

The burden and social determinants of occupational diseases

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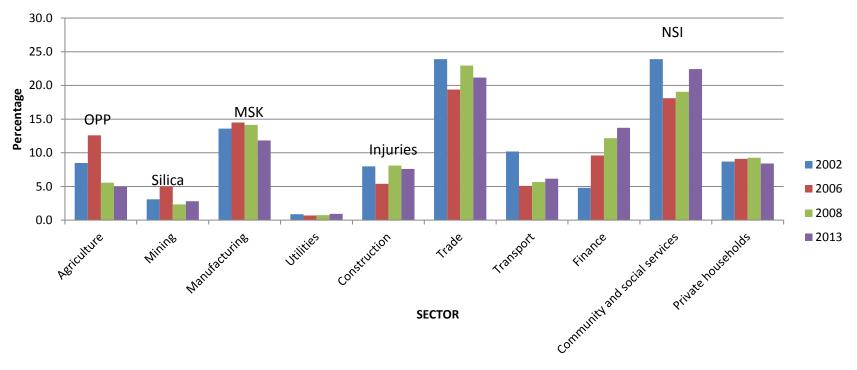
Occupational and Environmental Health (OEH)

- OEH integral part of Public Health
- The work-place is recognized globally as a key social-determinant of health
- Any separation of OEH from Public Health is artificial
- OEH is included as part of the Public Health fabric of health systems in developed and developing countries:
 - USA CDC and NIOSH
 - Public Health England
 - Public Health Foundation of India



A look across Economic Sectors

% of total employed by sector 2002 - 2013



- 15.3 million people go to work everyday, formal economy
- Occupational burden function of exposure intensity and duration
- Economic benefits to retain & build labour productivity
- This requires keeping workers healthy, working and out of poverty
- Requires understanding of exposure-disease pairs



Definition: Diseases contracted primarily due to

exposure to work related risk factors (WHO)

The WHO Global Plan of Action on Workers' Health:

- 1. Improving the diagnosis
- 2. Reporting and registration of occupational diseases
- 3. Building capacities for estimating the occupational burden of diseases



Social determinants of occupational diseases in SA include:

- 1. High unemployment
- 2. Extreme wealth inequalities
- 3. Conditions of Work
- 4. Decent Work Deficit
- 5. Work in the informal economy
- 6. Health inequalities
- 7. Education and skills level

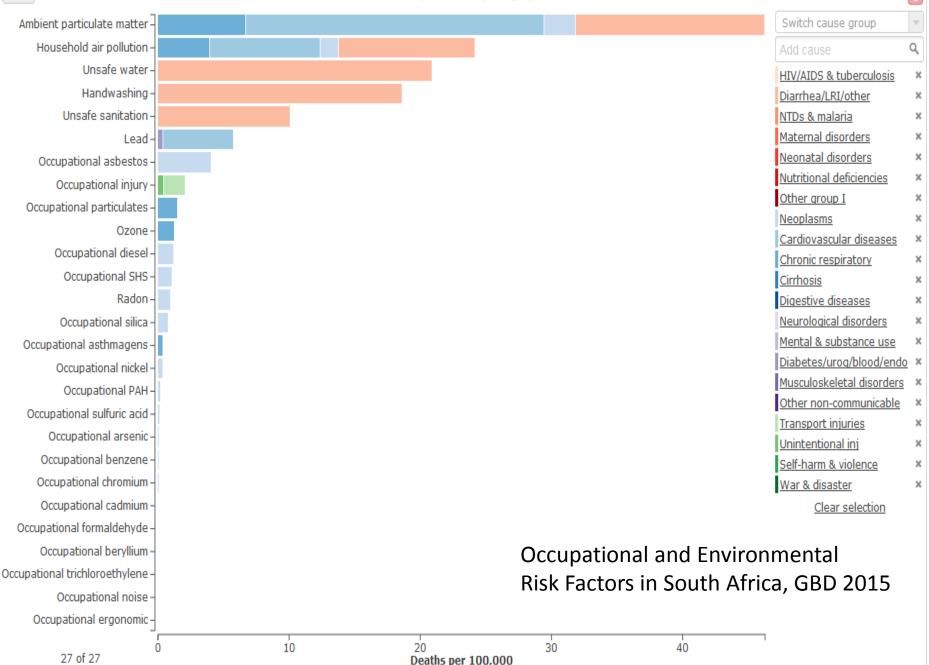


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Population Health Risk Factors

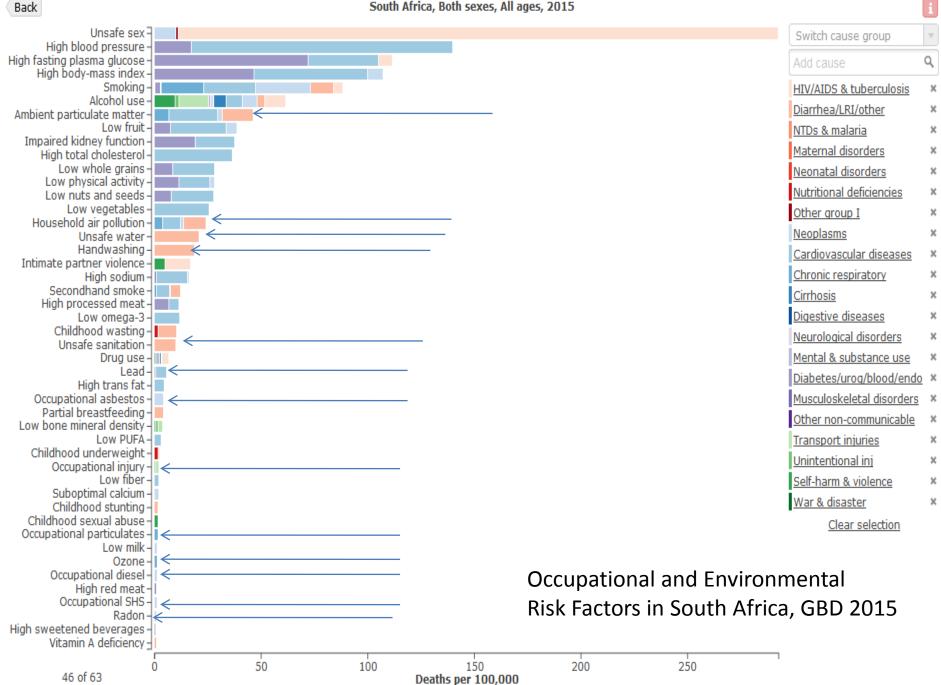
Global, Both sexes, All ages, 2015 v Switch cause group Q HIV/AIDS & tuberculosis × Diarrhea/LRI/other × Behavioral NTDs & malaria × Maternal disorders Neonatal disorders × Nutritional deficiencies × Other group I × Neoplasms × Cardiovascular diseases × Chronic respiratory × Cirrhosis × Digestive diseases × Neurological disorders Metabolic × Mental & substance use × Diabetes/urog/blood/endo × Musculoskeletal disorders × Other non-communicable × Transport injuries × Occupational Unintentional inj × risks a subset Self-harm & violence × War & disaster × Clear selection Environmental 2k 4k 8k 10k 0 6k 3 of 3 DALYs per 100,000

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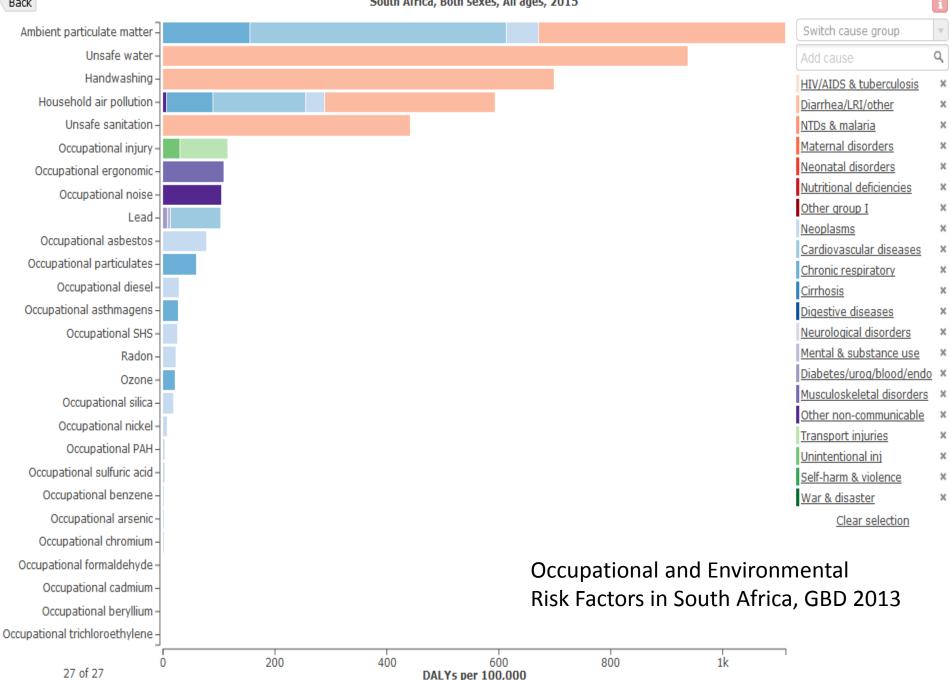
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South Africa, Both sexes, All ages, 2015

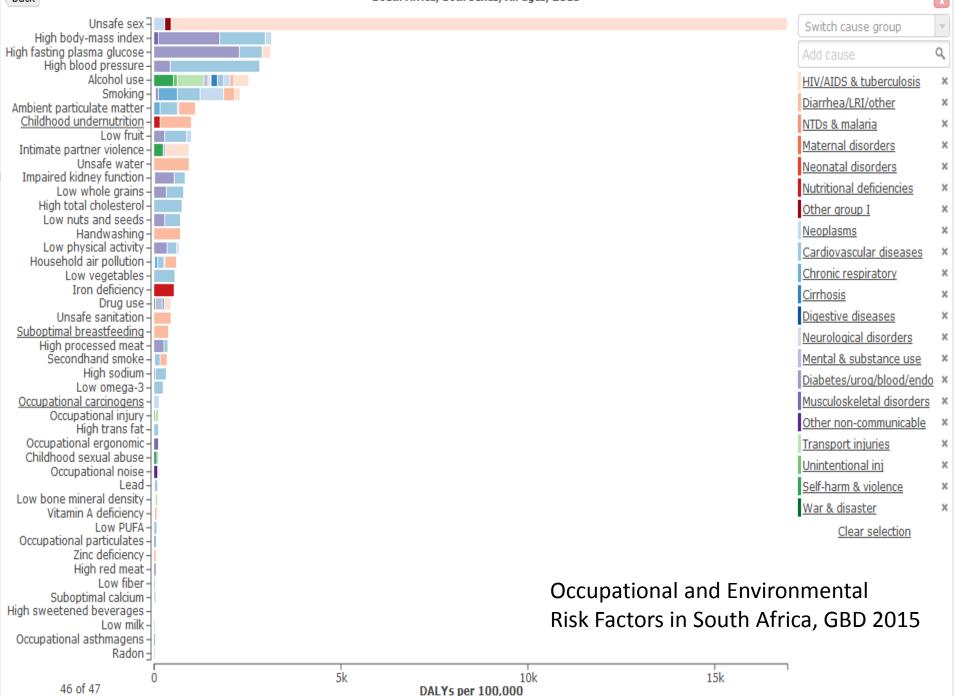


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South Africa, Both sexes, All ages, 2015



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Global Occupational Health and Safety (OHS) Statistics - ILO

- Every 15 seconds, a worker dies from a work-related accident or disease. Every 15 seconds, 153 workers have a work-related accident.
- Every day, 6,300 people die as a result of occupational accidents or work-related diseases more than 2.3 million deaths per year.
- 317 million accidents occur on the job annually; many of these resulting in extended absences from work.
- The human cost is vast and the economic burden of poor occupational OHS practices is estimated at 4 per cent of global Gross Domestic Product each year.



Occupational Tuberculosis

- TB is compensable for Health Workers exposed in workplace settings
- TB is compensable for workers exposed to silica dust in different industries eg mining and construction
- "There are 41,810 cases of active TB in South African mines every year. It is eight percent of the national total, and one percent of the population, very unfortunately,"
- "It is the highest incidence of TB in any working population in the world. It affects 500,000 mineworkers, their 230,000 partners, and 700,000 children." (Minister of Health 2014)





- Consolidate <u>focus on prevention</u> through surveillance and monitoring of <u>environmental</u> <u>and occupational risk factors</u>
- 2. Enable cross-functionality and <u>evidence</u> <u>informed policy for OEH</u>
- Align with <u>international</u> trends: work = social determinant of health
- 4. The World of Work can be utilized more optimally to prevent occupational and environmental exposures



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Thank you