Appendix 3: Approach to data analyses

Outcome	Type of response variable	Method of analysis	List of potential covariates,
			(forward selection)
Incremental costs (total and by		Method of recycled	Socio -demographic factors:
care category, province wide)		predictions using generalized	Age (to be used for per LHIN analysis)
		linear regression models with	Sex (to be used for per LHIN analysis)
		gamma distribution and the	Income
		log link (incl. two-part models	Urban/Rural residence
	Continuous	if needed)	Immigration status
Costs per LHIN (total and by		Multi-level generalized linear	
care category)		models with gamma	Clinical status and care characteristics:
		distribution	Number of EDCs and specific clinical clusters of
LICII rata par I IIIN		Ordinary Loast Squares	interest such mental disease or dementia
HCU rate per LHIN		Ordinary Least Squares	Access to a geriatrician
		regression model with	Primary care group affiliation
		aggregated values of covariates	Number of physician visits (primary care and
		covariates	specialist)
			Number of home care visits
Incremental rates of		Method of recycled	
healthcare use (e.g. all cause		predictions using generalized	
hospital admission, physician		linear regression model with	
visits and home care visits,		negative binomial distribution	
province wide)	_	and the log link (incl. two-part	
	Count	models if needed)	
Rates of healthcare use by		Multi-level generalized linear	
LHIN level		models with negative binomial	
		distribution	
All-cause mortality	Categorical	Logistic regression	