
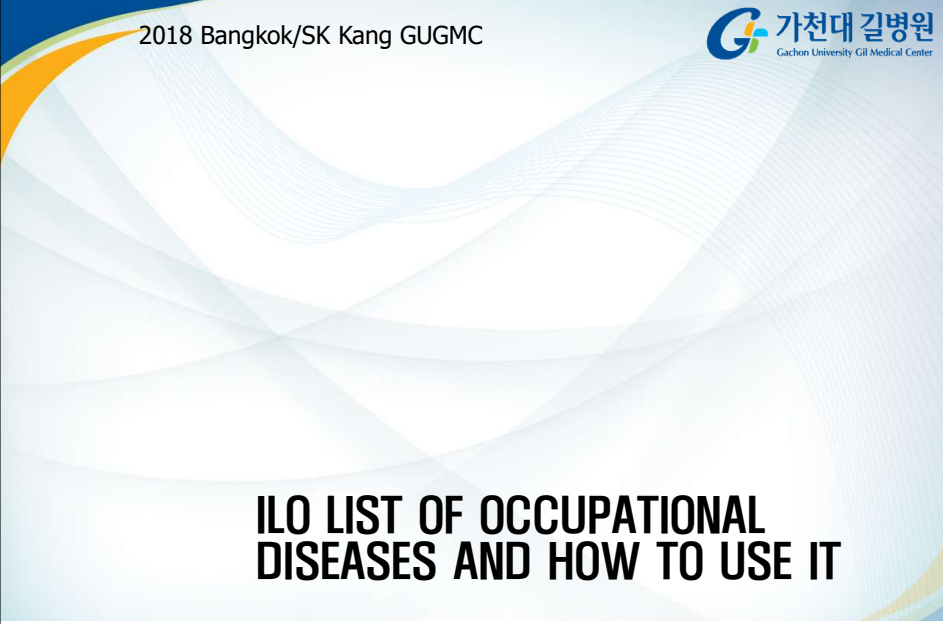
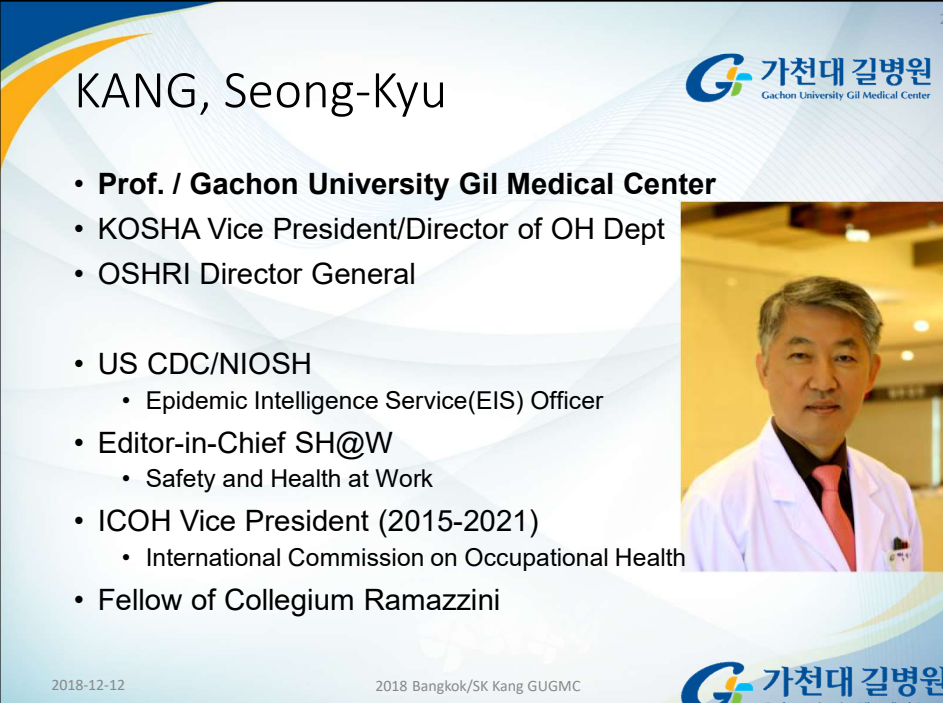


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ILO LIST OF OCCUPATIONAL DISEASES AND HOW TO USE IT

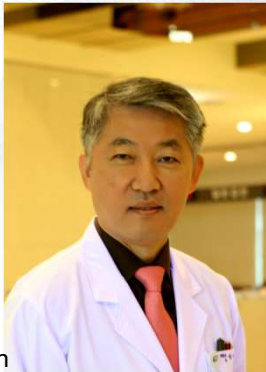
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KANG, Seong-Kyu



- **Prof. / Gachon University Gil Medical Center**
- KOSHA Vice President/Director of OH Dept
- OSHRI Director General
- US CDC/NIOSH
 - Epidemic Intelligence Service(EIS) Officer
- Editor-in-Chief SH@W
 - Safety and Health at Work
- ICOH Vice President (2015-2021)
 - International Commission on Occupational Health
- Fellow of Collegium Ramazzini



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Contents

- ILO LIST of Occupational Diseases
 - Historical changes
 - The List
- Occupational Diseases List in Korea
 - The List
 - Statistics
 - Application
- Occupational Disease List in Germany
 - List and statistics

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Occupational Disease Work-related Disease

Triggered by work	Social Consensus
Aggravating by work	
Arising from work	Causal Relationship

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What is the Purpose of having the Occupational Diseases List/Diagnostic criteria?

- Compensation
 - ✓ Employers' Liability
 - ✓ Social Security
- Prevention
 - ✓ Prevention of Definite Occupational Disease
 - ✓ Precautionary Action for hazardous substances/conditions

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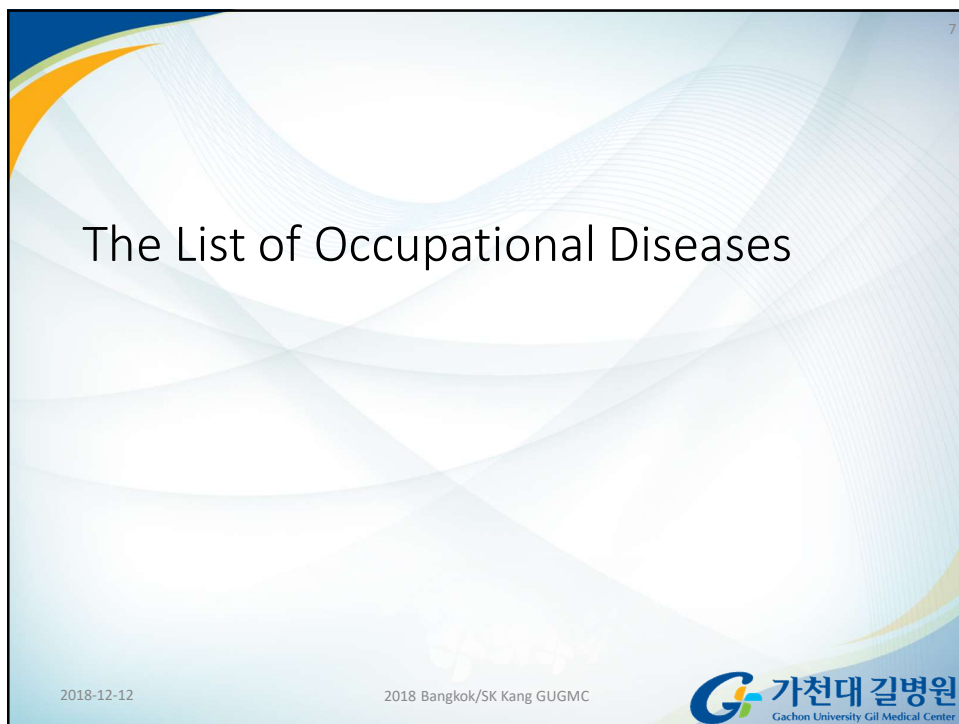
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What is the Workers' Compensation Insurance?

- Employers' Responsibility Insurance
 - ✓ Reward for the loss by having a disease
 - ✓ Proof of the causal relationship
- One of the Social Security System
 - ✓ Secure workers' livelihood
 - ✓ Broad concept for the definition of occupational diseases

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ILO Recommendation

Occupational Disease

R3, R4, 1919. Anthrax, Lead
C18, 1925. Anthrax, Lead, Mercury
C42, 1934. Anthrax, Lead, Mercury 10 items
C121, 1964. Anthrax, Lead, Mercury 15 items
C121, 1980. Anthrax, Lead, Mercury 29 items
R194, 2002. Anthrax, Lead, Mercury 70 items
R194, 2010. Anthrax, Lead, Mercury 80 items


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1st Stage (1919-1964)

❖For Acute Diseases

- 1919 ILO Recommendation for Prevention
 - **R003 - Anthrax Prevention Recommendation, 1919**
 - **R004 - Lead Poisoning (Women and Children) Recommendation, 1919**
- 1925 ILO Convention for Compensation
 - **C018 Workmen's Compensation(Occup. Diseases) Convention, 1925**
 - Anthrax, Lead, Mercury poisoning
- 1934 Revised the Convention
 - **C042 Workmen's Compensation(Occupational Diseases)Convention (Revised)**
 - Anthrax, Lead, Mercury, Phosphorous, Arsenic, Benzene, Halogenated hydrocarbon, radiation, silicosis, primary skin cancer, radiation (10)

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International Labour Organization

Presenting jobs, protecting people

Regions: Meetings and events, Programmes and projects, Publications, Labour standards, Statistics and databases

NORMLEX Information Systems on International Labour Standards

C018 - Workmen's Compensation (Occupational Diseases) Convention, 1925 (No. 18)
Convention concerning Workmen's Compensation for Occupational Diseases (Entry into force: 01 Apr 1927)
Adoption: Geneva, 7th ILC session (10 Jun 1925) - Status: Outdated instrument (Technical Convention)

Search | User guide

Display the list of instruments by: Conventions and Recommendations by subject and status

Go to article

The Convention

Having been adopted by the International Labour Conference at its 7th Session, Geneva, 1925, and having been ratified by the following States:

Having been adopted by the International Labour Conference at its 7th Session, Geneva, 1925, and having been ratified by the following States:

Key documents

Notification of ILO Conventions

Supervising the application of International Labour Standards

Regular reporting

Country profiles

Comparatives

NATLEX National Legislation on Labour and Social Rights

EPLEX Employment protection legislation database

Compendium of court decisions

1. Each State ratifies the Convention and undertakes to apply it to all persons employed in the industry or profession concerned.

2. The ratifying States shall, in accordance with the provisions of the Convention, take the necessary measures to ensure that the Convention is fully applied to all persons employed in the industry or profession concerned.

Schedule

List of diseases and toxic substances	List of corresponding industries and processes
Poisoning by lead, its alloys or compounds and their sequelae.	<p>Handling of ore containing lead, including fine shot in zinc factories.</p> <p>Casting of old zinc and lead in ingots.</p> <p>Manufacture of articles made of cast lead or of lead alloys.</p> <p>Employment in the polygraphic industries.</p> <p>Manufacture of lead compounds.</p> <p>Manufacture and repair of electric accumulators.</p> <p>Preparation and use of enamels containing lead.</p> <p>Polishing by means of lead files or putty powder with a lead content.</p> <p>All painting operations involving the preparation and manipulation of coating substances, cements or colouring substances containing lead pigments.</p>
Poisoning by mercury, its amalgams and compounds and their sequelae.	<p>Handling of mercury ore.</p> <p>Manufacture of mercury compounds.</p> <p>Manufacture of measuring and laboratory apparatus.</p> <p>Preparation of raw material for the hatmaking industry.</p> <p>Hot gilding.</p> <p>Use of mercury pumps in the manufacture of incandescent lamps.</p> <p>Manufacture of fulminate of mercury primers.</p>
Anthrax infection.	<p>Work in connection with animals infected with anthrax.</p> <p>Handling of animals carcasses or parts of such carcasses including hides, hoofs and horns.</p> <p>Loading and unloading or transport of merchandise.</p>


2nd Stage (1964-2001)

❖ Included chronic disease

- C121 Employment Injury Benefits Convention
 - Schedule 1 List of Occupational Disease (1965)
 - 1964: 15 items (Be, Cr, Mn, CS2)
 - 1980: 29 items
- List of Occupational Diseases
 - Chemical Substances (16)
 - Physical Agents (noise, vibration, compressed air, ionizing radiation)
 - Infection (Anthrax)
 - Respiratory Disease (pneumoconiosis), byssinosis, metal dust, asthma, allergic alveolitis)
 - Skin diseases
 - Cancer (skin cancer, mesothelioma)

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Recommendation No 121

- R121 Employment Injury Benefit Recommendation (1964)

- (1) Each Member **should**, under prescribed conditions, **regard diseases** known to arise out of the exposure to substances or dangerous conditions in processes, trades or occupations **as occupational diseases**.
- (2) Unless proof to the contrary is brought, there should be a presumption of the occupational origin of such diseases where the employee--
 - (a) was exposed for at least **a specified period**; and
 - (b) has developed symptoms of the disease within **a specified period following termination** of the last employment involving exposure.

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Definition (ILO Encyclopaedia)

- Occupational Diseases
 - Diseases due to occupation
- Work-related Diseases
 - **Diseases aggravated by work or having a higher incidence owing to conditions of work**
- Non-Occupational Diseases
 - Diseases from conditions having no connection with work

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3rd Stage (2002-)

❖ Beyond the compensation

- New Challenges
 - Emerging risk : chemicals, biological risk, ergonomic risk, allergens
- Changing the structure of industry
 - From manufacturing to service sector
 - New industry (IT)
- A list based on diversity (beyond the compensation)
 - Risk based : chemical, physical, biological
 - Organ bases : respiratory, skin, musculoskeletal disorders
 - Cancer (referred to the IARC classification)
- R194 (ILO list of Occupational Diseases Recommendation)
 - Recommendation concerning the list of occupational diseases and **the recording and notification** of occupational diseases, 2002 (68+2)
 - Revised in 2010 – mental diseases

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Revision of ILO List (2010)

- Exposure to agents
 - Chemical
 - Physical
 - Biological
- Target Organ System
 - Respiratory diseases/ Skin /Musculoskeletal
 - **Mental**
- Cancer

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List of Occupational Diseases (ILO2010)

- Diseases by agents (57)
 - Chemical/physical/biological agents
- Diseases by target organs (26)
 - Respiratory (12)/ skin diseases (4) / musculoskeletal disorders (8) / Mental disorders (2)
- Occupational cancers (21)
 - Carcinogenic agents
- Others (1)
 - Miner's nystagmus

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Occupational Diseases by Exposure to Agents

- Diseases by Chemicals(41)
 - beryllium, **cadmium**, phosphorus, **chromium**, **manganese**, arsenic, **lead**, **mercury**, fluorine, vanadium, antimony, **nickel**, thallium, osmium, selenium, copper, platinum, tin, zinc,
 - **Benzene**, hexane, organic solvents, CS₂, **Halogen derivatives**, alcohols, nitro, amino-derivatives, nitroglycerine, acrylonitrile, NO_x, SO_x, mineral acids, phosgene, benzoquinone, ammonia, **isocyanates**, pesticides, latex, chlorine,
 - **Asphyxiant**(CO, H₂S), other chemical agents
- Diseases by physical agents (7)
 - Noise, vibration, compressed/decompressed air, ionizing radiations, optical radiations, temperatures, other physical agents
- Biological agents(9)
 - Brucellosis, HVB, HIV, tetanus, tuberculosis, toxic inflammatory syndrome, anthrax, leptospirosis, other biological agents

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Occupational Diseases by Target Organ Systems


- **Respiratory Diseases (12)**
 - Pneumoconiosis(fiber, non-fiber)/Silicotuberculosis/Siderosis/ metal fume fever/Byssinosis/Asthma/allergic alveolitis/ COPD/ lung diseases by aluminium/ Upper airways disorders by sensitizers/other respiratory diseases
- **Skin diseases (4)**
 - Allergic Contact Dermatoses/Irritant contact Dermatoses/ Vitiligo/ other skin diseases
- **Musculoskeletal disorders (8)**
 - De Quervain's tenosynovitis, Chronic tenosynovitis of hand and wrist, Olecranon bursitis, Pre-patellar bursitis, Epicondylitis, Meniscus lesions, CTS, other musculoskeletal disorders
- **Mental and behavioral disorders**
 - PTSD/Other mental or behavioral disorders

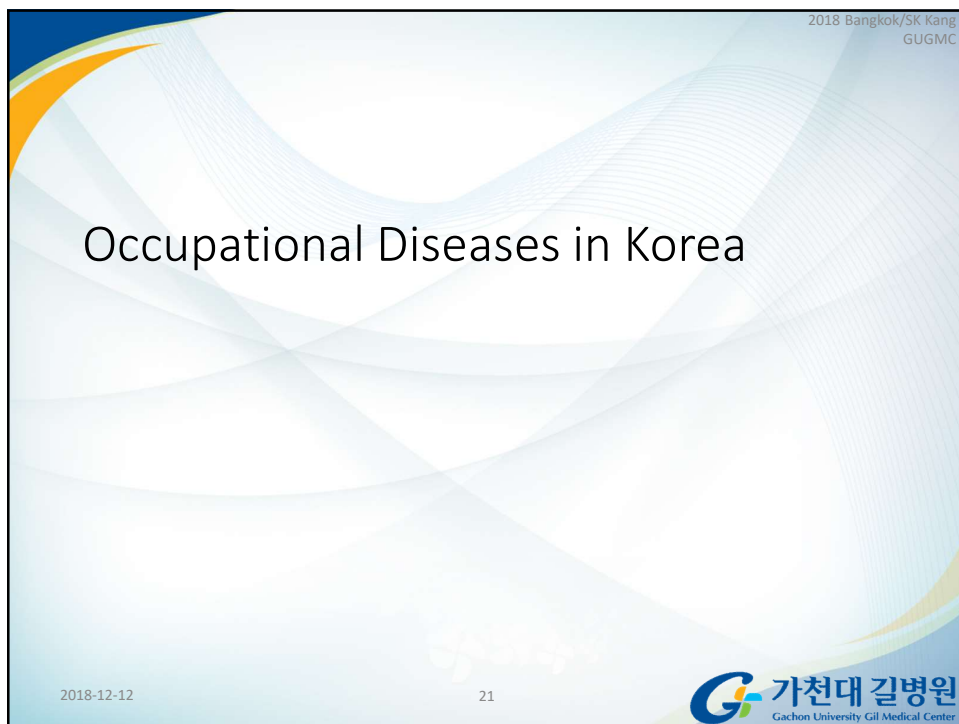
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Occupational Cancer

organ	type	agents
Respiratory	Lung cancer	Asbestos, COE, Chromium, Nickel, Beryllium, bis(chloremthyl)ether, tar, pitch, cadmium, Arsenic
	Nasal cancer	Wood dust
	Mesothelioma	Asbestos
Hematopoietic	Leukemia	Benzene, ionizing radiation, ethylene oxide
Skin	Melanoma	Coal tar pitch
Liver	Hepatocellular carcinoma	Hepatitis Virus (B,C)
	Hepatic angiosarcoma	Vinyl chlorides
Bladder	Bladder cancer	Benzidine, beta-naphthylamine

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How to decide Occupational Diseases

- If they are on the List
 - Determined by the Prescribed List
 - Refer the Diagnostic Criteria
- If they are not on the List or criteria
 - Determined case by case by investigation
 - Worker (individual and similar group)
 - Work Environment (past and present)

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How to decide?

❖ 2 steps

- Scientific Judgment
 - Previous studies
 - Probability of Causation
 - By professionals (doctors, epidemiologists, hygienists)
- Social Judgment
 - Social Consensus/by the court
 - Social pressure: Trade Union/ NGO
 - By social welfare professionals (lawyer, social welfare)

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History of Diagnostic Criteria in Korea

- Guideline (1981-1995)
 - Major Revision (1993,4)
 - 22 criteria
 - Cardio-cerebrovascular disease due to work stress
- Enforcement Regulation (1995-2008)
 - Major Revision (2003)
 - 24 criteria (dermatitis, hepatitis)
 - New findings (SJS, Systemic sclerosis)
- Enforcement Decree (2008-)
 - Major Revision (2013)
 - Rearranged by organ system (12 organs)

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Major component of Diagnostic Criteria

- Exposure
 - Duration, intensity
- Disease
 - Diseases entity (ICD) (not just symptoms and signs)
 - Biological feasibility (target organ)
- Social Consensus
 - Occupational stress or long working hours
 - Hematopoietic and rare diseases in semiconductor and LCD manufacturing industries. (generous acceptance without epidemiologic investigation under certain conditions since 2018)

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Diagnostic Criteria by 2012

No	list	No	list
1	Cardio-cerebrovascular dis.	13	Chromium
2	Musculoskeletal disorders	14	Cadmium
3	Physical Agents	15	Benzene
4	Abnormal Pressure	16	Hydrocarbons
5	NIHL	17	Trichloroethylene
6	Vibration	18	Diisocyanates
7	Chemical poisoning	19	Carbon disulfide
8	Vinyl Chloride	20	Asbestos
9	Tar	21	Infection
10	Manganese	22	Skin Diseases
11	Lead	23	Liver diseases
12	Mercury	24	(Back Pain) merged into MSD

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Diagnostic Criteria since 2013

	Diseases	Agents
CVA	Cerebral hemorrhage/infarction, myocardial infarction, dissecting aneurysm	Acute, subacute, chronic stress
MSD	Musculoskeletal diseases	Heavy lifting, repetitive, awkward position, vibration
Respiratory	Asbestosis, Asthma, rhinitis, metal fume fever, COPD etc	Asbestos, dust, metals, chemicals
Neuro-psychiatry	Neuropathy (CNS, PNS)	Solvents, lead, mercury, manganese...
Blood	Leukopenia, anemia	Benzene, lead
Skin diseases	Contact dermatitis, vitiligo, SJS, burn, frostbite, infection	Chemicals, Physical agents, biological

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Diagnostic Criteria since 2013

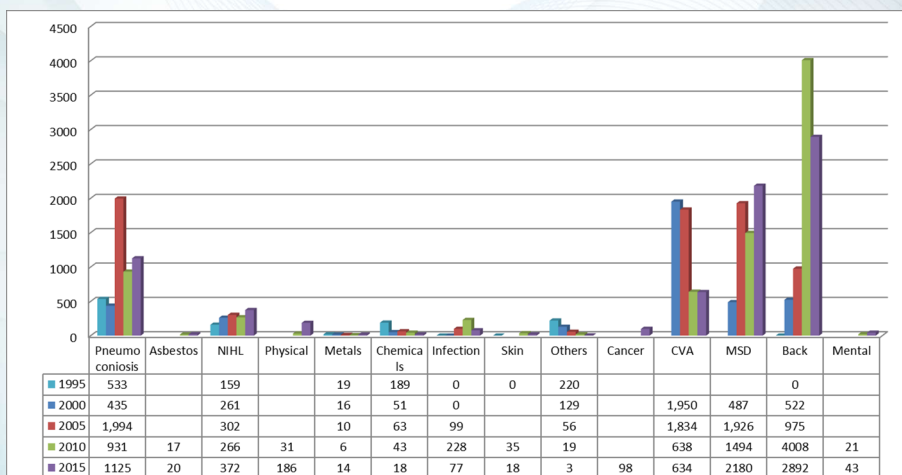
Organs	Diseases	Agents
Eye, ear	Cataract, keratitis, NIHL	Ultraviolet, laser, chemicals, noise etc
Liver diseases	Hepatitis	TCE, DMF, vinyl chloride
Infection	Hepatitis, tuberculosis, anthrax, malaria, tsutsugamushi etc	Health care workers, specific occupations
Cancer	Mesothelioma, lung cancer, melanoma, leukemia, bladder cancer, nasal cancer	Asbestos, benzene, chromium, tar, arsenic, benzidine, wood dust radiation, etc
Poisoning	Acute poisoning, chronic renal failure	Chemicals (high level),, Lead, carbon disulfide..
Physical agents	Caisson's disease, hypoxia, vibration syndrome,	Hyperbaric, confined space, vibration, radiation etc
Others	Probably work related diseases	

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Compensated Occupational Diseases

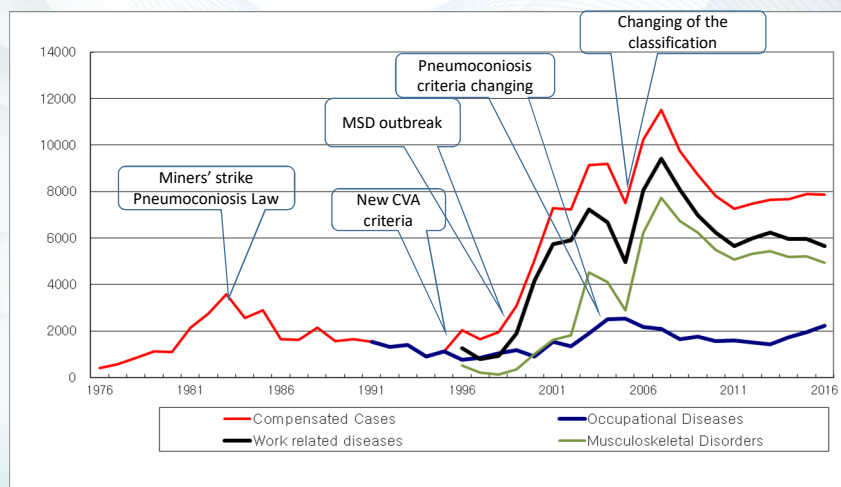


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Compensated Occupational Diseases in Korea



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Cases (2000-2013, 8284 cases)

Infection	Tsutsugamushi(655), TB(477) , CRF(1), Cellulitis(18), bacteria, virus(616), Contact Dermatitis(15), Tetanus(1), KH fever(54), bacteria(42), malaria(28), Hepatitis(87) , Virus(56), Rickettsia(3), flu(49)
Physical	NIHL(4002) , Frostbite(22), cataract(3), vocal cord nodule(9), facial palsy(4), heat stroke(66) , tinnitus(1), hyperbaric(43), Vibration(165), hernia(1), varicose vein(2), burn(1), keratoconjunctivitis(18)
Metals	Lead(42) , Mn(16), As(1), Hg(13), Cd(6), Cr(79)
Cancers	Lung(210) , Leukemia(47) , Mesothelioma(43) , liver(1), thyroid(1), MDF(2), MDS(6), MM(4), bladder(3), NHL(8), breast(1), AA(7), pancreatic(1), thrombocytopenia(1), laryngeal(1), Nasal(2)
Skin	Contact dermatitis(162), Tinea(2), Vitiligo(11), Cellulitis(9), pigmentation(1), hand eczema(1), lupus(1), insect bites(36)
Respiratory	asthma(179) , IPF(7), Hypersensitive pneumonitis(1), ARDS(7), Chronic bronchitis(4), COPD(7) , asbestosis(3), allergic rhinitis(1)
Chemicals	ALS(2), Poisoning(3), ARDS(1), headache(1), pesticides(39), toxic hepatitis(15) , CRF(4), laryngitis(2), AVN(1), leukopenia(5), sinusitis(6), Methyl bromide(7), eye(2), solvent poisoning(91) , breast cancer(1), CS2(520) , Sclerosis(1), encephalopathy(1), dental (2), chemicals(175), cardiomyopathy(1), loss of smelling (2),
Asphyxia	Snakes, Bee bites (35)

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Occupational Diseases in Germany

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Occupational Diseases List of Germany

1 Diseases caused by chemical agents	11 Metals and metaloids	Lead, mercury, Chromium, Cadmium, Manganese, Thallium, Vanadium, Arsenic, Phosphorus, Beryllium,
	12 Asphyxiating gases	Carbon monoxide, hydrogen sulfide
	13 Solvents, pesticides	Aromatic amines, halogenated hydrocarbons, benzene and styrene, nitro or amino compounds of benzene, carbon disulfide, methanol, organic phosphorus, fluorine, nitric acid esters, halogenated alkyl or aryl oxide, acids, benzoquinone, para-tertiary-butylphenol, isocyanates, dimethyl formamide, organic solvents, Benzol, sulfuric acid
2. Diseases by physical impact	21 Mechanical impact	Tendinitis, meniscus, vibration neuritis, constant pressure, pressure neuritis, strain fracture of the spinous processes, HIVD(lumbar, cervical), silica dusts, osteoarthritis, CTS, Thenar Hammer syndrome
	22 Compressed air	
	23 Noise	Hearing impairment
	24 Radiation	Cataract, ionizing radiation diseases
3 Infectious Diseases		Health care workers, zoonosis, miner's vermination, tropical diseases (typhus)
4 Respiratory Diseases	41 inorganic dust	Silicosis, silicotuberculosis, Asbestosis, Lung or larynx cancer, Mesothelioma, lung diseases by aluminium, Pulmonary fibrosis by hard metals, Thomas phosphate, malignancy by nickel, crude coke oven gas, COPD of miners, cancer by silica, PAHs, siderofibrosis,
	42 organic dust	Exogenic allergic alveolitis, byssinosis, wood dust nasal cancer
	43 Obstructive diseases of the respiratory tract	Asthma (allergic), Irritant obstructive diseases
5 Skin diseases		Severe or recurrent skin diseases, skin cancer by chemicals, by UVA
6 Diseases caused by other factors		Miner's nystagmus

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Occupational Diseases in Germany (2016)

Occupational diseases (OD) in 2016 by subgroups of diseases;

Group	Sub-Group	Disease	Notifications of a suspected case of OD	Fatalities due to OD	Decided cases					
					Total	Occupational causation confirmed			Occupational causation not confirmed	
						Total	Recognized cases of OD			Cases with absence of additionally required insurance characteristics
							Total	Of which new pensions		
1		Conditions due to chemical agents	3,800	174	3,864	722	705	557	17	3,142
	11	Metals and metalloids	372	8	360	39	39	31	-	321
	12	Asphyxiating gases	82	1	68	39	39	-	-	29
	13	Solvents, pesticides and other chemical substances	3,346	165	3,436	644	627	526	17	2,792
2		Conditions due to physical agents	23,395	28	24,661	8,427	8,307	876	120	16,234
	21	Mechanical agents	10,683	-	11,874	1,537	1,417	605	120	10,337
	22	Compressed air	3	-	1	-	-	-	-	1
	23	Noise	12,367	-	12,433	6,850	6,850	237	-	5,583
	24	Radiation	342	28	353	40	40	34	-	313
3		Diseases caused by infective agents or parasites including tropical diseases	2,958	17	2,736	1,257	1,257	50	-	1,479
4		Conditions of the respiratory passages and the lungs, the pleura and the peritoneum	15,201	2,285	17,186	6,175	5,903	3,375	272	11,011
	41	Conditions caused by inorganic dust	11,935	2,209	13,392	5,230	5,230	3,069	-	8,162
	42	Conditions caused by organic dust	232	35	245	89	89	64	-	156
	43	Conditions related to obstruction of the respiratory tract	3,034	41	3,549	856	584	242	272	2,693
5		Skin diseases	28,881	3	30,260	23,423	4,315	478	19,108	6,837
6		Miner's nystagmus	3	-	-	-	-	-	-	-
		GDR-OD ¹	-	29	57	7	7	7	-	50
		Other diseases	1,253	37	1,265	45	45	22	-	1,220
		Total	75,491	2,573	80,029	40,056	20,539	5,365	19,517	39,973

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Occupational Diseases in Germany

	2016	2017	Change in %	
Notifications of suspected cases	75,491	75,187	-	0.40
Occupational causation confirmed	40,056	38,080	-	4.93
Of which:				
Recognized cases of OD ¹	20,539	19,794	-	3.63
<i>of which: New pensions</i>	<i>5,365</i>	<i>4,956</i>	-	<i>7.62</i>
Cases with absence of additionally required insurance characteristics	19,517	18,286	-	6.31
Occupational causation not confirmed	39,973	39,250	-	1.81
Decided cases, total	80,029	77,330	-	3.37
Fatalities due to OD	2,573	2,580	+	0.27

<https://www.dguv.de/en/facts-figures/ods/index.jsp>

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Fatal Occupational Diseases in Germany

Occupational disease (OD)	2008	2010	2011	2015	2016
Mesothelioma, asbestos(4105)	793	694	759	811	871
Lung or larynx cancer, asbestos(4104)	591	497	581	593	622
Ionizing radiation(2402)	109	82	77	42	28
Benzene(1303)	44	14	7	7	9
Benzol, blood and lymphatic system(1318)	-	37	51	105	117
Lung cancer, quartz(4112)	29	50	63	37	83
Crude coke oven gas(4110)	22	17	7	6	9
Aromatic amines(1301)	14	32	33	26	30
Wood dust(4203)	13	22	9	16	27
Halogenated hydrocarbons(1302)	7	2	6	6	7
Chromium(1103)	4	7	11	8	6
Arsenic(1108)	3	-	1	1	-
Skin cancer(5102,3)	1	-	1	2	3
Total	Cancer(추정)				
	1,630	1,454	1,606	1,660	1,812
	All				
	2,391	2,486	2,548	2,409	2,573

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Summary

Compensated Occupational Diseases
can be extended
by the social development / social security status
and social consensus of the countries
based on the ILO recommendation.

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Compensation and Prevention

- Link : Employers' resistance
 - Limited acceptance (employers' liability)
 - Social Blame to Employers
 - Enforced by the Labour Authority
- Separation : Employers' Negligence
 - Generous acceptance (social welfare)
 - Employers' Negligence due to lack of information
 - Difficulty of targeting inspection subjects

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