



OBSTETRIC OUTCOME IN ART

S.SALEHPOUR

PROFESSOR OB/GYN

INFERTILITY FELLOWSHIP

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ABAN 1399

ART:

-ICSI

-cleavage stage biopsy

-Trophectoderm biopsy

-Blastocyst transfer

-Fresh embryo transfer

-FET

-Other parameters : age-weight-DFI

acrosomal reaction

-SET or more embryo

Summary

1. Ante partum hemorrhage
2. PIH
3. PPRM
4. CS
5. GDM
6. Induction of Labor
7. Preterm birth
8. FET pregnancies
9. Blastocyst transfer
10. Trophoctoderm biopsy
11. Other factors ; DFI, Age, BMI,...
12. conclusion

Antepartum hemorrhage (previa , Abruption)

-increase in singleton IVF, ICSI, compered to spontaneous
Pregnancy (2.49 → 2)

(Hum Rep up 2012)

Hypertensive disorders of pregnancy

- PIH
- Preeclampsia
- Eclampsia

*Increase in singleton IVF/ICSI compared to spontaneous
Pregnancy (1.49 \longrightarrow 1)

Preterm premature rupture of membrane:

*Increase risk of singleton PPRM in IVF/ICSI compared to spontaneous pregnancy

(Hum Rep up 2012)

Cesarean section

- Elective
- Emergency

*Increase in singleton IVF/ICSI compared to spontaneous
Pregnancy

(Hum Rep up 2012)

Gestational diabetes

*Increase risk singleton in IVF/ICSI compared to spontaneous
(1.48 → 1)

(Hum Rep up 2012)

Induction of Labor

*Increase risk in singleton in IVF/ICSI compared to spontaneous

(Hum Rep up 2012)

Preterm delivery

- 2 Fold increase in preterm delivery (<37w) in singleton IVF/ICSI compared to spontaneous pregnancies (10% → 5%)

(Ultra ob gyn 2018)

- Trans vaginal cervical length is advised for IVF/ICSI pregnancies to predict preterm deliveries

(Ultra ob gyn 2017,2010)

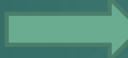
FET versus Spontaneous conception

- Increase risk of CS
- Increase birth <37w and <32w

Blastocyst transfer versus Spontaneous conception

- Increase placenta previa , accreta , preeclampsia
- The rate is decreased with high oxygen incubators

Trophectoderm biopsy versus IVF {PGT(PGS + PGD)}

- Singleton pregnancies
- Increase risk of preeclampsia (3 Fold)
(ferti -steri 2019)
- In Trophectoderm bx placenta cell is removed
- Shallow placentation  preeclampsia , IUGR
(ferti -steri 2019)
- Increase risk of placenta previa (3 Fold)
- Similar incidences of GDM, PPRM , PPH, CS, inductions of Labor
(ferti -steri 2019)

Female age

- Decrease pregnancy outcomes? (>38 . >40)

Male age:

- Epigenetic problem ?(DNA methylation)
- Still under ??

DFI, Acrosomal levels

- Can increase abortion rate alter pregnancy outcome

(andrologia 2016)

Female and male BMI

- No direct on pregnancy out come

Conclusion

- IVF, ICSI (singleton) pregnancies must be managed as high risk
- According to confidentiality , relation between reproductive medicine specialist and obstetrician must be tighter.

A yellow sticky note is pinned to a corkboard with a yellow pushpin. The note is tilted and has the words "THANK YOU" written on it in a bold, black, sans-serif font. The corkboard has a natural, textured brown color.

**THANK
YOU**