get the journal delivered to your

mailbox!

FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Journal of Andrology, Vol 21, Issue 5 636-640, Copyright © 2000 by The American Society of Andrology

JOURNAL ARTICLE

Journal of

Seminal plasma glycodelin and fertilization in vitro

H. Koistinen, R. Koistinen, C. Hyden-Granskog, O. Magnus and M. Seppala

Department of Obstetrics and Gynecology, Helsinki University Central Hospital, Finland.

Endometrium-derived glycodelin-A inhibits sperm-egg binding, whereas differentially glycosylated seminal plasma glycodelin-S does not. The difference has been ascribed to the specific type of glycosylation of glycodelin-A. We studied whether the total glycodelin concentration or the relative glycodelin-A concentration in seminal plasma are related to the in vitro fertilization rate of oocytes. We found that total glycodelin levels were significantly higher in a quartile of men

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 Articles by Koistinen, H. Articles by Seppala, M. Search for Related Content PubMed PubMed Citation

with the lowest in vitro fertilization rate compared with the remaining 3 quartiles combined (P = .01). However, for predicting low fertilization capacity of sperm, combining the glycodelin and sperm concentrations by logistic regression analysis did not significantly increase the information obtained from sperm concentration alone. We used specific lectin-immunoassays to determine whether increased glycodelin-A-type glycosylation in seminal plasma would be related to failure to fertilize. No difference was found between the groups with high fertilization and no fertilization in vitro. It is concluded that, although high seminal plasma total glycodelin level has a tendency of being associated with a lower fertilization rate, the difference has limited value to predict fertilization in vitro.

This article has been cited by other articles:



HUMAN REPRODUCTION UPDATE **HOME** M. Seppala, H. Koistinen, R. Koistinen, P.C.N. Chiu, and W.S.B. Yeung Glycosylation related actions of glycodelin: gamete, cumulus cell, immune cell and clinical associations Hum. Reprod. Update, May 1, 2007; 13(3): 275 - 287. [Abstract] [Full Text] [PDF]

GLYCOBIOLOGY GLYCOBIOLOGY

K. Lapid and N. Sharon Meet the multifunctional and sexy glycoforms of glycodelin Glycobiology, March 1, 2006; 16(3): 39R - 45R. [Abstract] [Full Text] [PDF]

This Article

- Full Text (PDF)
- Alert me when this article is cited

- Articles by Koistinen, H.
- Articles by Seppala, M.

HOME

JBC Online

HOME



HOME

HOME

 ENDOCRINE REVIEWS

ENDOCRINE REVIEWS

M. Seppala, R. N. Taylor, H. Koistinen, R. Koistinen, and E. Milgrom Glycodelin: A Major Lipocalin Protein of the Reproductive Axis with Diverse Actions in Cell Recognition and Differentiation Endocr. Rev., August 1, 2002; 23(4): 401 - 430. [Abstract] [Full Text] [PDF]



BIOLOGY of REPRODUCTION

H. Koistinen, T. Soini, J. Leinonen, C. Hyden-Granskog, J. Salo, M. Halttunen, U.-H. Stenman, M. Seppala, and R. Koistinen Monoclonal Antibodies, Immunofluorometric Assay, and Detection of Human Semenogelin in Male Reproductive Tract: No Association with In Vitro Fertilizing Capacity of Sperm Biol Reprod, March 1, 2002; 66(3): 624 - 628. [Abstract] [Full Text] [PDF]

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Copyright © 2000 by The American Society of Andrology.