Workshop on Environmental Threats to the Health of Children in the Americas

Water, Sanitation and Children’s Health

Horst Otterstetter
Preventable major burden on health care system

Important contributor to malnutrition in children under 5

Negative impacts on household economics, education, and time
Effectiveness of Hygiene Interventions

- **Excreta Disposal Facilities**
- **Water Quantity**
- **Water Quality**
- **Handwashing**

Primary Prevention
The F-Diagram

Source: Wagner and Lanois, 1958
Water, Sanitation and Children’s Health

Primary Prevention
The F-Diagram

- Feces
- Fluids
- Fields
- Flies
- Fingers
- Food
- New Host

Water Quantity
Water Quality

Source: Wagner and Lanois, 1958
Water, Sanitation and Children’s Health

Primary Prevention
The F-Diagram

Sanitation

Feces

Fluids

Fields

Flies

Fingers

Food

New Host

Water Quality

Water Quantity

Source: Wagner and Lanois, 1958
Primary Prevention
The F-Diagram

Sanitation
Fluids
Fields
Feces
Flies
Fingers
Food
New Host

Water Quality
Water Quantity
Hand Washing

Source: Wagner and Lanois, 1958
## Latin America: Population Estimates and Projection
(by year, age and both sexes)

<table>
<thead>
<tr>
<th>YEAR</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>508199382</td>
<td>515948070</td>
<td>523677464</td>
<td>531378258</td>
<td>539041148</td>
<td>546656828</td>
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<tr>
<td>0 - 4 years</td>
<td>54483861</td>
<td>54539564</td>
<td>54599590</td>
<td>54659785</td>
<td>54715990</td>
<td>54764049</td>
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<tr>
<td>5 - 9 years</td>
<td>53636525</td>
<td>53709925</td>
<td>53769294</td>
<td>53821220</td>
<td>53872292</td>
<td>53929098</td>
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<tr>
<td>10 - 14 years</td>
<td>52782457</td>
<td>52945526</td>
<td>53070880</td>
<td>53170538</td>
<td>53256514</td>
<td>53340825</td>
</tr>
</tbody>
</table>

Source: ECLAC, Jan 2003
Children in Latin America


Number of Children

- 0 - 4 years
- 5 - 9 years
- 10 - 14 years

- 2000: 51500000 to 52000000
- 2001: 52500000 to 53000000
- 2002: 53500000 to 54000000
- 2003: 54500000 to 55000000
- 2004: 51500000 to 52000000
- 2005: 52500000 to 53000000

Water, Sanitation and Children’s Health
### Population Unserved in 2000

<table>
<thead>
<tr>
<th>Population unserved</th>
<th>Water services</th>
<th>Sanitation Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total population unserved in 2000</td>
<td>76,229,907</td>
<td>106,721,850</td>
</tr>
<tr>
<td>Children 0-4 unserved</td>
<td>8,156,600</td>
<td>11,419,240</td>
</tr>
<tr>
<td>Children 5-9 unserved</td>
<td>8,004,140</td>
<td>11,205,794</td>
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<tr>
<td>Children 10 – 14 unserved</td>
<td>7,927,910</td>
<td>11,099,072</td>
</tr>
<tr>
<td>Total of Children under 15 unserved</td>
<td>24,088,650</td>
<td>33,724,106</td>
</tr>
</tbody>
</table>
Macro strategies

- Promote Regionwide processes
- Associate water and children’s health with sustainable human development
- Secure active participation of Health Services
- Primary environmental care
Water, Sanitation and Children’s Health

Millennium Development Goals

Latin America & the Caribbean

Poverty rate (% below $1.08 a day)

Net primary enrolment rate (%)

Ratio of girls to boys in primary and secondary school (%)

Under-5 mortality rate (deaths per 1,000)

Births attended by skilled personnel (%)*

Married women using contraception (%)

Improved water sources (% of population with access)
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Water and Sanitation

Halve, by the year 2015, the proportion of people without access to safe drinking water (*reaffirmation of Millennium Development Goal*).

Halve, by the year 2015, the proportion of people who do not have access to basic sanitation.
PROMOTE NEW WATER AND SANITATION DECADE

Build on the successes of:

- Charter of Punta del Este
- Decade Health Plan
- International Water and Sanitation Decade (1981 - 1990)
PROMOTE AND SUPPORT COMMUNITY ACTIONS

• AIDIS has created AmSa (Ambientes Saludables) a commitment of AIDIS for life
• Coordinate actions of NGOs
URGENT ACTION NECESSARY:

- Data on morbidity
- 100% Disinfection
- National Drinking Water Quality Standards
- National Recreational Water Quality Standards
- Economic Data on Alternative Solutions
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NEW SOURCES OF FINANCIAL RESOURCES

- Public - Private Partnership
- Resurgence of Multilateral investments
Investments of IDB in Sanitation

(in millions of US$)

2000 2001 2002