21.4 Self-reported mental health and wellbeing

Project Name: proGIreg (Grant Agreement no. 776528) **Author/s and affiliations:** Carmen de Keijzer¹, Payam Dadvand¹ ¹ Fundacion Privada Instituto de Salud Global Barcelona, Barcelona, Spain

Self-reported mer	ntal health and wellbeing	Health and Wellbeing	
Description and justification	This indicator of mental health status is based on a validated and widely used questionnaire. An accumulating body of evidence has demonstrated a positive association between green space exposure and self-perceived general mental health and wellbeing. However, evidence from natural experiments is lacking, while such studies could strengthen the evidence for causality of the association.		
Definition	Self-reported mental health and wellbeing status		
Strengths and weaknesses	A strength of this indicator is that it is obtained by applying a validated and widely used questionnaire to assess mental health status. This questionnaire has been translated into many languages and re-validated. A limitation is that the indicator is self-reported, although validation studies have demonstrated that the questionnaire has acceptable predictive value .		
Measurement procedure and tool	The indicator is obtained using a survey which is taken by a sample of the general population. The survey includes a section of the SF-36 health survey questionnaire on mental health, in which several items ask about the amount of time during the past 4 weeks a participant experienced a certain feeling. The answers are given on a scale from 1 (all of the time) to 6 (none of the time). This survey is repeated before and after the implementations of NBS in order to observe a potential change in mental health status.		
Scale of measurement	General population in residential neighbourhoods		
Data source			
Required data	Questionnaire data		
Data input type	Continuous variables		
Data collection frequency	Twice; once before the implementation of the nature-based solutions and once after.		
Level of expertise required	Low		
Synergies with other indicators	This indicator is related to other indicators on mental health.		

Connection with SDGs	Good health and wellbeing: if the implementation of NBS provide mental health benefits, NBS contribute to improved health and wellbeing.		
Opportunities for participatory data collection	The questionnaires are self-reported and as such are reported by the citizens themselves.		
Additional information			
References	Brazier et al. (1992). Validating the SF-36 health survey questionnaire: a new outcome measure for primary care. BMJ; 305,160.		

21.5 Cardiovascular diseases (prevalence, incidence, morbidity and mortality)

Project Name: CONNECTING Nature (Grant Agreement no. 730222)

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Prevalence, incidence, morbidity and mortality of		Health and Wellbeing	
cardiovascular diseases (CVD)			
Description and	Accumulating evidence supports the notion that ecological		
justification	features such as the diurnal cycles of light and day,		
	sunlight exposure, seasons, and geographic characteristics		
	of the natural environment such as altitude, latitude, and		
	green spaces are important determinants of cardiovascular		
	health and CVD risk (Bhatnagar, 2017). Some of the		
	beneficial cardiovascular effects of greenery might relate to		
	a decrease in the levels of local air pollution, increased		
	proximity to walking spaces, or lower levels of mental		
	stress (Bhatnagar, 2017). Recent studies and systematic		
	reviews of empirical evidence have found support for the		
	association between access and use of green spaces, and		
	the prevalence and mortality of cardiovascular disease and		
	risk, as well as for improved rates of recovery from		
	cardiovascular disease (Gascon, Triguero-Mas, Martínez,		
	Dadvand, Rojas-Rueda, Plaséncia, & Nieuwenhuijsen,		
	2016; Grazuleviciene, Vencloviene, Kubilius, Grizas,		
	Dedele, Grazulevicius, Ceponiene,	<u> Tamuleviciute-Prasciene,</u>	
	Nieuwenhuijsen, Jones, & Gidlow,	<u>2015a; Kuo, 2015</u> ;	
	Pereira, Foster, Martin, Christian, Boruff, Knuiman, & Giles- Corti, 2012; Tamosiunas, Grazuleviciene, Luksiene, Dedele,		
	Reklaitiene, Baceviciene, Vencloviene, Bernotiene,		
	Radisauskas, Malinauskiene, Milina	wiciene, Bobak, Peasey,	