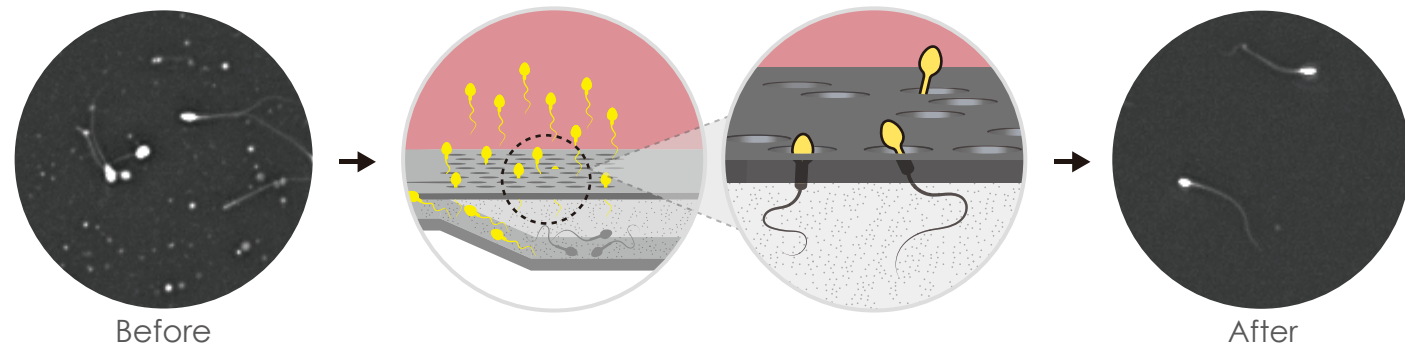
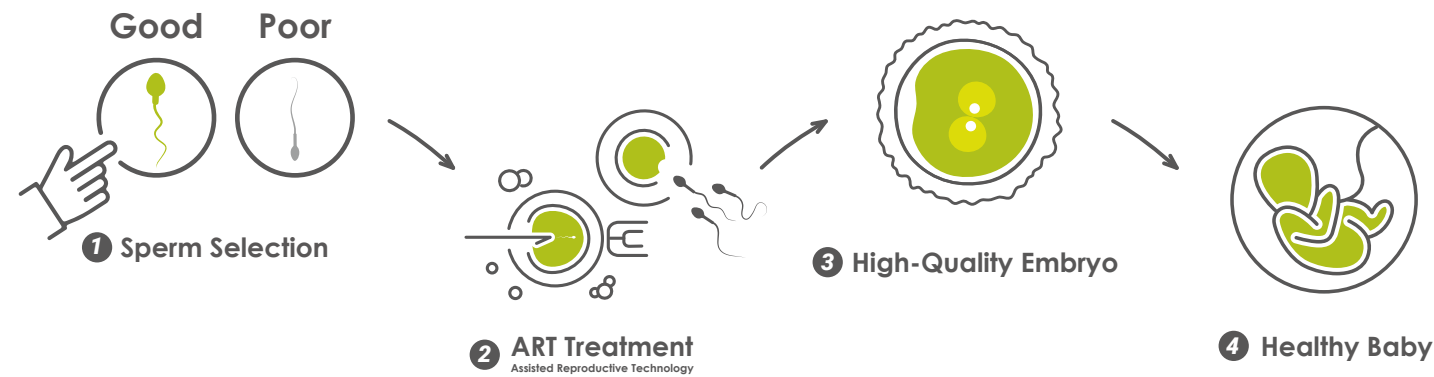


CA0 Key Feature

- Simple**
Only 4 steps
- Fast**
Only 30 minutes
- Good Performance**
Select the high quality sperm
- Consistent results**
Easy for everyone to operate



Advantages of Sperm Selection



Sperm selection is the process of identifying and isolating healthy spermatozoa from a raw semen sample. Healthy sperm is characterized by optimal motility, normal morphology, and intact DNA integrity. The use of high-quality sperm can enhance male fertility potential and significantly improve the success rates of ART treatment.

Product Specification

LensHooke® CA0 Sperm Separation Device

Size
Ø55.62 x H19.23 mm

Sterilization
Gamma irradiation sterilization

Operation environment
15°C ~ 38°C, 59°F ~ 100°F, Humidity < 70%

Storage environment
2°C ~ 30°C, 36°F ~ 86°F

Shelf life
2 years

Certificate

Patented NO.: US 20230031283A1



FDA

LensHooke®

bonraybio®

CA0

Sperm Separation Device



Sperm Separation

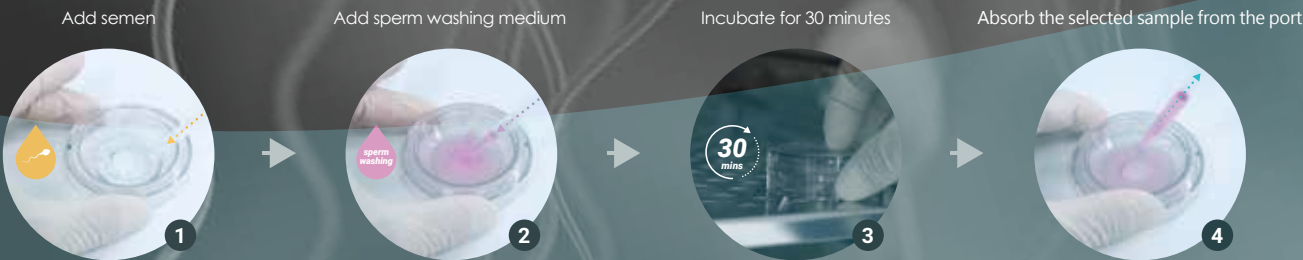
Centrifuge Free



embryo euploidy rate compared to conventional method.
Reference: Gotsiridze, K., et al., Live Motile Sperm Sorting Device Improves Embryo Aneuploidy: A Retrospective Cohort Study, Fertility & Reproduction, 2024, 06(03): p. 117-122.

CA0 Sperm Separation Device

Fast & High Quality



Assist in selecting sperm of high quality

Live motile sorting Technology

Pending
US20230031283A1

Comparison of CA0 vs. DGC Sperm Selection Outcomes:

Inter-Observer Agreement Indicates Lower Variability with CA0 [F]



Inter-Observer Agreement	Density Gradient Centrifugation (DGC)			LensHooke CA0		
	Mean ± SD	ICC (95% CI)	CV%	Mean ± SD	ICC (95% CI)	CV%
Sperm Concentration (million/mL)	5.8±4.6	0.89(0.75 - 0.98)	39.6	2.8±2.2	0.99(0.96 - 1.00)	16.6
Total Motility (%)	67.4±19.3	0.88(0.62 - 0.97)	15.5	86.7±8.9	0.93(0.85 - 0.99)	4.3
Progressive Motility (%)	62.6±19.8	0.84(0.53 - 0.96)	17.3	83.2±10.2	0.95(0.87 - 0.99)	4.1
Rapid Progressive Motility (%)	56.7±19.4	0.85(0.57 - 0.96)	19.4	71.6±15.4	0.97(0.92 - 0.99)	6.1
Motile Sperm Concentration (million/mL)	4.3±3.7	0.93(0.85 - 0.99)	36.1	2.6±2.1	0.99(0.96 - 1.00)	17.8

Data Source [F] Human Reproduction, Volume 38, Issue Supplement_1 2023 P-029

Clinical Advantages

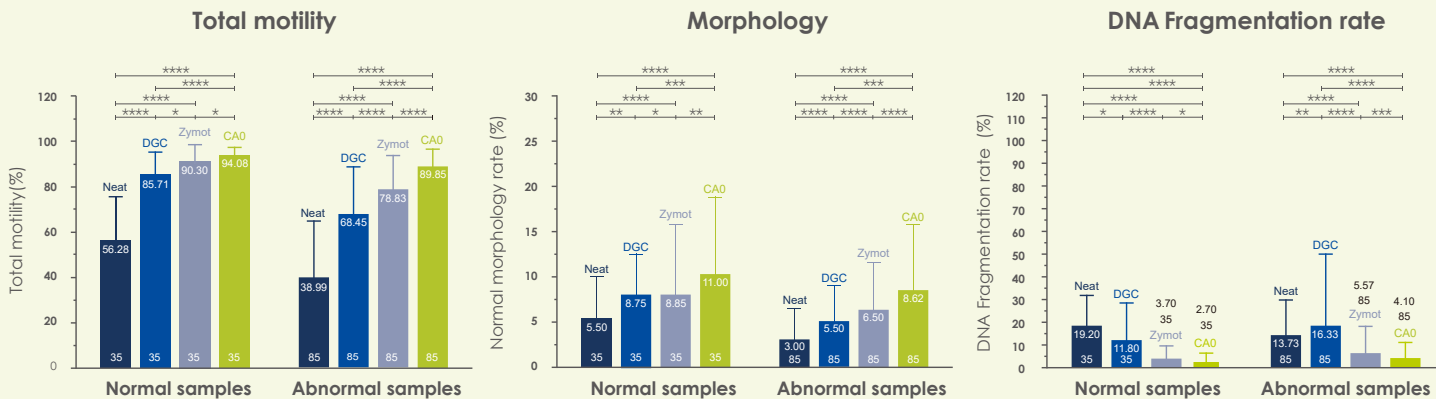
CA0 Sperm Separation Device

Validation Report

LensHooke CA0 Performance

DGC VS. Other methods VS. CA0

Abnormal samples included oligozoospermic, asthenozoospermic, teratozoospermic, and oligoasthenoteratozoospermic samples(n=85)
(n=50) *p<0.05, **p<0.01, *p<0.001, ***p<0.0001
Wilcoxon signed-rank test



Data Source

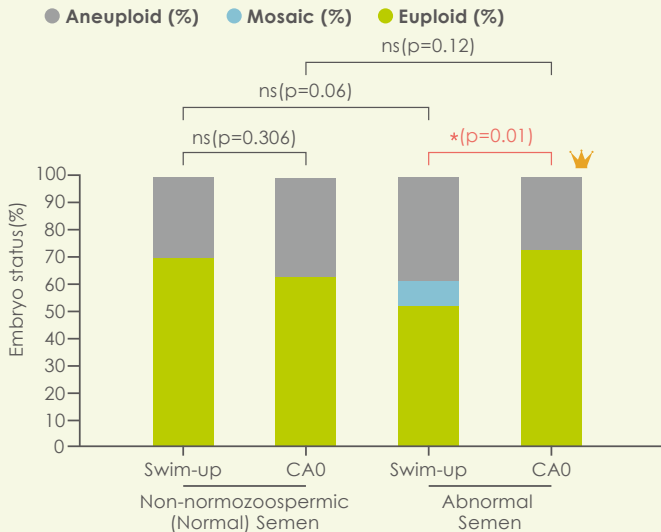
Hsu CT, Lee CI, Lin FS, Wang FZ, Chang HC, Wang TE, Huang CC, Tsao HM, Lee MS, Agarwal, A (2023). Live motile sperm sorting device for enhanced sperm-fertilization competency: comparative analysis with density-gradient centrifugation and microfluidic sperm sorting. JARG (Accepted manuscript)

Excellent Clinical Performance

The CA0 sperm selector improves embryo quality and reduces the incidence of aneuploidy and mosaicism.

Compared with the conventional swim-up method, using the CA0 sperm selector can effectively reduce the incidence of embryo aneuploidy attributable to male-factor causes. [D]

Compared with density gradient centrifugation (DGC), the centrifugation-free CA0 sperm selector shows a higher blastocyst formation rate and euploidy rate, and a lower mosaicism rate. [E]



Data Source [D] Fertility & Reproduction Vol. 06, No. 03, pp. 117-122 (2024) Data Source [E] Aspire 2024 Embryology P-66

	CA0 Sperm Separation Device	Density Gradient Centrifugation	P-value
Number of biopsied blastocysts	1565	1178	-
Average maternal age	36.2	36.4	-
Average paternal age	38.5	38.4	-
Number of euploid embryos	671 (42.88%)	402 (34.13%)	<0.0001
Number of mosaic embryos	277 (17.70%)	288 (24.45%)	<0.0001