

Journal of Andrology, Vol 19, Issue 5 517-526, Copyright © 1998 by The American Society of Andrology

REVIEW

The emergence of specialized procedures for the acquisition, processing, and cryopreservation of epididymal and testicular sperm in connection with intracytoplasmic sperm injection

J. L. Marmar

Division of Urology, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School at Camden, 08103, USA.

Epididymal and testicular spermatozoa have been used widely for ICSI among men with obstructive azoospermia and NOA. New aspiration and biopsy techniques are available, and several sperm preparation methods have been described to isolate sperm. Most samples have sufficient sperm for cryopreservation. Accordingly, clinicians must sort through these new procedures to develop treatment plans that best suit their practices. In the future, other methods will be developed, and clinicians will have to critically review them prior to use.

This article has been cited by other articles:



**HUMAN REPRODUCTION**

[▶ HOME](#)

S. H. Benoff, C. Millan, I. R. Hurley, B. Napolitano, and J. L. Marmar  
Bilateral increased apoptosis and bilateral accumulation of cadmium in infertile men with left varicocele  
Hum. Reprod., March 1, 2004; 19(3): 616 - 627.

[\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)



**HUMAN REPRODUCTION**

[▶ HOME](#)

S. Benoff, G. M. Centola, C. Millan, B. Napolitano, J. L. Marmar, and I. R. Hurley  
Increased seminal plasma lead levels adversely affect the fertility potential of sperm in IVF  
Hum. Reprod., February 1, 2003; 18(2): 374 - 383.

[\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)

*This Article*

- ▶ [Full Text \(PDF\)](#)
- ▶ [Alert me when this article is cited](#)
- ▶ [Alert me if a correction is posted](#)

*Services*

- ▶ [Similar articles in this journal](#)
- ▶ [Similar articles in PubMed](#)
- ▶ [Alert me to new issues of the journal](#)
- ▶ [Download to citation manager](#)

*Citing Articles*

- ▶ [Citing Articles via HighWire](#)
- ▶ [Citing Articles via Google Scholar](#)

*Google Scholar*

- ▶ [Articles by Marmar, J. L.](#)
- ▶ [Search for Related Content](#)

*PubMed*

- ▶ [PubMed Citation](#)
- ▶ [Articles by Marmar, J. L.](#)



## HUMAN REPRODUCTION

▶ HOME

S. Friedler, A. Raziel, D. Strassburger, M. Schachter, Y. Soffer, and R. Ron-El

Factors influencing the outcome of ICSI in patients with obstructive and non-obstructive azoospermia: a comparative study  
Hum. Reprod., December 1, 2002; 17(12): 3114 - 3121.

[\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)



## HUMAN REPRODUCTION

▶ HOME

N.E. Bachtell, J. Conaghan, and P.J. Turek

The relative viability of human spermatozoa from the vas deferens, epididymis and testis before and after cryopreservation  
Hum. Reprod., December 1, 1999; 14(12): 3048 - 3051.

[\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)



## HUMAN REPRODUCTION

▶ HOME

P.S. James, C.A. Wolfe, A. Mackie, S. Ladha, A. Prentice, and R. Jones

Lipid dynamics in the plasma membrane of fresh and cryopreserved human spermatozoa

Hum. Reprod., July 1, 1999; 14(7): 1827 - 1832.

[\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)



## BIOLOGY of REPRODUCTION

▶ HOME

B. Pukazhenthil, K. Pelican, D. Wildt, and J. Howard

Sensitivity of Domestic Cat (*Felis catus*) Sperm from Normospermic versus Teratospermic Donors to Cold-Induced Acrosomal Damage  
Biol Reprod, July 1, 1999; 61(1): 135 - 141.

[\[Abstract\]](#) [\[Full Text\]](#)

[HOME](#) [HELP](#) [FEEDBACK](#) [SUBSCRIPTIONS](#) [ARCHIVE](#) [SEARCH](#) [TABLE OF CONTENTS](#)

Copyright © 1998 by The American Society of Andrology.