

FERTILITY SCIENCE

Newsletter 01|2022

Dear colleagues,

On behalf of Fertility Medical Group, I wish you all a Happy New Year.

I hope you all have a fantastic 2023 with the same enthusiasm in the field of Science.

See below our 2022 **scientific production**:

ARTICLES



Maternal lifestyle and nutritional habits are associated with oocyte quality and ICSI outcomes

Amanda Souza Setti, Gabriela Halpern, Daniela Paes de Almeida Ferreira Braga, Assumpto Iaconelli Jr, Edson Borges Jr.

[Access Article](#)

High oocyte immaturity rates affect embryo morphokinetics: lessons of time-lapse imaging system

Amanda Setti, Daniela Braga, Patricia Guilherme, Assumpto Iaconelli Jr. Edson Borges Jr.

[Access Article](#)



Paternal ageing impacts blastulation and the outcomes of pregnancy at different levels of maternal age: A clustering analysis of 21,960 oocytes and 3837 ICSI cycles

Amanda Souza Setti, Daniela Paes de Almeida Ferreira Braga, Patricia Guilherme, Livia Vingris, Assumpto Iaconelli Jr, Edson Borges Jr.

[Access Article](#)



Dual trigger improves response to ovarian stimulation and ICSI outcomes in patients with a previous r-hCG triggered ICSI cycle

Amanda Souza Setti, Luis Guilherme Louzada Maldonado, Daniela Paes de Almeida Ferreira Braga, Assumpto Iaconelli Jr., Edson Borges Jr.

[Access Article](#)

Ethics and IVF add-ons: We need to talk about it

Daniela Paes de Almeida Ferreira Braga, Amanda Souza Setti, Edson Borges Jr.

[Access Article](#)

Ovarian stimulation with luteinizing hormone supplementation: the impact of timing on ovarian response and ICSI outcomes

Amanda Setti, Daniela Braga, Assumpto Iaconelli Jr, Edson Borges Jr.

[Access Article](#)



Post-Vasectomy Semen Analysis: Optimizing Laboratory Procedures and Test Interpretation through a Clinical Audit and Global Survey of Practices

Ashok Agarwal, Edson Borges Jr. et al.

[Access Article](#)

Consensus and diversity in the management of varicocele for male infertility: results of a global practice survey and comparison with guidelines and recommendations

Rupin Shah, Ashok Agarwal, Edson Borges Jr. et al.

[Access Article](#)



Cryopreservation Improved embryonic development and utilization rates with EmbryoScope: a within-subject comparison versus a benchtop incubator

Amanda Souza Setti, Daniela Paes de Almeida Ferreira Braga, Assumpto Iaconelli Jr., Edson Borges Jr.

[Access Article](#)



Previous infection with SARS-CoV-2 impacts embryo morphokinetics but not clinical outcomes in a time-lapse imaging system

Daniela Paes de Almeida Ferreira Braga, Amanda Souza Setti, Assumpto Iaconelli Jr., Edson Borges Jr.

[Access Article](#)

PRESENTATIONS AT CONGRESSES



Improved implantation and pregnancy rates in frozen-thawed embryo transfer using a modified-natural ovulatory regimen

Rosane Rodrigues, Amanda Setti, Daniela Paes de Almeida Ferreira Braga, Rodrigo Provenza, Patricia Guilherme, Assumpto Iaconelli Jr., Edson Borges Jr.

[Open Presentation](#)

Use of epididymal sperm in *in vitro* fertilization cycles using timelapse culture system: slower embryos with higher rates of multinucleation and abnormal patterns of cell division

Edson Borges Jr., Amanda Setti, Daniela Paes de Almeida Ferreira Braga, Rodrigo Provenza, Patricia Guilherme, Assumpto Iaconelli Jr.

[Open Presentation](#)

Time-lapse monitoring: an adjunct tool for selecting embryos for preimplantation genetic testing

Amanda Setti, Daniela Paes de Almeida Ferreira Braga, Patricia Guilherme, Assumpto Iaconelli Jr., Edson Borges Jr.

[Open poster](#)

The impact of ethnic differences on embryo morphokinetics and clinical outcomes: the importance of racial admixture

Carla Iaconelli, Daniela Paes de Almeida Ferreira Braga, Amanda Setti, Amanda Setti, Patricia Guilherme, Assumpto Iaconelli Jr., Edson Borges Jr.

[Open poster](#)

The role of the duration of infertility on the of quality of life and psychological health in infertile couples

Mauro Bibancos de Rose, Rose Melamed, Daniela Paes de Almeida Ferreira Braga, Amanda Souza Setti, Assumpto Iaconelli Jr., Edson Borges Jr.

[Open poster](#)

The Noninvasive preimplantation genetic testing for aneuploidies (NIPGT-A) x Preimplantation genetic testing for aneuploidies (PGT-A): NIPGT-A is more reliable than PGT-A

L. Vagnini, C.G. Petersen, R. Nakano³, C.G. Almodin, C. Marcondes, A. Ceschin, A. Amaral, E. Borges Jr., A. Castelo Branco, J.B. Soares, J.Lopes, M.N.C.R. Camarço, J.B.A. Oliveira, F. Dieamant, J.G. Franco Jr.

[Open poster](#)

REPRODUÇÃO ASSISTIDA
ALÉM DA INFERTILIDADE



Multicentre validation of CHLOE-EQ: An embryo assessment assistant based on Artificial Intelligence (AI) (Awarded best oral presentation)

Mauro Oliveira Gomes, L.; Fernando de Macedo, .J; Guilherme, P.; Borges Jr, E.; Moise Yadid, I.; Santos Criscuolo, T.; Azambuja, R.; Badalotti, M.; Rodrigues Lamounier de Moura, B.; Prado Ferreira, F.; Zepeda, A.; Brualla, A.; Hickman, C.

[Open Presentation](#)

Characterising Direct Unequal Cleavage using CHLOE-EQ

Braga, D. 1,2; Setti, A. 1,2; Vingris, L. 1; Guilherme, P. 1; Lo Turco, E. 3; Vergueiro, T. 3; Zepeda, A. 4; Brualla, A. 4; Edson Borges Jr. 1,2; Hickman, C.

[Open poster](#)



Genes, Gametes and Genetics

What are the patients' opinions concerning the use of "add-ons" on reproductive medicine? A survey of IVF patients

Daniela Paes de Almeida Ferreira Braga, Amanda Souza Setti, Patricia Guilherme, Assumpto Iaconelli Jr., Edson Borges Jr.

[Open Presentation](#)

Previous infection with SARS-CoV-2 impacts embryo morphokinetics but not clinical outcomes of intracytoplasmic sperm injection cycles

Edson Borges Jr., Daniela Paes de Almeida Ferreira Braga, Amanda Souza Setti, Patrícia Guilherme, Assumpto Iaconelli Jr.

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Sincerely yours,

Edson Borges Jr., MD, PhD
Director