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NATURE FOR HEALTH AND EQUITY

Europeans face health and social challenges that merit urgent attention — obesity, mental health problems, social exclusion, air and noise pollution, and heat stress in cities.

These issues particularly affect socio-economically disadvantaged and vulnerable groups and put pressure on already stretched health budgets.

Lack of access to nature and natural areas contributes to health inequality, and improving it is key to tackling these challenges.

Wealth often determines access to nature in cities (Lee & Maheswaran, 2011), and these areas are under pressures of urbanisation and development.

According to a growing body of evidence, health inequalities are linked to access to nature. Health inequality affects all stages of life: pre-birth, childhood, adult life and old age. A number of studies show access to nature is vital for good mental and physical health at all ages.

Living in areas with green spaces significantly reduces income-related health inequalities, counteracting the effect of deprivation (Mitchell and Popham, 2008).

Links between nature and socio-economic inequalities

- People living in areas with high deprivation are more likely to have less access to green spaces and fewer opportunities for healthy activities (Marmot, 2013).
- Children in deprived areas are nine times less likely to have access to green space and places to play (National Children's Bureau, 2013).
- In Denmark, people living more than 1 km from green space were more likely to be obese and less likely to exercise rigorously than those living closer than 300 m (Toftager et al., 2011).

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Friends of the Earth Europe Rue d'Edimbourg 26, 1050 Brussels Belgium Tel: 0032 (0) 2 893 10 00 www.foeeurope.org/nature @foeeurope Middle-aged men living in deprived urban areas with high amounts of green space have a 16% lower risk of dying compared with similar groups living in areas with less green space (Scottish Government, 2014).

Nature has multiple benefits

- In Spain, people living within 300 metres of green spaces report better self-perceived health and mental health (Triguero-Mas et al., 2015).
- Doctors prescribe fewer anti-depressants in urban areas with more trees on the street (Taylor et al., 2015).
- People are happier and have lower mental distress when living in urban areas with more green space (White et al., 2013).
- A review of multiple studies showed the positive links between biodiversity-rich environments and health and well-being (Lovell et al., 2014).

Role of nature for children and adolescents

From before birth to childhood, nature plays a crucial role in physical and mental health. Inequalities in early years have health implications later in life. Early contact with nature fosters positive attitudes for protecting the environment as an adult.

New-borns in areas with abundant green spaces have a higher birth weight and head circumference (Dadvand et al., 2012).

Nature and Children's Development

- Pregnant women living more than 300 meters away from green spaces have higher blood pressure compared to those who live closer (Grazuleviciene et al., 2014).
- Growing up and living in microbe-rich environments can reduce the development of allergies (Ege et al., 2011; Hanski et al., 2012; Haahtela et al., 2013).
- Living 2 to 5 km from diverse natural environments (like forest areas or traditional farms) reduces the chance of allergies in children 6 years or older (Ruokolainen et al., 2015).
- Access to nature can reduce childhood behavioural problems, such as hyperactivity, emotional symptoms and peer relationship problems (Amoly et al., 2014).
- 10-year-old children who spent their summer camp in nature were more environmentally friendly than those who spent it in the city (Collado et al., 2013).

Social Forest Initiative, Spain

Social Forest is a Barcelona-based organisation that provides training in forestry services to youngsters at risk of social exclusion. It promotes sustainable forest management and renewable energy, in particular local forest biomass. Social Forest intends to tackle youth unemployment and exclusion and to raise awareness of the health benefits of nature.







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Nature's benefits for well-being, sense of place and community

Nature in your everyday environment is beneficial to general well-being. It creates a sense of space and community, including in ethnic and minority groups.

Green areas are an important factor for individuals and communities establishing a 'sense of place' and 'ownership' of the landscape (Maas et al., 2009).

General well-being and sense of space and community

- Among visitors to protected areas, minorities and socially excluded groups are markedly under-represented, as are younger people (Booth et al., 2010).
- 26% of the black and minority ethnic population in England visit natural environments three times a year or less (compared with 15% of the rest of the population) (Burt et al., 2013).
- Nature increases positive emotions and feelings of vitality (Tyrväinen et al., 2014).
- Improved access to woodland near deprived urban communities in Scotland promoted green space use, increased activity levels and perceived quality of life (Ward Thompson et al., 2013).
- Seeing one's neighbour at the local park can help to build familiarity, a sense of commonality, and sets the groundwork for future engagement (Bennet et al., 2012).

Neighbourhood Gardens in Vienna, Austria

Caritas Austria's neighbourhood gardens provide a space for care home residents to work with volunteers. The residents are the elderly, disabled and underage refugees separated from their parents. Gardening brings them together, providing a space for new social interactions and learning experiences.

Nature for mental health and therapeutic treatment

Access to nature and activities in nature improve self-reported well-being in disadvantaged groups and can contribute to improved mental health. More and more initiatives are using nature for green exercise and therapeutic purposes.

Green areas support mental well-being in the elderly (Rappe et al., 2008).

Mental Health Benefits of Nature

- Inequality in mental well-being is larger among people who report poor access to green areas, compared with those with good access (Mitchell et al., 2015).
- Short green exercise activities increased self-esteem and mood of participants in one study. People with pre-existing mental health conditions particularly benefit from an increase of self-esteem (Barton and Pretty, 2010).

Nature for Therapy – Alnarp Rehabilitation Garden, Sweden

Alnarp Rehabilitation Garden piloted an effective, nature-based treatment for individuals recovering from stress-related mental disorders, stroke and war neuroses. Participants with severe stress and/or mild to moderate depression significantly reduced their health care consumption. One year after rehabilitation, the costs for primary care dropped by 28% for the pilot, and days spent in hospital fell by 64% (Währborg et al., 2014).







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Benefits of nature for older people and longer life

Access to nature in daily life contributes to better health in old age. Reducing physical and socio-economic barriers and improving infrastructure and services are important to give elderly and physically disabled people access to nature.

There is a positive relationship between the presence of walkable green space and lower mortality rates among senior citizens (Takano et al., 2002).

Elderly people benefit from access to nature

Green space access is linked to increased walking, and in deprived areas, to lower mortality (Lachowycz & Jones, 2014).

Green space in urban environments is associated with long-term reduction in mortality, notably linked to air pollution (Villeneuve et al., 2012).

Nature for disadvantaged groups

The Walkability Project in Pembrokeshire, UK, supports groups with higher health risks by promoting walking in Pembrokeshire Coast National Park. The park authorities and local health board co-host the project. The cooperation of these two groups with the national park manager is considered a key success factor.

The "Green routes without obstacles" project by the Nature Conservation Agency of Latvia improved nature tourism opportunities for disabled people. This included creating new and adapting existing infrastructure, developing travel routes and giving advice on working with people with special needs.

Who can do what for nature, health and equality?

The evidence calls for increased efforts to provide accessible and well-maintained natural areas for particularly disadvantaged groups. This is not one stakeholder's responsibility, but an opportunity for all stakeholders.

Governments, international organisations and the European Union (EU) can contribute by recognising access to nature is a fundamental human right. In addition, they can protect nature, for example through the Natura 2000 network, fund investment and support related projects. Targeting EU budget to this area will improve EU added-value.

At national levels, it is important to accelerate the integration of nature and social concerns across policy areas, and commit to access to nature rights. Building codes should have minimum standards for nature proximity and health policies should take into account the preventative benefits of nature.

Cities and regions are important as most investment and action occurs here. They can invest in urban green spaces and improve access to biodiversity rich suburban and rural areas. Cities can follow Victoria-Gasteiz and Oslo's commitment to citizens having access to nature within 300 metres.

Health and care professionals should consider nature-based solutions for health and equality. Preventative and low-cost treatments can reduce public sector expenditure and citizens' costs.

Citizen initiatives, NGOs, government and protected areas managers should see the opportunities of turning networks of protected areas into accessible health hubs that offer benefits to all citizens.

This is an invitation for dialogue and cooperation to forge better outcomes for nature, equity, and well-being.





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