





Vision Center in China

He Eye Hospital, Shenyang, China

Global Consultation on Reaching the Unreached October 8,2007---LAICO, Madurai

Country profile

- Middle income country in 2006
 - GDP: 20.9407 trillion yuan (US\$2.7 trillion)
 - Per-capita :
 - □ 11,759 yuan in urban resident
 - ☐ 3,587 yuan in rural residents
 - □ \$2043 in all residents
- □ Population:
 - 1.31 billion
 - 18% of the people >50 years old,
 - 120 millions over the age of 60 years.
- Area: 9,600,000 square Km



Primary Health Care Infrastructure

- □ County Hospitals: over 2,400
- □ Township Hospitals: over 50,00
- □ Village Health Stations: over 75,000

Ophthalmic Resources

- eye doctors: 22,000
- Eye care units (clinic and hospital): 4000
 - Over 3300 can do cataract surgery
- □ Cataract surgeons: more than 10,000
- 400 county hospitals:
 - No eye doctors have the capacity for doing cataract surgery

Magnitude of Visual Impairment

- According to latest data from the Second China National Sample Survey on Disability (2006-2007)
 - 12.33 million in 2006 vs 7.55million in 1987
 - VI: Best corrected vision in better eye less than 6/18

Major Disease caused VI in 2006

- Cataract 56.7% --7 millions (0.54% in all age groups vs 5.8% in age over 60)
- Fundus diseases 14.1% ---1.74 millions
- Cornea diseases 10.3% -----1.27millions
- Refractive error (7.2% ----0.88million
- Glaucoma 6.6%)----0.81 million

The priority of eye diseases in different age groups

	1	2	3	4	5
Preschool (3-5 yrs)	Refractive Error	amblyopia	strabismus	Retinal disorders	Ocular trauma
Primary school(6- 12 yrs)	Refractive error	Ocular trauma	amblyopia	Retinal disorders	Strabismus
Middle and high school(13- 17 yrs)	Refractive error	Ocular trauma	Conjunctivitis & keratitis	Juvenile glaucoma	Uveitis
University/college (18-22 yrs)	Refractive error	Conjunctivitis & keratitis	Myopic macular disease	Juvenile glaucoma	Uveitis
age >40 yrs	Glaucoma	DR	Ocular trauma	Cataract	CRVO
Elderly(>65 yrs)	cataract	glaucoma	DR	ARMD	CRVO

Current trends

- □ Refractive error (age 3-22 yrs)
- □ Diabetic retinopathy (age over 40 yrs)
- ☐ Glaucoma (age over 40 yrs)
- ☐ Cataract (age over 65 yrs)
 - Trachoma is not problem in China now.
 - Refractive error is becoming main VI caused disease in young population.

Challenge- Health care system in China

Previously

- 1)Centrally planned but locally Managed welfare approach
- Government owned provider
- 3) Medicare free based
- 4) Poor are more protected

Currently

- 1) Centrally planned and free- market approach
- 2) More private involvement
- 3) Individual out-of-pocket and insurance based
- 4) Poor are less protected

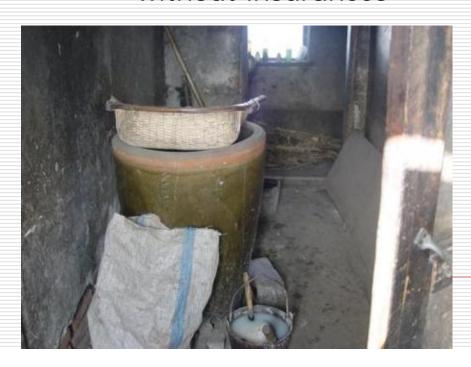
Health care system reform since 1990s was failed announced by the state government in 2005, new policy is becoming soon

Barriers

- ☐ Uneven ophthalmic resources and inequity in service provision :
 - 80% eye doctors in urban area; 80% eye patients in rural area, few of services in rural areas with greatest need
 - 400 county hospital do not have cataract sugery service
 - Lack of social support system in poor and marginalized populations
- Patients with VI increase with aging population, but do not have effective primary eye care system.
- □ Lack awareness of eye care

Barriers

- □ Economic/financial barriers:
 - Poor people in the rural area do not afford to visit eye clinic in cities
 - Eye care service in cities is expensive to poor people without insurances





Barriers--Accessibility

- No permanent primary eye care facility
- Poor doctor/patient relationship: tensive, do not trust each other.
- Lack of communication
- Long distance

Multiple visits are difficult for the elder in the

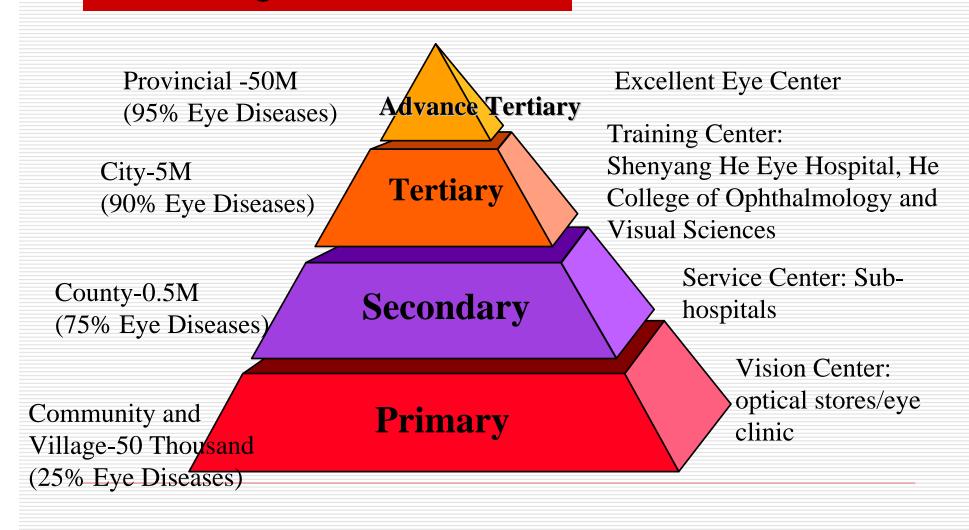
rural area



How to overcome barriers

- □ The Concept of vision center (VC):
 - based on four tier pyramid model to provide eye care for the needy population

Vision2020 Pyramid and He Eye Care System















Service centers



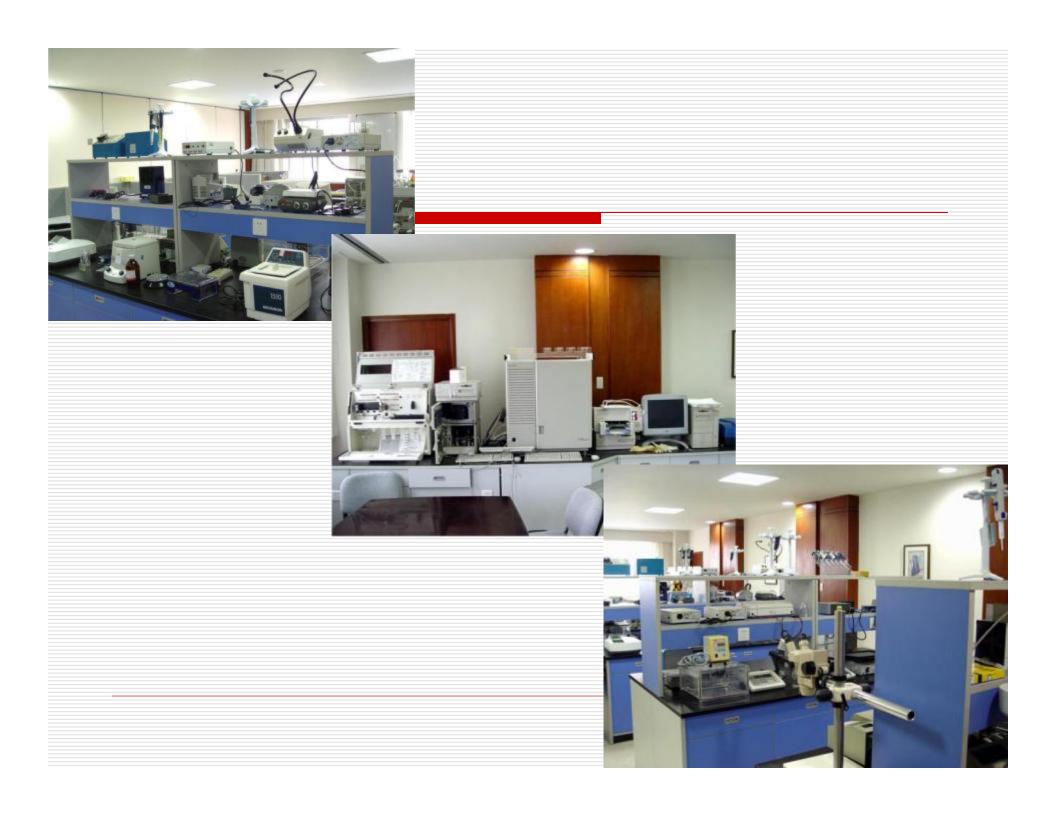


Operation Theater









The important role of VC in He Eye Care system

- The Vision center is permanent primary eye care site, and usually cover 50 thousand population.
- The vision center currently is the complement to outreach screening and will be a substitute of outreach camps in the future.

The model of Vision center-1

- □ Primary level:
 - City—Optical shop
 - Equipment Trial sets Autorefractor slit-lamp
 - Eye disease: RE cataract ocular surface disease
 - Town/village—township hospital
 - After trained in He eye hospital, family doctors can use the appropriated techniques to screening cataract, ocular surface disease, and know how to do refractive examination

The model of Vision center-2

- □ Secondary level City : Eye clinic/ optical shop
 - Refractive exam, strabismus and amblyopia, low vision rehabilitation, ocular surface diseases, glaucoma, DR
 - Equipment
 - □ Slit Lamp
 - Retinoscope
 - □ Direct Ophthalmoscope
 - □ Trial sets
 - Autorefractor
 - Tonometer
 - computer and internet connectivity
 - Low vision aids

Aims of Developing Vision Centers in He Eye Care System

- Increase number of people served
- Access to poor people in communities and villages
- Provision for rural people
- Use and availability of equipment and materials in communities and villages
- Development and support from within the community and the village

Exiting VCs in He Eye System

- He Eye Care System has 40 optical shops, 35 in Shenyang city.
- Each optical shop is well equipped with
 - Slit Lamp
 - Retinoscope
 - Trial sets
 - Autorefractor
 - computer and internet connectivity
- 4 optical shops also have other equipments
 - Direct Ophthalmoscope
 - Tonometer
 - Low vision aids (only 2 shops)

Distribution of VCs in Shenyang City MAPTOWN CH 五一店 86210047 整結区里北江街46号6门 乐购店 86618557 干决区面山东路10号 斯湾店 86731595 皇站区斯湾街15号6门 報網店 86249110 皇城区昆山中路140号 北京街店 22500708 沈阳市和平区北京街74号 北極病 86905345 于洪区嵛山东路26号 东区 中街店 24845897 沈河区中街路172号 大西店 22944461 沈河区大西路398号 三好店 23928424 汶河区青年大街189号 泉田店 24228163 东麓区賞民街17号5门 和維佐 88432826 大东区和维路64-1号1门 文艺店 24110851 汝河区文艺路37号 **南塔庇 24508108 东陵区文化路137号** 东站店 68409815 大东区东辽街11号 清江店 24545398 大东区浙江街181号 十三株器 22703535 沈河区十三株路117号 元荣街 23218828 和平区光荣街34号 西区 中山店 23830289 和平区中山路106号 南京街店 23517830 和平区南京南莞33号 华新店 23381033 和平区和平南大机84号 稳华级 25006361 被西区稳华街3号6门 **东湖店 25832008 于洪区黄寿路13-8号** 蒙工店 25747801 铁西区蒙工南侧13号 兴雕店 25444929 铁西区兴趣街181号 滑翔店 25094809 装置区滑翔路12号5门 **光华店 31672180 和平区中山路17号** 外华 新城子店 89810808 新城子区贵州路25号 辽中底 87889228 辽中昌南杨大要 苏家宅店 89117676 苏家宅区模板路78号



VC functions of He eye eye system

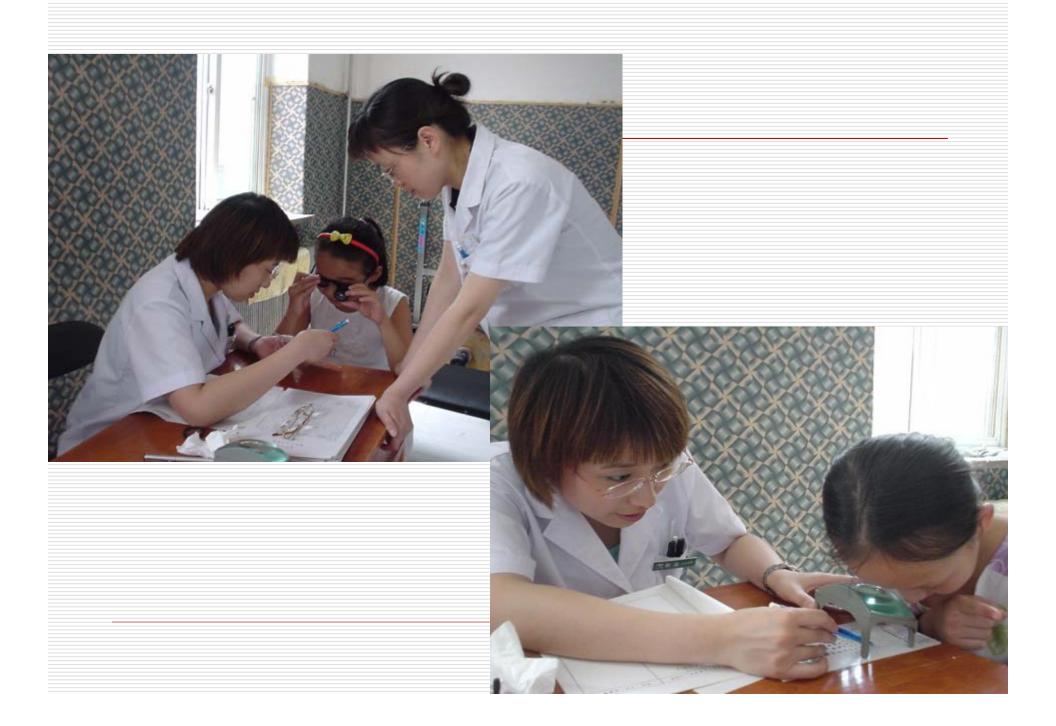
- Early Intervention --Early detection and assessment
- Health promotion awareness of common eye diseases
- Screening and referral
- Low vision Rehabilitation in certain VCs
- Follow-up of post-operation patients
- Treatment VI caused by RE by glasses





Low vision aids









Who can help to build VC

VOLUNTEERS

- Supports from government and NGOs
 - CMB has approved a five-year plan to support He Eye Hospital to establish 8 VCs in township hospitals in Liaoning province from 2008.
 - Local health bureaus and CDPF could contribute for developing township VCs.

Benefits from building VC as permanent primary eye care facility

- ☐ 1. Accessible for all:
 - Equity
- □ 2. Efficiency:
 - appropriate use of technology (e.g. Slit lamp, visual chart, trial lens set)
- 3. Quality
 - Inexpensive
 - Good doctor –patient relationship
 - Integrated care (preventive +promotion +referral)

Thank You



He EYE HOSPITAL

