Hi Mike,

Maria, Rachel and I caught up this morning to discuss our plans for coding David's algorithm and decided on the following:

1. We will code this up in R to make things easier when comparing with your work
2. We will work on a daily time step within the algorithm (but sampling at more coarse intervals when we come to the smoothing at the end: to be discussed)
3. We have provided you with baseline $S_0(t)$ and associated parameter values in the excel spreadsheets. David's algorithm works with H(t) as input as opposed to S(t) so you will need to convert this to H(t) using the following formulae:

$$H(t) = -\log(S(t))$$

Where you calculate S(t) for a particular patient combination in the usual way by:

$$S(t) = S_0(t)^{\exp(\beta_0+\beta_1 x+\cdots)}$$

If you have any questions about this please do let me know. When we have written our code we will send this to you and perhaps arrange a call to check we are doing the same thing!

Thanks
Jenny