

만성 골수성 백혈병과 재생 불량성 빈혈로 진단받은 환자의 치료 전 동결보존된 정자를 이용한 세포질내 정자주입술로 임신에 성공한 2례

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Successful Pregnancy by ICSI using Spermatozoa Banked Prior to Bone Marrow Transplantation for Severe Aplastic Anemia and Chronic Myelogenous Leukemia

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Objective: To report two cases of successful pregnancies following long term cryopreserved spermatozoa prior to bone marrow transplantation (BMT) for chronic myelogenous leukemia (CML) and severe aplastic anemia (SAA).

Materials and Methods: Case report.

Results: With the first case, after cryopreservation of semen from 25 year-old man with CML prior to BMT, his wife is being pregnant by intracytoplasmic sperm injection (ICSI) using thawed spermatozoa. With the second case, 28 year-old man with SAA became father by ICSI using banked spermatozoa before BMT.

Conclusion: These cases support that men with malignancy have the chance of fathering their own genetic children. It is important therefore, to increase the awareness of clinicians especially oncologists and patients themselves to the new developments in preserving fertility for cancer patients.

Key Words: Semen cryopreservation, ART, ICSI, CML, SAA

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10 18 mm
2 , 1152
가 .^{4.5} pg/ml HCG (Profasi[®], Serono) 10,000 U
1998 . HCG 36
가 7
, 3 가
가 2 3 3 . 2
. β-hCG 500 mU/ml
1 6 2
4 mm 가
25 가 1998 3
1998 9 2
Hydroxyurea
Interferone-alpha 3 28 가 1998 5
2×10⁶/ 1998 7
ml 25%, 6×10⁶/ml 16%, 3.4×10⁶/ml 44% . 2
8 vials . 35×10⁶/ml
27%, 100×10⁶/ml 47% . 2
vials .
1999 2001 .
2001 12 .
1999 2 .
. GnRH- . GnRH-agonist Busere-
agonist Buserelin acetate lin acetate 0.3 mg 가 3
0.3 mg 가 3 0.1 mg FSH (Metrodin-HP[®],
pure FSH (Metrodin-HP[®], Serono) HMG Serono) HMG (Pergonal[®], Serono)
(Humegon[®], Organon) . 9 18 mm
. 12 18 mm 가 6 , 4038 pg/
4 , 1337 pg/ml ml HCG (Profasi[®], Serono) 10,000 U
. HCG 36 . HCG 36
10 11
7 가 . 5 가
3 7 2 3 5 2
β-hCG . β-hCG가 87.6 mU/ml
2003 2 2 . 6 1
GnRH-agonist recombinant , 3.75 kg
human FSH (Gonal F[®], Serono) HMG (IVF-M[®], LG) .

가 .
가

가

45~50
25 .⁷
가

가 .
가 .^{4,8} ,
^{9,10}
⁵ ,
¹¹⁻¹³ 가
가
가
6
2~3
3
가 . 1988 A. Lass Boum Hall Clinic
⁵ , , , ,
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가 가 가

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