

# Meeting with Dom 20210322

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**Fixed effects DM** When removing the coefficient of 100- for the DM likelihood, I get convergence. Otherwise the gradient goes to 0 and I get NA for every single standard error of the parameters.

**Diag RE effects DM** kidney renal clear cell RCC now converges (it didn't use to) when removing the 1000 coefficient, and using nlminb.

**Full RE effects DM** Removing the coefficient of 1000, still no convergence for kidney renal clear cell RCC, even if increasing number of iterations, and using nlminb, but I don't get the message about gradient too steep.

When using a high value for the initial log lambda (so that it's closer to a multinomial), it doesn't converge either.

When initialising the covariances around 0, and the u at 0, I get that the Hessian of fixed effects was not positive definite., but no NAs.

**Not including covariances for signatures with many zero exposures**