Thailand Country Report 2009 adapted from 7th WHO ICWS on PBL, 2008 @ Phnom Penh Cambodia

Thailand Country Report 2009

- General Fact Sheet
- Current Situation of PBL in Thailand
- National Survey of Visual Impairment 2006-7
- SWOT analysis

Thailand General Fact Sheet

Basic country information

- Geography & Area :198,953 sq. miles
- 76 provinces
- Population 65 millions (2006)
- Socioeconomic status

 Income per capita
 = 362 \$ US



Government (ii)		
Туре	Constitutional Monarchy	
Chief of State	His Majesty King Bhumibol Adulyadej (since June 1946)	
Head of Government	Prime Minister	
Capital	Bangkok Metropolitan	
Administrative Divisions	76 provinces	

Source: CIA-The World Factbook 2005 - Thailand (http://www.odci.gov/cia/publications/factbook/geos/th.html)

	Demographics				
2006 Population ^a (thousands)	65,064	Age Structure (20	05) i		
Annual Growth Rate ^b (2006)	0.7%	0 - 14 years	22.0%		
Urban Population (2005) i	31.0%	15 - 64 years	70.0%		
Nationality	Thai	Over 65 years	8.0%		
Ethnic Group ii		Sex Ratio (2005 est.) ii	0.98 male(s)/female		
Thai	75.0%	Unemployment Rate (November 2004 est.) ii	1.5%		
Chinese	14.0%	Population below poverty line (2004 est.) ii	10.0%		
Others	11.0%				

a: Population Change Survey 2005-2006, National Statistical Office

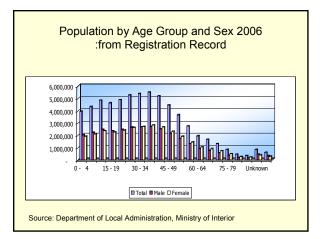
b: Department of Local Administration, Ministry of Interior

I: 2005 ESCAP Population Data Sheet, United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) II: (IAT-The Votif Factbook 2005 - Thailand (http://www.odci.gov/calpublications/factbook/geos/fn.html) II: (IAT-The Votif Factbook 2005 - Thailand (http://www.odci.gov/calpublications/factbook/geos/fn.html)

Education (iii)				
Adult Literacy (M) (2002/2003)	94.9%	Enrolment Ratio	s (2002/2003)	
Adult Literacy (F) (2002/2003)	90.5%	Primary	97.0%	
Public expenditure on Education:total government expenditure (2000)	28.3%	Secondary	81.0%	
		Tertiary	38.0%	
		Compulsory	6-14 years	

Health			
Life Expectancy (M) (2005) i	67 years	HIV/AIDS Prevalence (2003 est.) ii	1.5%
Life Expectancy (F) (2005) i	75 years	HIV/AIDS Figures (2003 est.) ii	570,000
		Infant Mortality (per 1,000) i	17

	Econo	mic (ii)	
GDP - per capita (2004 est.)	\$ 8,100	Contributions to G	DP (2004 est.)
GDP Growth (2004 est.)	6.1%	Agriculture	9.0%
Budget (2004 est.)		Industry	44.3%
Revenues	\$ 30.86 billion	Services	46.7%
Expenditures	\$ 31.94 billion		



	NUMBER OF POPULATION FROM REGISTRATION RECORD BY AGE GROUP AND SEX: 2006					
Age Distribution	Number	%				
0 -14 years	13,105,198	20.86				
15 – 64 years	43,709,887	69.57				
65 years and above	4,580,511	7.29				
Total	62, 828,706	100				
Source: Department of Loca	al Administration, Ministr	y of Interior				

Disability (iv)				
Major Legislation		Rehabilitation of Disabled	Persons Act A.D. 1991	
No. of Persons with Disabilities 1,100,762 (1.8%)		Disability by Type		
Persons with Disabilities Living in Rural Areas	842,216 (76.5%)	Visual	123,157 (11.2%)	
National Coordination Committee on Disability	N/A	Hearing and Communication	240,904 (21.9%)	
Age Structure		Physical	512,989 (46.6%)	
0 - 14 Years	96,469 (8.7%)	Mentals/behavior	81,262 (7.4%)	
15 - 24 Years	143,638 (13.0%)	Intellectual and learning	222,004 (20.2%)	
25 - 59 Years	520,576 (47.3%)			
Over 60 Years	340,079 (31.0%)			

Basic healthcare infrastructures & facilities

- · Number & distribution of hospitals - Gov. : Private hospital = 907: 95
- Number of health center - Health center = 9758
- Public: private = 2,188 :1,000 (hospital eye bed)
- · Government budget on health
 - 92,319 million bath/yr. (35 \$US /person)

Basic healthcare infrastructures & facilities

- Important facilities, equipment
 - Provincial hospital has equipped with necessary instrument for cataract surgery, Glaucoma surgery (secondary + tertiary care)
 - Ophthalmologist in 92 hospitals
- Healthcare system
 - Health center community hospital provincial hospital - regional hospital + university hospital

Human resource in healthcare (2005)Ratio of ...per population • Number of ... per

population

- Ophthalmologist = 793

ophthalmologist per

- Oph. Nurses = 707

• Ratio 1: 95,000

population ratio = 1: 85,000

- - Doctors = 1:3305
 - Nurses = 1: 652
 - Technical Nurse = 1: 3085
 - Pharmacists = 1:8432
 - Dentists = 1 :15143
 - Subspecialty training
 - Cornea
 - Glaucoma
 - Retina
 - Pediatric strabismus
 - Orbit and Oculo-plastic



Human Resources **Development**

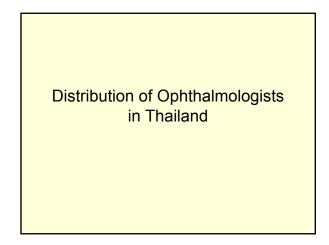
Current Situation

- Eye Doctor and Population Ratio • 1: 85,255

- National Target
 - Eye doctor and Population ratio
 - 1: 100, 000

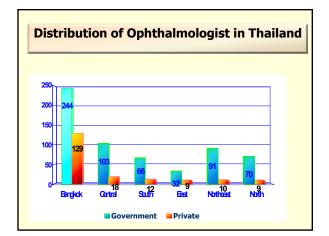
Human Resources in Eye Care

Category	Number	Health workers/population ratio
Ophthalmologists	793	1:85,255
Certified Ophthalmic Nurses (MLP/EC)	707	1:95,626



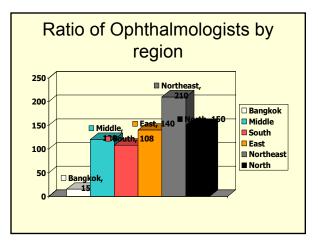
Distribution o Ophthalmologists by region

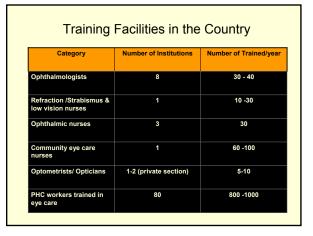
Ophthalmologist	Government Sector	Private Sector	Total	Percentage
Bangkok	244	129	374	47.03
Central	103	18	121	15.26
South	66	12	78	9.84
East	32	9	41	5.17
Northeast	91	10	101	12.74
North	70	9	79	9.96
Total	606	187	793	100
ข้อมูลดิบจากราช? แพทย์	ทยาลัยจักษุ			



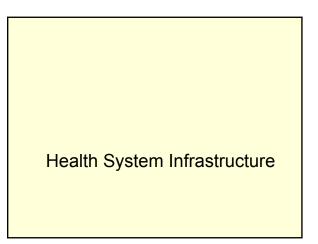
Ratio of Ophthalmologist to
populationRegionRatioBangkok1: 15,064

	- 5 -				
	Central	1:	122,289	120	
	South	1:	108,111	108	
	East	1:	137,417	140	
	Northeast	1:	210,568	210	
	North	1:	149,902	150	
	Total	1:	85,255	85	
Ubor	ratchathani 1: 864,262		Korat 1: 365,049 [1: 2,555,34	46]



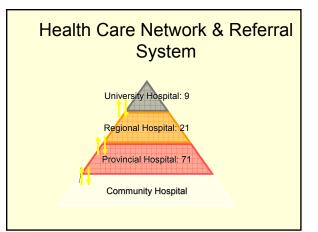


The Expense of Training Eye Care Personnels					
Category	Possible Number	Training cost/person			
Ophthalmologist	40	\$ 12,000			
Refraction Nurses	10	\$ 1000			
Ophthalmic Nurses	20	\$ 2000			
Community Eye Care Nurses	60	\$ 45			
PHC worker trained in eye care	100	\$10			

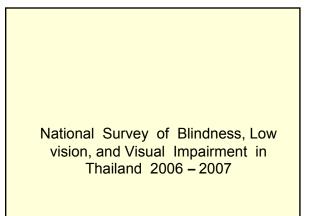


Health System Infrastructure : Health Care Network and Referral System

- Each District (50,000 -100,000): One District (community) Hospital
- 71 Provincial Hospitals
- 21 Regional Hospitals
- 9 University Hospitals



Infrastructures in Eye Beds				
Facilities	Number of Eye Beds			
Government Hospitals	2,188			
NGOs Private Hospitals	approx. 1,000			



National Survey of Blindness, Low vision, and Visual Impairment in Thailand 2006 – 2007

> W. Jenchitr, P. Harnutsaha, S. Rayawa, A. Nitiapinyasakul, S. lamsirithawon, et al. Thai J PBL Hlth Ophthalmol 2007: 21; 5 - 61

National Survey of Blindness in Thailand

Blindness Survey	Prevalence of Blindness	Most common cause	Prevalence of cataract	
1 st Survey (1983)	1.14%	Cataract	47% 73%	
2 nd Survey (1987)	0.58%	Cataract		
3 rd Survey (1994)	0.31%	Cataract	74%	
4 th Survey (2006)	0.59% (LV = 1.57%)	Cataract	52%	

National Survey of Visual Impairment 2006-7

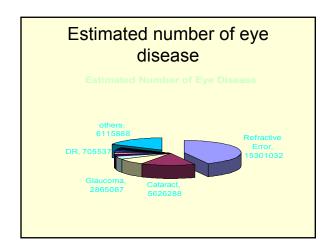
- Stratified, Cluster Random Sampling
- Probability Proportional to Size (PPS)
- Age and sex specific adjusted prevalence of blindness and low vision
- Total Population: 61,395,496 from 76 provinces
- Samples: 21,709
 52 districts in 21 provinces and Bangkok

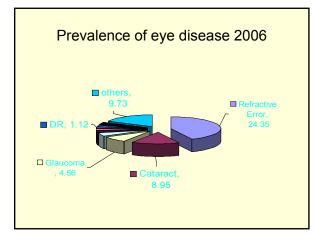
Visual acuity of right and left eye of samples in TVIP

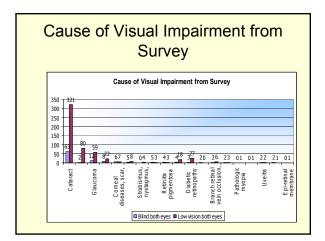
Weighted preval stimated number of vis 2006			
Visual impairment	Prevalenc e (%)	Estimated total numbers	
Low Vision one eye	2.18%	1,369,362	
Low Vision both eyes	1.57%	987,993	
Blindness one eye	1.59%	996,040	
Blindness both eyes	0.59%	369,013	
Blindness one eye, low vision one eye	0.39%	242,562	
Total	6.32%	3,964,970	

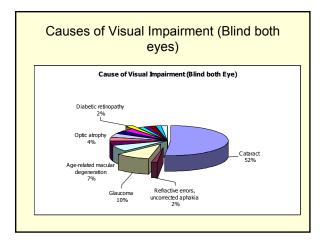
Estimated number and prevalence of visual impairment by sex

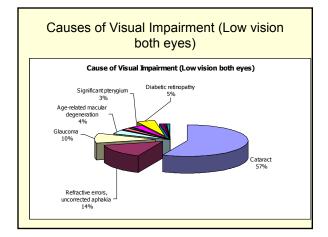
Sex	Low Visio n one eye	Low Visio n both eyes	Blindness one eye	Blindness Both eyes	Blindness One eye, Low Visio n one eye	Total No. of visual impairment
No. of males	500,419	252,396	467,324	266,827	107,311	1,594,277
%Male	2.08%	0.93%	2.09%	1.03%	0.39%	
No. of females	868,943	735,596	528,716	102,186	135,251	2,370,692
%Femal e	2.33%	1.93%	1.41%	0.29%	0.39%	

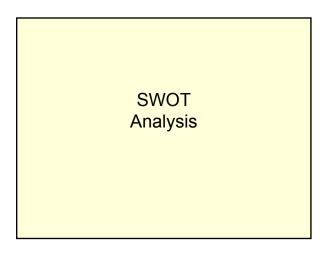












Strength

- Qualified ophthalmologist
- Ophthalmic nurses
- PHC workers
- Optometrist
- Royal college of ophthalmologist
- Tertiary care facilities
- Institute of PHD

Weakness

- National policy inconsistent
- Collaborations
- Research
- Information system

Opportunities

- National Institute of Ophthalmology
- Greater community orientation
- · More equity in service provision

Threats

- Political changes
- Economic situation

Evolution of PBL in Thailand

- Campaign Approach
- Primary Eye Care as part of PHC
- Integrated Eye Care System/HS
 - Integrated with NCD
 - Healthy City projects
- "Eye Health across the life spectrum"

Pre- conception to after Death

- Genetic testing
- Ante natal care
- Intra natal care
- Post natal and neonatal care
- Childhood and adolescent care
- Working age
- Post retirement and Elderly
- At death

Reasons for Success

- Government commitment and Policies
- Professional Commitment and Team work
- Enlightened Leadership
- Community awareness and involvement
- Strong Primary Health Care approach
- Appropriate Work force development
- Good Referral system
- Monitoring and evaluation