ART have been defined by ESHRE?

ESHRE recommends six PIs to be used for monitoring clinical work for different steps of the ART process¹

Performance indicators	How to calculate	Frequency of analysis/reporting
Cycle cancellation rate (before OPU), %	$\text{Cycles cancelled before OPU} \times 100 / \text{started cycles}$	Calculate every 6 months or per 100 cycles whichever comes first
Rate of cycles with moderate/severe OHSS, %	$\text{Cycles with moderate-to-severe OHSS} \times 100 / \text{started cycles}$	
Proportion of MII oocytes at ICSI, %	$\text{MII oocytes at ICSI} \times 100 / \text{cumulus-oocyte complexes retrieved}$	
Complication rate after OPU, %	$\text{Complications (any) that require an (additional) medical intervention or hospital admission (apart from OHSS)} \times 100 / \text{OPUs performed}$	Calculate every 3 months or per 50 cycles whichever comes first
Clinical pregnancy rate, %	$\text{Pregnancies}^* \times 100 / \text{embryo transfer cycles}$	
Multiple pregnancy rate, %	$\text{Pregnancies with more than one embryo or foetus} \times 100 / \text{pregnancies}$	

*diagnosed by ultrasonographic visualisation of one or more gestational sacs or definitive clinical signs of pregnancy.

Collected by ESHRE via online survey consisting of a total of 31 statements and formulas on PIs described for each step of the ART process. It was open for 5 weeks, and 222 replies were received. Statements (indicators, indicator definitions, or general statements) were considered accepted when ≥70% of the responders agreed (agreed or strongly agreed).

These performance indicators can be used to monitor, improve and sustain quality in ART practices and can be used in conjunction with previously defined criteria for ART laboratories^{1,2}

ART, assisted reproductive technology; ESHRE, European Society of Human Reproduction and Embryology; ET, embryo transfer; ICSI, intracytoplasmic sperm injection; MII, metaphase II; OHSS, ovarian hyperstimulation syndrome; OPU, oocyte pick-up.

1. ESHRE Clinic PI Working Group. *Hum Reprod Open* 2021;2021(3):hoab022.

2. ESHRE Special Interest Group of Embryology, Alpha Scientists in Reproductive Medicine. *Hum Reprod Open* 2017;2017(2):hox011.

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