Product catalogue

Makeen IVF

Integrated IVF laboratory

Connect embryology, andrology and cryostorage in one patient record, from oocyte retrieval to the recorded pregnancy outcome.



Inside this guide

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Chapter 01 / Part 1

Patient files and the andrology laboratory

Patient and partner files

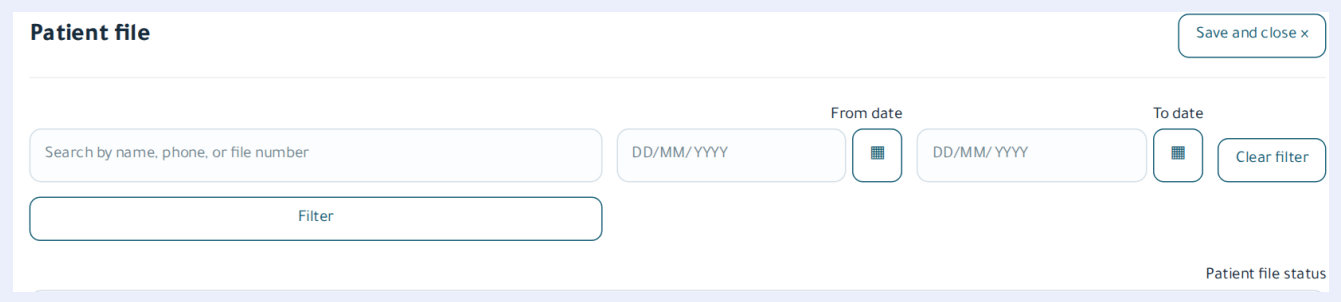
Search by name, file number or identity details before opening a new file. Enter a birth date or year and contact details, then link an existing or new partner file. Either file provides access to the other partner and their recorded procedures, subject to permissions.

Semen analysis

Enter the abstinence interval, collection method, collection and examination times. The macroscopic section covers volume, colour, viscosity and liquefaction. Microscopic findings include concentration, progressive and non-progressive motility and normal morphology, alongside calculated totals. A linked sperm freezing entry can be started directly from this examination.

Sperm DNA fragmentation

Enter the number of sperm assessed and the number showing fragmentation to calculate DFI. The record links the result to the patient and examination date. Reopen it to print the report or include the counts in laboratory analysis.



Search and filters in the patient register

Chapter 01 / Part 2

Patient files and the andrology laboratory

FNA and TESE records

Record the procedure, physician, anaesthesia, sample counts from each side and sperm search findings. Keep a record even if no material was frozen. Separate freezing entry routes identify material obtained by FNA or TESE.

IUI sample preparation

Select both partners, record the pre-preparation findings and add a second specimen if used. Enter the preparation method, post-preparation volume, concentration and motility, and identify the physician, operator and witness. The case report presents the pre- and post-preparation findings.



Microscopic findings in the semen analysis form

Chapter 02

Oocyte retrieval and fertilisation

Retrieval-day setup

Link the partners, then enter the cycle date, physician and trigger time. Record previous attempts and outcomes, culture media and batch numbers. Document the sperm source, preparation method such as swim-up or density gradient, and a second specimen if used. Save the active case to resume later.

Retrieval count and denudation

Enter the retrieval time and oocyte count, physician, embryologist and witness. Record counts before and after denudation and the maturity assessment. Document mature MII oocytes, the number assessed and the assessment time for the maturation indicator.

IVF, ICSI and day-one assessment

Select conventional IVF, ICSI or both. Record inseminated and injected counts and reasons for non-injection, such as immaturity or degeneration. Record day-one pronuclear findings, including 0PN, 1PN, 2PN, 3PN and multi-PN. Two polar bodies can be documented when assessing normal fertilisation.

Chapter 03

Embryo development and biopsy

Cleavage through blastocyst

Record cell count and grade for each embryo on days two and three, and day four when assessed. On days five, six and seven, enter expansion, inner cell mass (ICM) and trophectoderm (TE) grades. Each day retains its own observations and notes.

Following one embryo across days

Assign an embryo identifier and link its daily assessment, time, developmental stage and recorded disposition. The chronology export gives each day its own columns. Historical observations without a verified identity remain separate rows.

Biopsies and embryo diagnosis

Record the embryo number, biopsy day and type, including a repeat biopsy if performed. In the diagnosis record, enter the laboratory, test and date, then the result and decision for each embryo. Link the diagnosis report to its originating case for later review.

Additional techniques and procedures

Log additional techniques used in a cycle, such as time-lapse culture or assisted hatching, and attach supporting material. Other procedures have a separate entry for an individual or a couple, the procedure name, description, date, team and notes.

Chapter 04

Transfer, warming and warmed-oocyte ICSI

Fresh transfer or freezing from the cycle

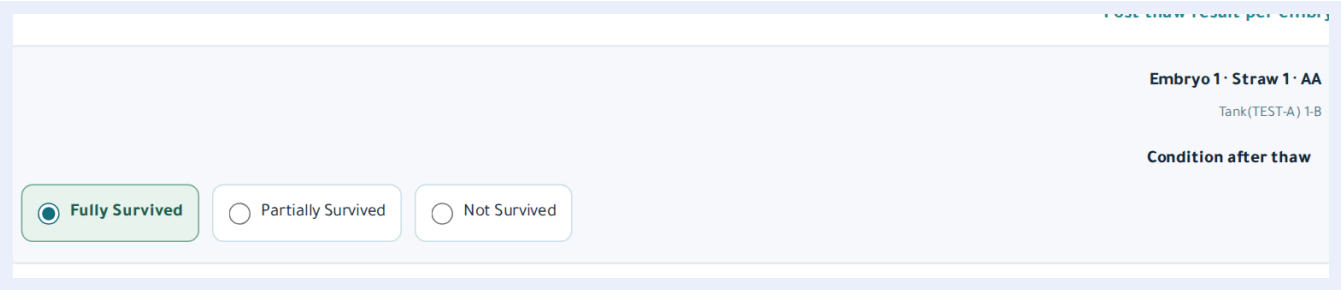
Choose the transfer day and record transferred embryos, grades, transfer time, physician and team. Where material is frozen, create a linked sperm, oocyte or embryo freezing entry. The physician summary distinguishes performed transfer and completed freezing records from a plan.

Frozen embryo transfer

Select the patient's straws from stock and record the warming date, medium and operator. Confirming warming updates inventory. Assess each embryo and record its disposition, such as transfer, refreezing or disposal, followed by transfer details if performed.

ICSI using warmed oocytes

Open a separate cycle and select oocyte straws from the cryobank. Record warming, the surviving and non-surviving oocytes, the number injected and fertilisation findings. Follow the resulting embryos across the recorded days until transfer or storage.



Recording an individual embryo's warming outcome

Chapter 05 / Part 1

Cryobank and storage locations

Sperm cryopreservation	Open a batch for an ejaculate, an FNA or TESE specimen, or material received from another centre. Record the date, vial count, location and freezing operator. An already-frozen batch can also be added to the register. Each batch keeps its original quantity beside the number of vials still in storage.
Oocytes and embryos by straw	Allocate oocytes or embryos to individual straws and record the colour, location and count for each. For embryos, also document the freezing day, individual grade and available biopsy information. The group register shows the remaining contents of each straw.
Ovarian tissue	Create a tissue batch with its collection date, freezing date and origin. For a specimen received from outside, record the sending centre. Add the vial count and storage position. The register then follows subsequent use, transfer or disposal of the vials.

Chapter 05 / Part 2

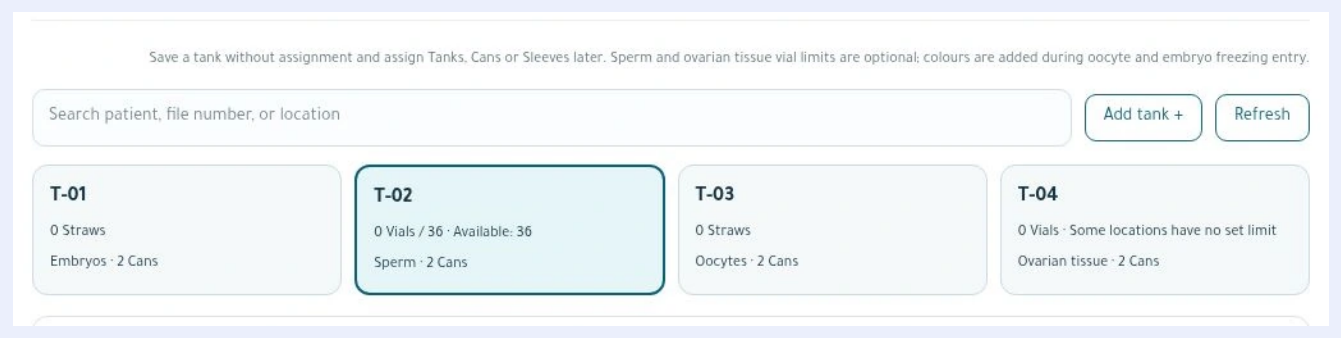
Cryobank and storage locations

Tank, can and sleeve

Build a location tree to match the laboratory's physical layout. Set the number of cans in each tank and sleeves in each can, the permitted specimen type and the capacity where known. Select the same registered location when entering a straw or batch of vials.

Balances and renewals

Record dated use, transfer or disposal and the affected vials or straws, then review the balance after each action. Renewal accounts group storage periods by patient and specimen type and show years due and paid. Print a patient summary of batches and locations.



Selecting a tank on the storage map

Chapter 06

Pregnancy outcomes and study variables

Finding a cycle for follow-up

In Pregnancy Outcomes, choose the procedure date range and type: retrieval, frozen embryo transfer, warmed-oocyte ICSI or IUI. Search by name, file or case number. Opening a cycle shows its dated history of follow-up visits.

From pregnancy test to delivery

Add a dated visit with notes and an optional attachment. Enter the pregnancy test result, β-hCG value and unit. A pregnancy can then be followed through sac and heartbeat counts, stability, losses, individual fetal sex, delivery mode and the number and sex of the newborns.

Define a variable and assign cases

Name the procedure, material or medication under study. Filter or search for cases, select one or several, then document use or non-use with a date and notes. You may also define a numeric outcome, give it a name and specify its unit.

Compare the two groups

View results for documented use alongside documented non-use, with the number of cases contributing to each indicator. A custom numeric outcome shows group means and the number measured. Cases with an unrecorded use status are counted separately.

Chapter 07

Cycle analysis and staff performance

Maturation, fertilisation and blastulation

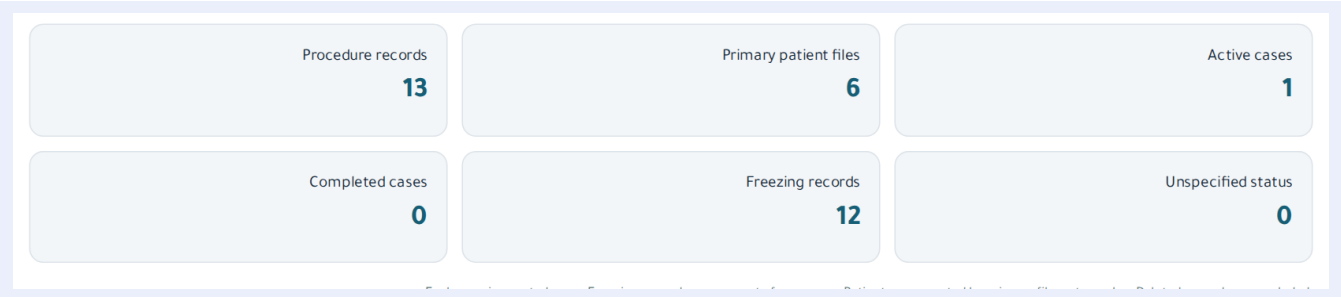
Review maturation from MII in fresh ICSI-only cycles with complete assessments, and fertilisation by insemination method. Inspect cumulative blastocyst development through days five, six or seven. Each measure shows its numerator, denominator, data coverage and reasons for exclusion.

Transfer outcomes and role-specific workload

Review workload by staff member, procedure and role, alongside fertilisation, blastulation and pregnancy outcomes associated with that recorded role. The outcomes view shows eligible cycles, β-hCG, clinical pregnancy and live birth results, together with follow-up completeness.

Survival after vitrification and warming

Review embryo and oocyte survival after documented warming. Linking the warming assessment to its straw, patient and original freezing operator supports operator-specific results, including a vitrification-only measure. Embryo survival includes recorded full and partial survival.



An example of recorded laboratory procedure counts

Chapter 08

Physician reports, exports and worksheets

Physician treatment-cycle summary	Print one cycle report covering retrieved and injected oocytes, fertilisation and day-by-day embryo development. It follows the cycle to transfer or linked freezing batches and includes dated pregnancy test, follow-up and delivery outcomes when documented.
Case, embryo and cryostorage exports	Select a month or start and end dates, then the procedure of interest. In Excel or CSV the embryo table separates procedure, embryo number and daily grades into distinct columns. The cryostorage table separates embryo ID, number, grade and documented individual transfer outcome from the cycle's pregnancy outcome.
Document centre and 24 worksheets	Open a recorded procedure report or print a blank or patient-specific worksheet. Templates cover andrology, hormones and genetics, retrieval, IVF and ICSI, culture, transfer, biopsy, freezing, warming, consent checks and referrals. Each worksheet includes institution branding and fields for results and review.

Chapter 09 / Part 1

Sample identity and unit administration

Sample identity and label history

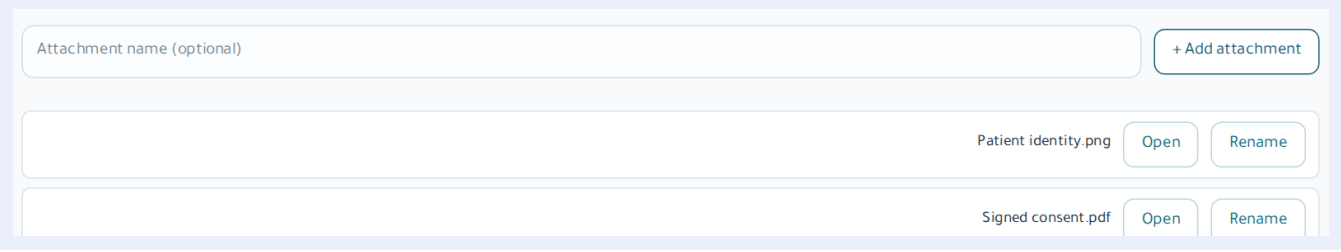
Find the patient or procedure record, select the label and container type, then generate and print the label. Reopen it by code or compare source and destination codes to check their record links. The check history shows the result, operator and time.

Review and approval

Save a test report as a draft during entry and submit it for review when complete. An authorised user can approve the report or reopen it with a recorded reason. The laboratory day board shows procedures for a selected date and older unfinished cases, searchable by name or file and filterable by the responsible staff member.

People and access permissions

Open Settings after Sample ID to manage physicians, employees and user accounts. Assign responsibility for viewing, editing, approving, printing and exporting records, and control access to storage-location and centre settings.



Attaching a document to the patient file

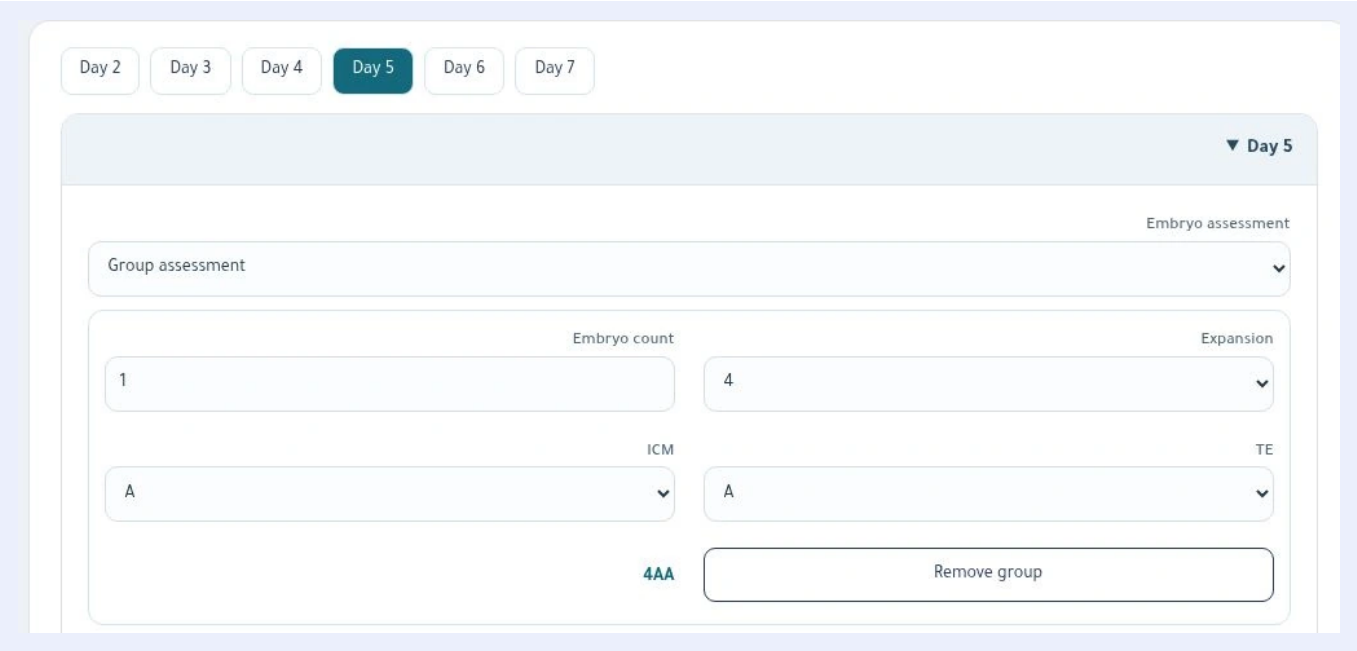
Chapter 09 / Part 2

Sample identity and unit administration

Backups and institution branding	Choose an external backup folder and password, run a backup manually or enable daily backups while the application is running. Review the backup details before restoration. Institution settings control the bilingual centre and unit names, logo, report header and footer.
Workstation configurations	Use Standalone on a single computer, or the Clients edition to connect centre workstations to their host. In a centre setup the workstations connect to the shared centre data, and each staff member accesses records through their own account and permissions.

Day-five blastocyst assessment

The day selector sits above the assessment. In this grouped entry, one embryo has expansion stage 4 and grades A for both the inner cell mass and the trophectoderm. The resulting grade appears as 4AA.



Product screen with illustrative records.

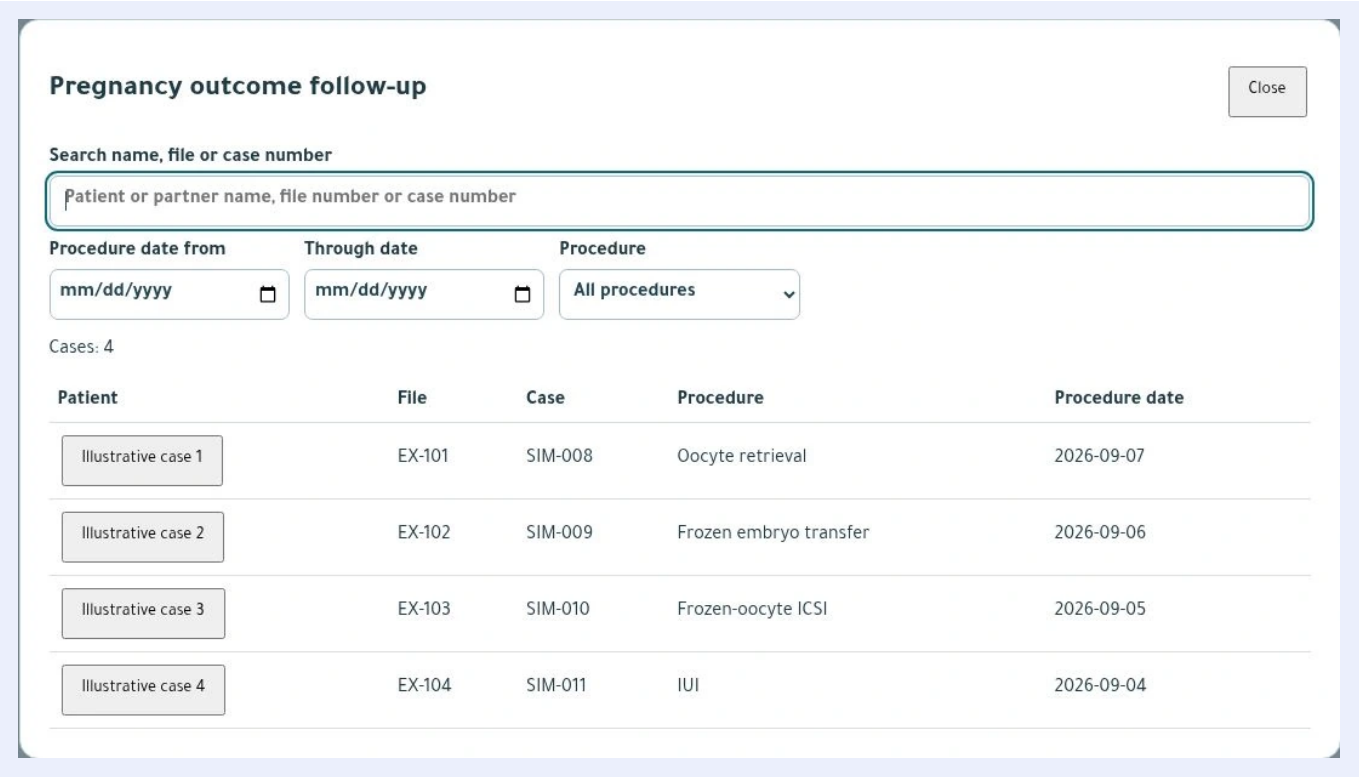
Inner cell mass entry and the 4AA result



View the screen gallery online

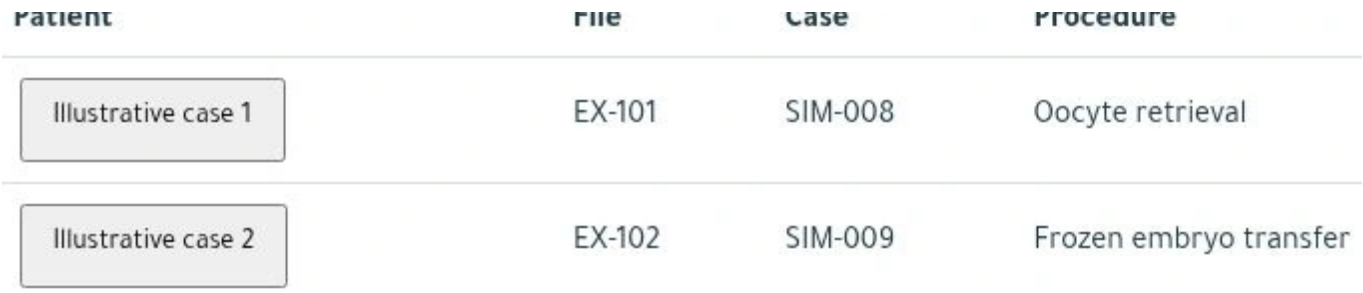
Follow-up visits after treatment

Date and procedure filters narrow the case list. Open the relevant cycle to enter a new result, notes and attachments against the visit date.



Product screen with illustrative records.

Procedure and case number in the results list



View the screen gallery online