



Health and Safety at Workplace

Dr N.B.P.Balalla

MBBS, M.Med(Occup.Med), Cert Av.Med

Head , Occupational Health Division

Dept. of Health Services

Ministry of Health

Contents of Presentation

1. Why Health and Safety at Workplace is Important?
2. MOH approach to improve Health and Safety at Workplace

Every 15 seconds a worker dies from a work-related accident or disease

Every 15 seconds 160 workers have work-related accident

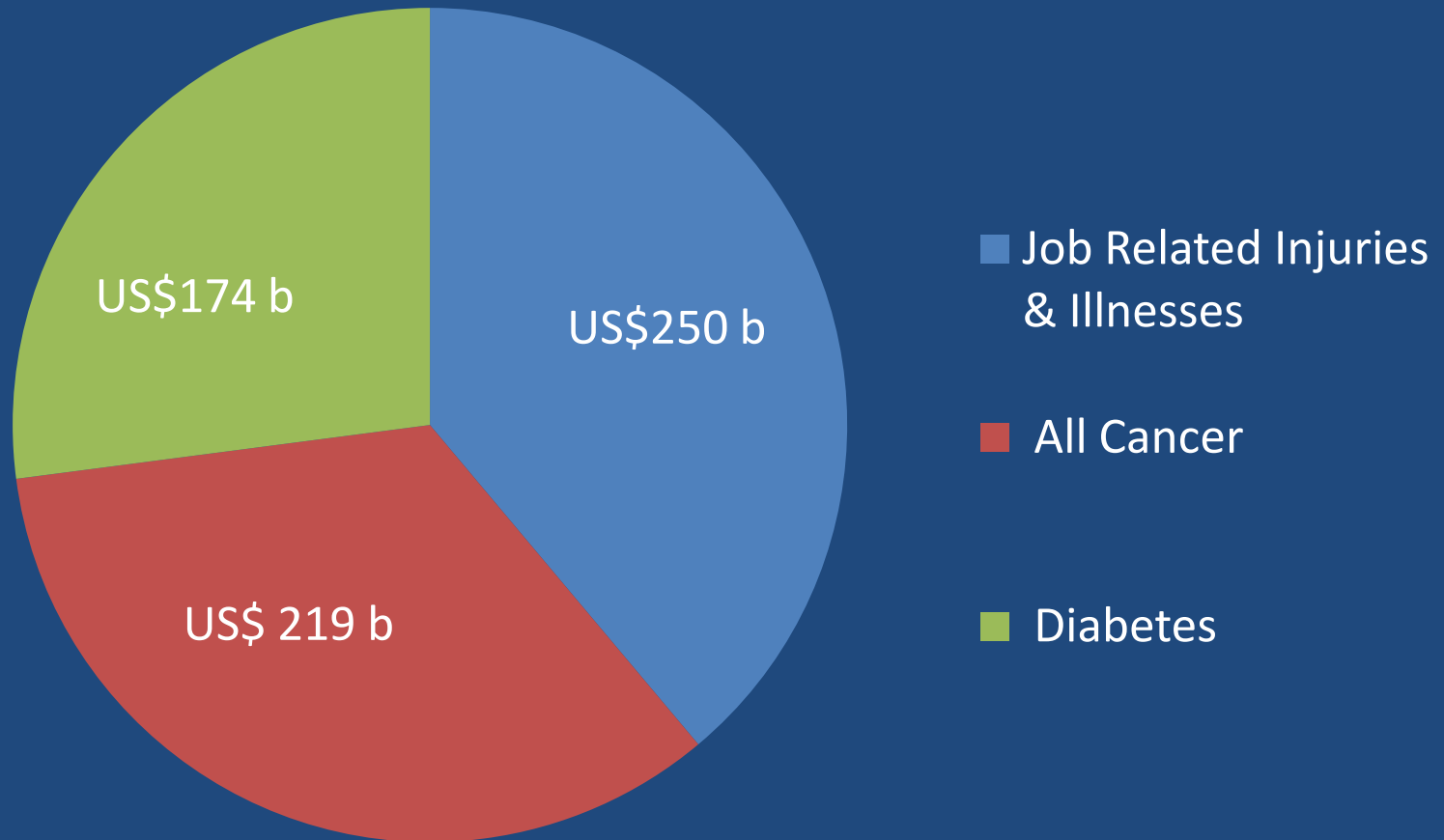
ILO 2011

Every day 6,300 people die as a result of occupational accidents or work-related diseases
More than 2.3 m deaths per year

Over 337 m accidents occur at work annually, resulting absences from work

- Hundreds of millions of people throughout the world are employed today in conditions that breed ill health and/or are unsafe.
- New chemicals, machines and techniques(eg. Nanotechnology) are added daily
- It is estimated that **4 %** of Gross Domestic Product(GDP) is lost due to accidents and work- related diseases

Cost of Job- Related Illnesses



Source: "Economic Burden of Occupational Injury and Illness in the United States , J Paul Leigh ,Milbank Quarterly ,Dec 2011"

What Are the Costs of Injured Employees?

Direct:

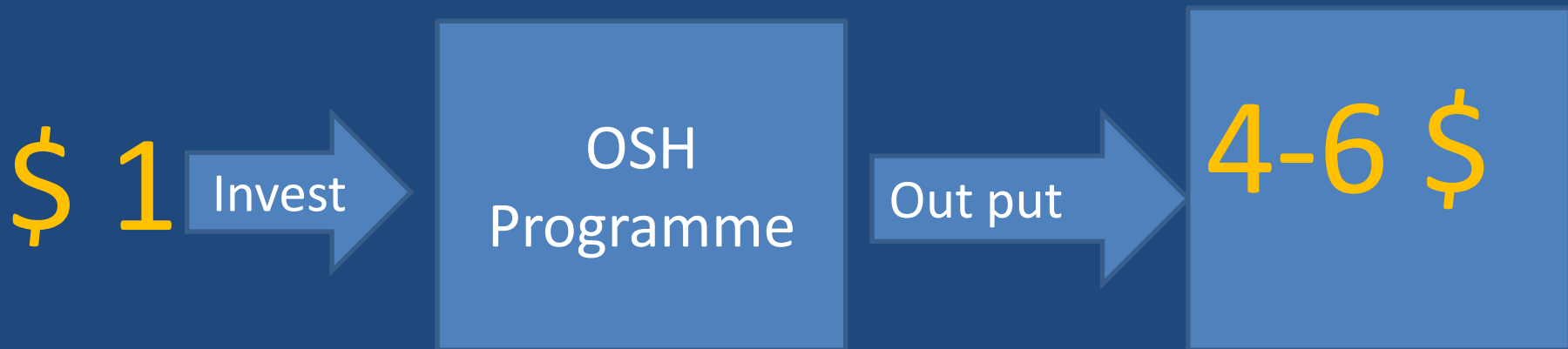
- Medical costs
- Lost wages
- Rehabilitation
- Insurance costs
- Employer administrative costs

Indirect Costs:

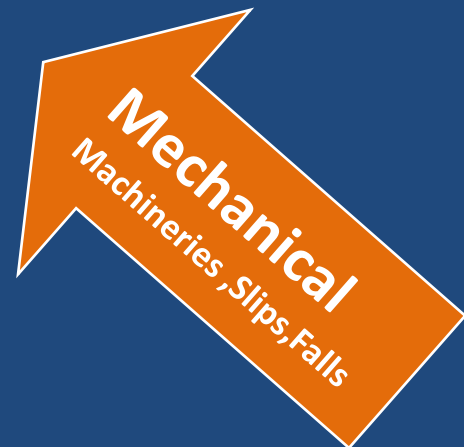
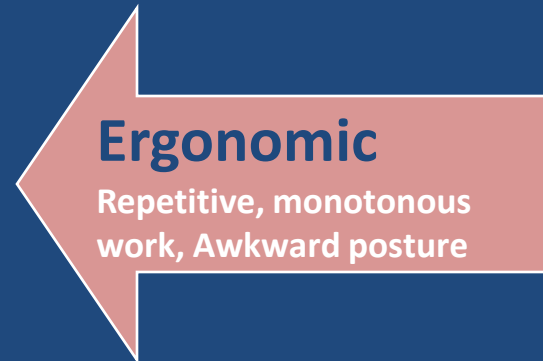
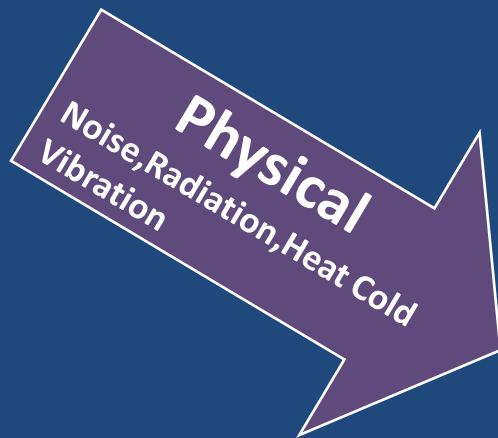
- Lost production
- Lost wages for co-workers
- Employee morale
- Equipment damage
- Re-training or hiring costs
- Operating costs



Is investing on OSH profitable?



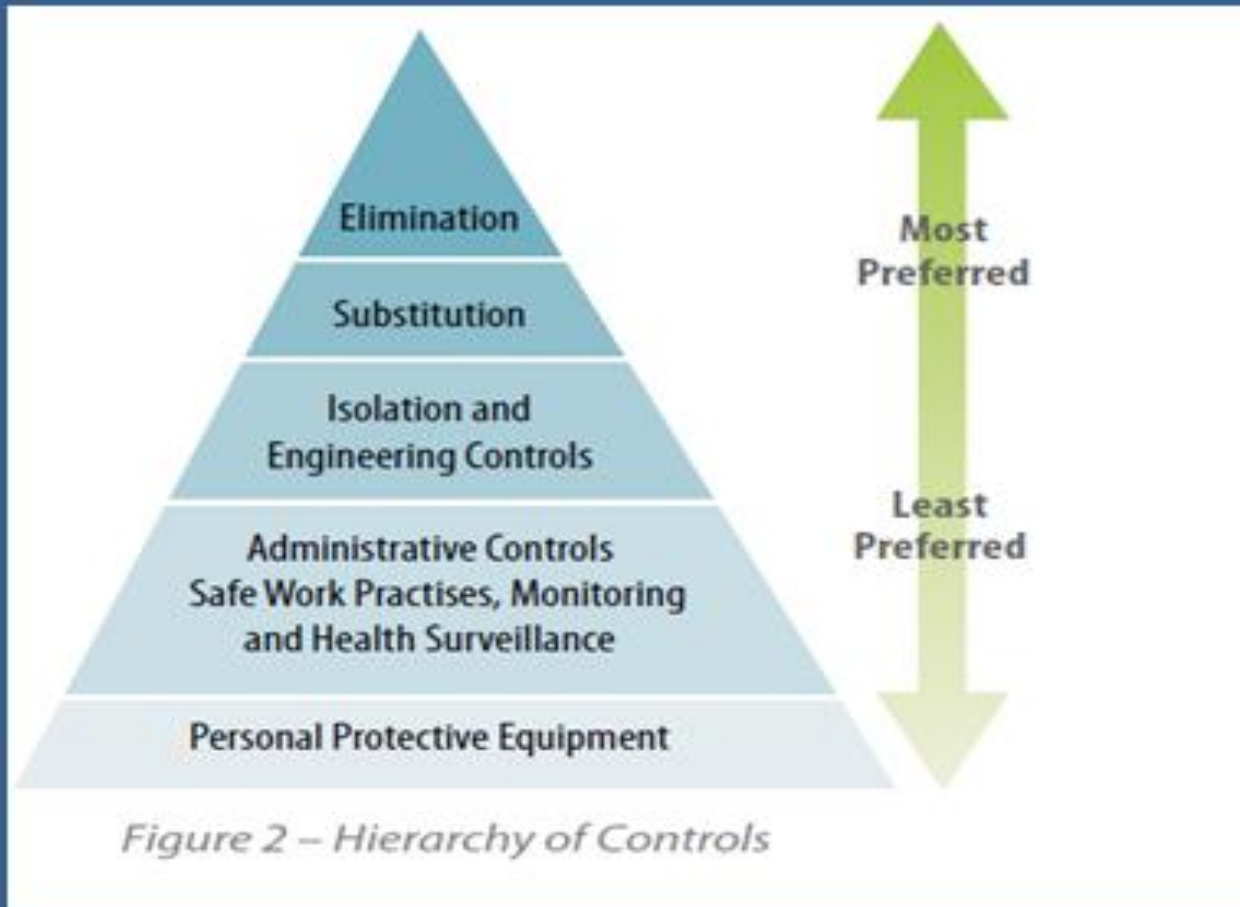
What are the Workplace Health
and Safety Hazards ?



Some work-related diseases

- Work-related injuries
- Musculoskeletal disorders (back pain /strain ,RSI)
- Noise induced hearing loss
- Skin diseases(allergic & irritant)
- Occupational asthma
- Occupational stress
- Chronic pesticide toxicity
- Occupational cancer
- Silicosis

Prevention and Control of Workplace Hazards



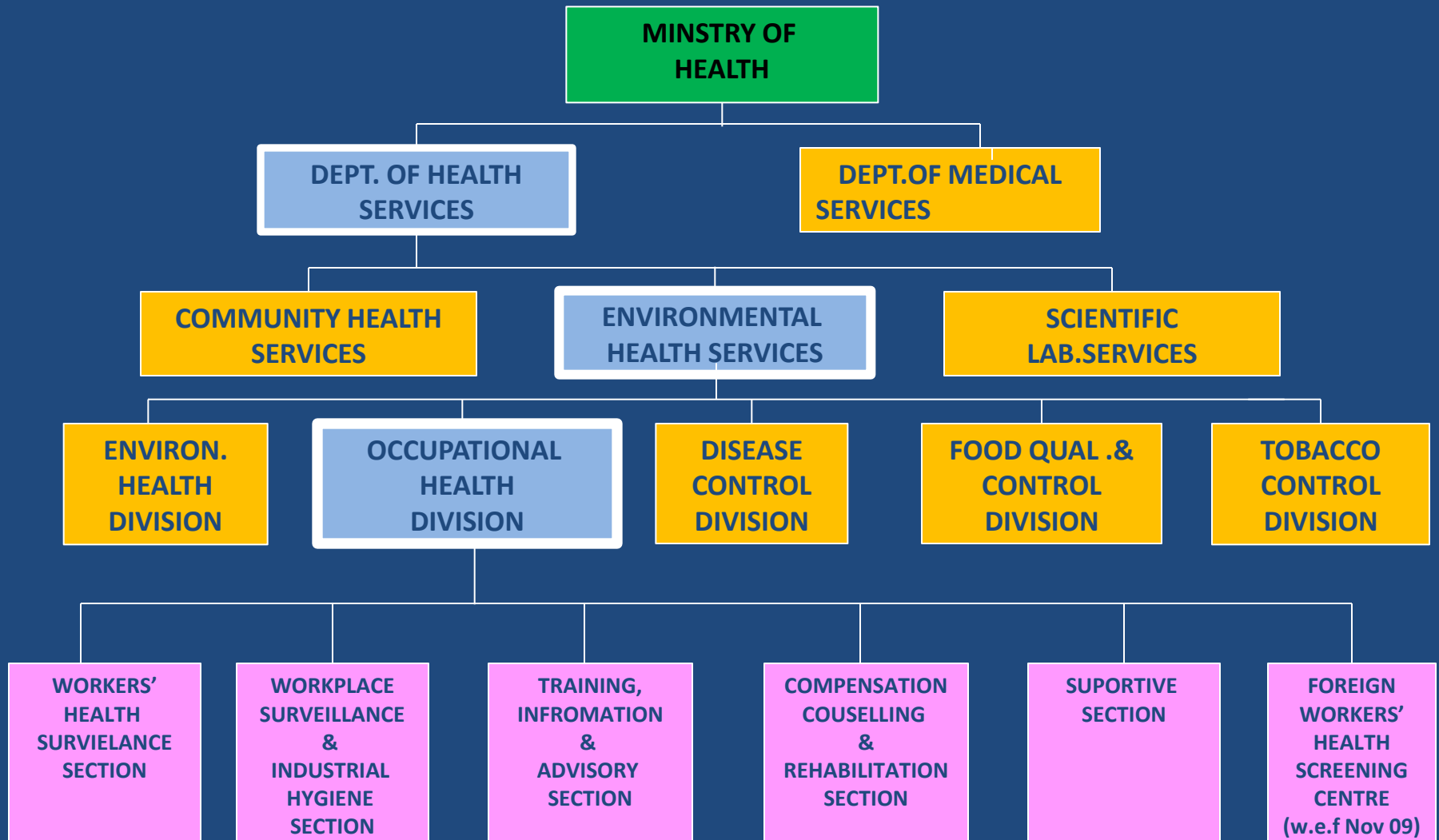
Benefits of a Safe & Healthy Workplace

- Protects the most valuable assets-it's workers
- Increases productivity
- Reduces workplace accidents & ill- health
- Lowers workmen's compensation insurance payments
- Reduce medical costs
- Raises the moral of the workers

Occupational Health Division(MOH)

Approach to Improve Health and Safety at Workplace

ORGANISATION CHART



VISION

To promote a safe working environment and to ensure that the workforce in Brunei Darussalam is healthy and productive.

MISSION

Promotion and maintenance of the highest degree of physical, mental and social well-being of workers in ***all occupations***, by **preventing departures** from health caused by their working conditions, **protecting the workers** in their employment from risks resulting from factors adverse to health and **adaptation of work** to the workers and workers to their jobs.

MANPOWER

Staff Category	No. available	Qualification & Training
Occupational Health Physicians	06 01-Attachment 01- on training(S'pore)	04- M.Med(OM) S'pore 01-MSc(OM) UK 01-Phd(Occ. Hygiene) Japan
Occupational Health Nurses	05	05- certificate in OHN(Malaysia) 01- short course in IH(S'pore)
Health Inspectors (OSH)	02-SHI 01-HI 01-PHI(Probationary HI)	02- trained in OHSE (UK) 01- trained in EH(UK) & short course in IH(S'pore)
Supportive staff	02-clerks 01- attendant 02- supportive staff	
Foreign Workers' Health Screening Centre Staff (w.e.f.Nov.09)	21 –supportive staff	
TOTAL	41(OHD 20 +FWHSC 21)	

Activities of Occupational Health Division

Workers' Health Surveillance

- Pre-placement Health Assessment –govt.& private
- Periodic Health Assessment –govt & private
- Special category medical examinations- ATCO, seafarers,spraymen
- Medical Board assessment
- Assessment for Workmen's Compensations

Workers' Health Surveillance cont'd

- Carrying out Hearing tests(Audiometry) Lung function tests(Spirometry),Vision tests, Blood Urine tests, ECG, clinic-based blood cholinesterase tests
- Filling of medical examination forms, work ability index, occupational stress questionnaire



Filling of forms ,questionnaires ,
interviewing etc. by OHN



Conducting a Hearing
Test(Audiometry)



Conducting a Lung Function Test
(Spirometry)



Physical Examination by OHP

Surveillance of Working Environment

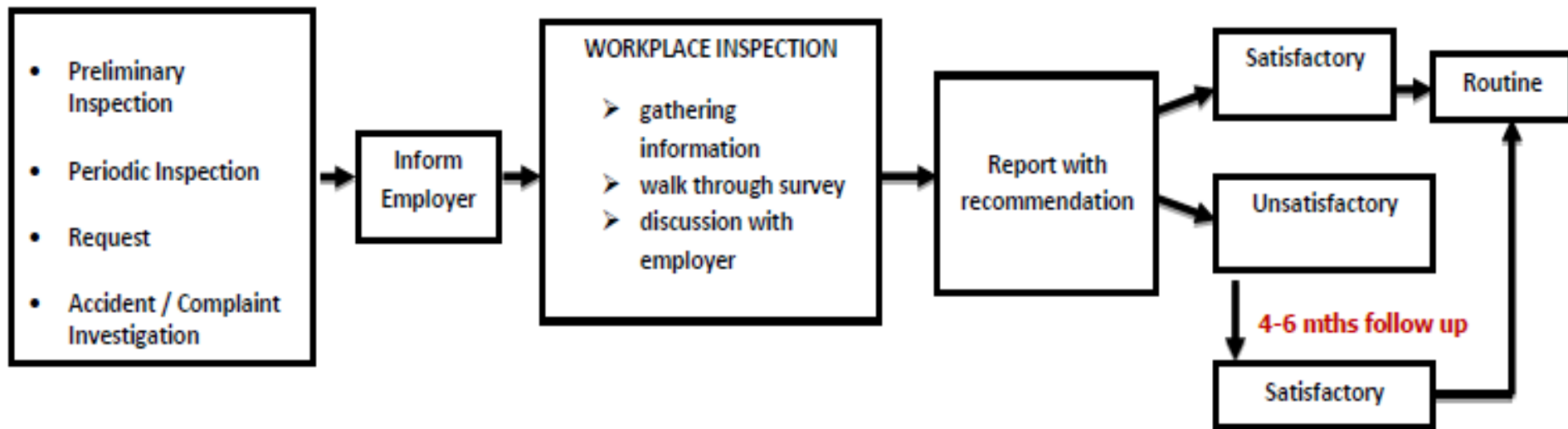
- Regular work site visits , OHS inspections, audits, risk assessments & advice
 - Inspectorate team – doctor, nurse, health inspectors
 - Frequency – 3 inspections /week (Tue,Wed,Thu)
Check lists –OHS inspection, audit, first aid assessment
- Workplace surveys & grading – Mon/Sat – health inspectors
- OSH assessment for licensing purposes
- Industrial Hygiene –noise monitoring ,dust sampling, assessment of illumination ,temp. humidity & toxic gas analysis, heat stress monitoring

Surveillance of Working Environment cont'd

- Assessment of first aid facilities at workplace
- Ergonomic assessment – computer workstations (proposed)
- Preparation of inspection /audit reports on workplace OHS matters and forwarding to respective authorities for necessary action –
i.e. Employers ,Dept of Labour, Ministry of Development(PWD),Brunei Industrial Development Authority , Ministry of Industries & Primary Resources, Municipal Council, District Offices etc.

SURVEILLANCE OF WORKING ENVIRONMENT

WORKSITE INSPECTION





Workplace Inspection by OHD staff

Worksite Visit



Inspectorate Activities (2004-2009)

Purpose	Non Healthcare						Healthcare			
	2004	2005	2006	2007	2008	2009	2006	2007	2008	2009
OSH inspection/Audits (comprehensive)	85	71	84	69	66	22	33	18	27	29
Workplace Survey	41	47	37	307#	365#	37	0	0	-	0
Others – complaints, requests, accident at workplace, occupational / work related disease investigation	3	2	5	5	7	20	0	1	-	14
TOTAL	129	120	126	381	438	79	33	19	27	43

includes surveys and preliminary inspections

Investigation of complaints, workplace accidents , occupational & work-related diseases

- Accident at Work Reporting Form
- Occupational & Work-related Diseases Reporting Form

Reporting is done by treating doctors

Accident at Work Reporting Form



OCCUPATIONAL HEALTH UNIT
DEPARTMENT OF HEALTH SERVICES
MINISTRY OF HEALTH

Accident at Work Reporting Form

Date of reporting : / /

Case ref :

Name :
Sex : *Male / Female*
Date of birth : / / I/C. No: Colour: ☐ Y ☐ P ☐ G
Residential address:

Place of work: Date of employment : / /

Job designation:

Contact number: (Home) (Office)
(Mobile) (Pager)

PART 1: TO BE FILLED BY THE INJURED EMPLOYEE

1. a. Date of accident : / /

b. Time of accident : : am
 : pm

Please state if it occurred during ;

☐ Normal Working Hours

☐ Shift (Please state shift time) : am
 : pm

2. Place of accident.

State the following conditions :

☐ Floors - Dry/Slippery / Wet

☐ Noise - Loud/Quiet

☐ Lighting - Good/Fair/Poor

☐ Environment - Air conditioned/Not

☐ Others- Please specify

Occupational & Work-related Disease Reporting Form



MINISTRY OF HEALTH

REPORTING OF OCCUPATIONAL AND WORK RELATED DISEASES

PARTICULARS OF PATIENT (please tick <input checked="" type="checkbox"/> appropriate box)			
Name:	MRN no:		
Date of Birth:	Age:	Sex: M / F	Nationality:
I/C No:	Colour: Y / P / G	Race: Malay: <input type="checkbox"/> Chinese: <input type="checkbox"/> Indigenous: <input type="checkbox"/> Others(specify) <input type="checkbox"/>	
Residential Address:			
Name and Address of Employer:			
Contact No:	(H)	(O)	(M)
Present Occupation & Description:			

CASE SUMMARY (relevant history, symptoms and signs)	LIST OF OCCUPATIONAL AND WORK RELATED DISEASE(S) (please tick <input checked="" type="checkbox"/> in appropriate box(es))	
	<input type="checkbox"/> ANILINE POISONING <input type="checkbox"/> ANTHRAX <input type="checkbox"/> ARSENIC POISONING <input type="checkbox"/> ASBESTOSIS <input type="checkbox"/> BENZENE POISONING <input type="checkbox"/> BERYLLIUM POISONING <input type="checkbox"/> BYSSINOSIS <input type="checkbox"/> CADMIUM POISONING <input type="checkbox"/> CARBON BISULPHIDE POISONING <input type="checkbox"/> CARBON DIOXIDE POISONING <input type="checkbox"/> CARBON MONOXIDE POISONING <input type="checkbox"/> CATARACT <input type="checkbox"/> CYANIDE POISONING <input type="checkbox"/> EPITHELIOMATOUS ULCERATION / CANCER - SKIN (Due to tar, pitch, bitumen, mineral oil or paraffin or any compound product or residue of any such substance)	<input type="checkbox"/> LEAD POISONING <input type="checkbox"/> LEPTOSPIROSIS <input type="checkbox"/> LIVER ANGIOSARCOMA <input type="checkbox"/> MANGANESE POISONING <input type="checkbox"/> MERCURY POISONING <input type="checkbox"/> NITROUS FUMES POISONING <input type="checkbox"/> NOISE INDUCED DEAFNESS <input type="checkbox"/> OCCUPATIONAL ASTHMA <input type="checkbox"/> PESTICIDE POISONING <input type="checkbox"/> PHOSPHORUS POISONING <input type="checkbox"/> RADIATION RELATED DISEASE (skin subcutaneous tissues, bones leukaemia or aplastic anaemia) <input type="checkbox"/> RENGAS WOOD POISONING <input type="checkbox"/> REPETITIVE STRAIN DISORDERS (beat hand, beat knee, synovial inflammation) <input type="checkbox"/> TOXIC ANAEMIA <input type="checkbox"/> TUBERCULOSIS <input type="checkbox"/> Others (please specify)
	<input type="checkbox"/> GLANDERS <input type="checkbox"/> HALOGEN DERIVATIVES OF <input type="checkbox"/> HYDROCARBONS POISONING <input type="checkbox"/> HEPATITIS (toxic, blood borne) <input type="checkbox"/> HYDROGEN SULPHIDE POISONING <input type="checkbox"/> INDUSTRIAL DERMATITIS	
Previous Occupation(s) & Duration:		
Diagnosis Confirmed By: <input type="checkbox"/> Clinical <input type="checkbox"/> Laboratory / Investigations <i>(specify)</i>		
	If Patient is Deceased, State Date of Last Attendance:	Workmens Compensation Applied For: <input type="checkbox"/> Yes Date: <input type="checkbox"/> No

Name of Notifier :	Signature:		
Address of Notifier:			
Contact No:	(H)	(O)	Date:

ALL ITEMS MUST BE COMPLETED AND ACCOMPANIED BY RELEVANT DOCUMENTS
e.g. AUDIOGRAM FOR NOISE INDUCED DEAFNESS , BLOOD INVESTIGATIONS

PLEASE RETURN TO:
OCCUPATIONAL HEALTH DIVISION, BLOCK 2G5:03, SSB HEALTH CENTRE BA 1311
TEL NO: 2230043 FAX: 2230044

Accidents at workplace-Non-healthcare

Workplace	2009	2010	2011
Construction	28(30.4%)	46(35.9%)	75(35.2%)
Manufacturing	20(21.7%)	36(28.1%)	75(35.2%)
Security	-	13(10.1%)	-
Engineering	14(15.2%)	10(7.8%)	-
Transport	8(8.7%)	8(6.2%)	9(4.2%)
Agriculture	-	6(4.7%)	3(1.4%)
Electricity	2(2.2%)	2(1.5%)	6(2.8%)
Private Households	6(6.5%)	2(1.5%)	-
Hotel/Restaurant	-	2(1.5%)	6(2.8%)
Business Activities	7(7.6%)	1(0.7%)	-
Public Administration	-	1(0.7%)	3(1.4%)
Poultry/Abattoir	1(1.1%)	1(0.7%)	-
Service			20(9.3%)
Whole Sale			16(7.5%)
Total	92	128	213

Workplace accidents –Non-healthcare

	2009	2010	2011
Superficial Cuts	39(42.4%)	27(21.1%)	43(20.1%)
Deep cut/Lacerations	25(27.2%)	41(32.0%)	78(36.6%)
Fractures	5(5.4%)	18(14.1%)	19(8.9%)
Amputations	3(3.2%)	2(1.5%)	7(3.2%)
Sprains/Strains	6(6.5%)	16(12.5%)	27(12.6%)
Burns/Scalds/Chemicals	9(9.9%)	3(2.3%)	11(5.1%)
Electrical Shock	-	1(0.7%)	-
Concussion	-	4(3.1%)	2(0.9%)
Eye F/B+ Injury	3(3.2%)	2(1.5%)	25(11.7%)
Gassing	-	14(10.9%)	1(0.4%)
Death (fall from height)	-	-	-
Total	92	128	213

Accidents at workplace-Healthcare

Type	2009	2010	2011
Needle Prick	44(88%)	35(72.9%)	52(86.6%)
Blood / Body Fluid Splash	4(8%)	1(2.1%)	4(6.6%)
Scalpel/Probe	2(4%)	9(18.7%)	3(5.0%)
Glass Cut/Others	-	3(6.2%)	1(1.6%)
Total	50	48	60

Occupational & Work-related Diseases in Brunei 2007-2011(as per records available at OHD)

OD & WRD	2007	2008	2009	2010	2011	Total
Noise Induced Hearing Loss	40	31	48	50	67	236
Industrial Dermatitis	03	04	03	04	02	16
Occupational Asthma	03	01	-	01	-	05
Mesothelioma	-	-	-	01		01

Information & Advisory Service

- Health talks, seminars – for employers and employees
- Educating employees on OHS during medical examinations
- Highlighting various health and safety issues during field visits
- Production of posters, pamphlets, fact sheets, quizzes, interactive audio -visual media and guides – 32 pamphlets & fact sheets
- OSH Consultation sessions for employers – current & new

Information & Advisory Service cont'd

- Preparation of policies and guidelines related OHS –PPE, Prevention of TB transmission in healthcare settings, Management of HCW with occupational exposures to HIV, Hep B & C , Medical examination guidelines for fire fighters & diving(in collaboration with Dept of Fire Services)
- Organising OSH exhibitions
- The Division also promotes its activities through the exhibition booth in Health Promotion Centre and Ministry's website which includes downloadable guides and pamphlets.
Web address:

www.moh.gov.bn/services/occupationalhealthdiv.htm

Occupational Health Division Website



گېنېرل ڪميشن
Ministry of Health
Brunei Darussalam



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❖ HEALTH PROMOTION

- Health Topics
- Health Education Materials (download)

❖ JOB OPPORTUNITIES

- Career in Health
- Information on The Operational Procedure For Foreign Workers Health Screening

❖ GENERAL INFORMATION

- Continuing Medical Education
- Health Calendar
- Local Health Events (Diary - Upcoming)
- Health Messages
- Medical Charges

» OCCUPATIONAL HEALTH DIVISION «

■ [Vision, Mission and Objectives](#)

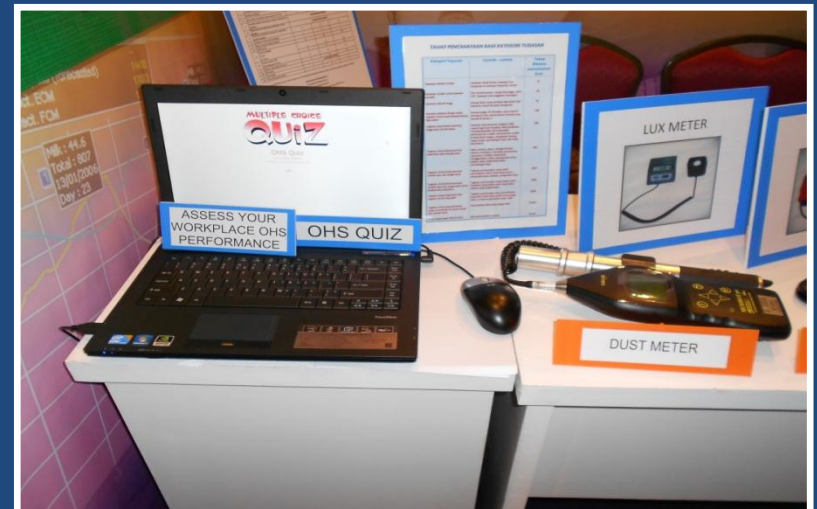
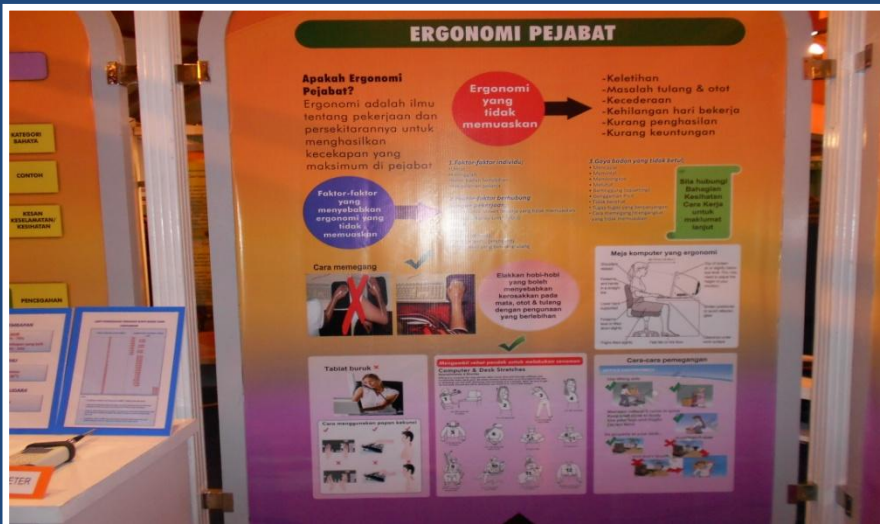
■ Functions of the Occupational Health Division

1. [Monitoring and Surveillance of Workers' Health](#)
2. [Monitoring and Surveillance of Working Environment](#)
3. [Investigation of Complaints and Workplace Accidents](#)
4. [Health Education and Health Promotion](#)
5. [Training](#)
6. [Collaboration with other Organisations regarding Occupational Health and Safety Issues](#)
7. [Occupational Health and Safety Information and Advisory Service](#)
8. [Relevant Legislations](#)
9. [How to Contact Us](#)

OSH Exhibition Booth at Health Promotion Centre, MOH



OSH Exhibition -Civil Service Day(October 2011)



WORKING AS A HAIRDRESSER



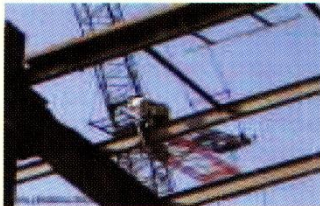
**FACTS ON THE HEALTH
AND SAFETY RISK**

WORKING IN THE AGRICULTURAL INDUSTRY



**FACTS ON THE HEALTH
AND SAFETY RISKS**

WORKING IN CONSTRUCTION



**FACTS ON THE HEALTH
AND SAFETY RISKS**

WORKING AS AN AUTOMOBILE MECHANIC



**FACTS ON THE HEALTH
AND SAFETY RISKS**

Training

- ✓ Organising attachments for doctors(local & overseas -USA) ,nurses , nursing students ,health inspectors
- ✓ Delivering lectures on OHS at Institute of Health Sciences (UBD)for doctors(post-graduate-MSc.PHC,MPH), medical students, post basic nurses (community health) and student nurses
- ✓ Organising CME and CNE sessions on OHS(both hospital & community based doctors & nurses)

OSH Training Attachments (Overseas Trainees)



Collaborative activities with other organizations regarding OHS issues

Ministry of Education

UBD (Institute of Health Sciences)
-training attachments ,lectures

Overseas

University of Washington
-student exchange prog.
-research(proposed)

MOD(JKR/Safety Unit) MIPR

-Inspection reporting
-workplace accidents
data sharing

Occupational Health Division (MOH)

Dept.of Labour WS&H Division/ WC Section

-Preparation of legislations
-Inspection reporting
-Joint inspections
-Labour day activities
-Workmen's compensation
claims
-Preparation OSH national
profile
-Participate in ILO meetings
(local)

Private

Brunei Shell Petroleum
-exchange expertise
-training

Database Management pertaining to OHS

- Medical database
- Industrial database
- Accident at work database
- Occupational & work-related diseases database

Research and studies on OHS

- Musculoskeletal disorders of dental personnel (in progress)
- Employers' awareness on prevention of accidents at workplace(proposed)
- Prevalence of Work-related Musculoskeletal Disorders and it's contributory factors(proposed)
- Asbestos related Lung diseases in automobile mechanics and construction workers at Industries in Brunei Darussalam(proposed)

Contact Details

Occupational Health Division

Block 2 G 5/6

Bandar Seri Begawan Health Centre

Jalan Ong Sum Ping BA1311

Bandar Seri Begawan

Tel : 2230042/3

Fax: 2230037

E-mail : occuphealth@moh.gov.bn

Web : www.moh.gov.bn/services/occupationalhealthdiv.htm

Thank you very much!