HD*Calc

Health Disparities Calculator

Surveillance Research Program & Applied Research Program National Cancer Institute

Health Disparities Calculator

- Extends work published in the NCI Monograph Series entitled <u>Methods for Measuring Cancer</u> <u>Disparities</u>.
- The monograph evaluates a variety of health disparity measures.
- Discusses major issues that may affect the choice of summary measures of disparity and systematically reviews methods used in health disparities research.

Table 5. Summary Table of Advantages and Disadvantages of Potential Health Disparity Measures

	Absolute			All	Reflect	Social	Inequality	
Disparity Measure	Symbol	or Relative	Reference	Social Groups	SES Gradient	Group W eighting	A version Parameter	Graphical Analogue
T otal Dispority								
Inter-Individual Difference	IID	Variable	ATBO*	No	No	No	Yes	No
Individual-Mean Difference	IMD	Variable	Average	No	No	No	Yes	No
Social Group Disparity								
Absolute Difference	AD	Absolute	Best	No	Yes	No	No	Yes
Relative Difference	RD	Relative	Best	No	Yes	No	No	Yes
Regression-Based Relative Effect	RRE	Relative	Best	Yes	Yes	Nob	No	Yes
Regression-Based Absolute Effect	RAE	Absolute	Best	Yes	Yes	Nob	No	Yes
Slope Index of Inequality	SII	Absolute	Average	Yes	Yes	Yes	No	Yes
Relative Index of Inequality	RII	Relative	Average	Yes	Yes	Yes	No	Yes
Index of Disparity	ID _{isp}	Relative	Best	Yes	No	No	No	No
Population Attributable Risk	PAR	Absolute	Best	Yes	No	Yes	No	Yes
Population Attributable Risk%	PAR%	Relative	Best	Yes	No	Yes	No	No
Index of Dissimilarity	ID	Absolute	Average	Yes	No	Yes	No	Yes
Index of Dissimilarity%	ID%	Relative	Average	Yes	No	Yes	No	No
Relative Concentration Index	RCI	Relative	Average	Yes	Yes	Yes	Yes	Yes
Absolute Concentration Index	ACI	Absolute	Average	Yes	Yes	Yes	Yes	Yes
Between-Group Variance	BGV	Absolute	Average	Yes	No	Yes	Yes	No
Squared Coefficient of Variation	CV ²	Relative	Average	Yes	No	Yes	No	No
Atkinson's Measure	Α	Relative	Average	Yes	No	Yes	Yes	No
Gini Coefficient	Gini	Relative	Average	Yes	No	Yes	No	Yes
Theil Index	Τ	Relative	Average	Yes	No	Yes	Yes	No
Mean Log Deviation	MLD	Relative	Average	Yes	No	Yes	Yes	No
Variance of Logarithms	VarLog	Relative	Average	Yes	No	Yes	No	No
^a All those better off.								

^bIn the case of regression-with grouped data.

HD*Calc Version 1.1.0

- Freely available at: http://seer.cancer.gov/hdcalc/
- Displays input statistics and disparity measures in tabular and graphical formats.

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Input data (not calculated by HD*Calc):

- Cross-sectional and trend data (e.g. cancer rates, survival, stage at diagnosis proportions) categorized by disparity groups
- Statistics may be calculated by NCI's SEER*Stat software or calculated by any software (HD*Calc will import text or csv files).