The Social Determinants of Health: Challenges for Health Promotion

Ichiro Kawachi
Harvard School of Public Health
Boston, USA
• Early child development
• Globalization
• Social exclusion
• Employment conditions
• Health systems
• Urban settings
• Women, gender equity
• Priority health conditions
• Measurement & evidence
The World Distribution of Wealth

- The top 1 percent of the world's population owns 40 percent of the world's total wealth.

- The bottom 50 percent of the world's population owns 1.1 percent of the world's total wealth.

World Institute for Development Economics Research (United Nations University), December 5, 2006.
The Good News.

Global Trends in % People Living on < $1/day (1993 PPP)

Source: Chen & Ravallion, 2004
Mali

The Natomo Family

GNP per capita
$215

Life expectancy
46.2 years
Family laundry day

Natomo house toilet

Dinner cooking on open fire
BHUTAN

The Namgay Family

GNP per capita
$247 per year

Life expectancy
51.0 years
HAITI

The Delfoart Family

GNP per capita
$518 per year

Life expectancy
56.8 years
1993
Namgay Family
BHUTAN

2001
26 December 2004.
Ao Nang, Thailand
Male Life Expectancy

LE at Birth (yrs)

<table>
<thead>
<tr>
<th>Country</th>
<th>LE at Birth (yrs)</th>
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<td>Black male, D.C.</td>
<td>57.9</td>
</tr>
<tr>
<td>Ghana</td>
<td>58.3</td>
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Harvard Global Burden of Disease Unit
U.S. IS WARNING
NORTH KOREANS
ON NUCLEAR TEST

PUNITIVE ACTION VOWED

No Details Are Given on
What Type of Sanctions
Might Be Used

By DAVID E. SANGER
WASHINGTON, May 15 — The
Bush administration on Sunday
warned North Korea for the first
time that if it conducted a nuclear
test, the United States and several
Pacific powers would take punitive
action, but officials stopped short of
saying what kind of sanctions would
result.

“Action would have to be taken,”
Stephen J. Hadley, President Bush’s
national security adviser, said on the
CNN program “Late Edition.” Asked
earlier on “Fox News Sunday” about
recent reports that intelligence agen-
cies have warned that North Korea
could conduct its first test, Mr. Had-
ley added: “We’ve seen some evi-
dence that says that they may be
preparing for a nuclear test. We have
talked to our allies about that.”

But he cautioned that North Korea
was “a hard target” and that correctly
assessing its intentions was nearly
impossible.

RICE, IN URGES
IN COAL

U.S. MESSA

By RICH

Secretary of State Condoleezza
Rice yesterday in Baghdad.

Newsweek Says
Sorry for Report
Of Koran Insult

By KATHARINE Q. SEELYE
Newsweek apologized yesterday
for printing a small item on May 9
about reported desecration of the
Koran by American guards at Guant-
namo Bay, Cuba, an item that
burst off over the weekend, with
Mr. Rice, in

Ewa Rynczak Gora’s first signs of
trouble came in her rented room in
the noisy shadow of the Brooklyn-
Queens Expressway. It was the
Fourth of July. Ms. Gora, a Polish-
born housekeeper, was playing

© Matt Lepikowski
Hurricane Katrina, August 2005
Male Life Expectancy

LE at Birth (yrs)

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Harvard Global Burden of Disease Unit
The Times-Picayune
Obituary Page
October 26, 2002

BRIAN DENALL ‘SHONTY’ DODDLE
Brian Denall, 76, a restaurant worker, died Tuesday at 11 a.m.
He was a native of New Orleans and a resident of Port
Cougar. He was married to Mary A. Denall.
Survivors include his wife, Mary A. Denall; two sons, Brian
Denall and Brian L. Denall; two daughters, Lisa A. Denall
and Lisa L. Denall; and two grandchildren.

JERRY L. HEAD
Jerry L. Head, 79, died Tuesday at 8 a.m. He was a
member of the American Legion.
Survivors include his wife, Mary A. Head; two sons, John
Head and Robert Head; and two daughters, Jennifer Head
and Jennifer L. Head.

MARY M. FABRE
Mary M. Fabre, 78, a homemaker, died Thursday at 10 a.m.
She was a native of New Orleans and a resident of
Golfview. She was married to Louis M. Fabre.
Survivors include her husband, Louis M. Fabre; three
children, Donna M. Fabre, Mary J. Fabre, and Louis M. Fabre;
and six grandchildren.

FLORENCE KRELLER HOLLAND
Florence Kreller Holland, 85, died Wednesday at 3 a.m.
She was a member of Saint Mary’s Catholic Church.
Survivors include her husband, John Holland; four
children, John Holland, Mary Holland, and James Holland;
and eight grandchildren.

DAVID JOSEPH FOS
David Joseph Fos, 60, a retired auto body worker, died
Tuesday at 2:30 p.m. He was a native of New Orleans.
Survivors include his wife, Laura Fos; two sons, David Fos
and David M. Fos; and three grandchildren.

GERARD FRANCOIS HYMEL
Gerard Francois Hymel, 60, died Wednesday at 3 p.m.
He was a member of the American Legion.
Survivors include his wife, Patricia Hymel; two sons,
Stephen Hymel and Joseph Hymel; and four grandchildren.

HILDA LIROCDI FRISSARD
Hilda Lirocdi Frissard, 84, died Wednesday at 8 a.m.
She was a native of New Orleans.
Survivors include her husband, Peter Frissard; two
children, Peter Frissard and Patricia Frissard; and five
grandchildren.

JOHN SANDERS JR.
John Sanders Jr, 37, a student at Loyola University,
died Wednesday at 8 a.m. He was a native of New Orleans.
Survivors include his parents, John Sanders and Mary
Sanders; two sisters, Elizabeth Sanders and Anna
Sanders; and four grandchildren.

ANTONINETTE DONET TOBIAS
Antoniette Donet Tobias, 88, died Wednesday at 5 p.m.
She was a native of New Orleans.
Survivors include her husband, Joseph Tobias; and one
child, Joseph Tobias.

Hilda Lirocdi Frissard, 84, died Wednesday at 8 a.m.
She was a native of New Orleans.
Survivors include her husband, Peter Frissard; two
children, Peter Frissard and Patricia Frissard; and five
grandchildren.

GEORGE G. AMERICANACH
David E. Fabre, 75, died Wednesday at 11 a.m.
He was a native of New Orleans.
Survivors include his wife, Rosa Fabre; two sons,
David Fabre and David E. Fabre; and three grandchildren.

CAROL EMMER MEYER
McMahon-Coburn-Briedo
Funeral Home
123 W. Virginia St.
New Orleans, LA 70117
(504) 522-3333

TILLY’S FUNERAL HOME
1825 Tonnele Ave.
New Orleans, LA 70119
(504) 948-3333

Brian Denall "Shorty", a restaurant worker, died Wednesday of complications from a stroke at Charity Hospital. He was 40. Mr. was a lifelong resident of New Orleans. He graduated from No. 16 Middle School. Survivors include his wife, Delores A.

Derrick Joseph, a laborer, died Oct. 19 of kidney failure at Tulane University Medical Center. He was 27. Mr. was a lifelong resident of New Orleans. He attended McDonogh No. 16 Middle School. Survivors include his wife, Nola J. and parents.

Antoinette Donté, a confined state attendant for PSI Exxon Mobil, died Wednesday of stab wounds at Lakeland Medical Center. She was 25. Ms. was a lifelong resident of Marrero. She graduated from John F. Eaton High School.

Alvin "Peter", a truck driver, died Tuesday of an aneurysm at Tulane University Medical Center. He was 53. Mr. was a lifelong resident of New Orleans. Survivors include his wife, Delores A.

Burnell "Bunny", a painter, died Oct. 12 of cancer at his sister's home. He was 46. Mr. was a lifelong resident of New Orleans. He was a graduate of George Washington Carver High School. Survivors include his wife, Lillian and parents.
Florence Kreller, a homemaker, died Wednesday at Our Lady of the Lake Hospital in Baton Rouge. She was 87. Mrs. Kreller was a lifelong resident of New Orleans. She was a member of St. Hilda's Church.

Ned Bayhi “Sookie” was a homemaker, died Thursday at Northshore Regional Medical Center. She was 81. Mrs. Bayhi was born in New Orleans and lived in Slidell for the past year. She was a former

Hilda LiRocchi, a homemaker, died Thursday at her home. She was 95. Mrs. LiRocchi was a lifelong resident of New Orleans.

Mary M. was a homemaker, died Thursday at IHS Nursing Home. She was 86. Mrs. M. was a lifelong resident of New Orleans. Survivors include three daughters, Vera F. Routte, Dalila F. Ronquille and Mary F. Braithwaite, a brother, Joseph Hon.

Gerard Francois, a retired switchman for the New Orleans Public Belt Railroad, died Tuesday of cancer at Canon Hospice. He was 80. Mr. Francois was born in Edgard and lived in Reserve and New Orleans for many years. He was a Coast Guard veteran.
Why is Inequality Harmful to Public Health?

- Residential segregation
- Reduced social cohesion
- Stress
Flooding and Residential Segregation in New Orleans

Flood level on September 2, 2005

Percent African American by Census block group

Legend:
- 0% - 19.9%
- 19.9% - 46.6%
- 46.7% - 71%
- 71.1% - 88.7%
- 88.8% - 100%

Source: U.S. Census Bureau, Census 2000 Full-count Characteristics (SF1). From a compilation by the author. Note: Percent African American is based on the number of people who checked African American, e.g., in the Census 2000.
Price range of homes for sale: $13.5 million
Number of homes in community: 120 home sites
Approximate size range of homes: 3,500 to 31,000 square feet
Amenities: 24-hour security

Tucson realtors know Cobblestone as "The Toughest Gate", where even potential buyers must be met at guard post and chauffeured in a realtor's car. For $13.5 million, the top property, known as Campbell Cliffs, has a two-story gym, a six-car garage, and an indoor gun/archery range.
Spatial Concentration of Wealthy in Santiago, Chile. (Wealthier neighborhoods shown in darker shading).

Household Income and Odds Ratios of Poor Self-Rated Health, CASEN
Community Gini and Odds Ratios of Poor Self-Rated Health, CASEN
Social Trust and Generosity of Welfare Payments Across US States

The scatter plot shows the relationship between the maximum welfare grant as a percentage of per capita income and the percentage of respondents who believe "Most people can't be trusted." The correlation coefficient (R) is 0.76.
"Inequality, social cohesion and public goods provision. An experimental analysis."

- Trust game involving 8 people per session.
- Each subject given 10 tokens at the beginning of the session.
- A player can either:
  (a) put token into private account, resulting in $1 of earnings for each token for that person; or
  (b) put token into a public account, which is then doubled & split equally between 8 players at the end of the game.
- A selfish player would walk away with $10 at end of the game.
- But if players cooperate (e.g. contributed all 10 tokens to public account), they could double their money at the end of the game.
Income Inequality

- Induced by 3 different distributions of "show-up" payments given to players:
- **Egalitarian:** All 8 players receive $7.50
- **Skewed:** 1 player gets $20, 4 get $7, 3 get $4
- **Symmetric:** 3 players get $10, 2 get $7.50, 3 get $5
- Moreover, type of inequality either kept private or public (via award ceremony).
# Mean Contributions ($)

<table>
<thead>
<tr>
<th></th>
<th>Private Inequality</th>
<th>Public Inequality</th>
<th>All sessions</th>
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</thead>
<tbody>
<tr>
<td>Egalitarian</td>
<td>2.85</td>
<td>3.17*</td>
<td>3.01*</td>
</tr>
<tr>
<td>Symmetric</td>
<td>3.04</td>
<td>2.22</td>
<td>2.63</td>
</tr>
<tr>
<td>Skewed</td>
<td>2.76</td>
<td>2.46</td>
<td>2.61</td>
</tr>
</tbody>
</table>

Source: Anderson, Mellor & Milyo, 2005

*P < .05
What is the Solution?

UN Millennium Summit

September 6-8, 2000