

# Hot Topic : The Tokyo Declaration on Prevention and Management of Work-Related Cardiovascular Disorders

Adopted by the Plenary of the Sixth ICOH International Conference on Work Environment and Cardiovascular Diseases under the auspices of the ICOH Scientific Committee on Cardiology in Occupational Health in Tokyo, Japan on 30 March 2013.

Cardiovascular disorders (CVDs) constitute a major burden for health of working populations throughout the world with as much as 50% of all causes of death and at least 25% of work disability. According to research data about 10 to 20% of all causes of CVD deaths among the working age populations can be attributed to work, i.e. are work-related. The loss of work days and work ability is likely to be substantially greater.

While CVD mortality is declining in developed countries, trends in incidence and prevalence are not parallel across age- and gender-groups, geographical areas, sectors of the economy or among certain occupational groups. In industrialized countries, while CVD mortality and myocardial infarction incidence are decreasing, some data indicate that if the acute coronary syndrome are included in the endpoint, the trends get flat, having as a net effect the increase in prevalence of the chronic forms of the disease, with its consequences in terms of returns to work.

Also there are some changes in CVD incidence among occupational classes. This is mainly due to the new types of work-related causes of morbidity associated with the recent developments in global work life; particularly in the industrialized countries, which give rise to psychosocial and physical risk factors in the work environment such as growing competition and time pressures, productivity pressures, continuous organisational changes, re-engineering and downsizing, lean production, job insecurity and threat of unemployment, introduction of new technologies and increase of sedentary work, changing patterns of working hours and partially extensive working hours. Meanwhile, in the developing countries or those in transition (e.g., Eastern Europe), CVD mortality is increasing due to major socioeconomic changes, the demographic transition

and rapid industrialisation and urbanisation all leading to growing challenges to cardiovascular health.

Ageing of working populations and life style risk factors such as low-level physical activity during leisure time enhance the risk of CVDs and are often in complex interaction with the work-related factors. For example, certain working conditions may be important determinants of obesity, due to sedentary labour and promotion of unhealthy behaviours at work (e.g., stress-related eating) and through them, determinants of workers' cardiovascular health as well.

Available research data suggest that about 80% of CVD mortality is preventable if the existing knowledge could be effectively used for system-wide implementation of prevention and health promotion programmes. Some countries have shown convincing examples of such system-wide impact.

The obstacles of achieving such wide-scale impact are less due to lack of knowledge or standardised methods than to lack of awareness, lack of policies and their implementation into practice and shortage of infrastructures and human resources needed for wide-scale and long-term programme implementation.

Considering the WHO Global Strategy on Occupational Health for All, the WHO Global Action Plan on Workers' Health, the WHO Programme on Prevention of Non-communicable Diseases and the ILO Decent Work agenda, the 171 participants of the Sixth ICOH Conference on Cardiology in Occupational Health Conference, coming from 28 countries, agreed to declare the following:

## 1. Burden of CVD

Working people throughout the world are heavily burdened by CVD in general and work-related cardiovascular disorders in particular leading to loss of health, productive working years, work ability, quality of life years and of economic values.

## 2. CVD is Preventable

A major part of workers' cardiovascular disorders is preventable on the basis of available research evidence and knowledge. Such prevention needs long-term strategies and programmes and support from all levels of the system, starting from the policy level and extending to the level of the health sector and company management, academia, occupational health practitioners, workers and employers.

## 3. Prevention Programs

As risk factors for cardiovascular morbidity of workers develop from many sources; including non-modifiable genetic and age-related factors, occupational factors, lifestyle and behavioural factors and social determinants, therefore prevention strategies need to be designed to target these multiple factors in the context of comprehensive multidisciplinary programmes.

## 4. System-wide Prevention Needed

Effective prevention of work-related cardiovascular disorders needs a system-wide approach utilizing as much as possible existing and permanent infrastructures covering the whole working population and serving particularly those most in need, especially small-scale and micro enterprises, self-employed, rural workers and those workers in the informal sector. It is the public sector responsibility to ensure that such services be made available for all workers.

## 5. Future Research Needs

In addition to implementing existing research, new research efforts are needed to identify and assess emerging and developing risks related to the rapid changes of modern work life also affecting cardiovascular health of workers, such as continuous work overload, low control especially with high demand, low reward for high effort, job insecurity,

lean work systems, sedentary work and their health consequences and operating mechanisms. Development of new indicators for assessment of new complex exposures and their health effects is warranted. More research is also needed on implementation of research knowledge into work life practice, health services research on occupational health services, including evaluation of impact from policies and practices.

## 6. High Risk Workers

Work-related cardiovascular disorders among workers of developing countries, small enterprises, agricultural workers and workers in the informal sector require special research efforts in order to measure the dimensions of morbidity and its impact on the populations of concern.

## 7. Public Database Needed

Data and information systems, including those related to cardiovascular health should be made available for research purposes where appropriate. Long-term sustainability of such registries should be ensured. Multisectorial and international collaboration and linkages of such data should be enabled and encouraged within the limits of the ethical principles and regulations regarding protection of confidential personal data.

## 8. Training in Occupational Risk for CVD

Health sector practitioners, including general practitioners, clinicians, occupational health experts, as well as researchers, should be given more training on the work-relatedness of cardiovascular disorders and their impact on the health and work ability of working populations, work life in general and on their economic dimensions. Training of sufficient human resources for occupational health services needed for implementation of research knowledge into practice is encouraged.

# Report from the ICOH 2015 Congress Secretariat:

## 9. Need for Evidence Based Prevention and Treatment Guidelines

Evidence-based and feasible methods, guidelines and good practices should be developed for use in occupational health services and at the grassroots level for prevention and management of work-related cardiovascular disorders and other newly recognized health outcomes among workers. This will require a more rigorous research methodology, including registration of workplace interventions, to assess their effectiveness.

## 10. Commitment of ICOH Scientific Committee on Cardiology in Occupational Health

The ICOH 2013 Conference through the ICOH Scientific Committee on Cardiology in Occupational Health is committed to continue research and related efforts for identification, assessment and prevention of work-related cardiovascular disorders. Likewise, our commitment will involve collaboration with other relevant ICOH Scientific Committees and other partners who may work in the field of work and cardiovascular health.

On behalf of the Sixth International Conference on Work Environment and Cardiovascular Diseases,

**Chairman : Professor Akizumi Tsutsumi**  
**Secretary : Dr. Jian Li**

Since the 31<sup>st</sup> Congress in Seoul was declared at the ICOH 2009 Congress in Cape Town, South Africa, the ICOH 2015 Congress Secretariat which is established at Korea Occupational Safety and Health Agency (KOSHA) has been busy preparing for a fruitful Congress. Let's trace back to the past three years and see the near future for the ICOH 2015 Congress.

In April 2010, KOSHA on behalf of the Local Organizers signed a contract with the Commission of ICOH Congress to fulfill its function as the Secretariat and officially took over the Secretariat in ICOH 2012 in Cancun, Mexico. Thus, the ICOH 2015 Secretariat was launched at KOSHA, in Incheon, Korea in March 2012 and started its job by making promotional film for the ICOH 2015 Congress. A year later in Seoul, Korea, members of ICOH International Organizing Committee (IOC) and members of the ICOH 2015 Secretariat had the first preparation meeting to make a plan for 2015 Congress. Both agreed on the blueprint of 2015 Congress including registration, composition of committees, grant program for developing countries participants, speakers invitation, etc.

### Key agreement on ICOH 2015 Congress between ICOH-KOSHA on behalf of the Local Organizers

#### 1. Registration | Registration Fee |

Category	Member		Non-member		Accompanying Person
	Participant	Developing country, Young person APOSHO member	Participant	Developing country, Young person	
<b>Before May 31, 2014</b>	USD 600	USD 300	USD 700	USD 400	USD 100
<b>Before Jan 31, 2015</b>	USD 700	USD 350	USD800	USD 450	USD 150
<b>Before April 30, 2015</b>	USD 900	USD 450	USD 1,000	USD 550	USD 150
<b>On-site</b>	USD 1,000	USD 500	USD 1,100	USD 600	USD 200
<b>1-day</b>	USD 200		USD 220		

\* Young person : under 36 years of age

#### 2. Committees

- IOC (International Organizing Committee) consists of the same number of members from ICOH and ICOH 2015 Organizer.
- IAC (International Advisory Committee) will be appointed by the ICOH President
- ISC (International Scientific Committee) will be chaired by Prof. Bonnie Rogers.
- HC (Honorary Committee) consists of previous ICOH Presidents and ICOH Congress Presidents and is appointed by the ICOH President.
- TC (Trustees Committee) will be consisted of 4 or 5 persons from ICOH or non-ICOH members
- SDCC (Support Developing Country Committee) will be chaired by Suvi Lehtinen.
- NOC (National Organizing Committee) and NSC (National Scientific Committee) will be constructed by ICOH 2015 Organizer.