





Imperial College London	Conclusions	Imperial College London Summary of infectious-disease modelling
The UK modified existing surveillance systems and rapidly implemented new ones to inform policy-making		Infectious disease epidemiology must take account of transmission dynamics – hence modelling is essential
Very little oseltamivir resistance detected (<1%) Overall disease burden mild, but some GPs* and hospitals were under pressure [*highlighting that respiratory infection very common, even in summer] Further analysis of datasets required; analysis of serology from latter		Many interacting factors affect transmission in populations Modelling synthesises evidence & can quantify uncertainty Effective modelling requires integrated multidisciplinary teams
Care-seeking behaviour needs to be better-understood and monitored to complement syndromic surveillance Need better surveillance, esp. of care-seeking behaviour & hospitalisations Oral fluid test to replace serology highly desirable – would enable simple population-based sampling		Expectations must be realistic: Modelling is <u>not</u> a substitute for empirical research, but can help identify research priorities – which parameters are most important? Multiple sources of uncertainty – mostly examine scenarios for planning, not make predictions Modelling is an area of intensive research activity: it is not a 'push-button' exercise