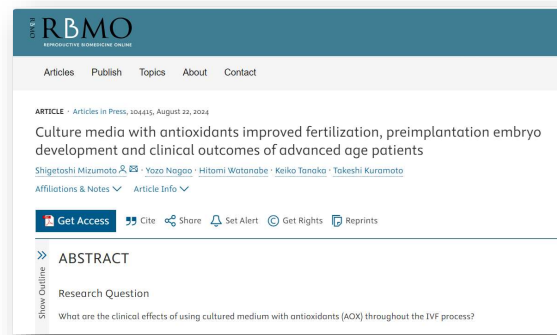


# New data on Gx Media

- This August new data was published from Dr Shigetoshi Mizumoto in RBMO.
- Gx media (Gx-MOPS PLUS, Gx-IVF, Gx-TL) compared with G-series (G-MOPS PLUS, G-IVF PLUS, G-TL), used from sperm preparation and oocyte collection and continued throughout the IVF process.
- This is the first published data on live birth, showing a **significant benefit for patients 35-40 when Gx media is used**
- [Link to publication](#)

*“We found a marked improvement in the clinical outcomes of patients aged 35-40 years old by using the culture media supplemented with AOX throughout of the IVF process, from gamete handling and preparation, insemination, and the subsequent blastocyst culture.”*

<sup>6</sup>Mizumoto S, et al. Reprod Biomed Online. 2024;In press



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## Gx Media – New data, including live birth

Mizumoto et al. Culture media with antioxidants improved fertilization, preimplantation embryo development and clinical outcomes of advanced age patients. RBMO Aug 22nd 2024. <https://doi.org/10.1016/j.rbmo.2024.104415>

**Design:** Prospective randomized single-center study. Cumulus-oocyte complexes and semen samples collected from 127 treatment cycles were split evenly between the study arm (with AOX) and the control arm (without AOX). The primary endpoint was Day 5-6 good quality blastocysts (GQB) rate per metaphase-II (M-II) oocytes.

**Conclusions:** We found that embryo development and SVBT outcomes of treatment cycles of patients aged 35-40 years were improved significantly when we had used the media with AOX throughout the entire IVF process.

127 cycles 2208 COCs	
✓ Random split to two arms ✓	
Control arm (G-media) 1106 COCs / 872 M-II	Study arm (Gx-media) 1102 COCs / 862 M-II
294 utilized blastocysts	328 utilized blastocysts
94 SVBT with EmbryoGlue	94 SVBT with EmbryoGlue

**Gx was used compared to G-series in all steps, including sperm preparation.**

**Results are consistent with :**

Gardner et al. RBMO 2020 – Pregnancy rate in advanced maternal age  
Kelley et al. ESHRE 2023 – Fertilisation

**What is new:**

Data on live birth shows, significant and in favour of Gx for patients aged 35-40 years.

### What's next?

Updated Gx Sales presentation and website

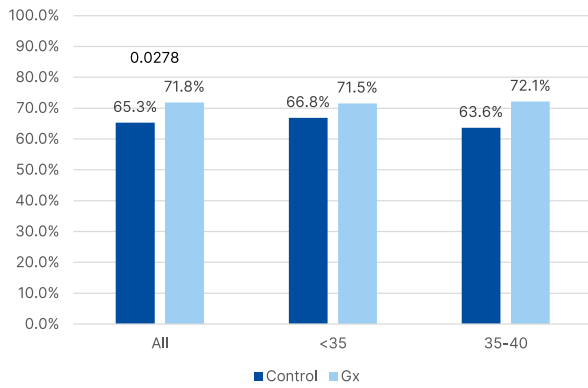
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# Results Mizumoto et al. 2024

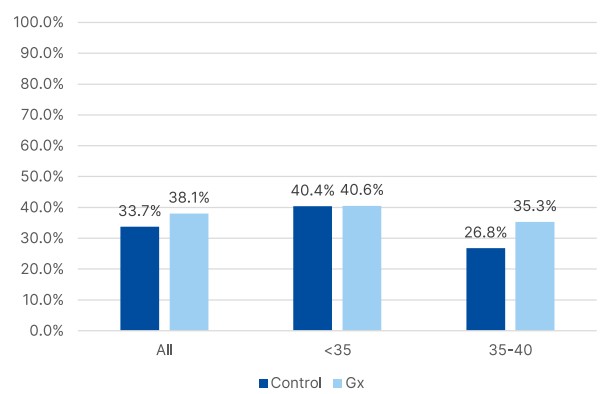
## - Fertilisation and Embryo development

### Fertilisation rate



Significant increase in fertilisation rate for all patients, predominantly (>90%) ICSI

### Day 5-6 blastocyst utilisation (per MII)



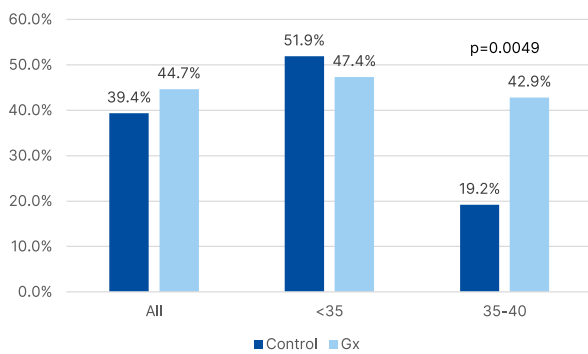
Significant increase in:

- Day 3, 6-10 cell embryos all patients
- Day 3, 8-10 cell embryos 35-40 years
- GQB Day 5/5-6 in patients 35-40 years
- Day 5-6 blastocyst utilisation in patients 35-40 years

# Clinical outcome Mizumoto et al. 2024

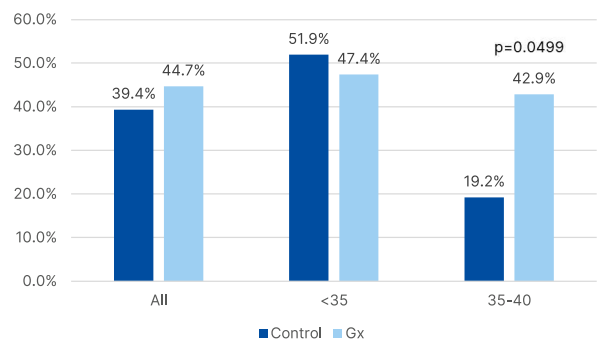
## - Significant improvement for patients 35-40

### Pos HCG/ET



Significant increased pregnancy rate in patients 35-40 years

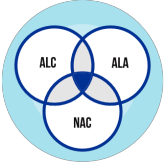
### Live Birth Rate/ ET



Significant increase in live birth rate in patients 35-40 years  
No difference in pregnancy loss or mean neonatal weight

# Gx Media – Fertility Success

The new data from Mizumoto et al. helps us sharpen the claims we have for GX. Remember the statements below?



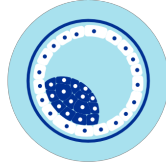
L-Carnitine, Alpha-Lipoic Acid and N-Acetyl-L-Cysteine have a highly beneficial effect on embryo development when used in combination (1,2).



Benefit is greatest at 20% oxygen but is also present at 5% oxygen (1,2).



Improved embryo viability and trend towards increased pregnancy rate (3,4,5).



The 3 antioxidants are beneficial when present in gamete handling media, IVF media and culture media (1,2,3,4,5).

## With the new brochure we also claim

Launched in 2018, Gx Media – Gx-MOPS™ PLUS, Gx-IVF™ and Gx-TL™ with a triple antioxidant combination<sup>1,2</sup> – have been compared in multiple randomized controlled trials with standard G-series media (G-MOPS PLUS, G-IVF PLUS and G-TL/G1 Plus/G2 PLUS)<sup>3,4</sup>, showing similar trends as described below.

### → Improved ICSI fertilisation

Gx Media significantly improved ICSI fertilisation rates when used for sperm preparation, oocyte collection and subsequent ICSI fertilisation as described below<sup>4,6</sup>.

### → Higher pregnancy rates for women aged 35–40 years

Gx Media or antioxidant-enhanced G-series media significantly improved pregnancy rates when used continuously throughout the IVF process<sup>3,6</sup>.

## Why is this good?

- 76% of clinics rate fertilisation as an important KPI
- Most clinics perform predominantly ICSI
- With more fertilised embryos → more embryos to utilise
- The ICSI success comes when clinics **used the full media series**, including Gx-IVF for gradient sperm preparation
- The trend towards increased PR is now significant in women aged 35–40

**Download the latest "1-pager"** and give your customers a Gx clinical data update!