

## 혈액형 부적합 이식 환자에게 EC-MPS과 MMF을 사용한 군 간의 ABO antibody titer 비교

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### Comparison of Post-KTP anti-ABO Blood Type Antibody Titers using between Enteric-coated Mycophenolate Sodium and Mycophenolate Mofetil in Patients with ABO Incompatible Renal Transplantation

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**Background:** ABO-incompatible living kidney transplantation (ABO-iLKT) has been performed to compensate for the shortage of organ donors. Some reports noted that the titers of anti-ABO blood-type IgG antibody before plasma exchange and post-transplant were correlated well with graft survival in ABO-i LKT. After the immunosuppressive regimen introduced using tacrolimus (TAC), mycophenolate mofetil (MMF) and steroid, lower levels of ABO blood type antibody titers have reported in patients with ABO-iLKT. Enteric-coated mycophenolate sodium (EC-MPS) was known to have similar efficacy and safety of compared with mycophenolate mofetil (MMF). So we compared post-transplant anti-ABO blood type antibody titers between using EC-MPS and MMF in patients with ABO-iLKT.

**Methods:** Twenty one subjects performed ABO-iLKT were included in this study. Rituximab, plasma exchange, TAC, MMF, steroid were used before transplantation. 13 subjects' immunosuppressive regimens were changed MMF to EC-MPS after transplant. Others continued to use MMF. The titers of anti-ABO blood-type IgG and IgM antibody were measured 3, 6, 9, 12 month after transplantation in each group. Antibody titers were presented as 2x and Mann Whitney U test were performed with  $\Delta x$ . P values under 0.05 were considered statistically significant.

**Results:** The P values of anti-ABO IgG were 0.31, 0.37, 0.07, 0.17 at 3, 6, 9, 12 month after ABO-iLKT. And The p values of anti-ABO IgM were 0.14, 0.78, 0.67, 0.27 at 3, 6, 9, 12 month after tansplant. There was no statistically significant difference of anti-ABO IgG and IgM titers between using EC-MPS and MMF.

**Conclusion:** The use of MMF and EC-MPS may not have a difference in ABO antibody titers after ABO-iLKT.

**Key Words:** 혈액형 부적합 이식, 면역억제제, 혈액형 항체  
ABOi KTP, EC-MPS, MMF, ABO Ab titer

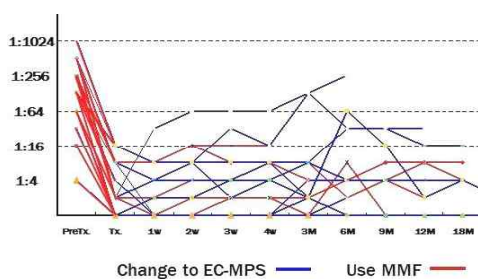


Fig. 1. Anti-ABO Ab titers (Ig G) of two groups.

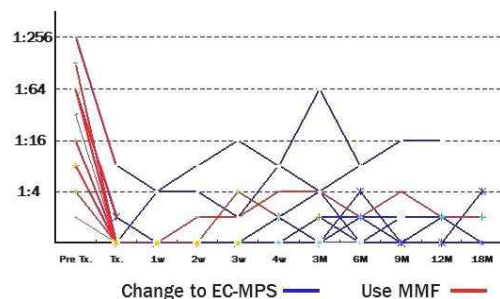


Fig. Anti-ABO Ab titers (IgM) of two groups.