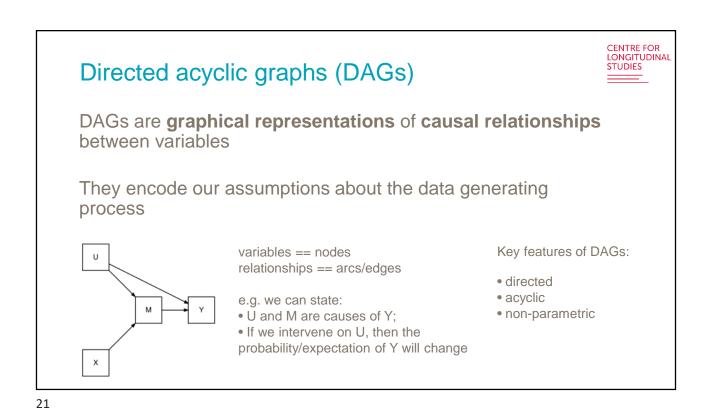
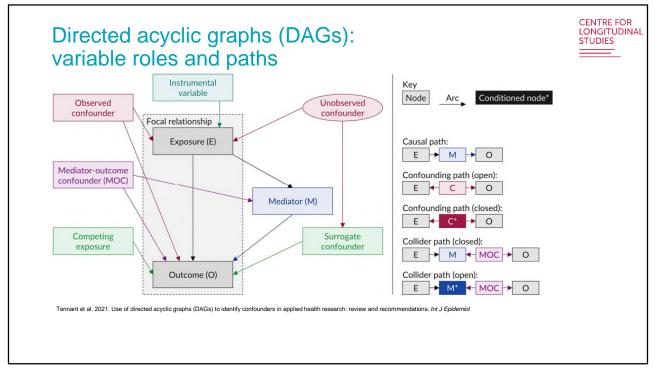
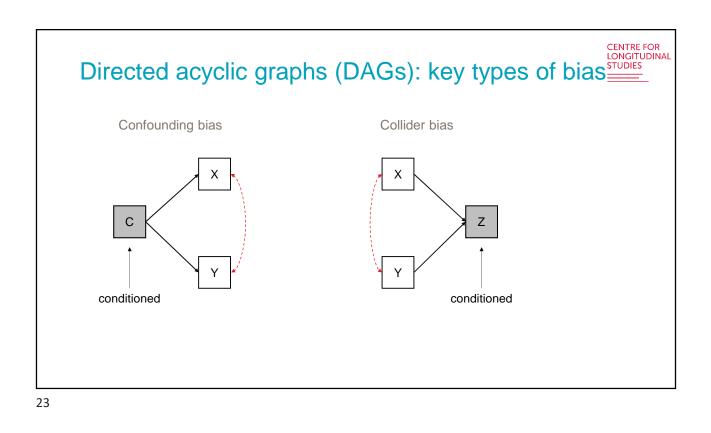
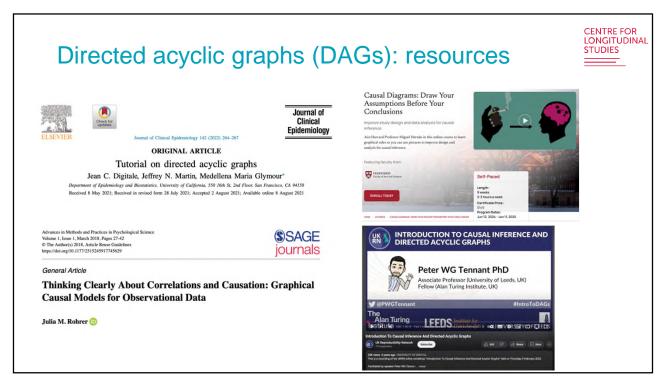


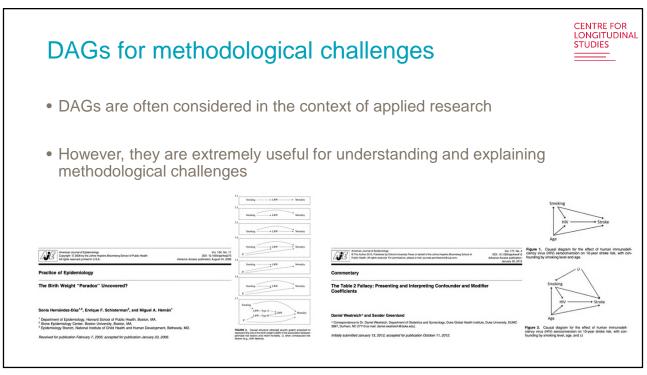
Conceptualising Mode Effects using DAGs

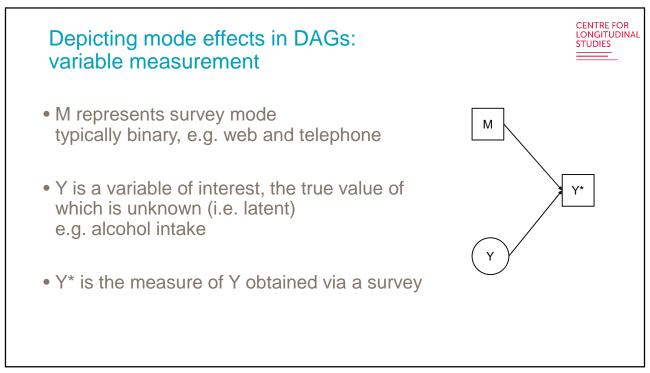


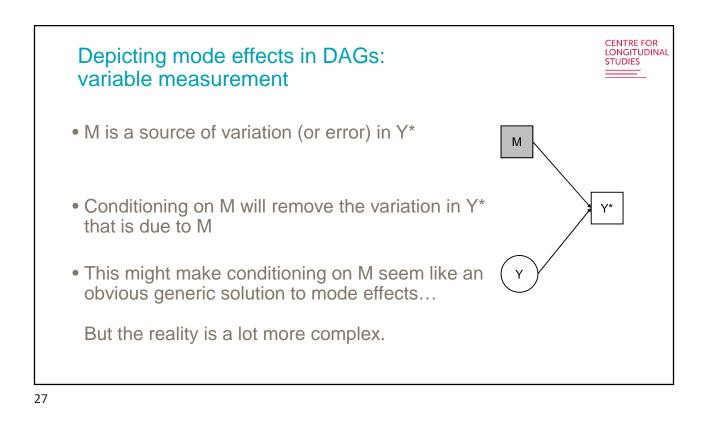


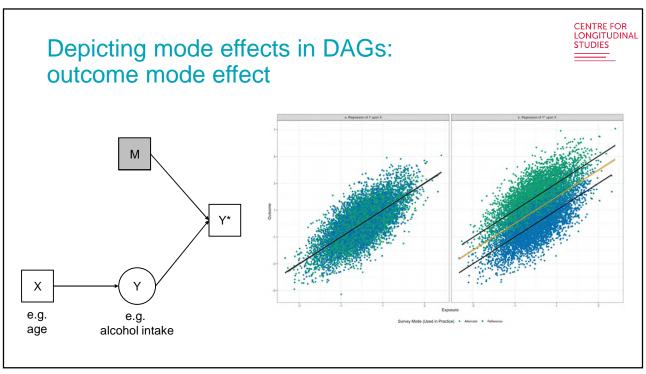


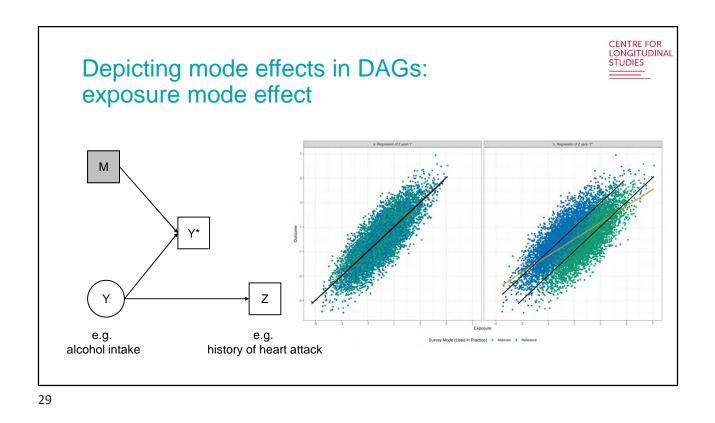


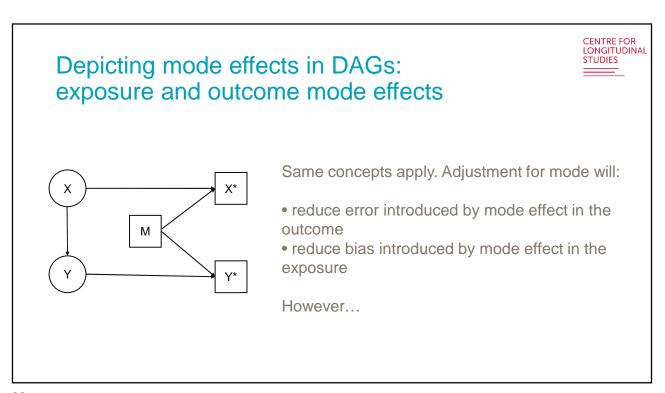


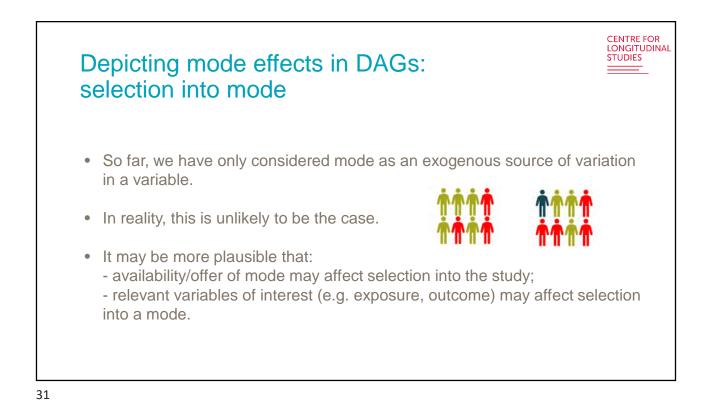


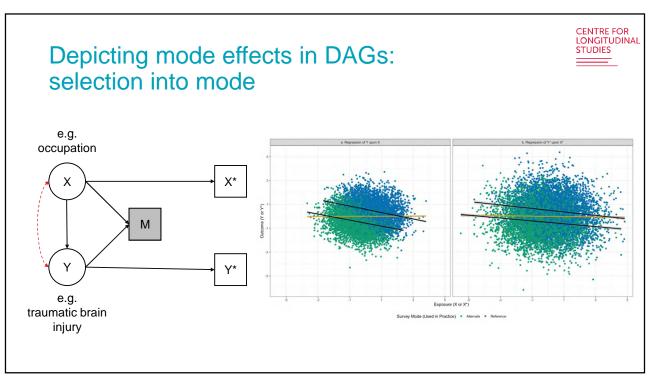


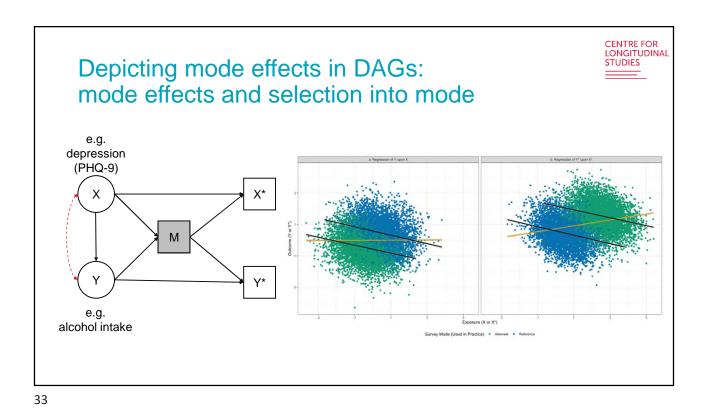


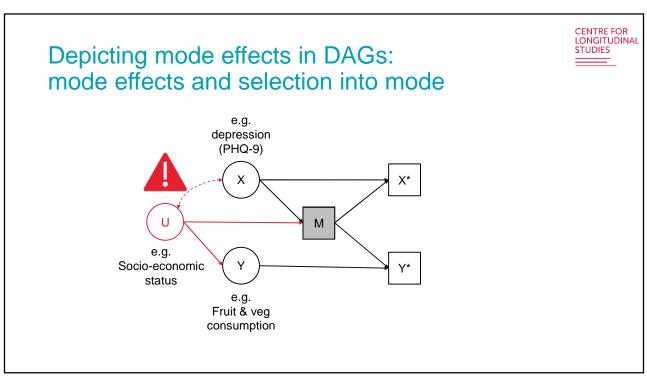


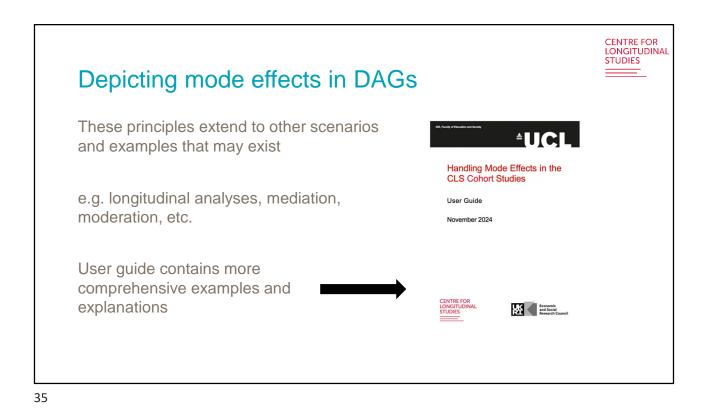


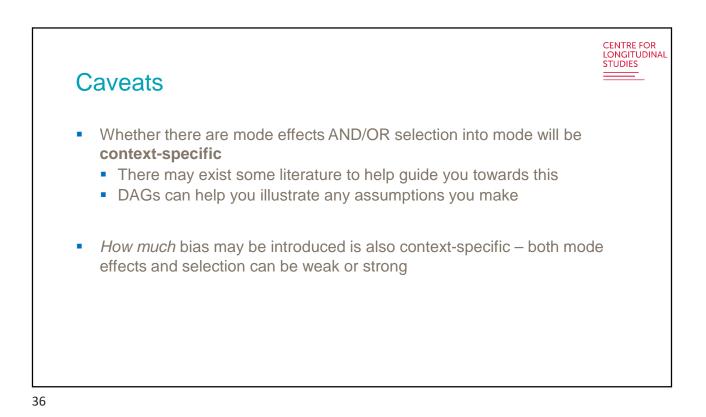


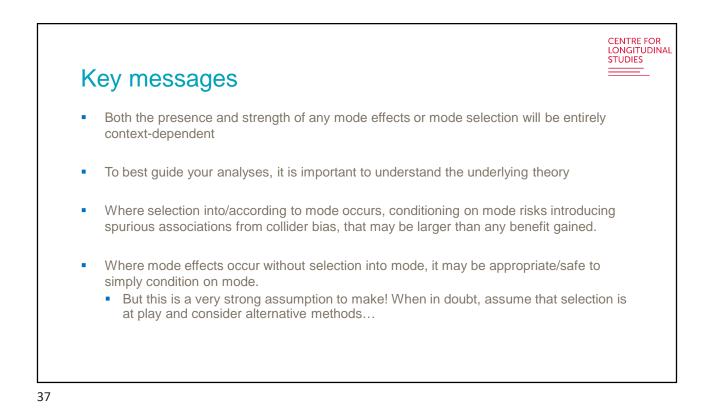


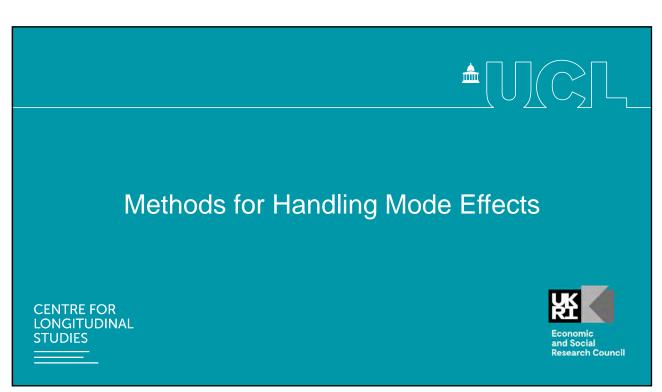


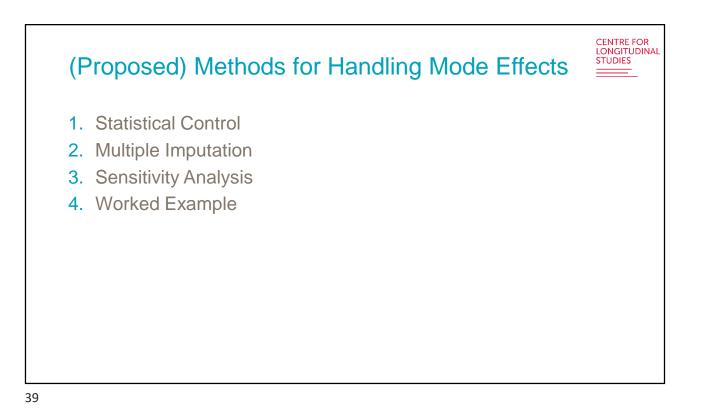


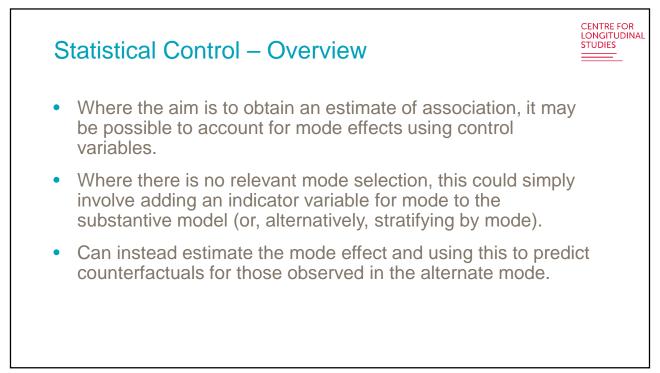


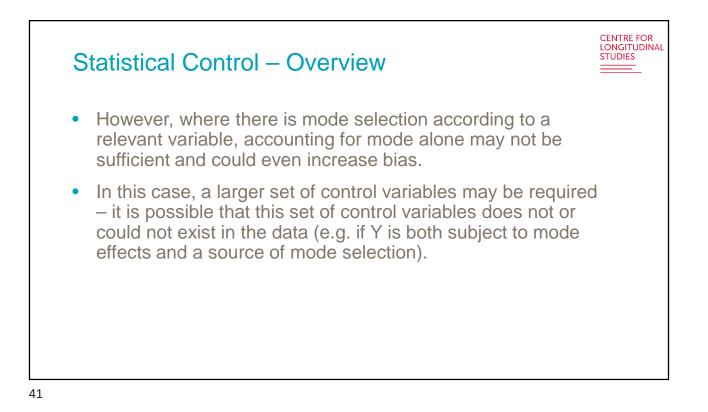


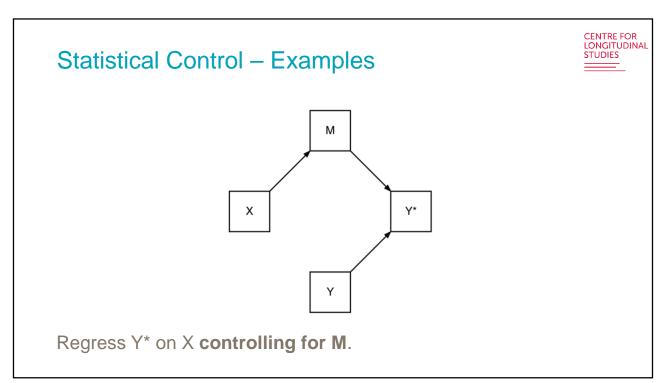


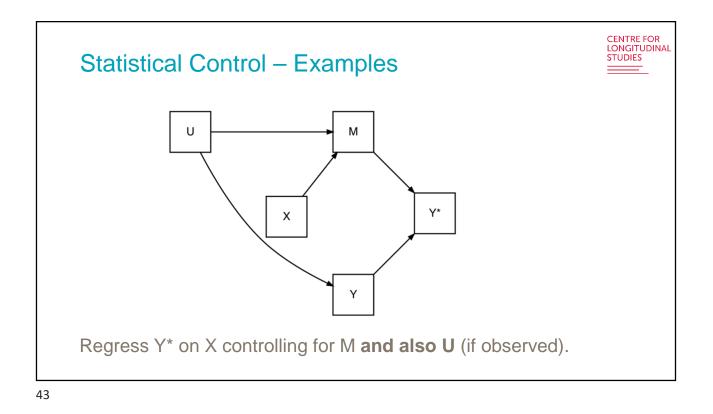


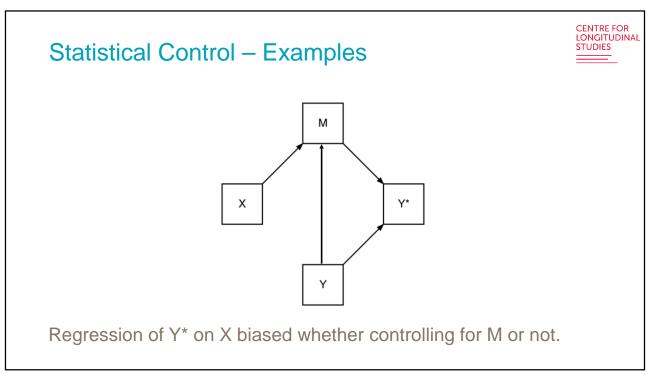




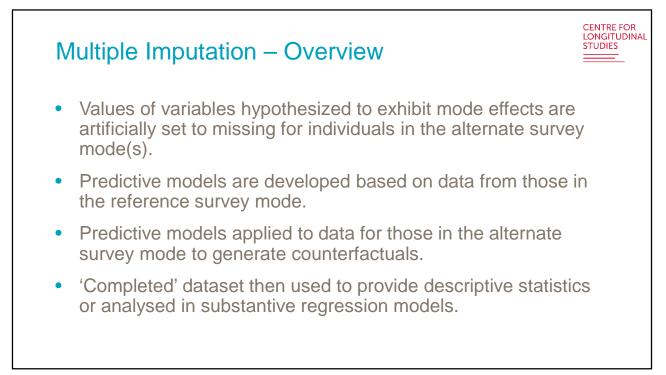


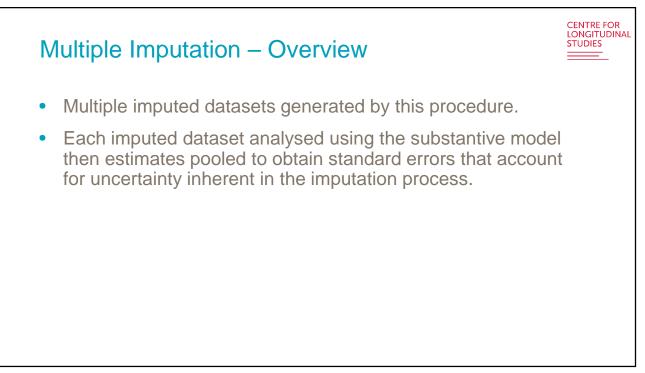


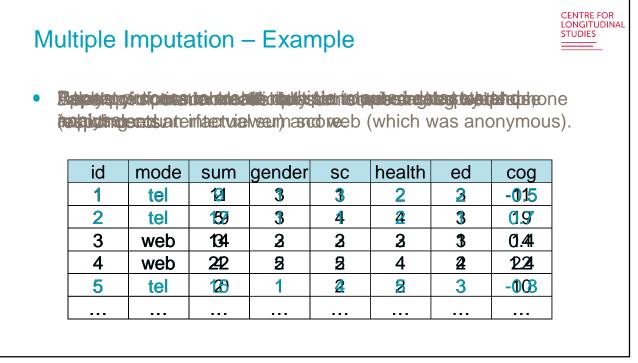




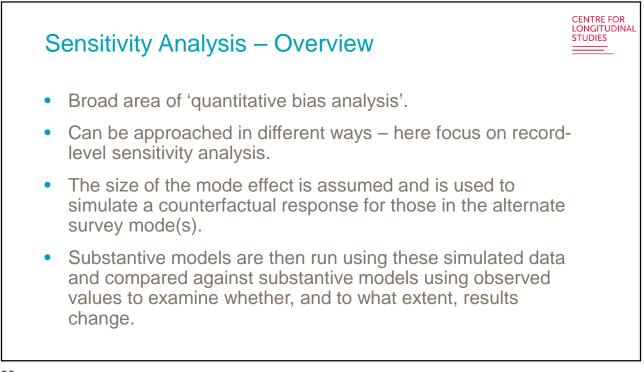
	Advantages		≡ Disadvantages
•	Straightforward method, easily understood and implemented. Given the richness of variables	•	Strong assumption that mode selection correctly accounted for.
	captured in long-running cohort studies, the required set of control variables (or something sufficiently approximating it)	•	Required set of control variables may be unknown, unmeasured, or poorly measured, meaning bias persists.
	may be available.	•	Adjusting for causes of mode selection may change the interpretation of the estimate being produced.

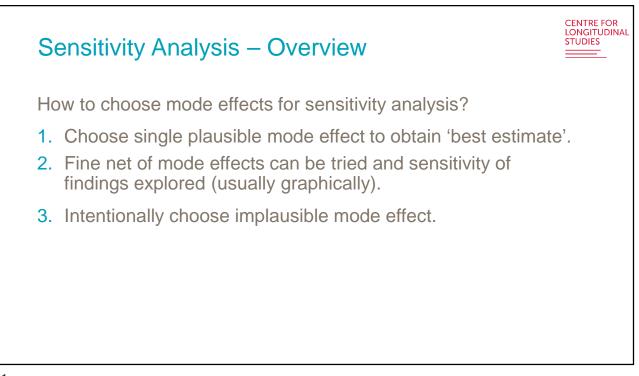


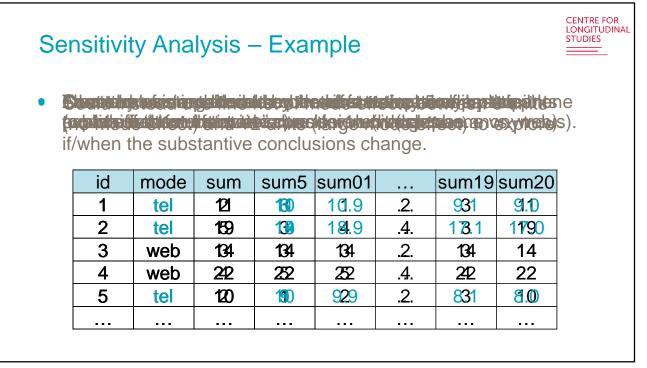




	Advantages	Disadvantages	
•	Increasingly commonly used so may already be familiar to researchers. Easy-to-use functionality in	 Does not use information from the observed values in the alternate mode(s) – potentially very wasteful. 	
	major statistical programming languages.	• Strong assumption that data a 'missing at random' (MAR):	
•	Straightforward to implement for a wide variety of variable types.	'missingness' is independent of the (counterfactual) value of Y, conditional on the covariates	
•	Can combine with MI for missing data handling.	used to generate the imputed values.	







Advantages	Disadvantages
 Mode effects are assumed rather than estimated, so detailed understanding of mode selection not required. Use all available information, unlike MI. Extremely flexible approach, e.g. heterogeneity in mode effects, multiple variables subject to mode effects, mixing modes between sweeps. 	 Plausible mode effects for a given situation may not be known. Estimation of mode effects from non-experimental data (if necessary) requires appropriate modelling of mode selection. No out-of-the-box functionality for performing general sensitivity analysis.

