

OTTAWA METHODS CENTRE BIOSTATISTICS ESTIMATION TOOL

This tool allows researchers seeking data analysis services from the Ottawa Methods Centre (OMC) to approximate the scale of their requests. OMC staff will use the factors described herein to develop a cost estimate. This tool is a resource rather than a guideline. OMC staff will not provide estimates until they have assessed the data provided by the investigator. If a project falls between two levels, OMC staff will assign the most appropriate level based on the information received from the investigator.

Any estimate provided by the OMC is a range – many factors can influence the total time required to complete a project, especially data quality and investigator requests. The OMC cannot guarantee a fixed analysis time.

	PROJECT LEVEL					
	Basic	Elementary	Intermediate	Advanced	Complex	
DATA CLEANING & PREPARATION	None to minimal	Some cleaning & preparation	Moderate cleaning & preparation	Extensive cleaning & preparation	Involvement in the study over several years. Time and cost will be developed with the Investigator.	
DATA MODIFICATION	None	1 or 2 derived variables	around 5 derived variables	many derived variables		
ANALYSIS	t-tests Chisq-tests Descriptive stats	Simple ANOVA Simple regression modelling	Complex Analysis (not an exhaustive list): Complicated repeated measures ANOVA Complex multivariate analysis Complex mixed effects modeling Nonstandard models (ordinal regression) Time to event survival analysis	Complex Analysis (not an exhaustive list): Extensive open-ended exploratory analysis Structural equation modelling Time to event survival analysis Novel modeling requiring significant training		
VARIABLES	Less than 5 variables to test against 2 groups	Up to 20 variables	up to 30 variables	up to 50 variables		
REPORTING	Unformatted statistical output	Simple tables Manuscript review	Results interpretation Manuscript review and preparation	Results interpretation Writing stats section - research required		
PROJECT MANAGEMENT	limited interactions with client Limited project emails No adjustment to analysis	1-5 client interactions Several project emails Minor adjustments to analysis	Many client interactions Moderate project emails Several analysis adjustments Some consultation with OMC's Scientific Director DSMB support (if applicable) Journal submission support	Extensive client interactions Extensive project emails Many analysis adjustments Extensive consultation with OMC's Scientific Director DSMB support (if applicable) Journal submission support		
SERVICE TIME	🕒	🕒 🕒	🕒 🕒 🕒	🕒 🕒 🕒 🕒		🕒 🕒 🕒 🕒 🕒