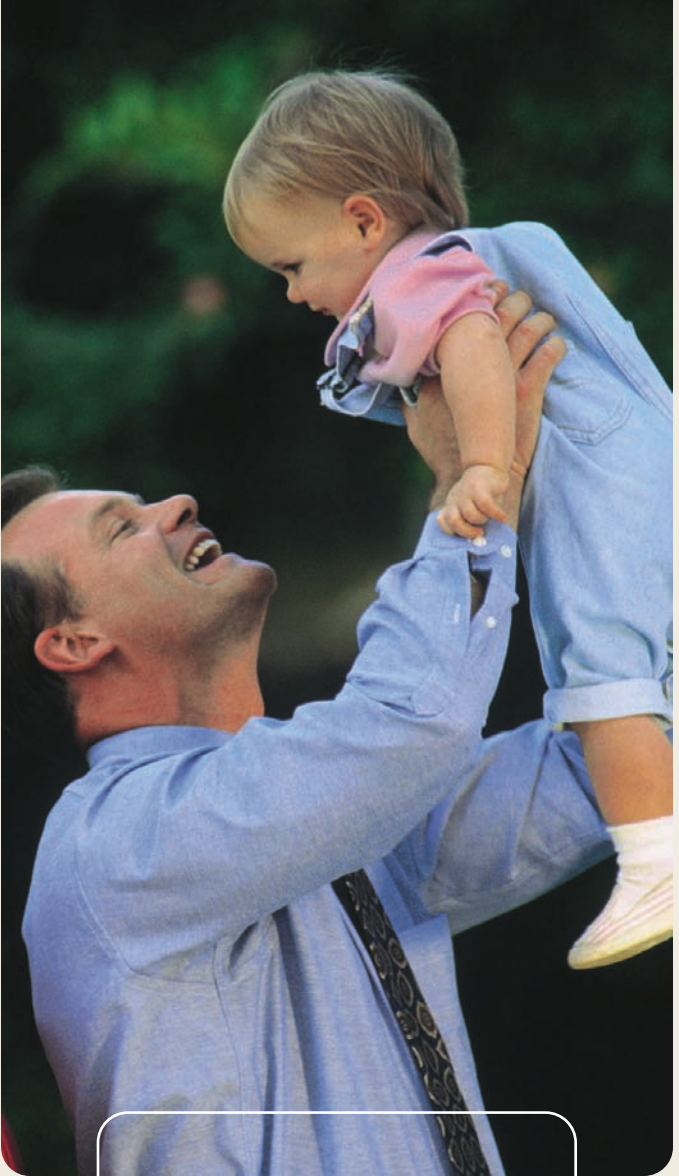




Sperm Banking

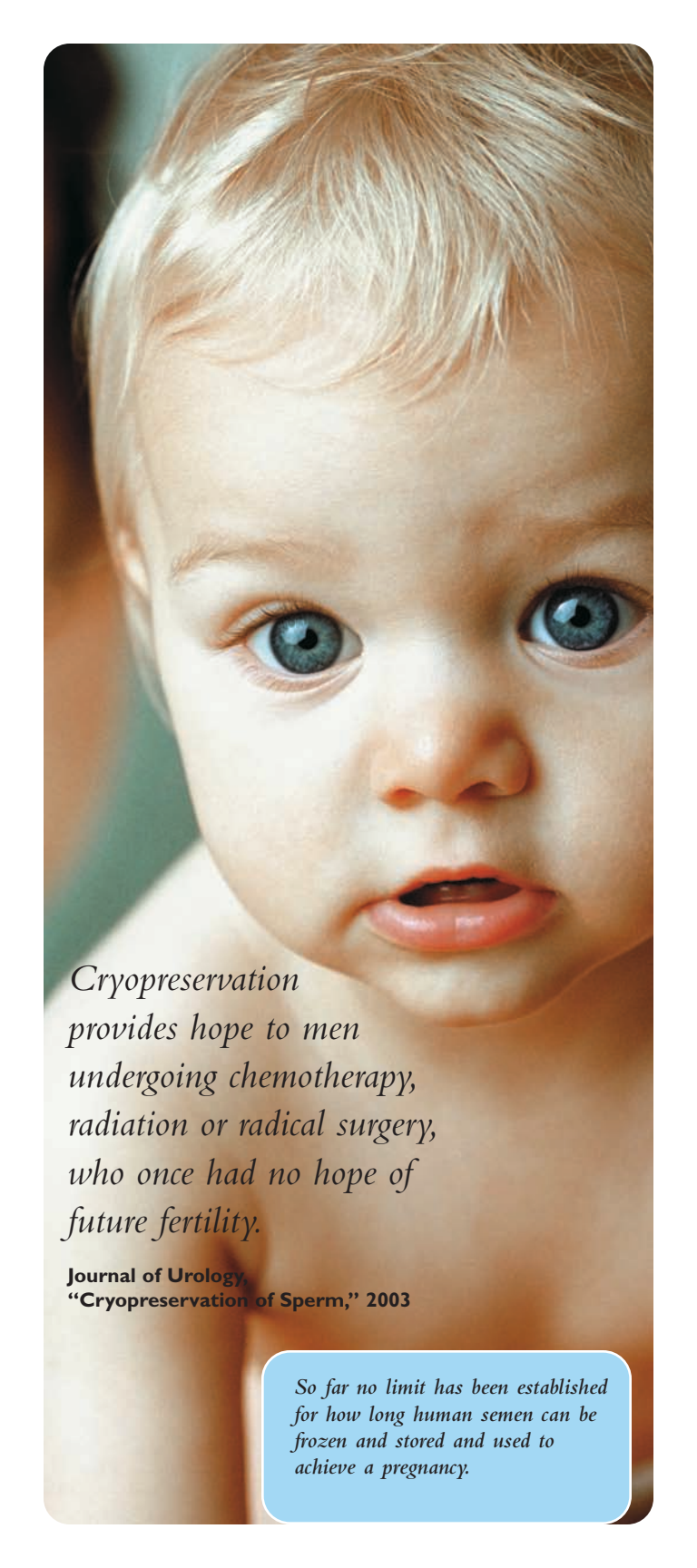
Preserving Your Future



Fairfax
Cryobank

A GIVF Cryobank

www.fairfaxcryobank.com



*Cryopreservation
provides hope to men
undergoing chemotherapy,
radiation or radical surgery,
who once had no hope of
future fertility.*

**Journal of Urology,
“Cryopreservation of Sperm,” 2003**

*So far no limit has been established
for how long human semen can be
frozen and stored and used to
achieve a pregnancy.*



Preserving Your Fertility

Cryopreservation is the process of freezing tissues or cells, and maintaining them at extremely low temperatures for future use. The technique has undergone important advances since the first births using frozen sperm occurred in the early 1950s. Samples are mixed with media that minimize damage during freezing and thawing, placed in special vials and carefully frozen in liquid nitrogen vapor. They are then stored in liquid nitrogen in securely monitored tanks at a temperature of -196°C (-320°F).

Sperm cryopreservation has revolutionized the field of assisted reproduction. It has allowed men whose fertility may be jeopardized by situations ranging from on-the-job injuries to medications and illness to protect their potential to father children.

A documented patient of our labs stored his semen at age 22, anticipating an elective vasectomy. Using this sample he subsequently fathered three children at 16, 21 and 23 years from the time of his initial deposit.

AFFORDABLE, PEACE OF MIND

The affordable costs and relative ease of semen cryopreservation to enhance future options present obvious advantages. Fairfax Cryobank remains among the most affordable of the nationally known sperm banking facilities.

Choosing to bank sperm to protect fertility can alleviate to some degree the concerns, and sometimes improve the overall attitude, of men facing medical procedures. Cryopreservation has proven time and again to be a successful method for fulfilling men's aspirations with regard to having children.



Choose to Bank Sperm if...

The most common situations in which men seek a qualified resource for cryopreservation are before undergoing surgeries and treatments, or prior to taking medications which may affect their sperm quality and reproductive capabilities. Other situations to protect against possible loss of fertility:

You experience absent partners for the timing of reproductive procedures

To preserve the male partner's sperm for periods of absence, or to ensure the availability of semen at the critical time of a procedure such as IVF (in vitro fertilization) or other assisted reproduction procedures.

You are in a high-risk occupation

Certain high-risk occupations involve the threat of reduced fertility, sterility or testicular injury:

- Exposure to environmental contaminants, chemicals, herbicides, pesticides, lead, radiation, pollutants and other everyday agents.
- Law enforcement, fire, safety and construction workers susceptible to accidents with consequential injuries.
- For the military, fertility insurance against exposure to chemical or biological agents, or if planning a pregnancy while on deployment.
- Athletes in high impact and contact sports.

Testicular trauma resulting from an injury, from surgery or from an infection can trigger an immune response in the testes that damages sperm and impairs the ability of sperm cells to penetrate a female egg.(1)



Preserving Your Fertility

As vasectomy insurance

While vasectomy reversal success rates are good, they do not always result in return of sperm to the semen, or in sperm capable of fertilization. Cryopreservation prior to a vasectomy provides fertility insurance and eliminates the need for further surgery.

In cases of testicular or prostate surgery; other malignant diseases

Impotence and/or sterility can be an unfortunate side effect of these types of surgeries and medications. Testicular cancer is the most common cancer in men between 15–40 years old. Malignant diseases such as Hodgkin's disease, leukemia and others often occur in juveniles, young adults and others who haven't started or completed their families. Banking specimens prior to treatment increases the chances for a successful future pregnancy.

You may have oligozoospermia (low sperm count) or low quality sperm

Scientific data show sperm density is falling in men of industrial nations.⁽²⁾ Various factors implicated include exposure to toxic substances such as PCBs, radioactive waste, pesticides and other harmful elements—known and unknown. Other possible detriments to sperm concentration: stress, smoking, injuries, illness and drug use. Among partners trying to start a family, it has been found that infertility problems affect men and women equally. To improve chances of a pregnancy for men with low sperm counts, multiple specimens can be pooled by the physician.

Today's assisted reproductive technologies have resulted in pregnancies using very low numbers of sperm.



Sperm Storage for the Cancer Patient

TRUE OR FALSE QUIZ:

Sperm Banking and Cancer Treatment

- 1) Many young men with cancer have low sperm counts and motility at the time of their diagnosis.
- 2) Most young teenage boys have good enough sperm quality to make it worthwhile to bank.
- 3) With today's advances in cancer treatments, most male patients will retain or regain adequate fertility so that banking sperm is just added insurance.
- 4) To have adequate semen samples for sperm banking, you need to collect three to six samples before cancer treatment begins.
- 5) Research has shown that there is increased risk of birth defects in children conceived from semen collected in the first week of chemotherapy or radiation.
- 6) With today's infertility treatments, it is worthwhile to bank sperm even if count and motility of the samples are quite low.

ANSWERS:

T (1) F (2) T (3) F (4) F (5) F (6)

Clinical Journal of Oncology Nursing 2002



Sperm Storage for the Cancer Patient

MORE FOCUS ON QUALITY OF LIFE FOR SURVIVORS

Cancer patients survive at increasing rates, but successful treatment often leads to reduced fertility or sterility. The testes are highly susceptible to the toxic effects of radiation and chemotherapy at all stages of life.

For the best possible outcome it's important that physicians consult with cancer patients about options for fertility preservation *prior to treatment*.

Oncologists have traditionally been focused on the most effective treatment in order to prolong life. But with the growing number of cancer survivors, much attention is being focused on their quality of life—the physical, social, psychological and spiritual issues they face. Surveys of cancer patients reveal a very strong desire to be informed of available options for future reproduction.(3)

Improvements in treating cancer have enabled many people to survive.

However, treatment is often highly detrimental to the reproductive function. The only established method of fertility preservation in men is sperm cryopreservation.

**American Society for Reproductive Medicine,
March 2005**



The Process: Collection and Storage

Fairfax Cryobank has been a leader in the industry, protecting the reproductive future of cancer patients through careful application of cryopreservation and the maintenance of semen in a frozen state over extended periods of time. Because of our national capital location, we receive many referrals from the National Cancer Institute, Bethesda Naval Medical Center, the Walter Reed Army Health Care System, as well as from local hematologists, medical and radiation oncologists.

Thanks to the advances in fertility treatments, even the collection of sub-standard specimens has proven worthwhile. Although treatment may have begun, many patients are able to effectively store viable samples. Sperm quality tends to decline only a few days into starting cancer treatments.

We appreciate the urgency of beginning cancer therapy and reserve appointments just for oncology patients. We suggest providing at least two specimens, 48-72 hours apart, to assure an adequate amount of samples for future inseminations. Fairfax Cryobank can arrange for storage of semen specimens in the critical window you have for banking.

For the patient approaching cancer treatment, banking sperm is a way to put one issue out of your mind. Having even one sample of frozen sperm stored means the chance of having a biological child in the future.

Malecare.com Men fighting cancer together. 2005



The Process: Collection and Storage

ON SITE, AT OUR LAB

In order to obtain a semen specimen of maximum quality and quantity for freezing, it is recommended that patients abstain from any ejaculation or emission for at least three days—but not more than five days—prior to an appointment on site at our laboratory facility. Semen depositors make an appointment during regular business hours, Monday through Friday. Our courteous, professional staff will walk you or a loved one through the necessary forms and provide facilities for your sample collection via self-masturbation.

In any emergency situation regarding your cancer diagnosis and treatment, please contact Fairfax Cryobank to see how we can help. Visit our website at www.fairfaxcryobank.com or call us at (800) 338-8407. Customer care is our first consideration.

PRIORITY MALE OVERNIGHT COLLECTION KIT

In association with Cryogenic Laboratories Inc. (CLI) in Minnesota, Fairfax Cryobank offers men the means to collect and bank samples prior to medical treatment, even if they are unable to travel to a bank or collection facility. Each Priority Male kit comes complete with the necessary forms, detailed instructions and transport media. A fast, convenient and worry-free process.

Priority Male kits are obtained for a nominal fee by calling CLI at (800) 466-2796. More information is available at www.cryolab.com under “Sperm Banking.”



The Process: Collection and Storage

PRE- AND POST-FREEZE ANALYSIS

As standard procedure, a pre-freeze semen analysis is performed to document each sample's quality. This analysis will determine the count and motility (activity) of the sperm. Fairfax is one of the few cryobanks that routinely performs a post-thaw specimen analysis. We want to place into cryostorage only those specimens that have viable sperm cells.

- Samples are protected from freeze damage with carefully calculated amounts of cryopreservation solution.
- Treated semen is divided into precise portions and sealed into vials.
- Vials are quickly frozen by vapor and stored in liquid nitrogen.
- A separate portion of the specimen is then thawed for complete post-thaw analysis.

Based on this analysis, our technicians will consult with you on future plans to optimize the samples required.

SAFETY AND SECURITY THROUGH CONSTANT MONITORING

Fairfax Cryobank guarantees effective storage and maintenance of patient samples until the patient decides to use them for assisted conception procedures or terminates the storage agreement. Storage tanks are inspected daily to replenish liquid nitrogen. While the entire system operates independently of electricity, the premises and tanks are constantly monitored to assure proper storage conditions as well as overall building security. Staff is on call 24 hours each day.

Current fees with attractive discounts for long term, pre-paid storage can be found on the Fairfax website at www.fairfaxcryobank.com.



The Process: Collection and Storage

INFECTIOUS DISEASE SCREENING

Clients who bank sperm for future use are required to have testing for infectious and sexually-transmitted diseases such as HIV and hepatitis. Clients may elect to have these tests performed by Fairfax Cryobank or have blood drawn and tested by another laboratory or physician. Proof of results must be provided to Fairfax Cryobank within 30 days of producing samples.

Required tests* include:

- HIV I & 2 (AIDS) Antibody
- HIV I NAT (Nucleic Acid Test)
- Hepatitis B Surface Antigen
- Hepatitis B Core Antibody
- Hepatitis C Viral Antibody
- HLTV I, II Antibody
(an immunodeficiency disease)

In strict compliance with industry standards, separate biohazardous storage is maintained for specimens which have tested positive for infectious diseases. This special storage incurs additional fees.

WITHDRAWAL AND SHIPPING, AT YOUR SERVICE

Release forms allow for shipping of specimens at any time to the client's physician for use by his intimate partner. There is a nominal charge for release and shipping using specially designed transport canisters to preserve the specimen's frozen state for the receiving physician. We recommend contacting Fairfax Cryobank with two weeks notice to ensure that all processes are in place for the shipping and protection of your vials in the timeframe needed. Our policy requires payment at the time of service.

**Testing subject to change without notice.*



Decades of Exceeding Expectations

BANK YOUR FUTURE WITH THE EXPERTS

Fairfax Cryobank, part of the Genetics & IVF Institute, has grown into one of the largest commercial sperm banks in the country. We provide sperm preservation and storage services for individuals, oncology patients and for other medical facilities at our operations in Fairfax (outside Washington, D.C.), Austin and Philadelphia. Fairfax Cryobank has remained a leader in the industry through our unwavering commitment to excellence in medical science, advancements in cryobanking and genuine concern for the reproductive aspirations of our clients—present and future.

CREDENTIALS YOU CAN COUNT ON

As one of the world's largest and most experienced sperm banks, Fairfax Cryobank offers exceptional embryo storage, oocyte storage for women who wish to freeze their eggs for future use, donor sperm services, and individual sperm banking. We meet the highest standards of screening and testing in the industry and were one of the first institutions to be fully compliant with FDA regulations.

Having passed rigorous inspections of every aspect of our operations from semen acquisition and storage practices to quality control, quality assurance and record keeping, we are dedicated to the safety and protection of our patients' assets. Other certifications include:

- Registered with the Food and Drug Administration (FDA) for laboratory operations in Fairfax, Austin and Philadelphia.
- Tissue banking licenses with the states of New York, Maryland and California.



Decades of Exceeding Expectations

Additional licensure held by the laboratories of the Genetics & IVF Institute:

- State of Virginia/CLIA (Clinical Laboratory Improvement Amendments)
- Molecular Infectious Disease Laboratory CLIA #49D0952503 (Certified in Bacteriology, Parasitology, Virology)
- Semen Analysis #49D0886517
- College of American Pathologists #7184061
- State laboratory licensure in New York, Maryland and Florida

Our staff of professional cryo-technicians trained in reproductive biology are highly experienced, processing thousands of specimens annually.

COMMITTED TO PRESERVING YOUR FUTURE

Fairfax Cryobank continues to make investments in researching, developing and refining the means to protect, freeze and store sperm for future insemination. Although we have helped to make the use of frozen sperm for assisted reproduction commonplace, we work with our sister company to explore new methods for cryopreserving and storing embryos, oocytes (unfertilized eggs) and ovarian tissue as well. At Fairfax Cryobank we are grateful for the opportunity to share our expertise in the field of human fertility. It is a rewarding experience to play a part in securing your future generations.

(1) Healthcommunities.com, Inc.

(2) National Center for Health Statistics

(3) ASRM in Fertility and Sterility, June 2005

“Realize that sperm banking is similar to buying an insurance policy. It is an important and potentially the only fertility option for some men because of other conditions. Consider the banked sperm to be your most valuable bank account, as it represents life.”

Paul J. Turek, MD

A Practical Guide to Sperm Banking



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A GIVF Cryobank

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Fax: (512) 206-0728

Email: austincryo@yahoo.com

3401 Market Street, Suite 205
Philadelphia, PA 19104

Direct: (215) 386-1977

Toll free: (800) 338-8407

Fax: (215) 386-1776

Email: phillycryo@yahoo.com

*Fairfax Cryobank also has affiliated freezing centers
that may be more convenient such as:*

WOMEN'S CLINIC, LTD. WEST READING, PA
(610) 374-2214

TEXAS CENTER FOR REPRODUCTIVE HEALTH
Dallas, TX
(214) 821-2274

FERTILITY & WOMEN'S HEALTH CENTER OF LOUISIANA
Lafayette, LA
(337) 989-8795

*A more complete list can be found on our website at
www.fairfaxcryobank.com under SPERM STORAGE.*