

Biograph functions and the functions they depend on

This annex lists Biograph function together with the functions they call (excluding Base R functions).
A distinction is made between main functions and utilities that are included in Biograph.

Function	depends on	Function	depends on
Agetrans	date.b	Lexispoints	TransitionAB
Biograph.long	locpath Parameters		Lexis (Epi) Lexis.diagram (Epi)
Biograph.Lexis	locpath reshape	Lexis.points	ggplot2 check.par date.b TransitionAB
Biograph.msm	Biograph.long date_convert Lexis (Epi) check.par reshape	MSLT.e MSLT.S NLOG98	MatrixExp (msm)
Biograph.mstate	check.par Parameters Biograph.long Remove.intrastate Biograph.long	Occup	check.par Parameters state_age state_time
Biograph.mvna			locpath Parameters
ChangeObservationWindow.e		OverviewEpisodes	Parameters
ChangeObservationWindow.t	check.par locpath	OverviewTransitions	statesequence.ind
Cumrates	Biograph.mvna mvna (mvna) predict (mvna) locpath Remove.intrastate statesequence.ind Occup Trans RateTable Rates.ac	SamplePath	locpath date.b AgeTrans StateSpace transitions Parameters StateSpace
GLHS.IllnessDeath	locpath GLHS.trans	Parameters	
GLHS.Biograph	locpath Parameters	check.par	
GLHS.trans		plot.cumrates plot.MSLT.S	ggplot (ggplot2) melt (reshape) ggplot (ggplot2) Occup reshape
Lexis.lines	ggplot2 check.par date.b Biograph.long date_convert Lexis (Epi) rainbow	plot.occup	
Lexislines.episodes	locpath Parameters.check Lexis (Epi) splitLexis (Epi) timeBand (Epi) Lexis.diagram (Epi) Surv (Survival)	Rates.ac RateTable Remove.intrastate Sequences Sequences.ind Sequences.ind.0 state_age	transitions AgeTrans check.par
LexisOccExp		StateSpace state_time	AgeTrans stringf
		Trans	Parameters AgeTrans state_age AgeTrans statesequence.ind
		TransitionAB transitions	locpath check.par stringf
Utilities			
1. Dates			
Function	depends on	Function	depends on
age_as_Date	Date_as_year year_as_Date	check.par	Parameters StateSpace
age_as_year	cmc_as_Date Date_as_year cmc_as_year	pos.char pos.charstr string.blank.omit stringf	stringf stringf
cmc_as_age	Date_as_year		
cmc_as_Date			
cmc_as_year	cmc_as_Date Date_as_year		
Date_as_age	as.interval (lubridate) as.period (lubridate) as.duration (lubridate) Date_as_year	3. Other Function	depends on
Date_as_year		locpath	
Date_as_cmc			
date_b	locpath date_convert		
date_convert	age_as_year age_as_Date cmc_as_age cmc_a-.Date cmc_as_year Date_as_age Date_as_cmc Date_as_year year_as_age year_as_cmc year_as_Date Date_as_year Date_as_cmc		
year_as_age			
year_as_cmc			
year_as_Date			