

## 15년간 단일기관에서 발생한 신이식 환자의 임신성적

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### Outcome of Pregnancy in Renal Transplant Recipients; 15 Year Experience at a Single Medical Center in Korea

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Pregnancies in renal transplant recipients involve some risk. The time interval from transplantation to conception is regarded as one of the most important factors for successful pregnancies. To identify graft, fetal and maternal outcomes, we analyzed 648 females who underwent renal transplantation between 01/1991 and 12/2005 at Asan Medical Center, Seoul, Korea. Seventy-five pregnancies occurred in 48 recipients (living: deceased donor=32:16). The ages at transplantation and pregnancy were  $27.9 \pm 4.0$  yrs (mean  $\pm$  SD) (range, 18–47 yrs) and  $31.6 \pm 4.2$  yrs (25–48 yrs), respectively. The outcomes were 50 live births, 10 miscarriages, 12 terminations, 2 still births, and 1 ectopic pregnancy. The time interval from transplantation to pregnancy was  $40.7 \pm 27$  months (7–120 months). Eleven (14.7 %) pregnancies which happened within 1 year resulted in 7 live births (gestational age (GA)  $37.5 \pm 1$  wks, birth weight  $2,769 \pm 496$  g), 2 miscarriages and 2 terminations. In 50 live births, GA was  $37.1 \pm 2.1$  wks (25.4–40.1 wks,  $<37$  wks: 19) and birth weight was  $2,667 \pm 468$  g (range, 936–3,905 g,  $<2500$  g: 14). Recipients who achieved successful outcomes ( $n=50$ ) had undergone transplantation ( $26.8 \pm 3.5$  yrs vs  $30.0 \pm 4.1$  yrs,  $p<0.01$ ) and conception ( $30.6 \pm 3.6$  yrs vs  $33.4 \pm 4.4$  yrs,  $p<0.01$ ) at younger age than those failed to have successful outcomes ( $n=25$ ). Median follow-up after transplantation and delivery was 102 months ( $n=48$ , 29–163 months) and 59 months ( $n=75$ , 1–152 months), respectively, and 6 out of 48 grafts were lost at 50 months (5–80 months) after delivery. In conclusion, pregnancies even within the first year after renal transplantation may be tolerable for both grafts and offspring. The recipients carried out transplantation and conception at younger age had better pregnancy outcomes.