Child Health and Quality of Life

The facts

- Children in poor families have worse health conditions than those in families with higher incomes.
- families, provided they also have access to affordable water and sanitation Promoting better hygiene can greatly improve health for children in poor
- Improved water supplies lead to opportunities for household poverty alleviation through increased economic productivity, especially by women
- Illness from diarrhoeas, eye infection and skin diseases (all three hygienerelated) meant an aggregated cost of US\$ 10-11 per person per year for rural households in Uttar Pradesh, India.

hygiene? Why water, sanitation and

- money to pay for her children's economically self sufficient, with Sudha is a master handpump education. This has allowed her to become mechanic in Tamil Nadu, India.
- Women potters in Ghana had for cola nut and palm oil production and trade. Also, time to be able to increase their there was water now available processing and for distilling

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drink time to economic activities such rooms, and selling produce as working in shops and tea-Tanzanian women devoted more

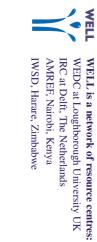
Akpeteshie, a local alcoholic

fruit).

(ground nuts, potatoes, cassava,



Households in Bobo-Dioulasso, and benefitted from higher households saved almost twice Burkina Faso who adopted productivity. as much in medical care bills washing. However, these year mainly on soap for hand invested \$8 per household per improved hygiene practices



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and mortality. for the impact of water supply, sanitation and improved hygiene on child health This Briefing Note presents evidence

Key references

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- WaterAid (2001). Looking back: The long-term impacts of water and Geneva
- sanitation projects. WaterAid. London. UNICEF (2004) Monitoring the Situation of Children and Women. http://www.childinfo.org/index2.htm,

at www.lboro.ac.uk/well support of this policy briefing are available Full details of all the material used in

- There are six briefing notes in this series: 1. The Poverty Millennium Development Goal: What water, sanitation and
- 2. The Education Millennium Development Goal: What water, hygiene can do sanitation and hygiene can do
- The Child Health Millennium Development Goal: What water,

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The Gender Millennium Development Goal: What water, sanitation and sanitation and hygiene can do

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- S. hygiene can do The HIV/AIDS Millennium
- The Environmental Sustainability Development Goal: What water, sanitation and hygiene can do

6.

Millennium Development Goal: What water, sanitation and hygiene can do

& Environmental Health www.lboro.ac.uk/well DFID Resource Centre in Water, Sanitation

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BRIEFING NOTE 3

The Millennium De velopment Goal ALTH

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What water, sanitation an

Development Goals The Millennium

discrimination against women. degradation and illiteracy, environmental combating poverty, hunger, agreed a set of time-bound and measurable goals aimed at In September 2001, the United Nations Millennium Summit

the year 2015. target is to reduce by two to reduce child mortality. The Development Goal (MDG) is among children under five by thirds the mortality rate The fourth Millennium



Why is

hygien nealth

Child

- Child
- Child

d hygiene can do

Headline facts

so important for child water, sanitation and

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The facts

- water supply, sanitation and hygiene. It is the largest *preventable killer* of children-under-five and is caused by ingesting certain bacteria, viruses or 1.7 million young children die each year from diarrhoea related to inadequate parasites that are spread through food, utensils, hands and flies.
- Worms infect more than a third of the world's population. Worm infection soil or water) and unhygienic behaviour. old. These are spread through unhygienic environments (such as contaminated (helminths) is ranked as the main cause of disease in children aged 5-14 years
- Other diseases related to inadequate water and sanitation services include skin and eye infections, (trachoma, preventable by hand and face washing), schistosomiasis (transmitted through infected water), and dengue (carried by mosquitoes in unhygienic domestic water vessels).
- crucial element in the reduction of under-five mortality and morbidity. Access to improved water and sanitation, especially in poor urban areas, is a
- from a source. drops significantly when water is carried for more than a few minutes away Ease of access to water affects how much people use and its consumption

hygiene? Why water, sanitation and

Water supply and sanitation

supply. preventing disease as improved water and soil. This is as effective in Appropriate sanitation reduces the on average by one-quarter to one-third. Water, sanitation and hygiene transmission of faecal-oral disease and interventions reduce diarrhoeal disease human faecal contamination of water helminth infection by preventing

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- systems. It is reported that More than 1,100 people in clean water and sanitation Canada initiative to provide benefited from a CIDA-CARE diarrhoea and skin sores no children who once suffered from central Honduras have
- Kamanganjulu, one of 30 small longer do so. rural settlements in Malawi facilities, saw a reduction in and upgrading sanitation developing safe water sources

its inhabitants had no access to their fifth birthday. one in four babies did not reach safe water or sanitation and the project, more than 70% of cholera and diarrhoea. Prior to

> villages had a 33% higher that children not living in WASEP in Pakistan 1997-2001 found chance of diarrhoea than those Extension Programme (WASEP) The Water and Sanitation

rate by 25%. from trachoma. Adequate water supply can reduce the infection About 6 million people are blind

who did.

infection rate by 77%. sanitation could reduce the About 200 million people are that adequate water supply and consequences. whom 20 million suffer severe infected with schistosomiasis, of Studies found

Hygiene behaviour

hygiene education. water quality alone is improved without Several studies in the last decade have failed to find any health benefits when

than 40%, and cases of soap reduces diarrhoea by more transmitted from person to Most endemic diarrhoeal disease and dysentery by more than behaviour. Hand washing with is not water-borne but hospitalised diarrhoea, cholera food due to poor hygiene person on hands and through

Child Health and Education

The facts

- Children who suffer from severe and perform worse in non-verbal school later than their classmates early childhood diarrhoea enter intelligence tests.
- Children from a Brazilian first two years of life, performed less well than other children in episodes of diarrhoea during the suffered serious and ongoing shantytown community, who intelligence tests some 5-10 years

hygiene? Why water, sanitation and

later.

School attendance

- change in their families and It is essential to teach children school attendance. improvements and higher communities, leading to health can then become agents of such as handwashing, as they sanitation-related behaviours
- of Bashibo. An Environmental School attendance, especially amongst girls, has increased, brushing teeth regularly. increase in bathing and washing by 95%, with a 90% Health Club has increased hand and girls in the Nigerian village separate pit latrines for boys borehole, handpump and following the construction of a

School performance

The impact of helminth not receive treatment. in school than children who do infection perform much better treated against a helminth Jamaica found that children is remarkable. A study in reduction programs in schools



Child Health and the Home

The facts

- Unhygienic home environments can expose children to infectious diseases carried by unsafe water, inappropriate sanitation or a lack of hygiene.
- Access to water affects the quantity used for domestic and drinking purposes This is an important factor related to health.
- and to less time spent fetching it. Access to safe water and sanitation enables women standards of home and childcare. This is due to the

hygiene? Why water, sanitation and

A study in Salvador, Brazil showed that children in

than those with sanitary toilets. twice the incidence of diarrhoea households with no toilet, had

water. once a

- diarrhoea by 1.3%. decrease in occurrence of cleaning purposes enjoy a increase in water use for Households with a 10 per cent
- mother washing her hands after The existence of a yard tap nearly doubled the chances of a
- immediately washing faecally soiled linen doubled the chances of her cleaning a child's anus, and
- Women save time not fetching water. This allows them to

- children's nutritional status. leading to improvements in devote more time to child care,
- killer,
- hygien
- central

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to maintain more hygienic easy availability of water

Households with a distant water cook very little, and only day because of a lack of

source

In Madagascar, WaterAid disappeared. Having less gives mosquitoes and fleas, the carriers of malaria and plague, projects have meant that less chance to thrive. stagnant water and a more diarrhoea, once the major childlic domestic environment ias now virtually

children had been sick over an malnutrition. A study among Water and hygiene are and fever, or a combination of diarrhoea, respiratory infections most of the malnourished community of Old Fangak, several illnesses. extended period, suffering from children under five in the Nuer contributing factors to Upper Nile, found that



infection.

Child Health and the Community

The facts

- below the poverty line. twice to six times as likely to be households using unprotected water sources in Tanzania are sanitation services. Urban enjoy inadequate water supply and The urban poor are most likely to
- managed programme. access in one communityhouseholds are equally served, with only 40% having reliable Within rural communities, not all
- and hygienically disposed of, The greatest impact is when perceived to be less dangerous although they are frequently Children's excreta are more likely especially in crowded urban areas. children's excreta is effectively to contain diarrhoeal pathogens, than those of adults.



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hygiene? Why water, sanitation and

- sanitation infrastructure. three times the rate of Children living in communities diarrhoea than those with without sewers and drains had
- improved sewerage and drainage has a significant A study in Brazil showed that intensity of intestinal worm effect on the prevalence and
- Once community sewers are are therefore major wider for the wider community. like safe water supply. There increase the effect of other installed, the impact is to benefits of installing sanitation interventions on child health,