

Simulation of a SEIR infectious disease model on the dynamic contact network of conference attendees

Additional file 5 – Supplementary table 2

Juliette Stehle¹, Nicolas Voirin^{2,3§}, Alain Barrat^{1,4}, Ciro Cattuto⁴, Vittoria Colizza^{5,6,7}, Lorenzo Isella⁴, Corinne Régis³, Jean-François Pinton⁸, Nagham Khanafer^{2,3}, Wouter Van den Broeck⁴ and Philippe Vanhems^{2,3}

¹Centre de Physique Théorique de Marseille, CNRS UMR 6207, Marseille, France

²Hospices Civils de Lyon, Hôpital Edouard Herriot, Service d'Hygiène, Epidémiologie et Prévention, Lyon, France

³Université de Lyon; université Lyon 1; CNRS UMR 5558, laboratoire de Biométrie et de Biologie Evolutive, Equipe Epidémiologie et Santé Publique, Lyon, France

⁴Data Science Laboratory, Institute for Scientific Interchange (ISI) Foundation, Torino, Italy

⁵INSERM, U707, Paris F-75012, France

⁶UPMC Université Paris 06, Faculté de Médecine Pierre et Marie Curie, UMR S 707, Paris F75012, France

⁷Computational Epidemiology Laboratory, Institute for Scientific Interchange (ISI) Foundation, Torino, Italy

⁸Laboratoire de Physique de l'Ecole Normale Supérieure de Lyon, CNRS UMR 5672, Lyon, France

§Corresponding author

Supplementary table 2 – Average values, variances and 90% confidence interval (90% CI) of the prevalence peak time t_{peak} according to the different scenarios and network types. Only runs with AR>10% are taken into account.

Scenarios	Parameters	Network	Number of runs	$\langle t_{\text{peak}} \rangle$ days	Variance	90% CI
Very short latency Very short infectiousness REP	$1/\sigma = 1$ days $1/\nu = 2$ days $\beta = 3.10^{-4} \text{ s}^{-1}$	DYN	2000	14.7	25	[8,23]
		HET	2000	14.3	24	[8,23]
		HOM	2000	14.3	14	[9,21]
Short latency Short infectiousness REP	$1/\sigma = 2$ days $1/\nu = 4$ days $\beta = 15.10^{-5} \text{ s}^{-1}$	DYN	2000	28.1	84	[16,45]
		HET	2000	27.6	78	[16,43]
		HOM	2000	27.7	47	[18,41]
Very short latency Very short infectiousness RAND-SH	$1/\sigma = 1$ days $1/\nu = 2$ days $\beta = 3.10^{-4} \text{ s}^{-1}$	DYN	2000	19.9	53	[11,33]
		HET	2000	19.2	46	[11,32]
		HOM	2000	17.8	25	[11,27]
Short latency Short infectiousness RAND-SH	$1/\sigma = 2$ days $1/\nu = 4$ days $\beta = 15.10^{-5} \text{ s}^{-1}$	DYN	2000	39.6	168	[23,63]
		HET	2000	39.	148	[23,61]
		HOM	2000	36.7	108	[23,56]
Very short latency Very short infectiousness CONSTR-SH	$1/\sigma = 1$ days $1/\nu = 2$ days $\beta = 3.10^{-4} \text{ s}^{-1}$	DYN	2000	15.9	31	[9,27]
		HET	2000	15.1	27	[9,25]
		HOM	2000	15.6	18	[10,24]
Short latency Short infectiousness CONSTR-SH	$1/\sigma = 2$ days $1/\nu = 4$ days $\beta = 15.10^{-5} \text{ s}^{-1}$	DYN	2000	30.4	97	[17,47]
		HET	2000	30.4	101	[17,49]
		HOM	2000	31.5	71	[20,46]