## Appendix C. Statistical terms

Statistical terms	Definition
Age- specific	The incidence rate of colorectal cancer was calculated for specified five-
incidence rate (AR)	year age groups, by dividing the number of colorectal cancer cases in
	the five-year age group by the Sabah population in that particular age
	group and multiplying by 100 000.
	$AR = N / P \ge 100,000$
	N – Number of new cancers occurring in the I age group
	P – Person-years at risk in the I age group
	This was defined as the sum of age-specific rates of colorectal cancer in
	Sabah weighting to the world standard population ex pressed per 100
	000.
	ASR = $\Sigma$ (Ari x Pi.std ) / total world standard population
	Ari – Age specific rate in the i <sup>th</sup> age class
	Pi.std – The number in the i <sup>th</sup> age class of world standard
	population
Age specific	This was the mortality rate of colorectal cancer in Sabah in a specified
mortality rate	five- year age group, and was calculated by dividing the number of
	colorectal cancer deaths in the five-year age group by the Sabah

	population in the particular age group and multiply by 100 000.
	population in the particular age group and manipity of 100 0001
Age standardized	This was defined as the sum of age-specific mortality rates of colorectal
	This was defined as the sam of age specific mortancy faces of coloreean
mortality rate	cancer in Sabah weighted to the world standard population expressed
	per 100 000.
Chi Sauare test	This is a non-parametric test used to compare more than two variables
Chi Square test	This is a non-parametric test used to compare more than two variables
	(age category below and above 50 years old with ethnic group
	indigenous and Chinese) from a randomly selected data.
Confidence Interval	The confidence interval of the ASR (95% CI) is the range in which the
	The confidence met var of the fibre (56% Cr) is the funge in which the
of the ASR (95% CI)	true age-standardised rate is expected to fall, subject to some random
	variation. This is conventionally stated as age standardized rate plus or
	minus 1.96 multiplied by standard error
	ninus 1.90 multiplied by standard error.
Frequency	The frequency is the number of colorectal cancer cases in this study
	from January 2012 until December 2016. It is also used to derive the
	from January 2012 until December 2016. It is also used to depict the
	sum of each variable in this study pertaining to demographics, clinical
	and treatment characteristics.
Interquartile range	The interquartile range is the measure of variability of the median age of
inter quar inter ange	The interquartice range is the incusate of variability of the incutain age of
	colorectal cancer cases based on diving the data into quartiles. The data
	for age of the colorectal cancer cases were divided into four equal parts
	and expressed in ranges
	and expressed in ranges.

Relative risk	This is the measure of colorectal cancer risk in one group (indigenous)
	compared another group (Chinese). It was calculated by diving the
	percentage of colorectal cancer cases in the indigenous group below the
	age of 50 years with the percentage of colorectal cancer cases in the
	Chinese group below the age of 50 years.
	Relative risk 1: No difference
	Relative risk >1: Increased risk
	Relative risk < 1: Reduced risk
Mean	The mean is the measure of central tendency of the age of the colorectal
	cancer cases in which is calculated by diving the sum the age over the
	frequency of the cases. The dataset for this study is skewed, mean as a
	measure of central tendency may be influenced by outliers which may
	not represent the actual data as a whole.
Median	The median is the measure of central tendency of the age of the
	colorectal cancer cases in which the age is arranged from smallest to
	largest value. If there is an odd number colorectal cancer cases, the
	median age is the middle value. If there is even number of colorectal
	cancer cases, the median age is the average of the age of the two middle
	cases. Median is a better measure of central tendency for this study as
	median represents the whole data and is less affected by the skewed data
	or outliers.

Democritere	The percentage is an expression of properties of colorectal equations
rercentage	The percentage is an expression of proportion of colorectal cancer cases
	multiplied by a hundred. It is also used to depict each variable (in
	multiplied by a numerical it is also used to depict each variable (in
	percentage) in this study pertaining to demographics, clinical and
	treatment characteristics.
Standard deviation	This is a measure of dispersion of the age of the colorectal cancer cases
	valative to the mean age. Standard deviation is calculated by subtracting
	relative to the mean age. Standard deviation is calculated by subtracting
	the mean from each age then squaring the difference. Subsequently, the
	the mean nom each age then squaring the anterence. Subsequently, the
	differences are summed then divided by n minus 1 then the square root
	v 1
	· . 1
	is taken.