Glossary

Name	Description	*f(x)*
T	Duration (months) of the study	
iKM(t)	Inverse Kaplan-Meier curve	
KM(t)	Kaplan-Meier curve	$t = \{t_0, t_1, t_2 \dots, T\}$ $KM(t) = 100 - iKM(t)$
Time Lost	Time course of the total units of time spent by the subjects after the event has occurred during the study follow-up normalized to 100 individuals	$\int_o^\tau iKM(t)dt$
Time Gain	Time course of the extra units of event-free time that are lived by 100 subjects in the active treatment arm (a) with respect to 100 in the control arm (c). Positive values indicate a protective effect of the active treatment whereas negative values represent a harmful effect.	$\int_o^\tau iKMc(t) - iKMa(t)dt$
$t_{50\%}$	Time at which the population in follow-up falls below 50%.	
Time Gain f50%	Fitting of the Time Gain curve performed in the interval [0;$t_{50\%}$]. The fit is a polynomial second order function, forced to pass through the origin ($y = at^2 + bt$)	$Fit[0; t_{50\%}]\left\{\int_o^\tau iKMc(t) - iKMa(t)dt\right\}$
MoT	Months of treatment: time course of the exposure to the treatment expressed in months and normalized to 100 subjects	$\int_0^\tau Kma(t)dt$
y^+	Time Gain expressed in year	$\frac{\int_o^\tau iKMc(t) - iKMa(t)dt}{12}$
MoT/y^+	Months of treatment necessary to gain 1 year of event-free life as measured by the Time Gain curve	$\frac{\int_o^\tau KMa(t)\,dt}{\frac{\int_o^\tau iKMc(t) - iKMa(t)dt}{12}}$
MoT/y^+f50%	Months of treatment necessary to gain 1 year of event-free life as measured by the Time Gain f50% function	$\frac{\int_o^\tau KMa(t)\,dt}{\frac{\left(Fit[0; t_{50\%}]\{\int_o^\tau iKMc(t) - iKMa(t)dt\}\right)}{12}}$
t_{6m}	Time at which the *Time Gain Obs* = 6 months	
eMoT/y^+	Estimated MoT/y^+ obtained through the fitting of the MoT/y^+f50% curve performed in the interval [t_{6m}; T]. The fit is a power function ($y = at^b$)	$Fit[t_{6m}; T]\left\{\frac{\int_o^\tau KMa(t)\,dt}{\frac{\left(Fit[0; t_{50}]\{\int_o^\tau iKMc(t) - iKMa(t)dt\}\right)}{12}}\right\}$
NNT	Number needed to treat: time course of the subjects on treatment normalized to 100 subjects	$\frac{\int_o^\tau KMa(t)\,dt}{t}$
NNT/y^+	Number of patients who need to be treated to gain 1 year of event-free life as measured by the Time Gain curve	$\frac{\frac{\int_o^\tau KMa(t)\,dt}{t}}{\frac{\int_o^\tau iKMc(t) - iKMa(t)dt}{12}}$
NNT/y^+f50%	Number of patients who need to be treated to gain 1 year of event-free life as estimated through the Time Gain f50% function	$\frac{\frac{\int_o^\tau KMa(t)\,dt}{t}}{\frac{\left(Fit[0; t_{50\%}]\{\int_o^\tau iKMc(t) - iKMa(t)dt\}\right)}{12}}$
eNNT/y^+	Estimated NNT/y^+ obtained through the fitting of the NNT/y^+f50% curve performed in the interval [t_{6m}; T]. The fit is a power function ($y = at^b$)	$Fit[t_{6m}; T]\left\{\frac{\frac{\int_o^\tau KMa(t)\,dt}{t}}{\frac{\left(Fit[0; t_{50}]\{\int_o^\tau iKMc(t) - iKMa(t)dt\}\right)}{12}}\right\}$