

Intersectoral action with the agricultural sector for strengthening primary health care

WHO webinar, 29 November 2021

Worldwide, 1 out of every 4 workers is employed in agriculture

In 2020, about 874 million people were employed in agriculture,

87% of them in rural areas,

64% male, 36% female



Tunisia, Credit: WHO / Diego Rodriguez

Source: ILO Labour statistics, Employment, https://ilostat.ilo.org/topics/employment/

The determinants of workers' health in agriculture



Agriculture is among the most hazardous and unfair sectors

Most common occupational hazards

- Risks of accidents falls, cuts, burns
- Heavy physical workload, awkward postures
- Hazardous chemicals pesticides and fertilizers
- Thermal discomfort heat and cold stress
- Solar UV radiation
- Biological hazards bacteria, viruses, parasites, snake bites, venomous insects and plants

Most common occupational diseases

- Pesticide poisonings acute and chronic
- Infectious and parasitic diseases schistosomiasis, dengue, malaria, zoonoses
- Musculo-skeletal disorders

Social determinants of workers' health

- Precarious work –informality, piece work, seasonal contracts, labour migration
- Low levels of unionization
- Child labour, elderly
- Low income
- Lack of social protection
- Low level of education
- Insufficient access to affordable health services of decent quality.

Occupational zoonotic diseases

World Health Organization

Need for collaboration between occupational health and veterinary public health

Exposure to biological hazards

Presence of animals

- Farms, animal trade plants, fairs, markets, exhibitions, racecourses
- Animal transportation
- Mating and seminal material production centres
- Kennels, catteries, animal housing
- Surgeries and clinics
- Diagnostic laboratories (collection and analysis of biological samples, organs, carcasses)

Presence of products of animal origin

- Slaughter (also presence of animals)
- Meat processing
- Milk collection and transportation
- Production of cheeses, diary and egg products
- Collection. Transportation and processing of carcasses, waste of animal origin, by-products
- Maintenance of plants for animal waste depuration or recycling

Principal zoonoses in animal husbandry

Viruses and

Avian flu (in particular farming conditions)

prions

Bovine spongiform encephalopathy

Contagious ecthyma Newcastle disease

Rabies

Rift Valley fever

Tick-borne encephalitis

Bacteria Anthrax

Bovine tuberculosis

Brucellosis

Chlamydiosis (avian strains) Helicobacter pylori infection

Leptospirosis

Tetanus O fever

Salmonellosis

Streptococcus suis infection

Swine erysipelas

Fungi Cryptococcosis

Dermatomycoses

Histoplasmosis

Protozoa and metazoa

Cystic echinococcosis

Cryptosporidiosis

Larval ascaridosis
Toxoplasmosis

Source: Batelli, G. (2008) Zoonoses as occupational diseases, Veterinaria Italiana, 44 (4), 601-609

Occupational health services and primary health care

in rural areas



Advice for workplace improvements

- workplace visit for rapid risk assessment and advice
- health education of workers

Management of occupational diseases and injuries

- early detection and referral
- notification to employment injury benefit scheme,
- · treatment, counselling, surveillance

Preventive medical examinations of high-risk workers

- regular check-ups
- biological monitoring (insecticides)
- work capacity assessment

Source: World Health Organization. (2012). Connecting health and labour: bringing together occupational health and primary care to improve the health of working people: Global conference "Connecting health and labour: what role for occupational health in primary health care", the Hague, Netherlands, 29 November - 1 December 2011: executive summary. World Health Organization. https://apps.who.int/iris/handle/10665/124659



World Healif Organization



Cooperation between health and agricultural sectors for workers' health and safety



OneHealth needs to apply also to workers' health

Health

Occupational health and safety – occupational health services for farms and plantations, notification of occupational diseases and injuries, health surveillance of agricultural workers

Primary health care, community health – respond to the specific health needs of agricultural communities, first aid

Public health, epidemiology, infection prevention and control, environmental health – assessment of health risks from agricultural activities, disease control



Agriculture

Veterinarian public health – prevention and control of zoonotic diseases

Plant health and plant protection – safe use of pesticides and fertilizers

Agricultural technologies – safe machinery and processes, mechanization

Agricultural extension services – advice for health and safety at work

Grades and standards in agriculture – to take into account health and safety of workers



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Promoting healthy, safe and resilient workplaces for all



Protecting health and safety of health workers



Expanding health coverage to all workers



WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury