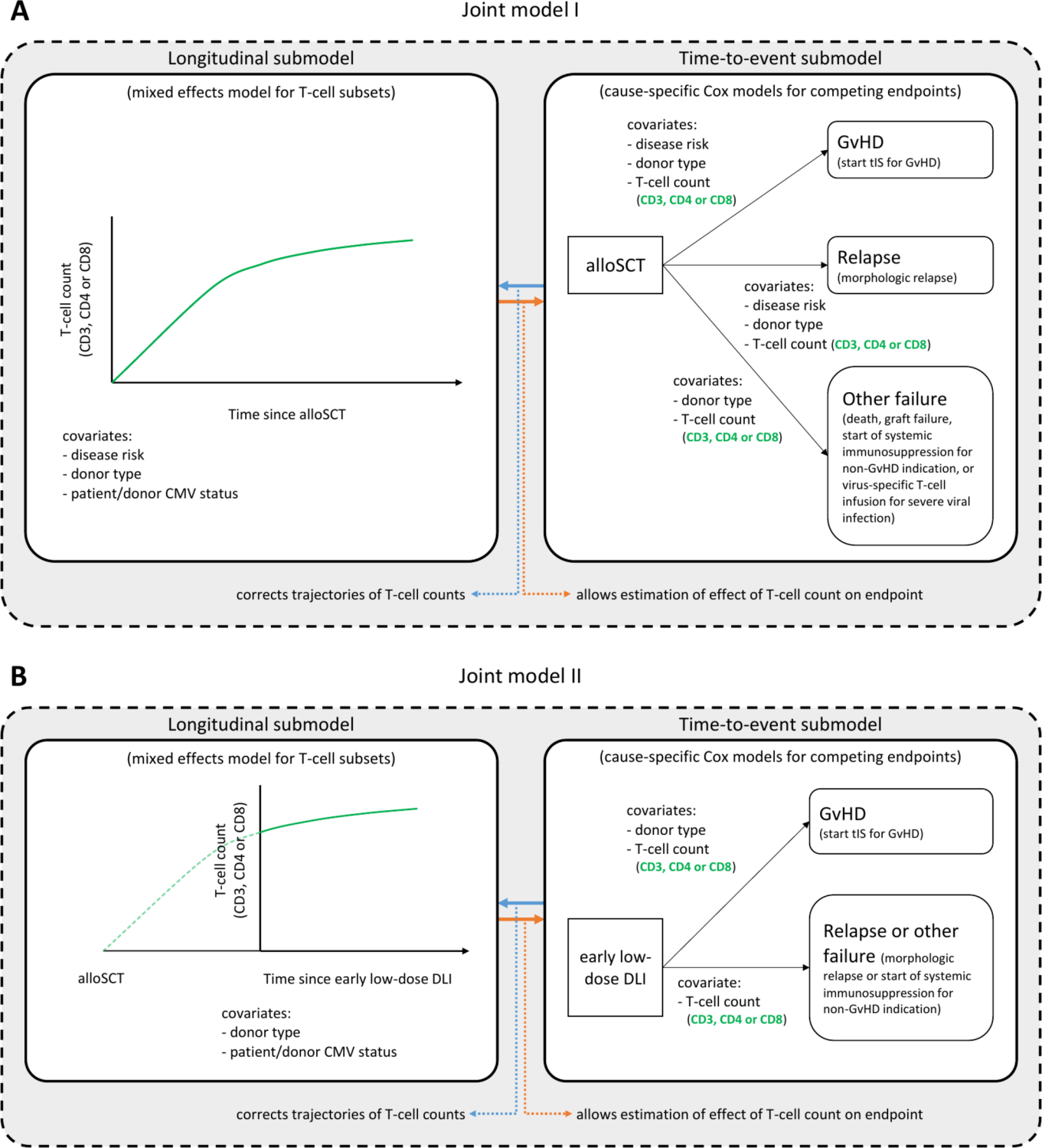
A
Joint model I
Longitudinal submodel
(mixed effects model for T-cell subsets)
T-cell count
(CD3, CD4 or CD8)
Time since alloSCT
covariates:
- disease risk
- donor type
- patient/donor CMV status
Time-to-event submodel
(cause-specific Cox models for competing endpoints)
covariates:
- disease risk
- donor type
- T-cell count
(CD3, CD4 or CD8)
alloSCT
GvHD
(start tIS for GvHD)
Relapse
(morphologic relapse)
covariates:
- disease risk
- donor type
- T-cell count (CD3, CD4 or CD8)
covariates:
- donor type
- T-cell count
(CD3, CD4 or CD8)
Other failure
(death, graft failure, start of systemic immunosuppression for non-GvHD indication, or virus-specific T-cell infusion for severe viral infection)
corrects trajectories of T-cell counts
allows estimation of effect of T-cell count on endpoint
B
Joint model II
Longitudinal submodel
(mixed effects model for T-cell subsets)
T-cell count
(CD3, CD4 or CD8)
alloSCT
Time since early low-dose DLI
covariates:
- donor type
- patient/donor CMV status
Time-to-event submodel
(cause-specific Cox models for competing endpoints)
covariates:
- donor type
- T-cell count
(CD3, CD4 or CD8)
early low-dose DLI
GvHD
(start tIS for GvHD)
Relapse or other failure (morphologic relapse or start of systemic immunosuppression for non-GvHD indication)
covariate:
- T-cell count
(CD3, CD4 or CD8)
corrects trajectories of T-cell counts
allows estimation of effect of T-cell count on endpoint