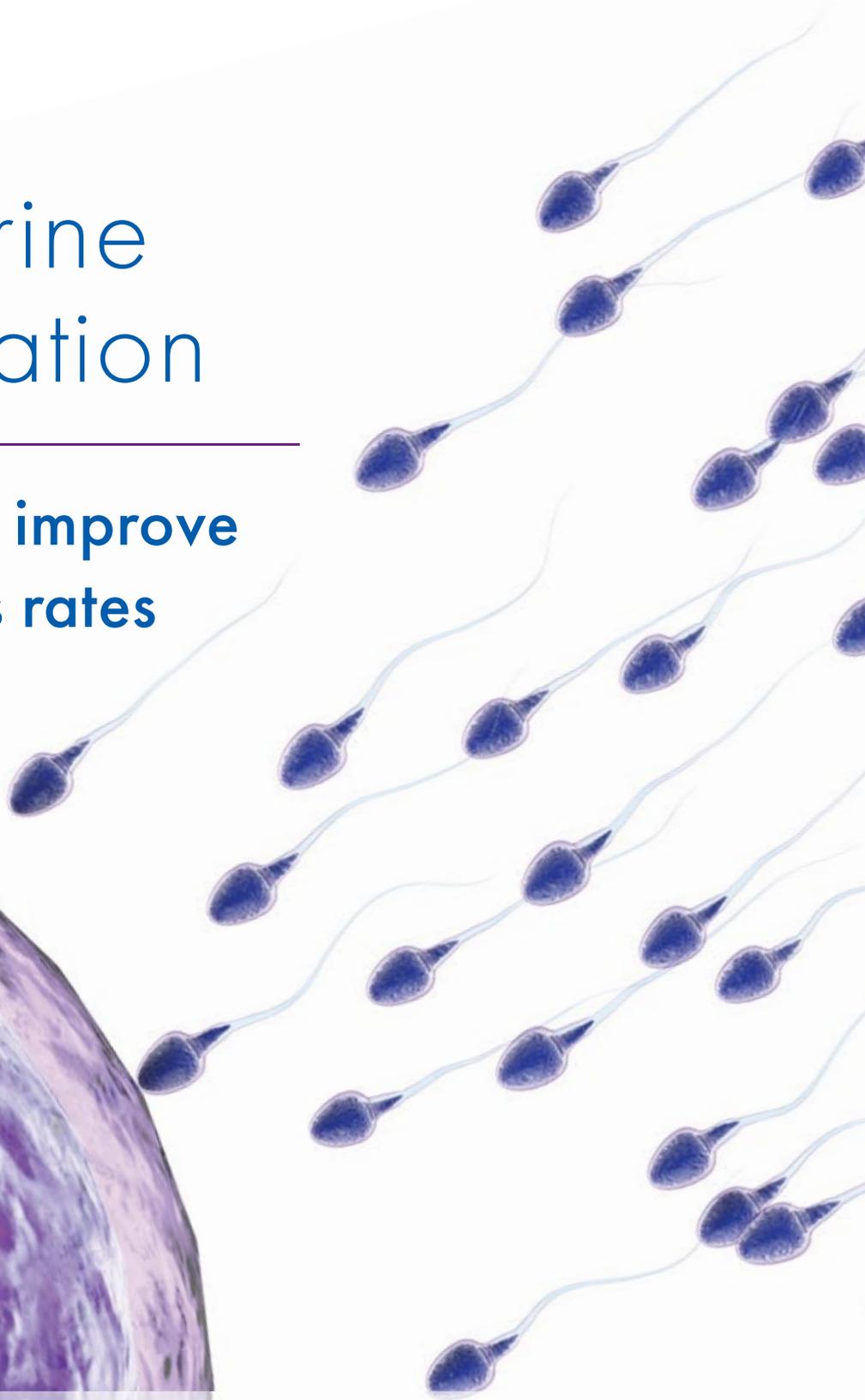




Intrauterine Insemination

Helping you improve
your success rates



ORIGIO • SAGE • Humagen • TPC • **K-Systems** • RI • **Wallace** • LifeGlobal • CooperGenomics

Committed to all aspects of IUI

CooperSurgical Fertility and Genomic Solutions has a full range of products to help you optimize your IUI success rates, including a cutting edge range includes workstations and equipment, diagnostics for selecting the healthiest sperm, preparation media and a soft malleable transfer catheter that aids even dispersion of sperm.



ANALYSIS



40-50% of all infertility cases involves a male factor¹, hence, reliable prognostic information is vital in helping you make the right choices for your patients. To gain valuable insight into the likelihood of success with IUI, use our HBA Assay for an evaluation of sperm sample quality in minutes.

PREPARATION



Providing optimal conditions for sperm cells during preparation is critical for optimizing your success rates. Our high-quality sperm preparation products are specially designed with a more alkaline pH to mimic natural physiological conditions and to support the sperms motility and capacitation.

1. Kumar N and Singh AK. Trends of male factor infertility, an important cause of infertility: A review of literature. J Hum Reprod Sci. 2015;8:191–196



IUI

Minimizing patient trauma during the IUI procedure helps you to maximize the chances of successful fertilization. All of our IUI catheters have a smooth rounded tip profile and our versatile range allows you to match the patient's anatomy as well as your preference.

OPERATOR PROTECTION

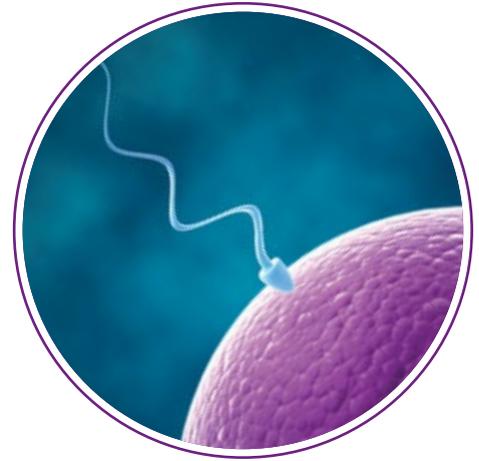
Protecting the operator is as important as protecting the samples during preparation for IUI. When working with high-risk samples, our biosafe, class II workstations – such as the ORIGIO Mars IVF Workstation – provide peace of mind for both operator and patient.



Enhance your success rates with an integrated solution for IUI

Advantages of an integrated solution:

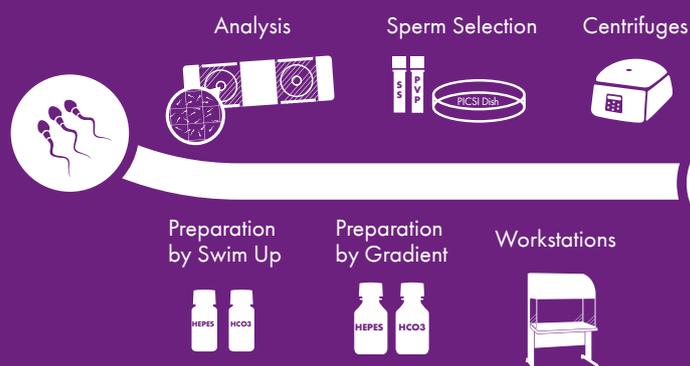
- Reduce the time taken to carry out procedures by using intelligently designed products
- Remove the worries of compatibility issues between products
- Individualize your protocols by choosing from an extensive portfolio with products to suit any clinic's needs



Key benefits of using our products for IUI:

- HBA Assay – quick and reliable sperm sample evaluation
- Sperm preparation media – designed to provide optimal conditions for sperm viability
- ScanFuge centrifuges – customizable with a choice of rotors, buckets, adaptors, and sleeves
- IUI catheters – with a smooth tip and formable outer sheath for comfort and control
- Workstations – designed to protect both sample and operator
- RI Witness™ – ensures patient samples are tracked through the lab

Andrology



IUI

Transfer - IUI Catheter

Security & Management





Sperm quality

Determining whether a sperm sample is suitable for IUI is essential for enhancing the chances of achieving successful pregnancy.

Manual sperm analysis techniques offer a rough guide for differentiating 'probably fertile' from 'probably subfertile', however, they are limited in the information they provide and they are therefore unable to predict true fertility potential.

HBA[®] Assay

The HBA Assay is a diagnostic tool with dual hyaluronan-coated chambers designed to allow you to evaluate the ratio of mature sperm in a sperm sample. This core is important as it has been shown that mature sperm, which has the ability to bind to hyaluronan, are less likely to have DNA damage.²

Assessing the proportion of sperm that bind to hyaluronan can help you decide which treatment is best for your patient. If a patient has a high percentage of mature sperm cells ($\geq 65\%$), this indicates that IUI might be a suitable treatment for the couple, if the female partner does not have a contraindication.³

2. Parmegiani L, et al. "Physiologic ICSI": Hyaluronic acid (HA) favors selection of spermatozoa without DNA fragmentation and with normal nucleus, resulting in improvement of embryo quality. *Fertility and Sterility*. 2010;93:598-604.

3. Worrilow, K.C., Eid, S., Woodhouse, D., Perloe, M., Smith, S., Witmyer, J., Ivani, K., Khoury, C., Ball, G.D., Elliot, T., Lieberman, J., 2013. Use of hyaluronan in the selection of sperm for intracytoplasmic sperm injection (ICSI): Significant improvement in clinical outcomes-multicenter, double-blinded and randomized controlled trial. *Human Reproduction* 28, 306-314. doi:10.1093/humrep/des417

The HBA Assay offers you:

- Quick and reliable sperm screening
- Information needed to make the right decision
- A reliable alternative to expensive DNA integrity assays, as it correlates statistically with sperm chromatin tests





Purifying Sperm for IUI

CooperSurgical Fertility and Genomic Solutions offer a unique and novel sperm preparation portfolio – the ORIGIO Gradient Series – consisting of ORIGIO Sperm Wash and ORIGIO Gradients. These are all designed to provide optimal conditions for sperm viability

Our media have a more alkaline pH to mimic the physiological conditions sperm will encounter *in vivo*. Sperm are quite sensitive to acidic external pH, which will lower the intracellular pH (pHi) in the sperm cells and thus impede sperm motility and function and alkaline (high pH) external pH stimulates several sperm motility parameters. (Will et al 2011).



Key benefits of our sperm preparation media are:

- **Alkaline pH (8–8.5) and bicarbonate** – improves sperm motility and supports capacitation
- **Fully HEPES buffered** – can be used under atmospheric conditions and does not require pre-incubation before use
- **Antioxidants** – citrate, taurine and EDTA
- **HSA** – anti-sticking, antioxidant, reservoir for cholesterol, fatty acids and vitamins
 - 10 mg/ml in ORIGIO Sperm Wash
 - 5 mg/ml in ORIGIO Gradient™ 90, 80 and 40
- **Osmolality** – differentiated osmolality through the gradients to mimic *in vivo* conditions and protect sperm during isolation
- **Long shelf life** – 52 weeks shelf life and 28 day open bottle shelf life
- **Low endotoxin** – endotoxins are toxic to spermatozoa
 - ORIGIO Sperm Wash ≤ 0.15 EU/ml
 - ORIGIO Gradients ≤ 0.8 EU/ml
- **Smallest bottle size available on the market!** – Reduces wastage in smaller clinics
- **Ready to use media**

ORIGIO Sperm Wash

for sperm preparation by swim up

The physiological pH, bicarbonate, antioxidants and high HSA content provides optimal conditions for the spermatozoa during the swim-up process. Because the media are fully HEPES buffered the procedure can be performed in atmospheric conditions outside the incubator.



ORIGIO Gradients

for efficient separation of motile sperm

ORIGIO Gradients enable motile sperm to be separated from extraneous cells and seminal plasma and to select a subpopulation of cells with the highest capacity for fertilizing an oocyte.



ScanFuge Centrifuges

A unique centrifuge with fixed angle and swing out bucket rotor with Digital display setting of speeds and run times

ScanFuge Midi Centrifuge

A unique autoclavable rotor centrifuge with digital display setting with automatic door release and alarms for imbalance, over heat and over speed



ScanFuge Maxi

A unique centrifuge with fixed angle and swing out bucket rotor with Digital display setting of speeds and run times



Technical Information	ScanFuge Midi	ScanFuge Maxi
Max speed	4000 rpm	4000 rpm
Max RCF x g	2075	2774
Max Capacity	6 x 15 ml - adaptors available for 3 ml to 14 ml	6 x 15 ml – 4 x 85 ml
Run time	99 min 59 sec or continuous	99 min 59 sec or continuous
Acceleration time	< 20 sec	< 20 sec
Deceleration time	< 20 sec	< 20 sec
Programme Memory	10	10
Dimensions (WxDxH)mm	296 x 412 x 206	375 x 480 x 260
Weight	17.5kg (net) – 18.7kg (gross)	19.5kg (net) – 25kg (gross)

Wallace Intrauterine Insemination Catheters

The Wallace IUI catheter is a premium quality device, featuring a smooth tip and formable outer sheath for optimal placement control within the uterus

The two-piece design replicates the Wallace Classic catheter, making it suitable for the training of embryo transfer techniques.

Key product benefits

- Flexible outer sheath with memory can be pre-curved to aid insertion in varying anatomies
- Smooth rounded tip to minimize trauma and maximize success rates
- Similar catheter design to Wallace Embryo Transfer Catheter range, helping develop an effective technique
- Bilateral side eyes for maximum dispersion of sperm and minimal risk of blockage
- Compatible with the Wallace stylet for difficult procedures (1816ST - Wallace 18cm Stylet)

Technical Information

Inner catheter inner diameter	1.07 mm
Inner catheter outer diameter	1.58 mm
Outer sheath outer diameter	2.3 mm
Stylet protrusion from outer sheath	2.0 mm
Volume of catheter not including hub (18 cm)	0.17 ml
Volume per cm of catheter	0.009 ml



Fortuna IVF Class I Workstations

Fortuna IVF Workstations are specially designed to meet the needs of a busy IVF Laboratory where Class I protection is required

- **Consistent, gentle air flow** – even curtain of non-turbulent air flow at less than 48dBA, filtered with HEPA filters
- **Certified** – Fortuna workstations are independently certified and comply with necessary safety requirements for electrical equipment: IEC 61010 – 2-010:2003, IEC 61010-1-2010 (3rd edition). CE marked
- **Even temperature control** – integrated temperature controlled humidification system enabling full flexibility for short-term incubation
- **Optimized work area** – electrically heated, microscope prepared surface, with accurate control and even temperature stability. A heated glass stage and an LED light source as standard. Also included as standard are a 21.5" LCD monitor and electrical outlets

Width options

900 mm

1200 mm

1500 mm

1800 mm





Width options

900 mm

1200 mm

1500 mm

1800 mm

Mars IVF Class II Workstations

Mars IVF Workstations are specially designed to meet different laboratory space requirements

- **Even, clean air flow** – even curtain of non-turbulent air flow at less than 52dBA, filtered with HEPA filter
- **Certified** – independently certified and comply with the necessary safety requirements for electrical equipment: IEC 61010 – 2-010:2003, IEC 61010 – 1 2010 (3rd Edition). CE marked
- **Adjustable window** – electrically adjustable front window
- **Temperature controlled, optimized work area** – electrically heated surface with accurate control and even temperature stability. The heated surface is microscope prepared and includes a heated glass stage, and an LED light source as standard, as well as a 21.5" LCD monitor and electrical outlets

IUI product range

HBA Assay

HBA Assay	Pack of 10 assays	Order Code
HBA slide	Pack of 10 assays	BCT-HBA-10

ORIGIO Sperm Prep Media

ORIGIO Gradient 100	60 ml	84000060
	2 x 60 ml	84002060
	4 x 125 ml	84004125
ORIGIO Gradient 90	60 ml	84010060
ORIGIO Gradient 40/80	2 x 60 ml	84022060
	2 x 10 ml	84022010
	12 x 10 ml	84021210
ORIGIO Sperm Wash	60 ml	84050060
	5 x 60 ml	84055060
	10 x 10 ml	84051010

ORIGIO Workstations Class I

Fortuna IVF Class I Workstation	900 mm	WF900
	1200 mm	WF1200
	1200 mm for ICSI	WF1200ICSI
	1500 mm	WF1500
	1800 mm	WF1800
	1800 mm Dual	WF1800D
	Workstation Fortuna 1800 mm Multi Purpose	WF1800MP

ORIGIO Workstations Class II

Mars IVF Class II Workstation	900 mm	WM900
	1200 mm	WM1200
	1500 mm	WM1500
	1800 mm	WM1800
	1800 mm Dual	WM1800D
	Workstation Mars 1800 mm Multi Purpose	WM1800MP

Centrifuge Equipment

ScanFuge Midi	Midi 230 V/60 Hz	7.607.514.101
	Midi 110 V/60 Hz	7.607.514.801
ScanFuge Maxi	Maxi 230 V/50 Hz	7.617.514.201
	Maxi 110 V/60 Hz	7.617.514.802

IUI Catheters

Wallace IUI Catheter	Intra-uterine insemination catheter (18 cm) – Quantity: 10	AIC18
Wallace Compatible Stylet	Rigid Stylet for introducing the 18 cm – Quantity: 10	1816ST

K-Systems Workstations Class I - L100 Series (115V)

L124 IVF	1200 mm, standard heat	4.111.212.121 4.112.212.121
	1200 mm, with RI Witness	4.111.312.121 4.112.312.121
L126 IVF	1800 mm, standard heat	6.111.212.121 6.112.212.121 6.121.212.121 6.122.212.121
	1800 mm, with RI Witness	6.111.312.121 6.112.312.121 6.121.312.121 6.122.312.121
L126 DUAL	1800mm, standard heat	6.131.812.121 6.132.812.121 6.133.812.121 6.134.812.121
	1800mm, with RI Witness	6.131.912.121 6.132.912.121 6.133.912.121 6.134.912.121
L126 MP	1800mm, Multi Purpose, standard heat	6.111.512.121 6.112.512.121
	1800mm, Multi Purpose, with RI Witness	6.111.612.121 6.112.612.121
L124 ICSI	1200mm for ICSI	4.141.142.314

K-Systems Workstations Class II

L234 IVF	1200mm, standard heat	4.211.422.232 4.212.422.232
	1200mm, with RI Witness on right	4.211.322.232 4.212.322.232

Availability of a device for clinical use is dependent on the regulatory approval status of that device within the country the device is intended to be sold into.