Supplemental Table 1: The preformed or de novo donor specific HLA antibodies (DSAs) in the LDLT recipients who maintained on IS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Recipient# | Pretransplant |  | Preformed DSA |  | De novo DSA | Recent histology on LBx | C4d |
| Blood transfusion | Pregnancy |  | Presence | Ag | DSA-MFI |  | develop | POY detecting DSA | Ag | Recent DSA-MFI |
|  |  | max | Sum |
| 1 | Yes | NA |  | No | — | — |  | Yes | 17.0 | DQ4, DQ7 | 16666 | 92241  | A2F3 | + |
| 2 | No | Yes |  | Yes | DR1 | 6583 |  | Yes | 1.0 | DQ5 | 1058 | 2089  | A1F0 | (-) |
| 3 | No | NA |  | No | — | — |  | Unknown | unknown | unknown | unknown | unknown | Unknown |  |
| 4 | Yes | Yes |  | No | — | — |  | No | — | — | — | — | A2F2 | (-) |
| 5 | Yes | Yes |  | No | — | — |  | No | — | — | — | — | Unknown |  |
| 6 | Yes | No |  | No | — | — |  | Yes | 14.6 | DQ7 | 23124  | 106062 | A1F0  | (-) |
| 7 | No | NA |  | No | — | — |  | Yes | 5.0 | DQ2, DR53 | 11694  | 661169  | A1F1 | (-) |
| 8 | No | Yes |  | No | — | — |  | Unknown | unknown | unknown | unknown | unknown | Unknown |  |
| 9 | No | Yes |  | Yes | Cw6 | 7099 |  | Yes | 1.9 | A1 | 1292 | 1292 | A0F0 | (-) |
| 10 | unknown | No |  | Unknown | Unknown | Unknown |  | Yes | 20.1 | DQ8, DR4 | 2819 | 4355 | A0F1 | (-) |

Ag, antigen; DSA, donor specific HLA antibodies; LBx, liver biopsy; MFI, mean fluorescence intensity; acute rejection; POY, post-operative years

Supplemental Table 2: The preformed or de novo donor specific HLA antibodies (DSAs) in the LDLT recipients who withdrawal off IS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Recipient# | Pretransplant |  | Preformed DSA |  | De novo DSA | Recent histology on LBx | C4d |
| Blood transfusion | Pregnancy |  | Presence | Ag | DSA-MFI |  | develop | POY detecting DSA | Ag | Recent DSA-MFI |
|  |  | max | Sum |
| I | No | Yes |  | No | — | — |  | No | — | — | — | — | A1F0  | (-) |
| II | No | NA |  | Yes | A2 | 6670 |  | No | — | — | — | — | A0F0  | (-) |
| III | No | NA |  | No | — | — |  | Yes | 2.0 | DQ4 | 6020 | 15142 | A0F0 | (-) |
| IV | unknown | No |  | Unknown | — | — |  | No | — | — | — | — | A0F1/2 | (-) |

Ag, antigen; DSA, donor specific HLA antibodies; LBx, liver biopsy; MFI, mean fluorescence intensity; acute rejection; POY, post-operative years