

Sources for statistics cited in 2009 New York Times ad:

“They aren’t the only ones who don’t get safe water: The world’s most serious health problem remains diseases caused by inadequate water, sanitation and hygiene.”

Text Sources:

“Water and sanitation-related diseases, those listed in the photo above and others, collectively account for 80% of sickness in developing countries.”

<http://www.un.org/news/Press/docs/2003/sgsm8707.doc.htm>

<http://www.unesco.org/water/news/newsletter/161.shtml>

http://www.unicef.org/lifeskills/files/Sudan_Health.pdf

“These diseases annually kill more children—2.2 million—than AIDS, malaria and TB combined.”

Mortality totals of children 0-14 years:

- Annual deaths of children from diseases related to inadequate water supply, sanitation, hygiene: **2,241,000**. Source: Safer Water, Better Health, WHO, 2008
 - http://whqlibdoc.who.int/publications/2008/9789241596435_eng.pdf, page 12
- Annual deaths of children from AIDS/malaria/TB: **1,062,000**
 - “Annual deaths due to AIDS among children peaked in 2005 at 360,000 and began to decline to an estimated 330,000 in 2007.” Source: The Global Fund to Fight AIDS, Tuberculosis and Malaria, “HIV/AIDS Background.”
 - <http://www.theglobalfund.org/en/hiv/aids/background/>
 - Annual deaths from malaria for children 0-14 years: 482,000. Source: Safer Water, Better Health, WHO, 2008.
 - http://whqlibdoc.who.int/publications/2008/9789241596435_eng.pdf, page 12
 - “Over 250,000 children die every year of TB.” Source: The Global Fund to Fight AIDS, Tuberculosis and Malaria, “TB in the Disease Report.”
 - http://www.theglobalfund.org/documents/publications/diseasereport/disease_report_tb_en.pdf, page 5 of PDF, page 26 of report

“These diseases trigger 4 billion cases of diarrhea annually”

Source: Child Survival Fact Sheet: Water and Sanitation

“Unsafe water and poor sanitation and hygiene result in countless deaths and a huge burden of disease among young children – almost all of it preventable. More than four billion cases of diarrhea cause 2.2 million deaths—mostly of children under the age of five. As immune systems are progressively compromised with each bout of diarrhea, related illnesses indirectly kill millions more each year.”

http://www.unicef.org/media/media_21423.html

<http://siteresources.worldbank.org/INTPHAAG/Resources/AAGWatSan11-03.pdf>

(Interestingly, even Google has a hard time grasping this: “[Did you mean 4 million cases of diarrhea?](#)”)

“These diseases cause. . . ‘2 billion infections by parastic intestinal worms’”

Source: Safer Water, Better Health, World Health Organization, 2008, page 8

“Intestinal nematode infections: 2 billion infections—affecting one third of the world’s population—that could be prevented. . . transmission of intestinal nematode infections, such as ascariasis, trichuriasis and hookworm, occurs through soil contaminated by faeces. It is entirely preventable by adequate sanitation, and intervention outcomes are reinforced by good hygiene.”

http://whqlibdoc.who.int/publications/2008/9789241596435_eng.pdf

“Half of the world’s malnutrition is caused by these water and sanitation-related diseases.”

Source: Safer Water, Better Health, World Health Organization, 2008, Page 7

“Childhood underweight causes about 35% of all deaths of children under the age of five years worldwide. An estimated 50% of this underweight or malnutrition is associated with repeated diarrhoea or intestinal nematode infections as a result of unsafe water, inadequate sanitation or insufficient hygiene.”

http://whqlibdoc.who.int/publications/2008/9789241596435_eng.pdf

<http://siteresources.worldbank.org/INTENVHEA/Resources/9780821372364.pdf>, pages 6-7

“Even pneumonia infections can be reduced by 25% with water and handwashing.”

Source: WELL Factsheet: Health Impact of Handwashing with Soap

<http://www.lboro.ac.uk/well/resources/fact-sheets/fact-sheets-htm/Handwashing.htm>

http://www.unicef.org/lac/GHD_Planners_Guide.pdf page 6

http://www.unicef.org/malaysia/FAQ_on_Handwashing_with_Soap.pdf page 1

http://www.unicef.org/malaysia/FAQ_on_Handwashing_with_Soap.pdf page 5 of the PDF, page 229 of the document

“But nearly 1 billion people around the world still lack access to safe drinking water and 2.5 billion people...lack adequate sanitation.”

Source: “Progress on Safe Drinking Water and Sanitation,” UNICEF, WHO Joint Monitoring Program, 2008.

“884 million people...still use an unimproved drinking water source.” page 32

“2.5 billion people are with out adequate sanitation” page 9

http://documents.wssinfo.org/download?id_document=1279

Sources for Statistics on Specific Diseases:

Amoebic Dysentery: “50 million infections annually, 100,000 deaths”

<http://wwwnc.cdc.gov/travel/yellowbook/2010/chapter-5/amebiasis.aspx>

http://www.who.int/vaccine_research/diseases/soa_parasitic/en/index1.html

Ascariasis: “1 billion people affected, 60,000 deaths”

http://www.who.int/water_sanitation_health/diseases/ascariasis/en/

http://www.cdc.gov/ncidod/dpd/parasites/ascaris/factsheet_ascaris.htm#common

http://www.usaid.gov/our_work/global_health/id/ntd_main.html

Bacillary Dysentery (Shigella): “165 million cases annually, 600,000 deaths”

<http://wwwnc.cdc.gov/travel/yellowbook/2010/chapter-5/shigellosis.aspx>

http://www.who.int/vaccine_research/diseases/shigella/en/

Campylobacter: “400 million cases annually”

http://www.who.int/vaccine_research/diseases/diarrhoeal/en/index2.html

Cholera: “3 million cases annually, 120,000 deaths”

http://www.who.int/vaccine_research/diseases/diarrhoeal/en/index3.html

Cryptosporidiosis: “10% of population in developing countries infected”

<http://members.medscape.com/article/996876-overview>

<http://wapedia.mobi/en/Cryptosporidiosis?t=10>

<http://www.ajtmh.org/cgi/content/full/75/1/78>

<http://emedicine.medscape.com/article/215490-overview>

Enterotoxigenic E Coli Strains: “200 million cases annually, 170,000 deaths”

http://www.who.int/vaccine_research/diseases/diarrhoeal/en/index4.html

Giardia: “200 million infections annually”

<http://www.epa.gov/waterscience/criteria/humanhealth/microbial/giardiafs.pdf>

Hepatitis A: “1 million infections annually”

http://www.who.int/water_sanitation_health/mdg1/en/index.html

Hookworm: “740 million people affected”

http://www.who.int/vaccine_research/diseases/soa_parasitic/en/index2.html

Rotavirus: “2 million hospitalized annually, 500,000 deaths”

http://www.who.int/vaccine_research/diseases/diarrhoeal/en/index5.html

<http://www.bio-medicine.org/medicine-news-1/FDA-Advisory-Committee-Recommends-US-Approval-of-Rotavirus-Vaccine-12393-1/>

<http://www.cdc.gov/rotavirus/>

Schistosomiasis: “200 million people affected”

http://www.who.int/water_sanitation_health/diseases/schisto/en/

http://www.who.int/vaccine_research/diseases/soa_parasitic/en/index5.html

Trachoma: “80 million active cases, 6 million people blinded”

<http://www.who.int/blindness/causes/trachoma/en/index.html>

<http://siteresources.worldbank.org/INTENVHEA/Resources/9780821372364.pdf>, page 5

Trichuriasis: “600 million people affected”

<http://globalnetwork.org/about-ntds/factsheets/trichuriasis>

Typhoid Fever: “22 million cases annually, 200,000 deaths”

<http://wwwnc.cdc.gov/travel/yellowbook/2010/chapter-2/typhoid-paratyphoid-fever.aspx>
