

The Global Economic Burden of Breast Cancer

David Bloom

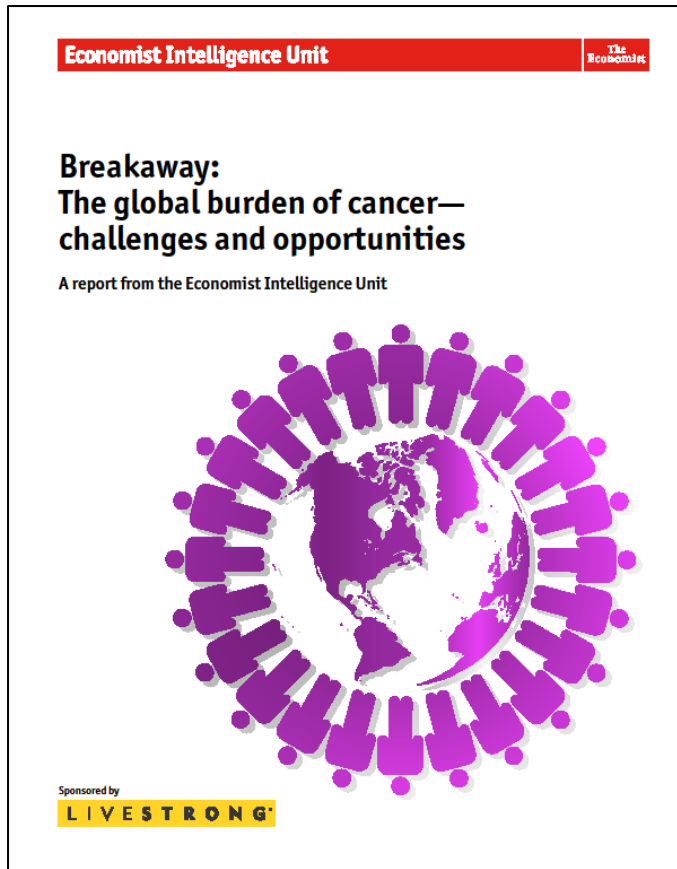
Harvard School of Public Health

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*Breast cancer in the developing world:
meeting the unforeseen challenge to
women, health and equity*



The global burden of cancer



- Updates estimates of cancer incidence for more than two dozen cancer sites for 2009.
- Projects estimates to 2020.
- Estimates the global economic burden of cancer for 2009.
- Identifies a global treatment expenditure standard and calculates the cancer funding gap.

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Cost of illness methodology: general framework

$$\text{COI} = (\# \text{ cases}) * (\text{PMCC/case}) + (\# \text{ cases}) * (\text{NMC/case}) + (\# \text{ cases}) * (\text{LI/case}) + \text{NPC} + \text{P\&S}$$

- PMCC: personal medical care costs
- NMC: non-medical costs
- LI: lost income
- NPC: non personal costs
- P&S: pain and suffering

For more information on the detailed methodology used in EIU report: <http://www.eiu.com/LAF>

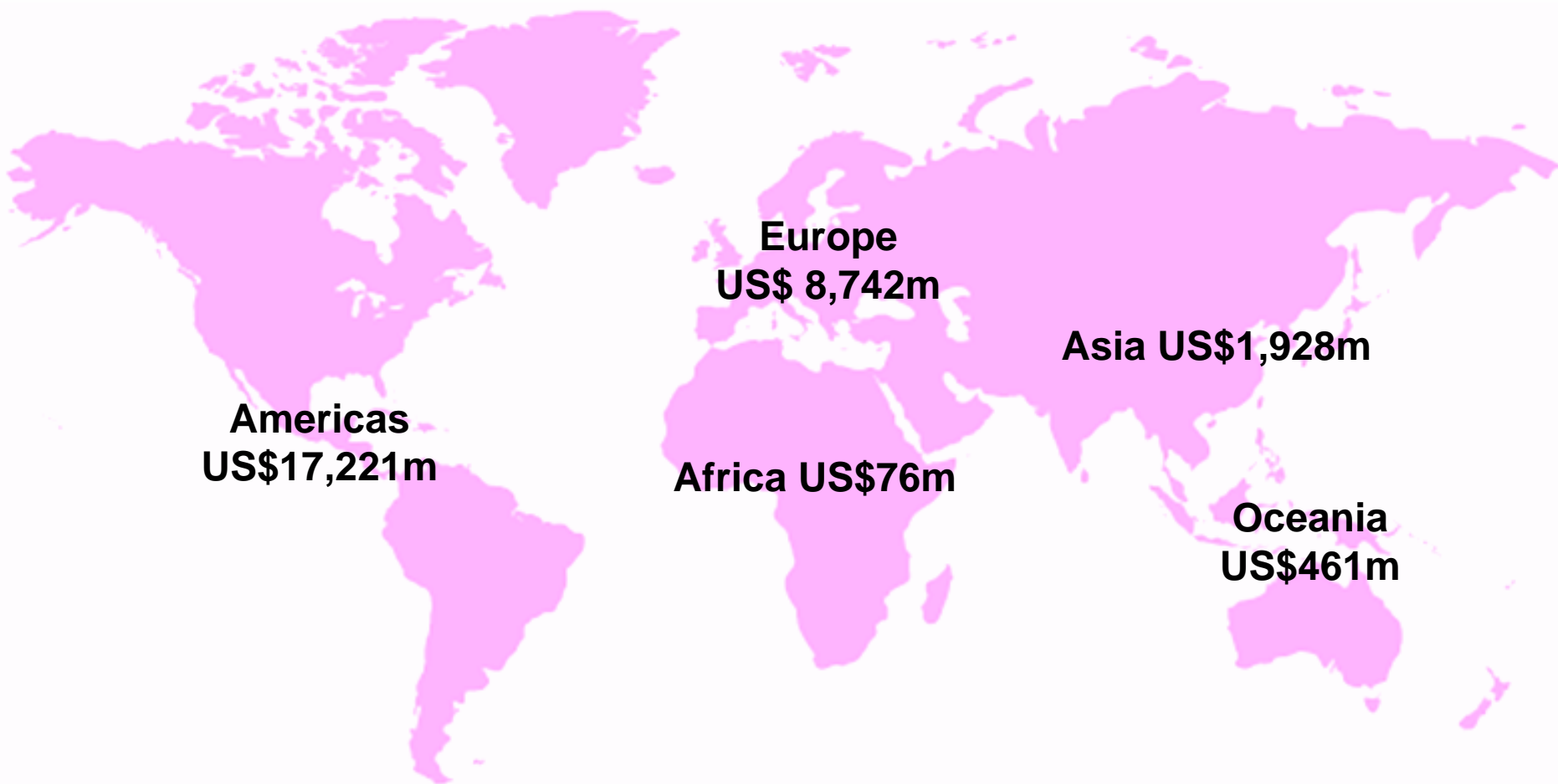
Breast cancer incidence by region, 2009

World	Africa	Americas	Asia	Europe	Oceania
Lung	Cervix	Prostate	Lung	Lung	Prostate
Breast	Breast	Breast	Stomach	Colorectal	Colorectal
Colorectal	Kaposi Sarcoma	Lung	Liver	Breast	Breast
Stomach	Liver	Colorectal	Breast	Prostate	Liver
Prostate	NH Lymphoma & Prostate	Stomach	Cervix & Esophagus	Stomach	Melanoma

10.5%
1.4m
new
cases

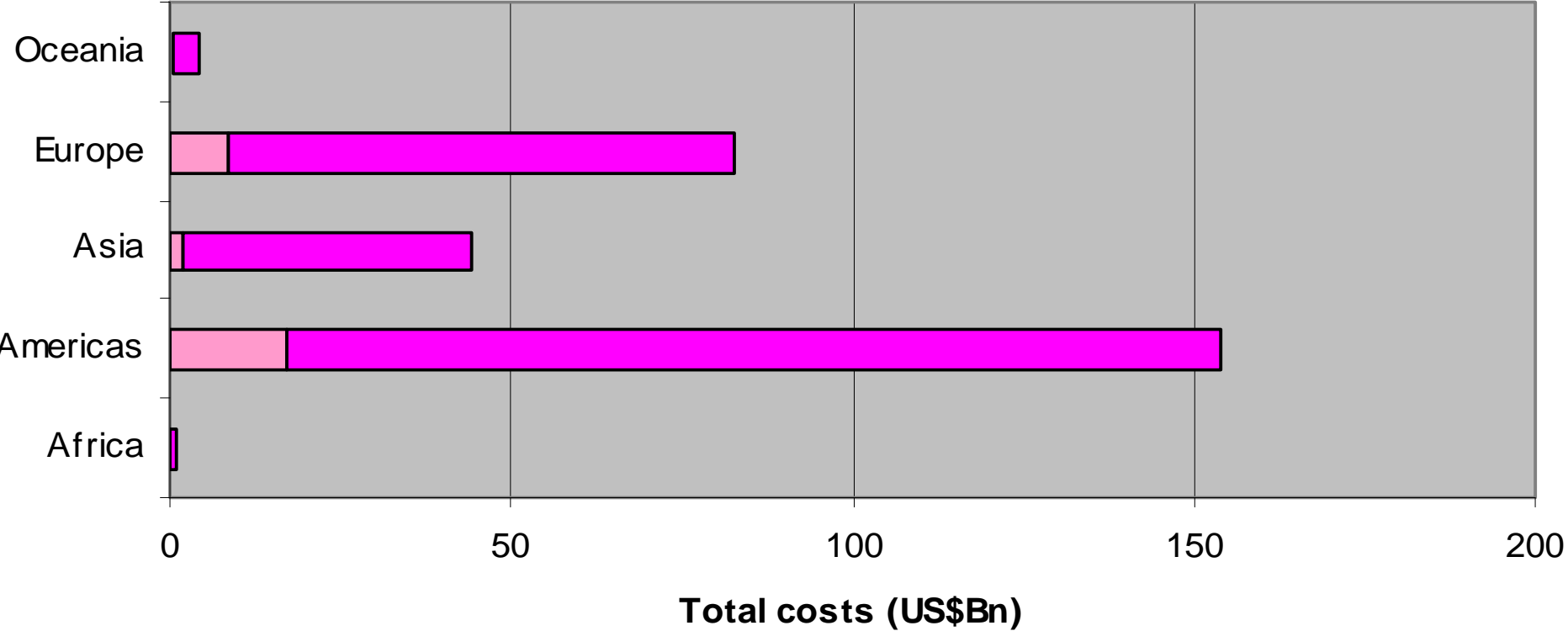
Source: Beaulieu, N., D. Bloom, et al. (2009). Breakaway: The global burden of cancer -- challenges and opportunities. New York, Economist Intelligence Unit Limited.

Total costs (\$m) of new breast cancer cases, by geographic region, 2009



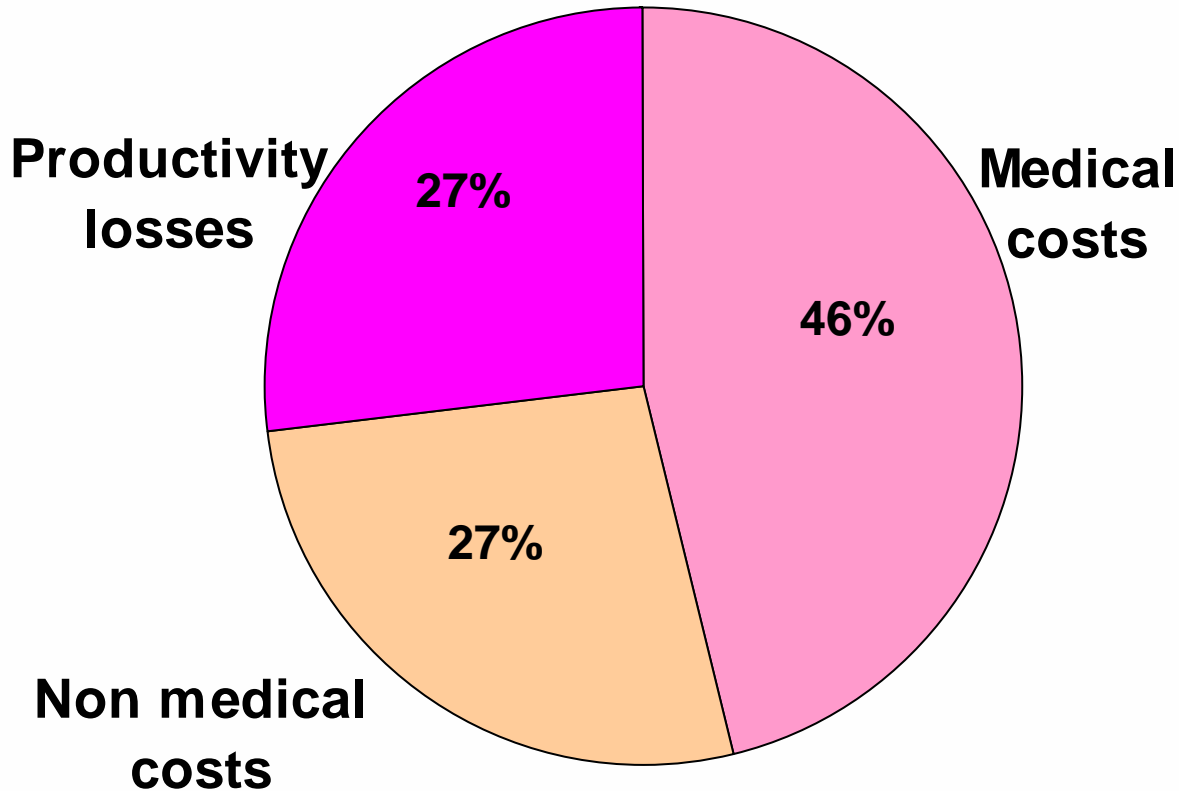
Global economic burden of breast cancer in 2009= US\$28bn

Total costs (US\$bn) of new breast cancer cases as portion of total cancer costs, by geographic region, 2009



Global economic burden of breast cancer in 2009= US\$28bn

Components of total cost of new breast cancer cases in year 1, 2009



Breast cancer case fatality rates(%), 2002

Who lives? Who dies?



Treatment expenditure gap

- Treatment expenditure standard defined by estimates of treatment and care costs associated with country that has lowest case fatality rate for each cancer site.
- Lowest case fatality rate: 18.8%
- \$30bn treatment expenditure gap for breast cancer.