



Strategy for Control of Occupational Diseases in Shanghai

Shanghai Municipal Center for
Disease Control and Prevention

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Analysis of Occupational Diseases Control in Shanghai

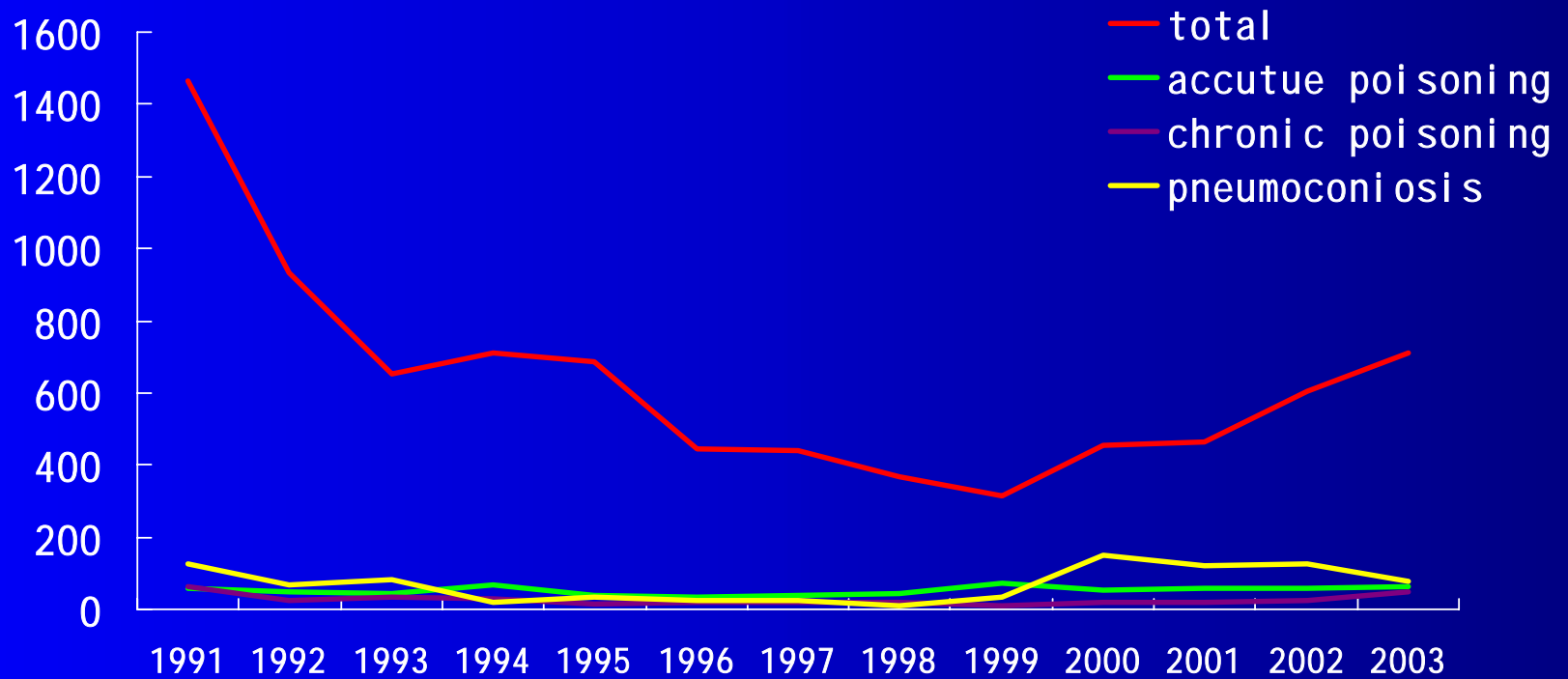
- **Analysis of occupational disease hazards**
- **The shanghai system of occupational diseases control is better**
- **The primary information network of occupational diseases control has been formed.**
- **The practice of workplace health promotion(WHP) proceeds successfully**

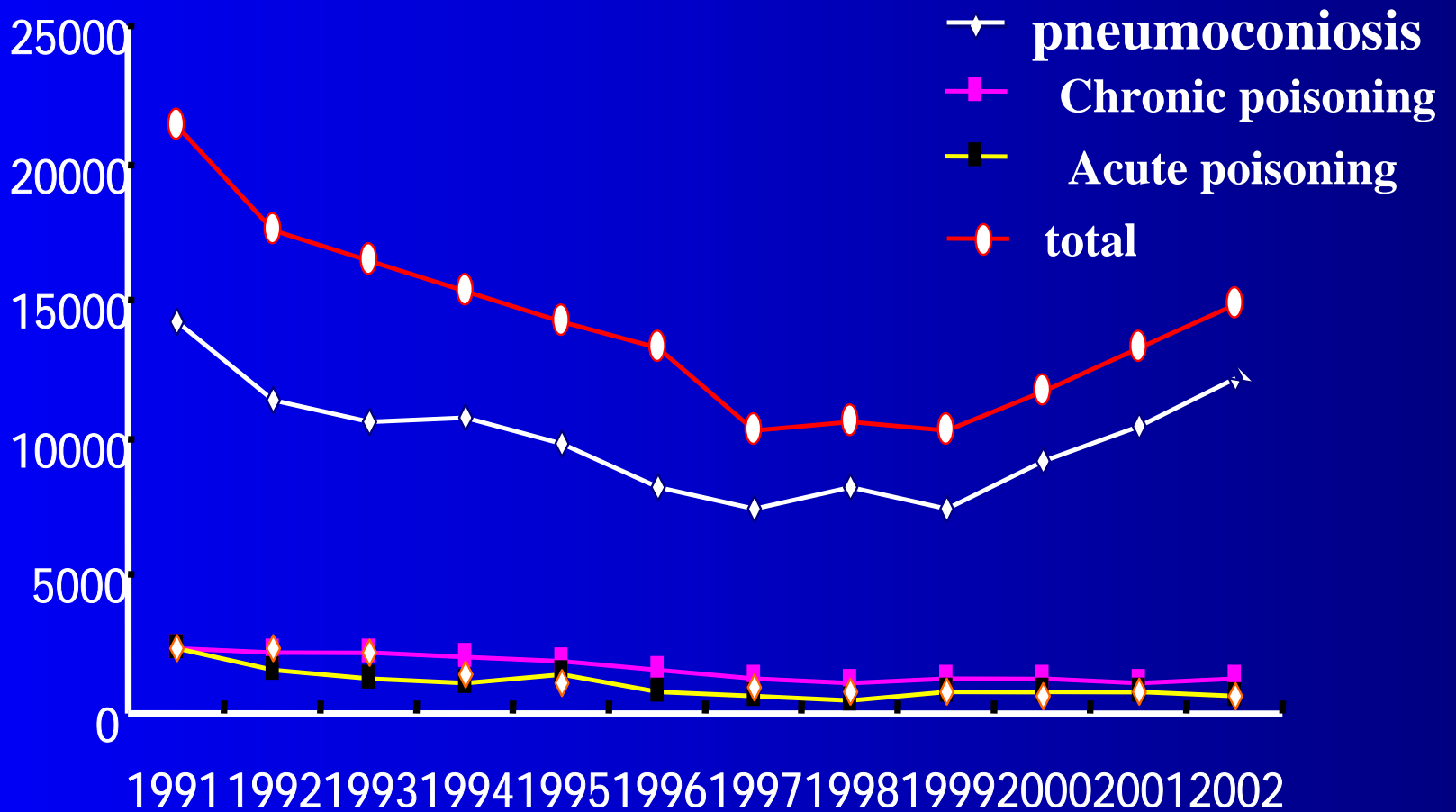
Analysis of Occupational Hazards in Shanghai

Occupational Diseases in Shanghai

- From 1991 to 2003 the occupational diseases amount to 8253 cases
- Among which occupational poisoning is 1025 cases ;
Pneumoconiosis is 893 cases
Acute occupational poisoning is 679 cases (19594 cases)
Chronic occupational poisoning is 346 case (12601 cases)
- By 2003 , detectable pneumoconiosis is totaled to 5983 cases (581377 cases)
Among which 2476 cases died (139177 cases)
41.38% (22.22%)

Statistic Analysis for Occupational Diseases in Shanghai





Statistical Analysis of Occupational Diseases in China

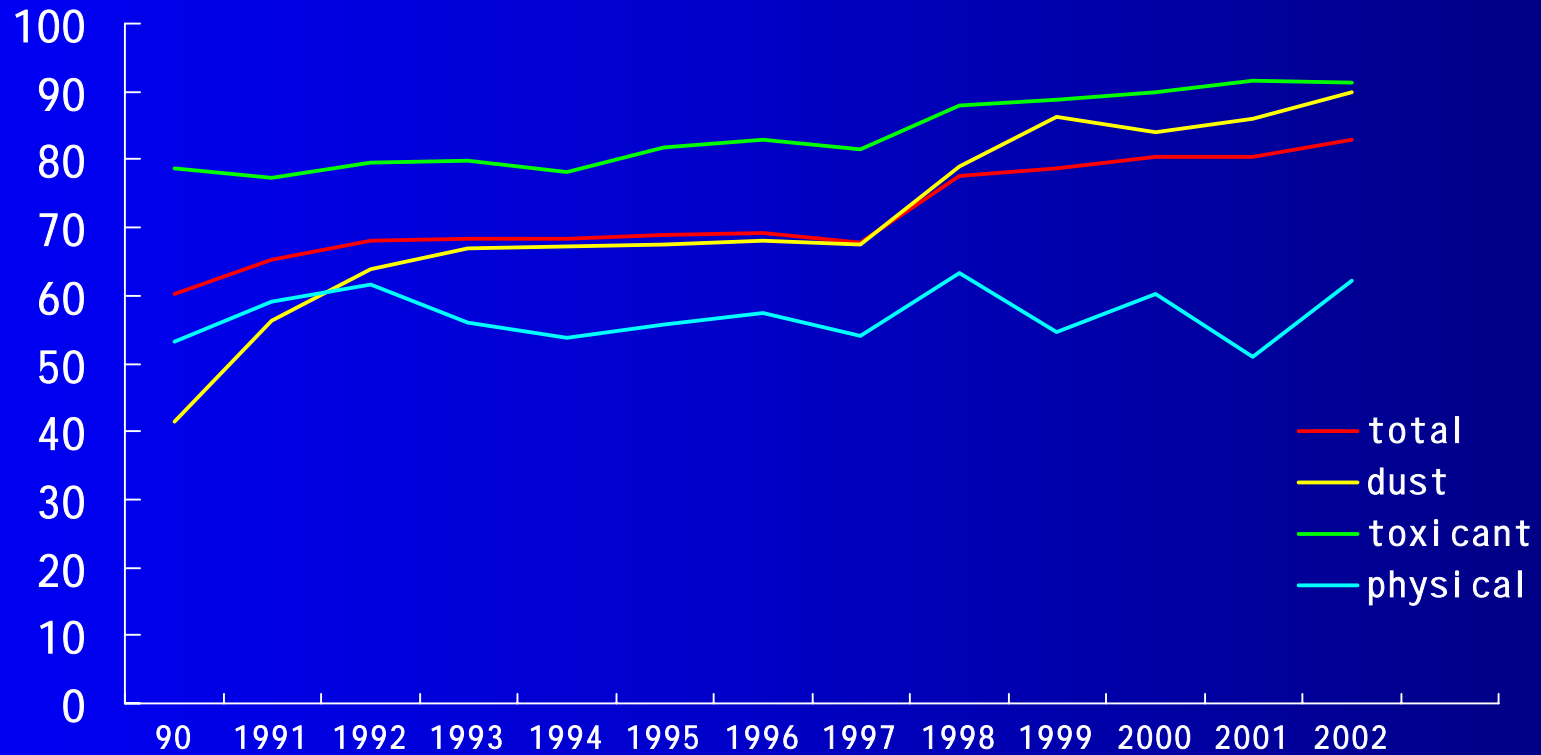
The Spectrum of Acute Poisoning in Shanghai from 1990 to 2003 (top 5)

Toxicant	Number of acute poisoning	Number of death	Fatality rate (%)	Percent (%)
CO	235	20	8.51	31.89
H ₂ S	103	38	36.89	13.98
Amino and nitrochloro compounds of benzene	73	0	0.00	9.91
Benzene	39	4	10.26	5.29
Dimethyl sulfate	29	1	3.45	3.93

The Spectrum of Acute Poisoning in China from 1990 to 2003 (top 5)

Toxicant	Number of acute poisoning	Number of death	Fatality rate (%)	Percent (%)
CO	3952	585	16.29	28.05
Organophosphorus pesticide	1761	28	1.59	12.5
H ₂ S	1266	466	36.81	8.99
Cl ₂	1217	39	3.2	8.64
Amino and nitrochloro compounds of benzene	593	4	4.3	4.21

Monitoring Occupational Hazards in Shanghai



The qualified rate about sites monitored for occupational hazards from 1990 to 2002

The Shanghai System of Occupational Diseases Control is Better

Since liberation , the network for occupational diseases control has been developed which consists of **employer unit,health administrative department, department of labor,social supervision ,labor union and service unit** through adjusting and reforming many times.

Employer unit answers for the duty of occupational disease control.

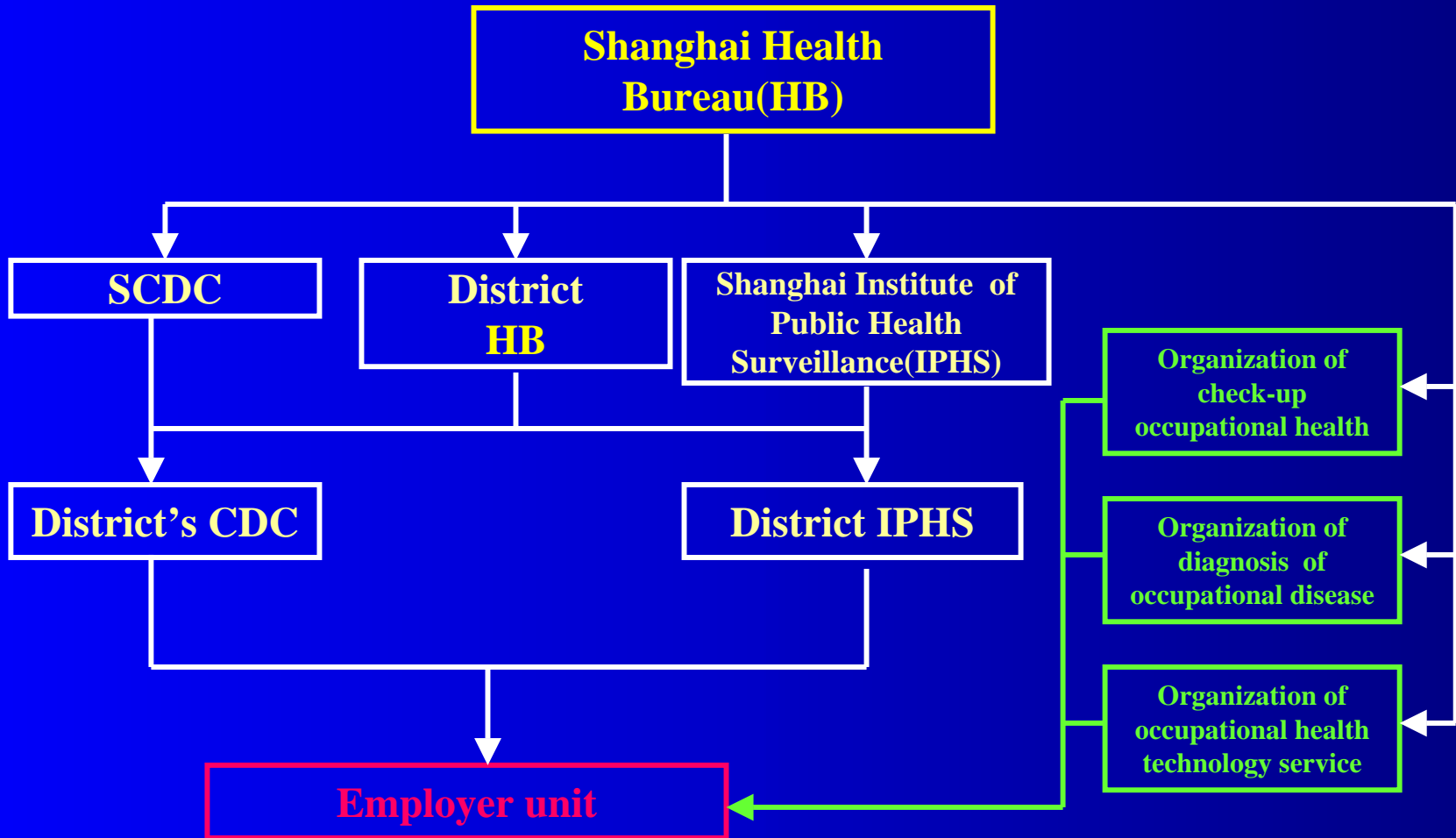
Health administrative department is charged with surveillance and management of occupational diseases.

Department of labor and social supervision is in charge with inspection and management of injury insurance.

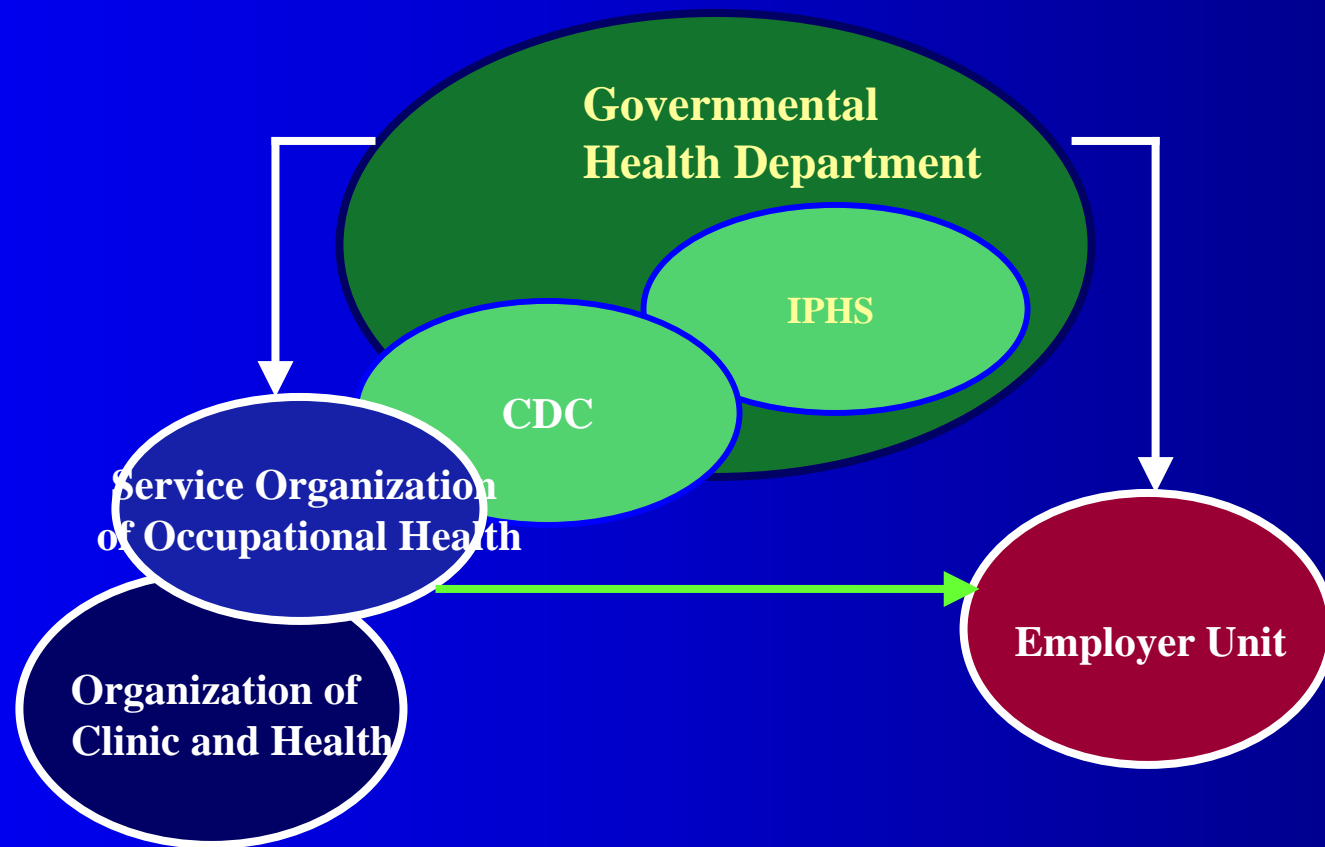
Labor union carries into execution of the inspection of people.

Service unit performs diagnosis and check-up of occupational diseases, and technology service of occupational health under governmental supervision.

Network and frame of occupational disease control in Shanghai



Relationship among the Organizations of Occupational Disease Control Network in Shanghai



Duty of the Organizations of Occupational Diseases Control Network

Institute of Public Health Supervision(IPHS)

Execute surveillance and inspection on employer units according to the law .

Manage organization of diagnosis and check-up for occupational diseases and service for occupational health

Draft out the criterion with health administrative department ,etc

Center for Disease Control and Prevention(CDC)

Record and manage occupational disease cases

Manage the diagnosis and judgment of occupational disease

Investigate acute occupational poisoning

Set up the information system of occupational health

Attend to draft out the criterion with health administrative department ,etc

The organization for diagnosis of occupational disease

Execute diagnosis of occupational diseases according to the law

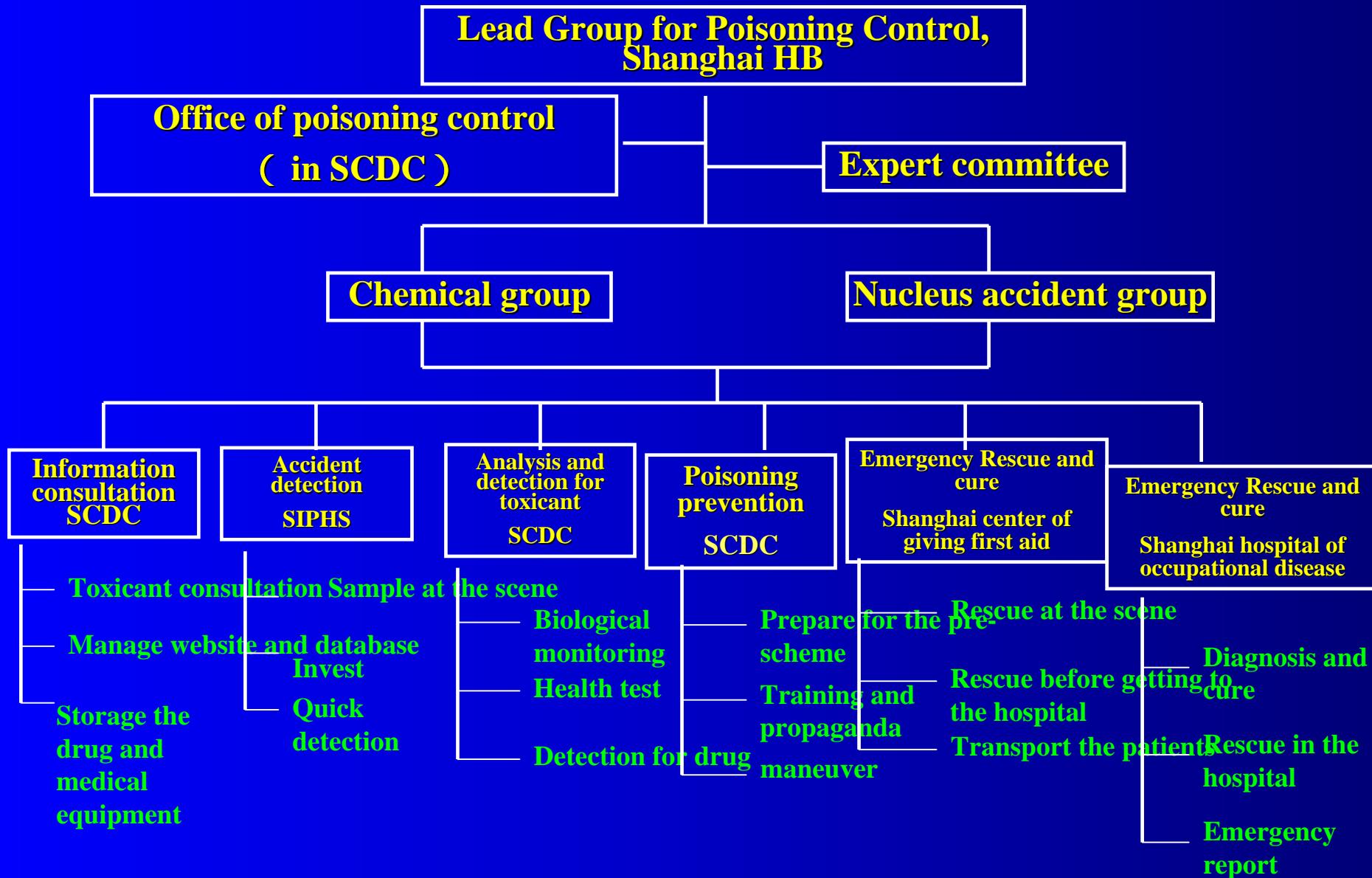
The organization for occupational check-up

Execute occupational check-up according to the law

The organization of occupational health technology service

Provide the market service through agency under government supervise , including pre-evaluation on occupational disease hazards control effect evaluation on occupational hazards, testing and risk-assessment of occupational hazards ,etc.

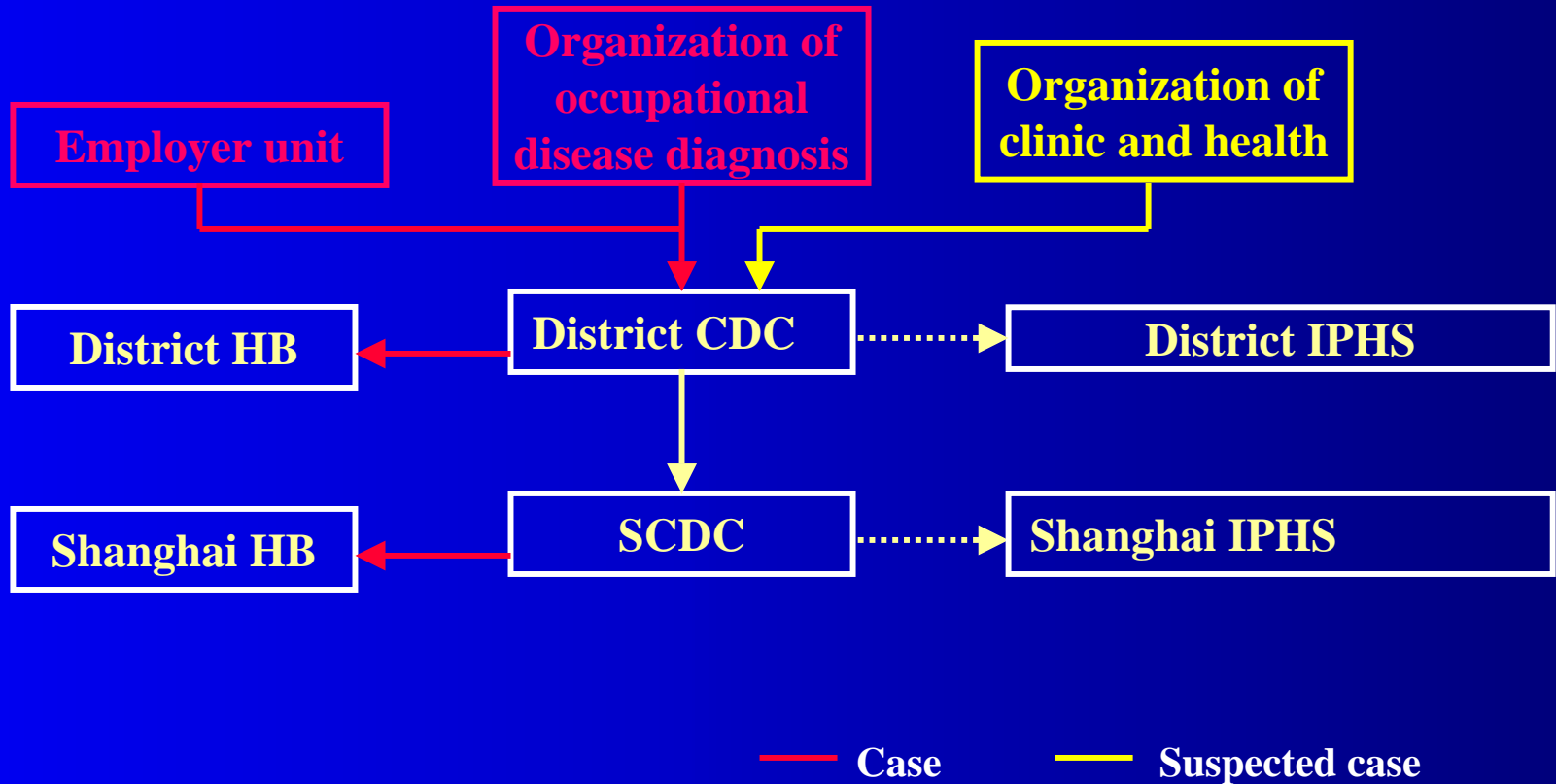
Network of Shanghai Center for Poisoning Control



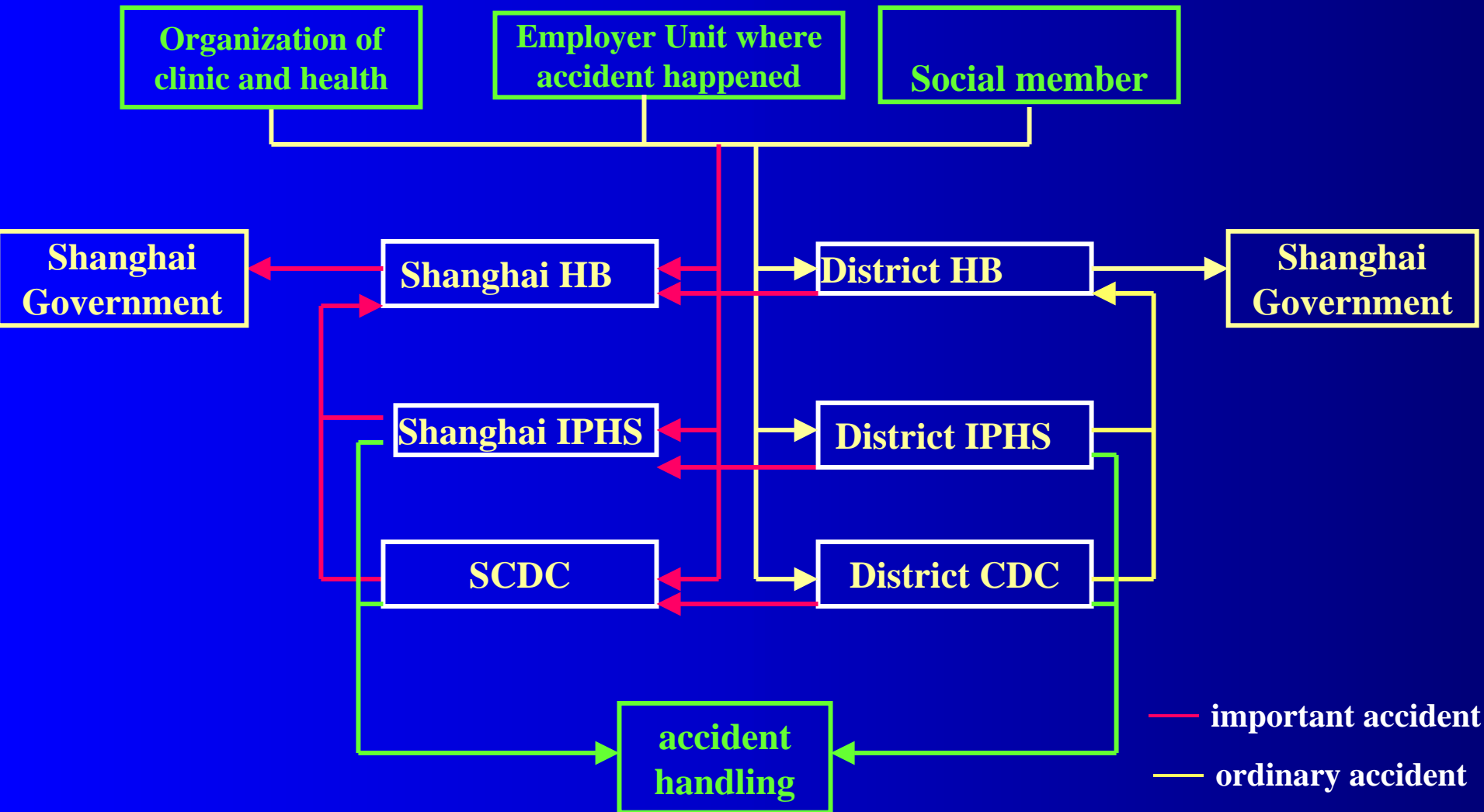
The Information Network for Occupational Diseases

Preliminarily Formed in Shanghai

Report network for occupational disease in Shanghai



Report Network of Occupational Accident in Shanghai



Information Management System of Occupational Disease Control in Shanghai

Information management system of occupational disease control in Shanghai includes databases of occupational disease archives of enterprises, of occupational records, of monitoring occupational disease hazards, of occupational check-up, etc

Databases of occupational disease archives of enterprises contain information of 11,084 factories and 1,359,935 personal records among which the information of workers exposed to the occupational hazards is 107,240 pieces

700,000 records are inputted into the databases of monitoring occupational hazards.

The Practice of Workplace Health Promotion Proceeded Successfully

The fundamental situation of health promotion factories

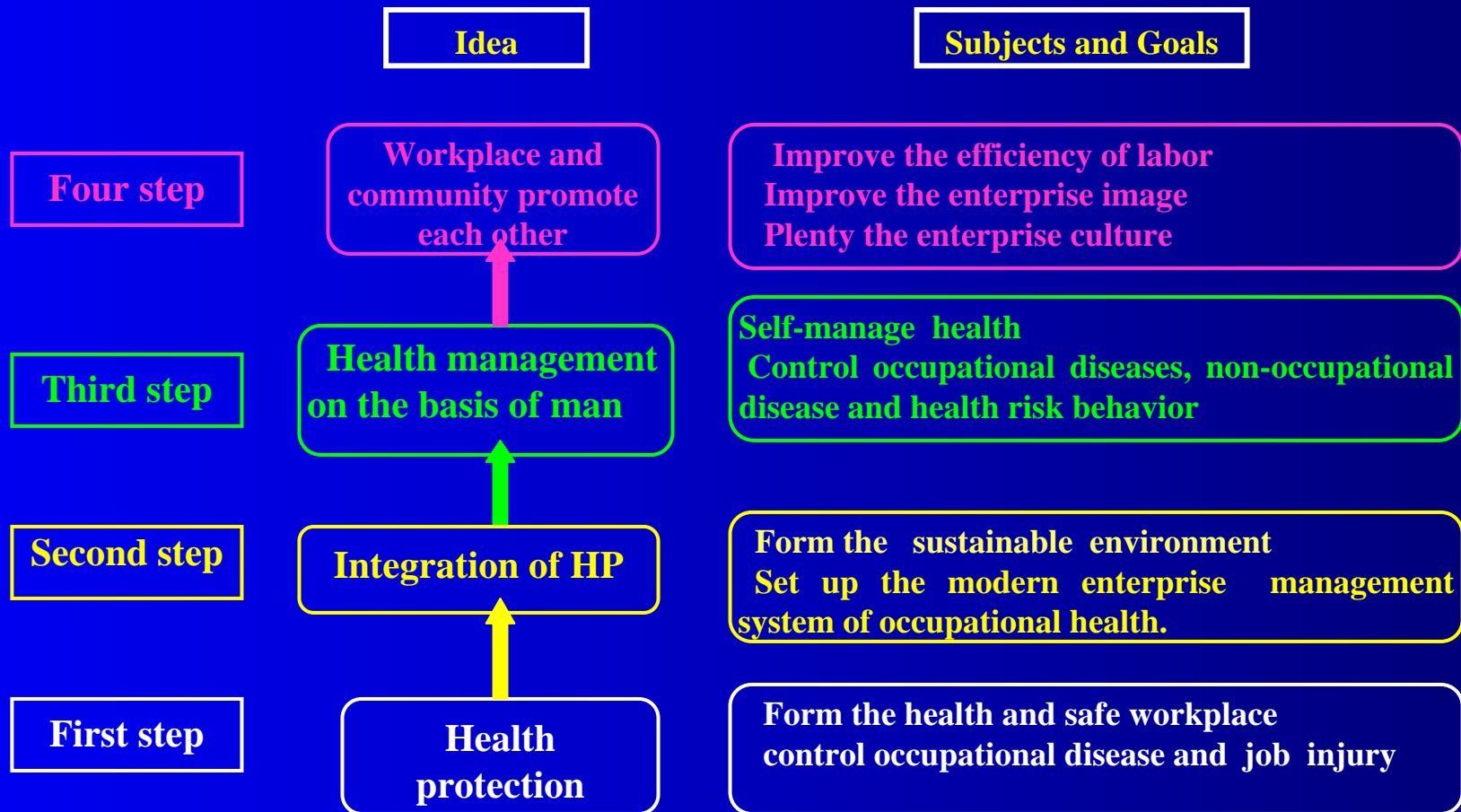
26 enterprises had workplace health promotion in which employees are 40029, including 7166 workers who exposed to occupational hazards.

Goals of Workplace Health Promotion(WHP)

Control and prevent occupational diseases, infectious diseases, chronic non-infectious diseases.

Explore modern enterprise system, workplace health promotion model and management system of occupational health with Shanghai characteristic which is suitable to China . Improve the work-life quality of workers, and promote the enterprises substantial development.

Basic Demands of Workplace Health Promotion



The Effect Evaluation of Workplace Health Promotion

The comparison of disposition and completion of protection equipment, alarm equipment and emergency equipment before and after intervention

	protection equipment (%)		alarm equipment (%)		emergency equipment (%)	
	before	after	before	after	before	after
Rate of disposition	87.61	91.41	72.83	77.50	80.76	90.65
Rate of completion	34.41	35.08	40.75	44.46	44.95	45.32

The occurrence of job injury, acute occupational poisoning and occupational disease

	No. Enterprises	Job injuries	Acute poisonings	Occupational diseases
One year before HP	25	16	2	6
One year after HP	25	12	0	0

The change of health knowledge belief and practice of workers exposed to occupational hazards before and after intervention

items		Before(%)	after(%)	P value
knowledge	the LODCP in China	66.37	81.60	<0.01
	the execution time of the law	44.92	57.79	<0.01
	the definition of occupation disease	82.62	86.79	<0.05
	check-up importance before employment	40.74	41.20	
	regular check-up importance	92.33	94.02	
	Hazards in workplace	97.29	98.31	
	The pathway of hazards getting into body	44.47	52.60	<0.01
belief	Hazards can be prevented	65.35	72.23	<0.01
	The protective facility needed in certain workplaces	90.18	90.74	
practice	Consult the hazards in workplaces	49.55	69.30	<0.01
	Wear personal protective facilities	88.71	93.68	<0.01

The Strategy for Shanghai Occupational Disease Control and Prevention

➤ **Target**

➤ **Measures**

Strategy Target

Final goals

Provide workers a safe, comfortable and healthy work environment,

Occupational health Service for All

Short-term goals

Construct the system of occupational disease control and prevention

Eliminate and control occupational diseases

Establish safe and healthy workplaces

Construct the System of Occupational Disease Control and Prevention

Construct and perfect the Shanghai-style system of occupational control and prevention, which has link lines with international standards on the basis of current situation in China by 2005

Eliminate and Control Occupational Diseases

- **Control the occurrence of serious acute occupational disease by 2005**
- **The number of chronic occupational poisoning cases declines year after year and it will be under control by 2010**
- **The number of pneumoconiosis cases declines year after year. It will be under control by 2010 and will be diminished by 2015**

Establish Safe and Healthy Workplaces

- The monitoring qualified rate of occupational hazards in workplace ascends year after year. The unqualified workplaces will be diminished by 2010
- Promote the WHP , eliminate and control all kinds of hazards,change the unhealthy behavior and habit of the workers.By 2015,1000 enterprises reach the standard of WHP

Measures

- **Perfect the five systems of occupational disease control and prevention**
- **Make the duty of occupational disease control and prevention clear**

Perfect the Five Systems of Occupational Disease Control and Prevention

- **Standardize the occupational health surveillance management and put it in good order**
- **Establish and perfect the occupational emergency handling system**
- **Construct and perfect the occupational health information and alarm system**
- **Cultivate and enrich the system of education and scientific research on occupational health**
- **Strengthen and develop the technological service system of occupational health**

Standardize the Occupational Health Surveillance Management and Put it in Good Order

Perfect the management mode in government

Make the inner and outer cooperation smoothly in health department.
Standardize the lawful administrative practice and improve the image of health department.

Perfect the management mode of service organization

According to the principle of disposing occupational health resources reasonably, perfect the system of qualified authentication, classification management and quality control to improve the occupational health service.

Explore the management mode of employing unit

Explore the occupational health management system which is consistent with the modern enterprise system and can be practiced in accord to current situation of China

Establish and Perfect the Occupational Emergency Handling System

**Perfect the emergency rescue and cure system of the
acute occupational poisoning**

According to Shanghai emergency handling frame when the public health accidents happen and the characteristic of occupational health

**Establish the investigation and handling system of
chronic occupational poisoning**

Put forward the control and prevention measure after the investigation, analysis and handling by the law and give the social member alarm to prevent the likely accident reoccurrence.

Construct and Perfect the Occupational Health Information and Alarm System

Perfect the information management system of occupational disease control and prevention

Construct the information management system of occupational disease control and prevention which is consisted with the occupational health archives of employing unit, occupational disease report and the database of occupational check-up, occupational disease hazards monitoring, law file, toxicant consultation and occupational accident

Construct monitoring occupational disease hazards system and alarm system

Establish the net of occupational disease hazards monitoring

Constitute the system of hazard assessment

Make the information of occupational disease control and prevention statistic analysis in order to find the early sign of occurrence of serious occupational disease on time.

Train and Enrich the System of Education and Scientific Research on Occupational Health

On the basis of the educational resources of occupational health in local colleges and universities, train the professionals with health management or technology and upbuild the high-grade occupational health team with reasonable structure and clear levels, carry out the scientific management research centered on the WHP and technique application research on the occupational poisoning monitoring and hazard risk assessment to instruct the occupational disease control and prevention of the city

Strengthen and Develop the Technological Service System of Occupational Health

Strengthen the capability of providing occupational health service to the government

Strength and enrich the construction of organization providing service to the government; provide the on-time and reliable professional and technological support to the occupational disease control and prevention

Develop a service team for the social occupational health care

Develop multiway and multifold occupational health service organization; encourage them to offer all kinds of occupational service for the employing unit

Make the Duty of Occupational Disease Control and Prevention Clear

- **Strengthen the duty of the employing unit**
- **Strengthen the surveillance and management of the government**
- **Standardize the practice of the occupational health service organization**
- **Emphasize social participation and supervision**

Strengthen the duty of the employer unit

According to the law, the employer unit answers for the occupational diseases. So it is necessary for the unit to know thoroughly their duty by the law education. Occupational disease control and prevention duty system and management should be established and perfected. Work environment and condition should be satisfied the national occupational health standard and requirements, and measures should be taken to protect the workers.

Strengthen the surveillance and management of the government

Draw up as soon as possible the plan of Shanghai occupational disease control and prevention; establish the mechanism of harmonious cooperation among associated departments; spread propaganda on law and regulation; publicize the knowledge; promote the enterprises to answer for the duty.

According to the law, local health administrative department is on duty of the surveillance and management of occupational disease control and prevention in the area. Therefore health administrative department should strengthen the surveillance and the management, execute the law strictly to assure the prevention of the occupational diseases from the source and course of labor. The workplaces satisfy the health requirements of the law.

Standardize the practice of the occupational health service organization

The organization of occupational check-up and diagnosis should strictly obey the laws, regulations, rules, criteria and standards when they practice.

The organization of occupational health service strictly obey the laws, regulations, rules, criteria and standards when they practice. Social effects should be emphasized.

The organization of occupational health service should be encouraged to offer media service for the medium and small scaled enterprises without such ability, including education, drawing up the regulations and consultation, to improve their level

Emphasize social participation and supervision

The social supervision should be encouraged by the labor union. The management participation of labor should also be encouraged to make proposals .

The social supervision should be emphasized. With the pressure of it, those who has broken the laws and regulations would be afraid and actively correct their mistake.

**Thank
you !**

**Shanghai Municipal Center
for Disease Control and
Prevention**