**SPK Data dictionary**

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| **Variable name** | **Type** | **Definition** |
| PatientID | Identifier | Patient identifier |
| DOB | Identifier | Recipient date of birth |
| Sex\_Cat | Covariate | Recipient sex (0=female, 1=male) |
| Txn\_Date | Identifier | Date of transplantation |
| Last\_fu | Covariate | Date of last follow up (interval censored data) |
| Pre\_DSA | Covariate | Presence of pre-transplant DSA (0=no, 1=yes) |
| C1dnDSA | Outcome | Presence of class I de novo DSA (0=no, 1=yes) |
| C2dnDSA | Outcome | Presence of class II de novo DSA (0=no, 1=yes) |
| C1daystodnDSA | Survival | Days to event or censoring (C1dnDSA) |
| C2daystodnDSA | Survival | Days to event or censoring (C2dnDSA) |
| C1HLAMM | Exposure | Number of class I HLA mismatches (out of 6) |
| C2HLAMM | Exposure | Number of class II HLA mismatches (out of 6) |
| C1epletMM | Exposure | Number of class I eplet mismatches (HLA A, B, C) |
| C2epletMM | Exposure | Number of class II eplet mismatches (HLA DQ, DR) |
| ACR\_0619 | Outcome | Acute cellular rejection (ACR) (0=no, 1=yes) |
| AMR\_0619 | Outcome | Acute antibody mediated rejection (AMR) (0=no, 1=yes) |
| AMRandACR\_0619 | Outcome | Both ACR and AMR |
| ANY\_0619 | Outcome | Any type of acute rejection (0=no, 1=yes) |
| DaystoACRrej | Survival | Days to event or censoring (ACR\_0619) |
| DaystoAMRrej | Survival | Days to event or censoring (AMR\_0619) |
| DaystoANYrej | Survival | Days to event or censoring (ANY\_0619) |
| donorage | Covariate | Donor age at transplantation |
| DonorGender | Covariate | Donor sex (0=female, 1=male) |
| Ischaemia | Covariate | Cold ischaemia time (hours) |
| Recipient\_bmi | Covariate | Recipient BMI |
| agetxn | Covariate | Recipient age at transplantation |
| Individual eplets  (class I: X17RS to X275G)  (class II: X4Q to X199T) | Exposure | Mismatch status (0=no, 1=yes) |