

Age	$\alpha$	$\gamma$	$\delta$	$\log(\psi)$	$\log(\tau)$	$\log(\theta)$	$\log(\zeta)$	$\log(\lambda)$	$\log(\phi)$
<5	-2.369	-0.319	-0.062	2.524	-	-2.307	-4.000	2.178	1.225
5-14	-4.395	-0.367	-0.062	1.598	-3.245	-	-	2.282	1.308
15-44	-4.034	-0.477	-0.062	3.027	-1.627	-	-	3.725	4.094
45-64	-2.912	-0.315	-0.062	3.304	-2.156	2.215	2.754	3.158	3.646
65+	-2.046	-0.458	-0.062	3.341	-	2.504	2.571	3.097	4.337

**S4 Table .** Model K: Coefficient estimates for the age-specific model of IPD including Flu, rhinovirus and RSV