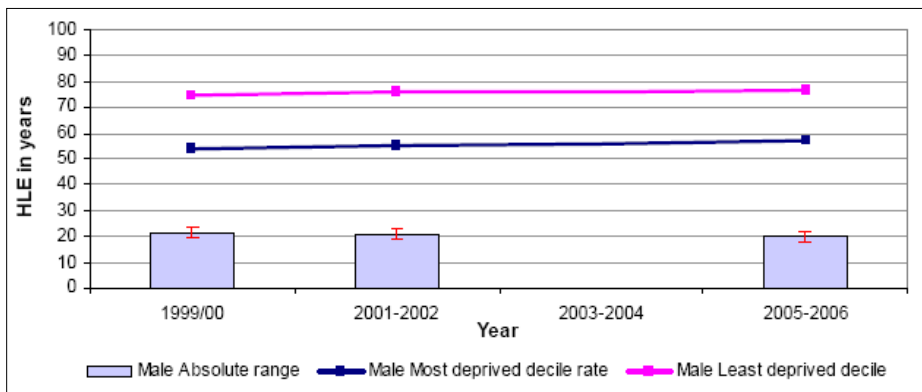


Tackling cancer inequalities in Scotland

Birmingham 17th June 2010

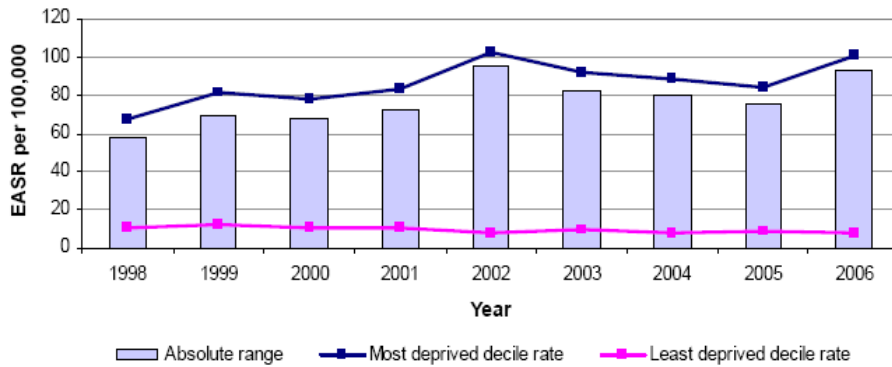
1

Absolute range: Healthy life expectancy Males – Scotland 1999/00 to 2005/06 (Data not available 2003/04)



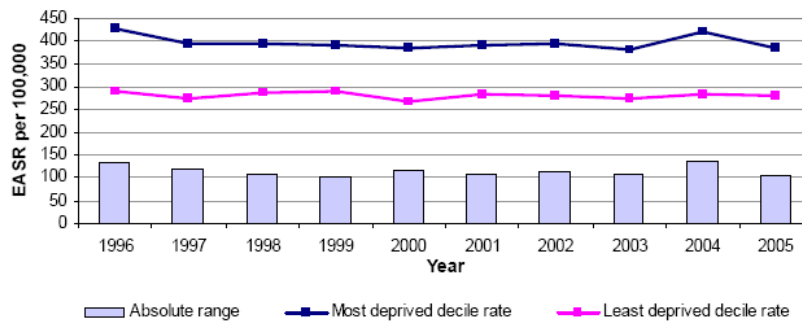
Source: Scottish Government Health Analytical Services (2008) Long-term monitoring of health inequalities

Absolute range: Alcohol related mortality 45-74y – Scotland 1998-2006 (European Age-Standardised Rates per 100,000)



Source: Scottish Government Health Analytical Services (2008) Long-term monitoring of health inequalities

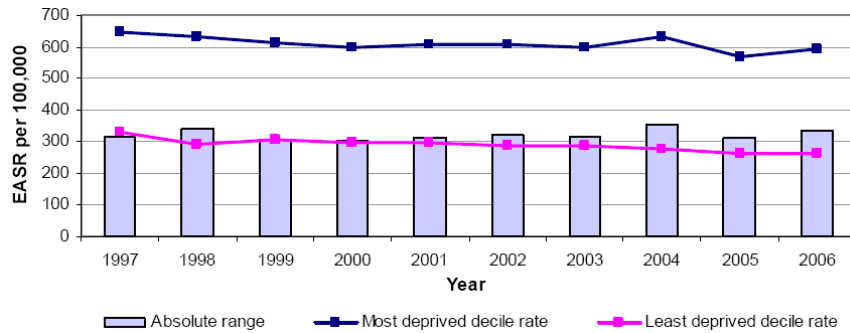
Absolute range: Cancer incidence (all sites) <75y – Scotland 1996-2005 (European Age-Standardised Rates per 100,000)



Source: Scottish Government Health Analytical Services (2008) Long-term monitoring of health inequalities

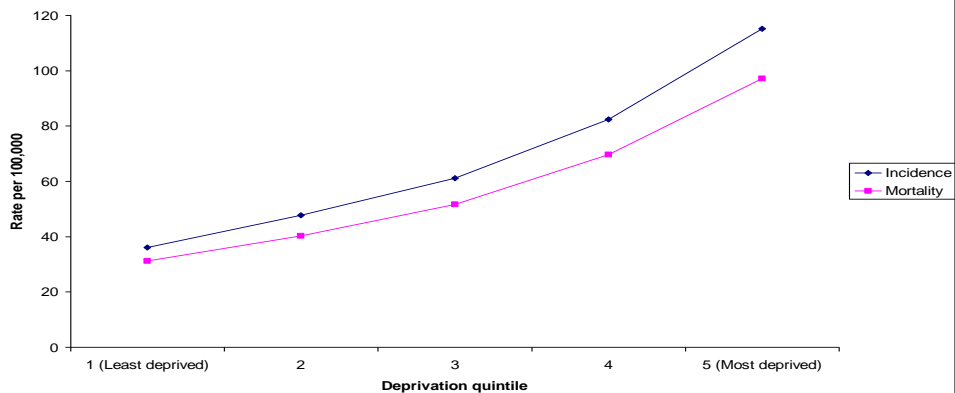
Absolute range: Cancer mortality 45-74y – Scotland 1997-2006

(European Age-Standardised Rates per 100,000)

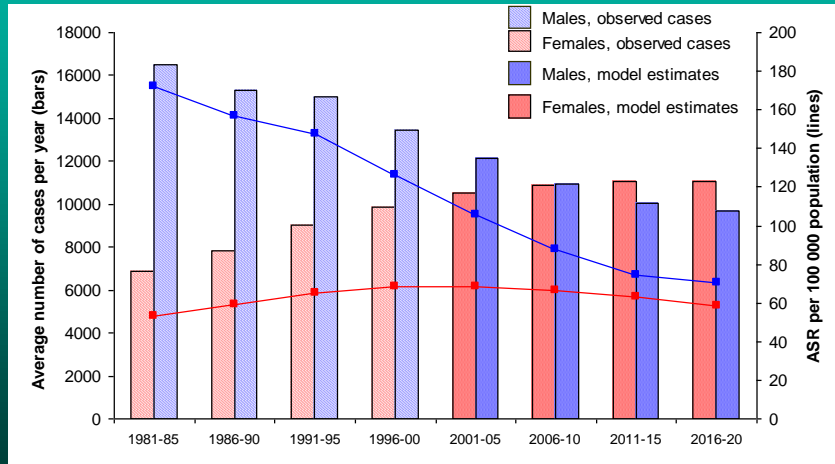


Bronchus and lung

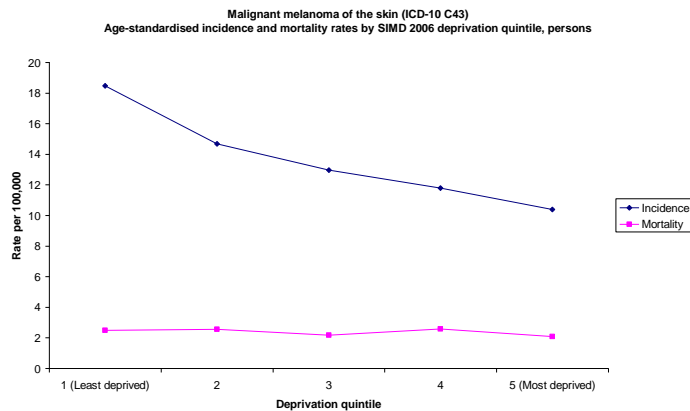
Cancer of the trachea, bronchus and lung (ICD-10 C33-C34)
Age-standardised incidence and mortality rates by SIMD 2006 deprivation quintile, persons



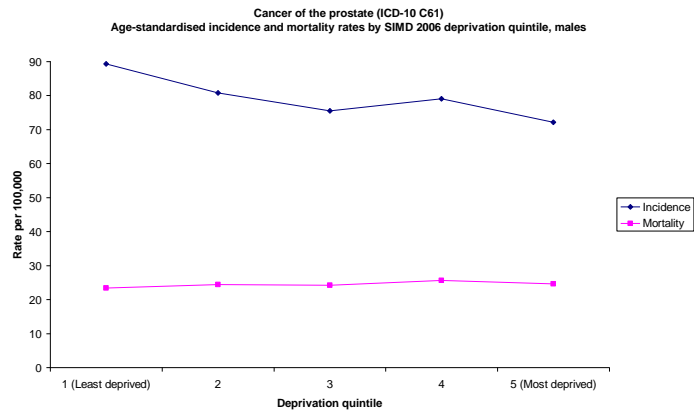
Lung cancer incidence



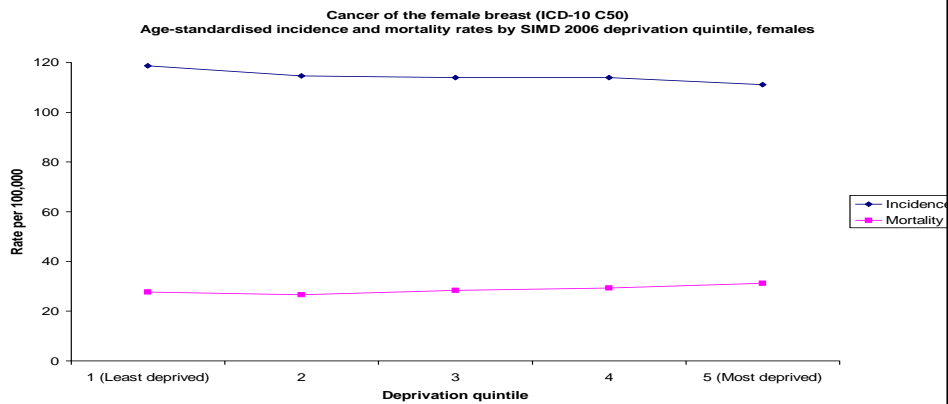
Melanoma

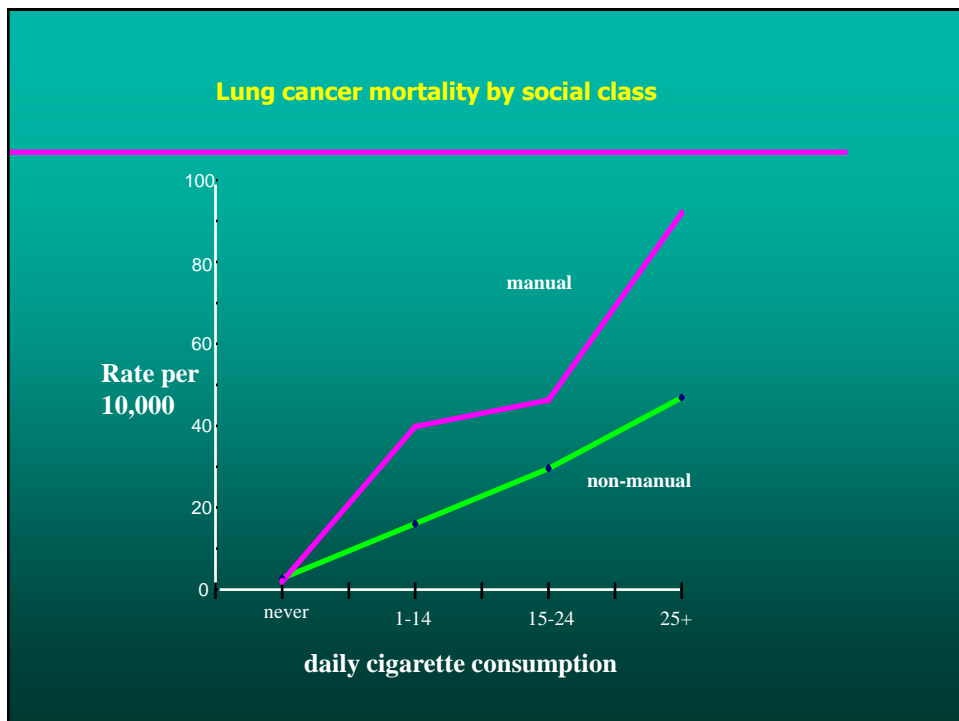
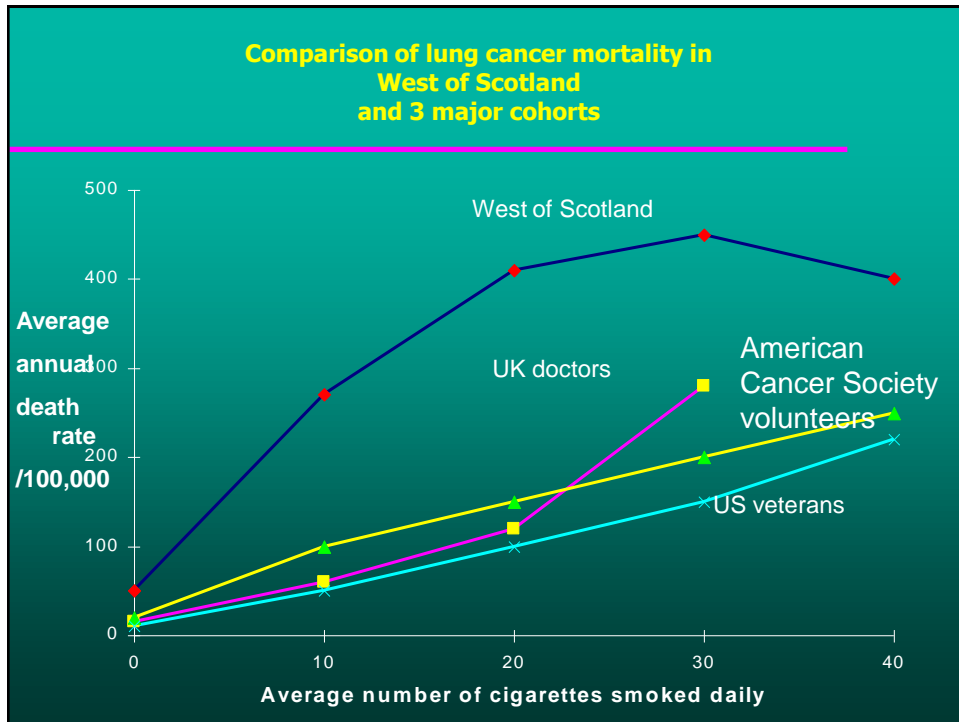


Prostate

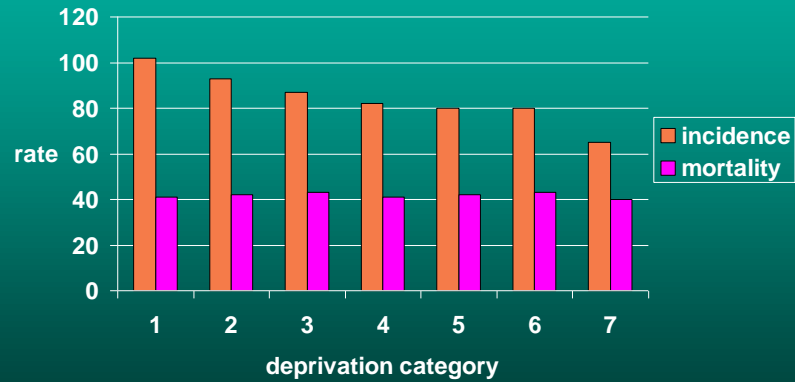


Breast cancer

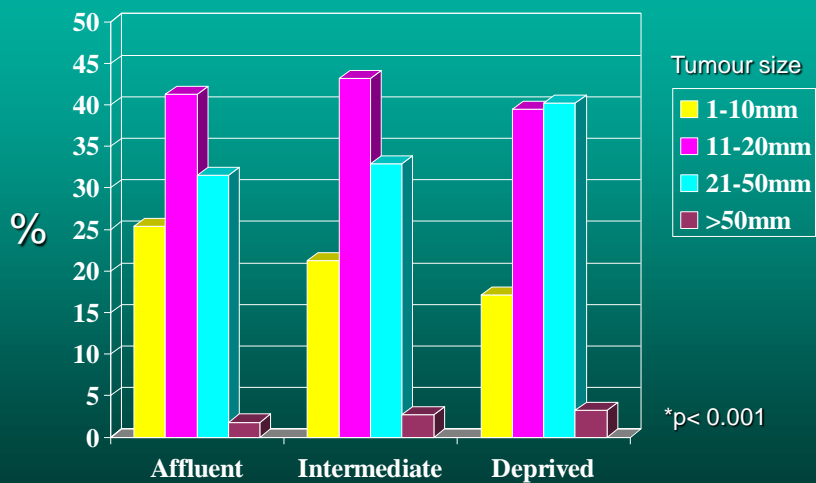




Breast cancer - incidence and mortality

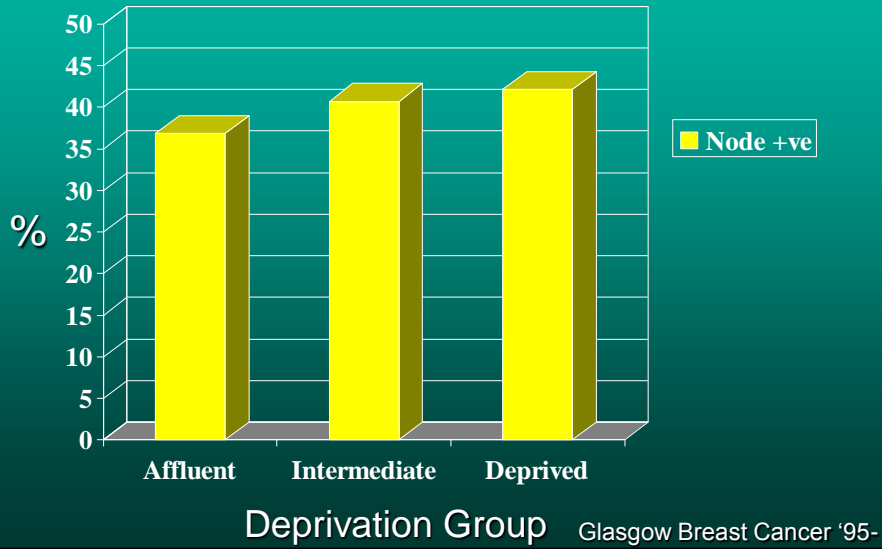


Deprivation & tumour size

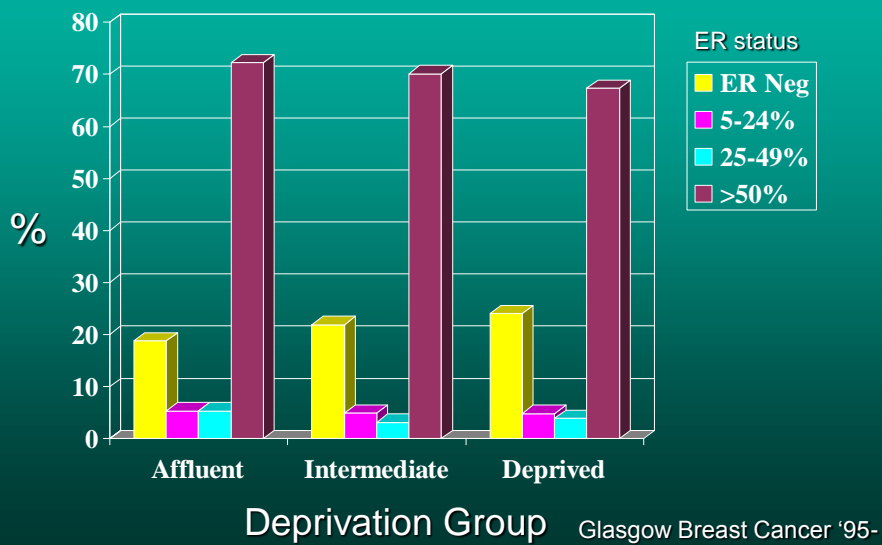


Deprivation Group Glasgow Breast Cancer '95-'01

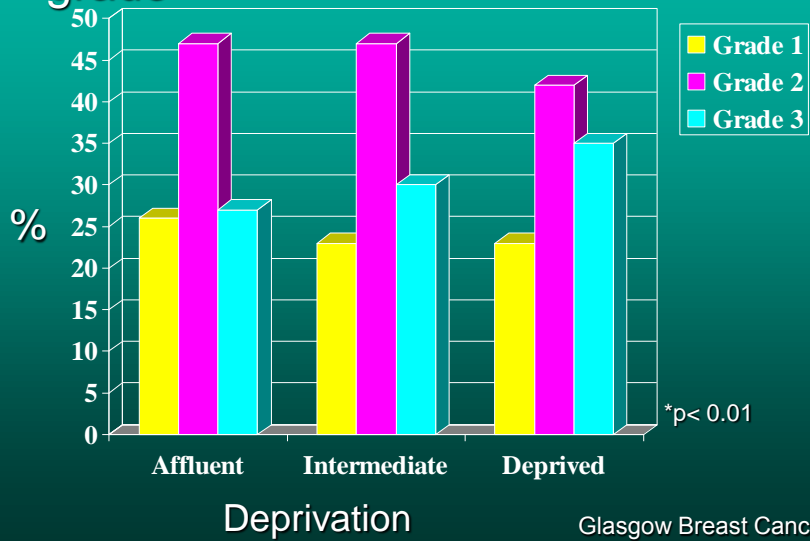
Deprivation & Node Positivity



Deprivation & ER Status



Deprivation & histological grade



Aaron Antonovsky 1923-1994





Sense of coherence....

“.....expresses the extent to which one has a feeling of confidence that the stimuli deriving from one's internal and external environments in the course of living are **structured, predictable and explicable**, that one has the **internal resources** to meet the demands posed by these stimuli and, finally, that these demands are seen as **challenges, worthy of investment and engagement**.”

For the creation of health....

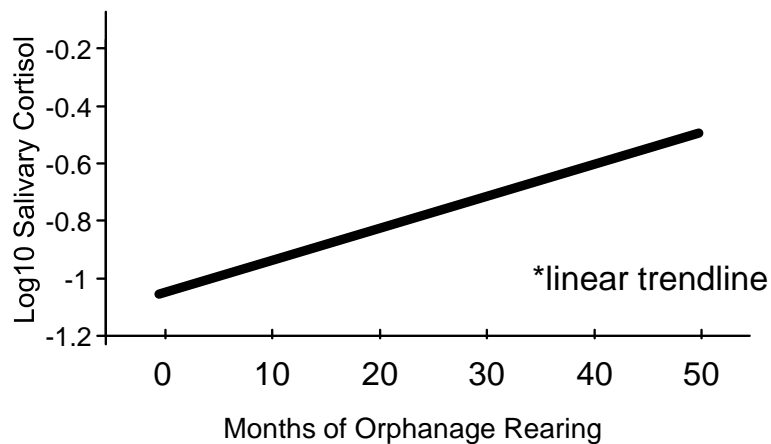
....the social and physical environment must be:

- ◆ Comprehensible
- ◆ Manageable
- ◆ Meaningful
- ◆or the individual would experience chronic stress

The Founders' Network

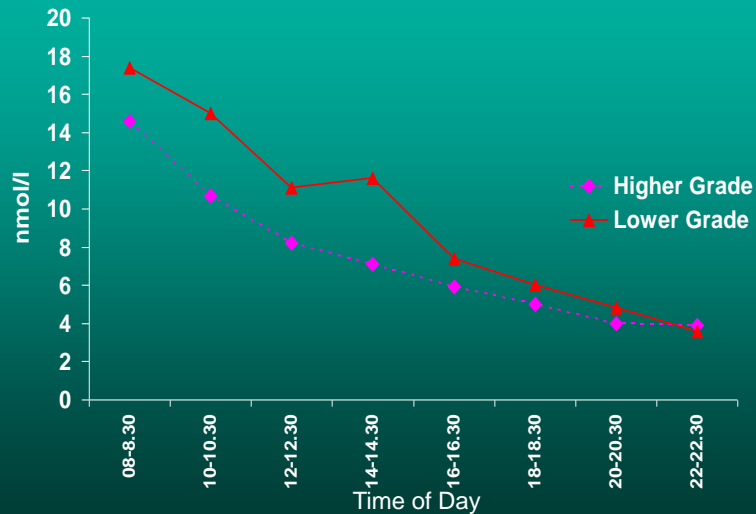
00-046

Evening Cortisol Levels Increase with Months of Orphanage Rearing *



STRESS AND GRADE OF EMPLOYMENT: MEN

Salivary Cortisol

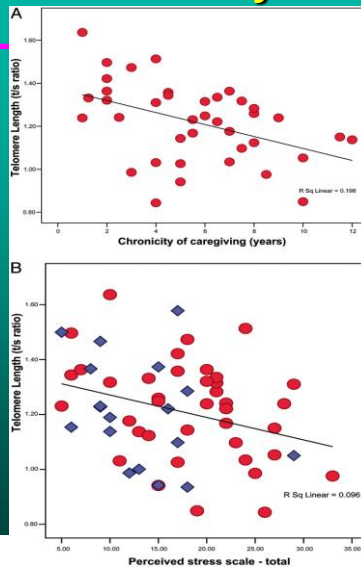


Steptoe et al. 2003, Psychosomatic Medicine, 65, 461-470

Environmental determinants of inflammatory status

	Deecat	% smokers	CRP (median) mg/dl	
			Never-smokers	Smokers
affluent ↑ ↓ deprived	1	36.8	0.71	1.42
	2	35.9	1.00	2.34
	3	39.1	1.11	2.25
	4	44.1	1.21	2.44
	5	46.6	1.13	2.53
	6	49.3	1.25	3.07
	7	55.5	1.48	3.29

Chronicity of stress by telomere length and perceived stress by telomere length

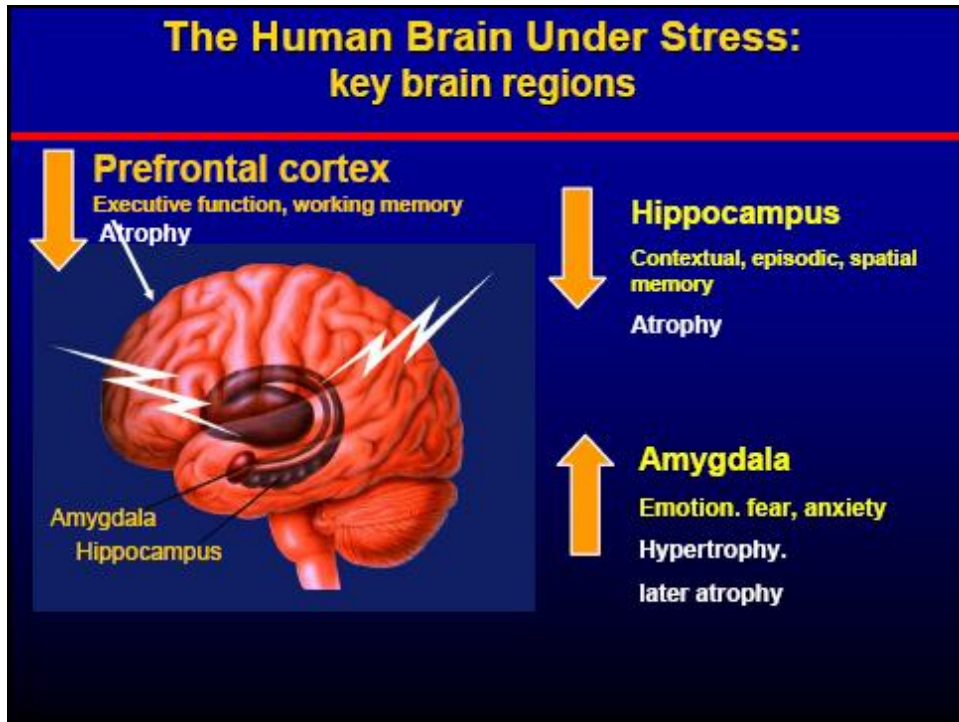


Epel, Elissa S. et al. (2004) *Proc. Natl. Acad. Sci. USA* 101, 17312-17315
 Copyright ©2004 by the National Academy of Sciences

PNAS

Telomere length in twins by occupation





Health Assets

- ◆ A health asset is any factor or resource which enhances the ability of individuals, communities and populations to maintain their health and sustain wellbeing. The assets can operate...as protective and promoting factors to buffer against life's stresses

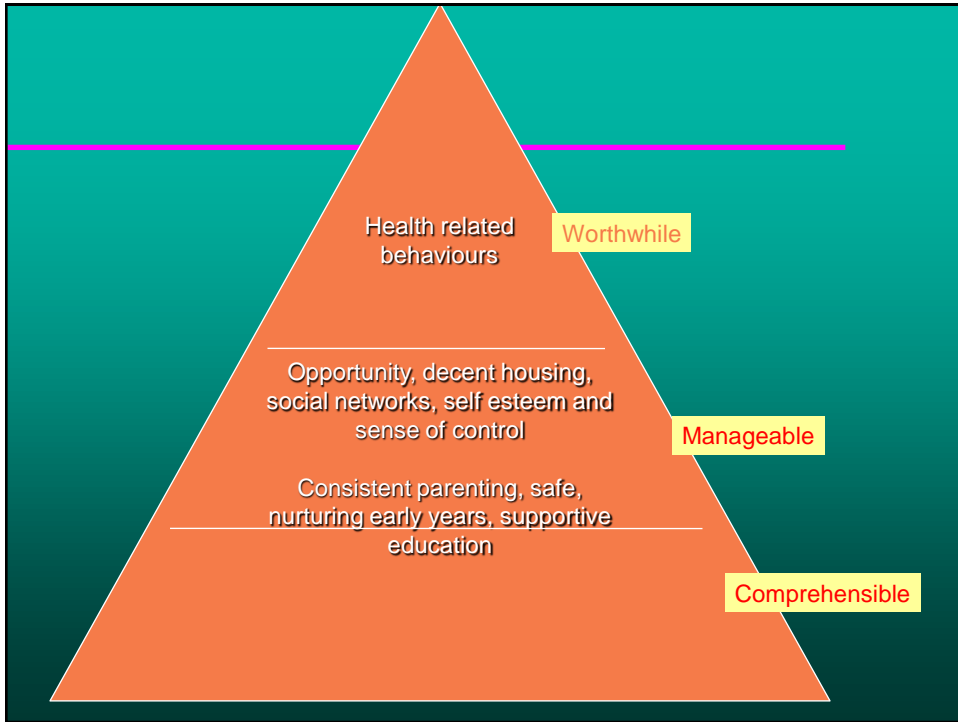
Morgan 2009

Health Deficits approach

- ◆ Focuses on problems, needs and deficiencies in a community such as deprivation, illness and health damaging behaviours. It designs services to fill the gaps and fix the problems. As a result, communities can feel disempowered. People become passive recipients of services rather than active agents in their own lives

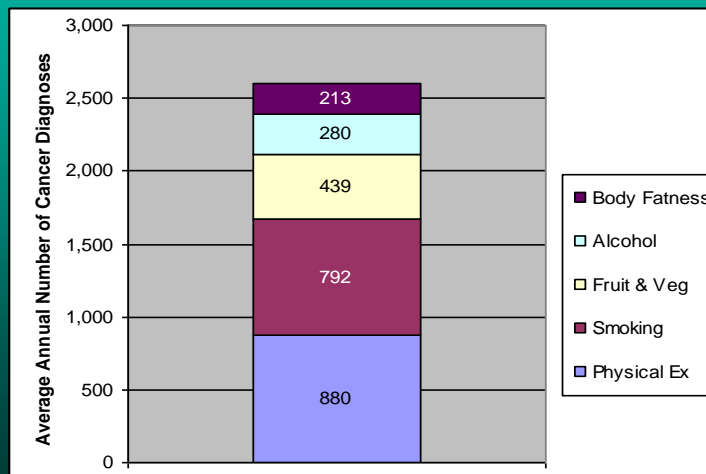
The Asset Approach

- ◆ Identifies and makes viable the health assets in a community
- ◆ Sees citizens as co-producers of their own health rather than passive recipients of services
- ◆ Supports individuals health and wellbeing through enhancing skills for resilience, relationships, knowledge and self esteem
- ◆ Promotes community networks that can provide caring and empowerment



“PREVENTABLE FRACTION”

Average annual preventable colorectal, breast and lung cancer diagnoses by life style



Bronchus and lung

