

## The OH status of Guangdong Province, China and sharing our achievements together

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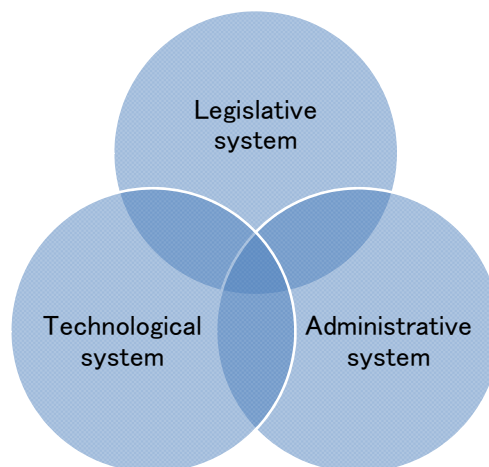
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## National Profile on Occupational Health in China



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## Legislative system

- National People's Congress
  - Promulgates laws
- National Government
  - Promulgates national regulations
- Provincial People's Congress
  - Promulgates local regulations
- Ministry of Health and State Administration of work Safety
  - Promulgates national rules
- Provincial Government
  - Promulgates local rules

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## Major laws on OH

- Law of Occupational Disease Prevention and Control of the People's Republic of China
- Labor Act of the People's Republic of China
- Law of Employment Contract of the People's Republic of China
- Law of Work Safe of the People's Republic of China
- Law on Promotion of Small and Medium-sized Enterprises of the People's Republic of China
- Law of on Promoting Clean Production the People's Republic of China
- Law of Employment Promotion of the People's Republic of China

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## Major regulations on OH

- Regulation of Pneumoconiosis prevention and Treatment
- Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used
- Work-related Injury Insurance Regulations
- Regulation of safe and protection on radioisotopes and radiation equipment
- Interim Provisions on Promoting Industrial Structure Adjustment
- Regulation of Work Safe Supervision
- Regulation on the Implementation of the Employment Contract Law

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## Major rules on OH

- List of Occupational Diseases
- List of Occupational Hazardous Agencies Classification
- Administrative Measures on Occupational hazardous projects declaration
- Administrative Measures on classification of Construction Projects with occupational hazards
- Administrative Measures on Occupational Health Surveillance
- Administrative Measures on Occupational Diseases Diagnosis and Appraisal

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- Measures on Investigation and Settlement of occupational hazardous accidents
- Administrative Measures on National Occupational Health standards
- Administrative Measures on occupational health technical service institutions
- Catalog of Highly Toxic Articles(2003 Edition)
- Administrative Measures on occupational health of radioactive workers

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## Administrative system

- National level
- Provincial level
- City level
- County level

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## Administrative system of OH

- State Administrative of Work Safety
  - Workplace management
  - Inspection
- Ministry of Health
  - Health surveillance
  - Diagnosis of occupational disease
  - Occupational health standards

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## Technological system

### National level

Occupational health(OH) institute of National CDC

### Provincial level

Hospital for Occupational Disease Prevention and Treatment  
OH department of provincial CDC

### City level

Hospital (or institute) for Occupational Disease Prevention and Treatment  
OH department of city CDC

### County level

OH department of county CDC

### Township level

OH department of township hospital

### Town or Community Level

OH workers of medical care center

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## The OH status in Guangdong Province , China

- Population: >100 million
- Industrial enterprises : 2 million
- Workers exposed to occupational hazards: 6 million
- OH technology Organizations: 176
- OH technologist: >2000

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## The major occupational hazards

- 有机溶剂 ( organic solvents )
  - 正己烷 (n-hexane), 有机锡(organic tin), 三氯乙烯 (Trichloroethene), 二氯乙烷(Chloroethane)
  - 苯 (Benzene)
- 粉尘(dust)
- 金属毒物 (metallic toxicants )
  - Lead铅, mercury汞, Cadmium镉, Chromium铬
- 物理因素(physical factors)
  - 噪声(noise), 振动(vibration)

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### 新发现20多种职业病

#### More than 20 new-found occupational diseases

- 正己烷中毒 (n-hexane)
- 有机锡中毒 (organic tin)
- 三氯乙烯药疹样皮炎 (Trichloroethene dermatitis)
- 二氯乙烷中毒 (Chloroethane)
- 间氟苯酚中毒 (m-Fluoro phenol)
- 三氯甲烷中毒 (Chloroform)
- 乙硫醇中毒 (Ethyl mercaptan)
- 砷化氢中毒 (Hydrogen arsenide)
- 五氧化二钒中毒 (Vanadium pentoxide)
- 醋酸乙烯酯中毒 (Vinyl acetate)
- 磷酸三甲苯酯中毒 (TOCP)
- 二甲基甲酰胺中毒 (DMF)
- 2-丁氧基乙醇中毒 (2-Butoxyethanol)
- 职业性甲醇中毒 (methyl alcohol)
- 铬鼻病 (chromium induced nasal disease)
- 沥青肺癌 (lung cancer induced asphaltum)
- 铬酸盐肺癌 (lung cancer induced chromate)
- 砷所致肺癌 (lung cancer induced arsenic)
- 五金厂工人滑囊炎 (Bursitis in metal factory)
- 振动病 (Vibration)

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## The Ability of Emergency Response

- To treat 10-20 accidents of serious occupational poisoning every year
- Finished more than 100 cases of scene investigation and rescue on poisoning (not occupational) every year
- Finished diagnosis on occupational diseases about 700 cases every year
- Successful curing some cases induced by n-hexane, benzene, trichloroethene, organic tin, organic fluoride, etc.
- Rescued 3000 serious poisoning cases for 10 years
- Developing occupational disease prediction

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## Co-operation and exchange

### International cooperation

- ILO
- WHO
- Ministry of Health, Thailand
- Nagoya U., Japan: skin and liver serious damage caused by trichloroethene
- NCI, US: benzene, trichloroethene, formaldehyde on cancer
- US UCB, US: biosample collection and storage
- Griffith U., Australia
- Canada international training foundation, Canada

### • National cooperation

- National CDC, China
- Sun Ye-sen U
- Middle China U.
- Shanxi U.
- Beijing U.
- South Med. U
- Hong Kong Opening U.

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## What we can do for ANOH?

- 新发职业病信息( information on new-found occupational diseases )
  - 流行病学(OH epidemiological data), 毒理学研究(toxicology research), 临床治疗(clinic treatment method)
- 职业健康管理新政策(new policy for OH)
- 职业健康教育材料(data for occupational health education and training )
  - 书(book), 宣传册子(brochures), 媒体(media)
- 职业危害识别技术及通风工程技术分享(sharing the technologies in identification of occupational hazards and Ventilation engineering)
- 职业卫生研究新进展 (OH research progress)
  - Exposure Assessment for Nanoparticles-- *calcium carbonate( CaCO3)*
  - Exposure Assessment for physical factors—*vibration , optical radiation (biological marks)*

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**THANK YOU !**