

## About the OverNite Male™ Kit

Developed in 1994 by Gail S. Prins, PhD and the team at the University of Illinois at Chicago Andrology Laboratory, the OverNiteMale™ Kit has a 15+ year history of helping individuals preserve their chance at parenthood. Dr. Prins and the UIC staff are flattered that the OverNite Male™ Kit has often been copied, but stress that copies seldom match the original.

Additionally, due to the economies of scale and the commitments to fertility preservation of both the UIC Andrology Lab and ReproTech, the OverNiteMale™ Kit is the most economical option available.

## About ReproTech

ReproTech, established in 1990, is the premier cryobank providing fertility preservation services. ReproTech's Fertility Preservation Network provides fertility preservation services at more than 75 locations in more than 30 states.

The partnership between the University of Illinois at Chicago and ReproTech further exemplifies ReproTech's commitment to making sperm banking services available to every oncology patient in the United States. ReproTech storage facilities are monitored 24/7 by state-of-the-art monitoring systems which record temperature changes as small as 0.01 degree Celsius. Additionally, all tanks are manually monitored on a weekly basis by our experienced personnel, our facilities are under 24-hour security and surveillance, each facility has on-site back-up bulk nitrogen storage, and all electronic data is backed up daily with data backup stored off site.

## ReproTech's Cryobank Credentials

- Accredited by the American Association of Tissue Banks.
- Inspected and licensed by the New York State Department of Health.
- Licensed by the State of California Department of Health.
- Inspected, registered and compliant with the FDA Regulations 21 CFR Part 1271.

## About the University of Illinois at Chicago Andrology Lab

The University Andrology Laboratory originally opened at Michael Reese Hospital in Chicago in 1982 and relocated in 1996 to the University of Illinois at Chicago Medical Center, Department of Urology. The laboratory meets the highest standard of quality control and quality assurance. The operation of the University Andrology Laboratory has been under the direction of Gail S. Prins, PhD, HCLD, from its inception to the present.

## Laboratory Accreditation

The University of Illinois at Chicago Andrology Laboratory:

- Is Health Care Finance Administration approved.
- Is College of American Pathologists inspected and accredited.
- Has been inspected and is currently certified by CLIA.
- Provides all forms of biological male fertility testing as well as patient sperm banking.
- Inspected, registered and compliant with the FDA Regulations 21 CFR Part 1271.

Gail S. Prins, PhD, HCLD, Laboratory Director is certified by the American Board of Bioanalysis as a high complexity laboratory director and is a member of the American Association of Tissue Banks, the American Society for Reproductive Medicine, and is Past-President of the American Society of Andrology.



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## The Need for Sperm Banking

Long-term freezing of human sperm is frequently desired by patients facing the possibility of sterilization, reduction in fertility potential or genetic damage. Specific examples are chemotherapy and/or radiation therapy for oncology patients, transurethral resection of the prostate, vasectomy or high risk occupational exposure to toxic substances.

## Sperm Banking by Air

The OverNite Male™ Kit is a convenient tool for patients who have difficulty traveling to one of the many ReproTech Fertility Preservation Network Clinics. These patients can now collect their specimens at home and FedEx® the specimen(s) directly to the University Andrology Laboratory using our OverNite Male™ Kit. The OverNite Male™ Kit is the original overnight sperm banking system and the only one with 15 years of proven success.

## How Many Specimens Should be Collected

Once the need for sperm banking is established by the patient and their physician, the patient contacts ReproTech to order an OverNite Male™ Kit or kits. While the patient will always decide on the number of specimens to cryopreserve, sperm quality and time will often limit the number of kits a patient may use. Ironically, patients with lower quality sperm typically collect fewer specimens as they will be used in more advanced procedures. Patients with higher quality sperm may want to collect more specimens since they will benefit from less technical and less expensive reproductive procedures to achieve pregnancy.

With today's advanced reproductive technologies, even one cryopreserved specimen may provide enough sperm for multiple attempts at pregnancy.

Generally 2–3 days sexual abstinence is preferred between collections, thus producing multiple specimens can take up to 2 weeks. However, the collection interval and the number of collections can be adjusted to accommodate physicians who believe this time frame is too lengthy and/or for therapy or surgery which must begin sooner.

## How Specimens are Preserved

When the specimen is received in the University Andrology Laboratory, a complete semen analysis is performed to determine its fertility potential.

A cryobuffer is then added to protect the sperm during the freezing process. The sperm are then frozen and stored in liquid nitrogen tanks which maintain a temperature of -196°C (-321°F) and don't rely on electricity to maintain their cryogenic environment. Once the specimens are processed, they are moved to ReproTech's cryostorage facility for long-term storage. At this low temperature, sperm may be effectively stored for more than 100 years.

## Sperm Freezing Success Rates

In general, sperm cells freeze very well. Generally, 40%–60% of sperm retain motility when thawed, depending upon the quality of semen. However, many patients with testicular cancer have reduced sperm count and motility even before therapy. Poor quality specimens do not freeze as well as normal semen samples.

## Required Testing

Standards and/or regulations require that patients complete the following serology/virology testing prior to release of specimens from ReproTech for transfer back to patient's clinic for infertility treatment: HBsAg and Anti-HCV, in addition to Anti-HIV 1&2. These specimens will be assessed standard storage fees.

We will accept specimens from patients without Anti-HIV 1&2 (AIDS) testing or who have tested reactive for one or more of the following: Anti-HIV 1&2, HCV, and HBsAg, however, potentially infectious storage fees will apply.

## How to Attempt Pregnancy with Frozen Sperm

For specimens with normal count and motility, artificial insemination of thawed sperm into the spouse/partner's cervix is performed by a fertility specialist. This will require timed ovulation monitoring during the desired month of conception with 1–2 inseminations (1–2 vials each) around the time the egg is released.

For specimens with below normal parameters for sperm count and/or motility, special Assisted Reproductive Technologies (ART) such as In Vitro Fertilization (IVF) or Intracytoplasmic Sperm Injection (ICSI) may be necessary.

A patient's cryopreservation results and their partner's own fertility will determine the type of appropriate fertility treatment. It is important to learn from the referring physician, ReproTech or from the University Andrology

Laboratory the quality of personal frozen specimens in order to determine in advance what type of treatment will be most appropriate for an attempt at pregnancy.

Arrangement for the shipment of vials should be done at least one month prior to beginning artificial insemination or specialized ART procedures. If needed, samples may be shipped to another location in the United States, arrangements can be made to ship specimens via FedEx®. Please contact ReproTech for shipping information approximately 30 days prior to use.

## How to Order an OverNite Male™ Kit

Ordering the OverNite Male™ Kit is easy. Simply contact ReproTech using the information below to get started. ReproTech will forward by fax or e-mail a set of forms for completion. The required paperwork and payment must be returned to ReproTech prior to overnight delivery of the kit.

For most patients, \$575 covers the costs for the first year. This cost includes the kit, delivery and return of the kit to the lab, processing, transfer, and storage for the first year with ReproTech. To bank more than one specimen, additional kits can be purchased for \$350 each. Whether one kit or five are used for storage, the recurring annual standard storage fee is \$300. This fee is billed on a per patient basis, not a per specimen basis.

An additional annual storage fee of \$150 is assessed for patients who do not forward infectious disease testing and/or who have tested reactive for an infectious disease.

Payment may be made by credit card, debit card or PayPal.

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