



OUR LATIN AMERICAN DESK MEETING IN FLORIDA 2013



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Global Data on Visual Impairment. Geneva 2010

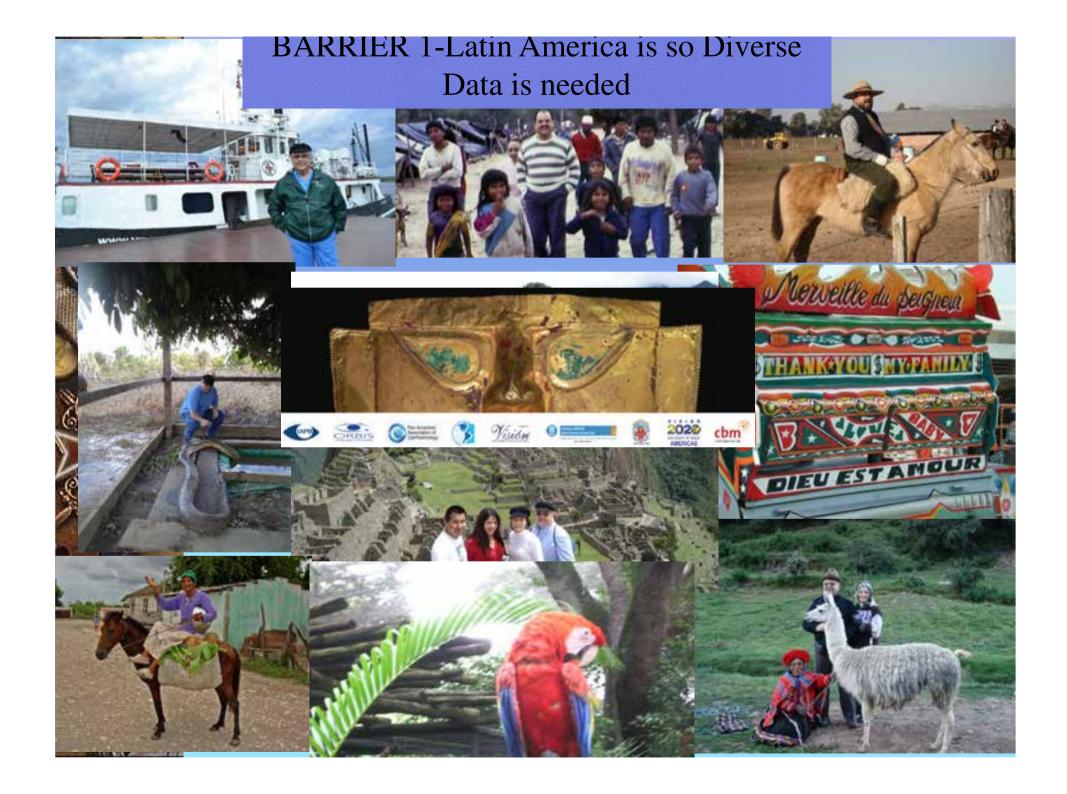


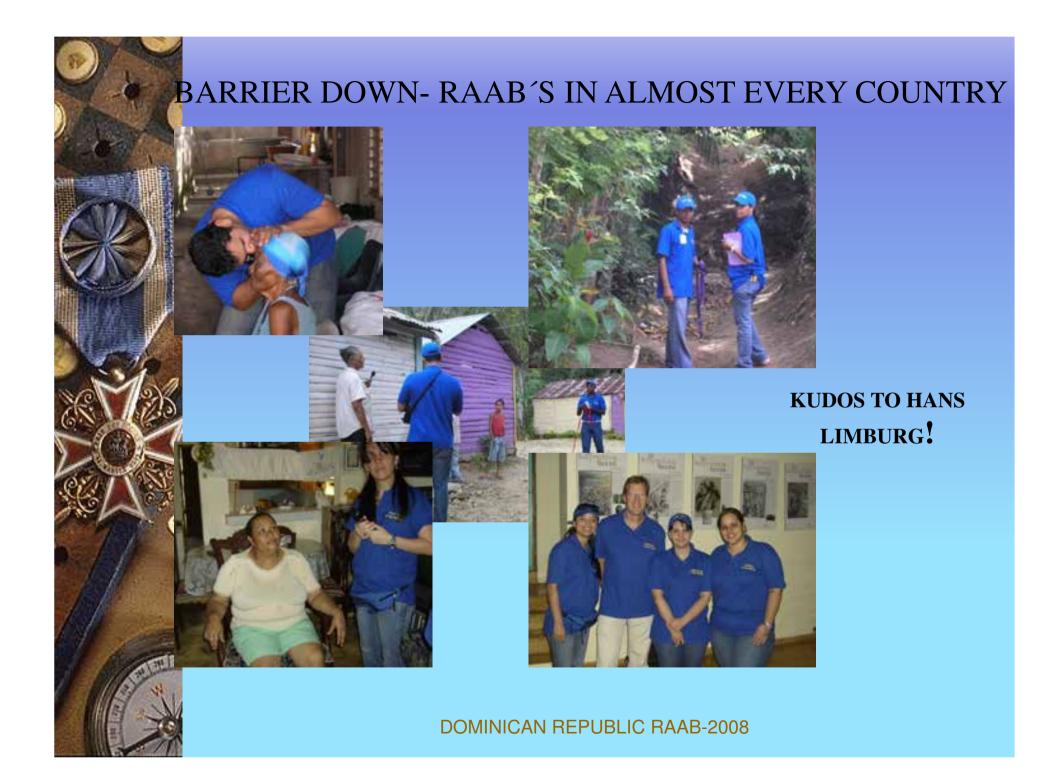
		Blindness	Low Vision	Total
Region	Population (millions)	# in millions	# in millions	# in millions
America	915	3	23	26
Worldwide	6637	39	246	285



Barriers to GAP in Latin America?

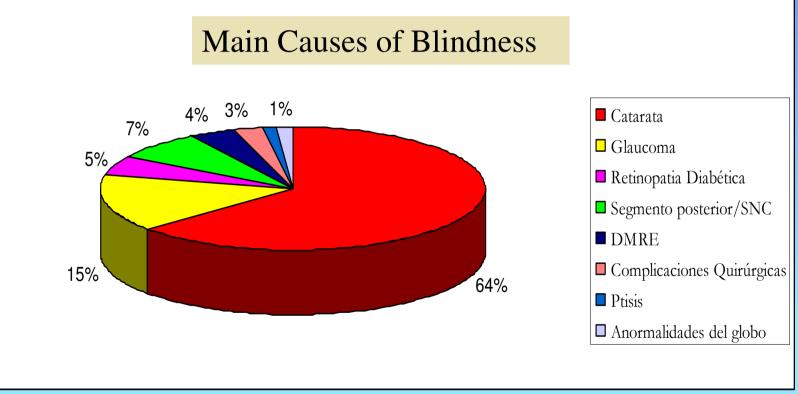
- 1. LACK OF DATA
- 2. SOCIOECONOMIC LEVEL
- 3. LACK OF EDUCATION
- 4. POVERTY
- 5. LACK OF OPHTHALMOLOGISTS
- 6. RURAL POPULATION
- 7. AGING POPULATION
- 8. OTHER HEALTH PRIORITIES PAHO
- 9. APPROPRIATE TECHNOLOGY
- 10. DIABETES EPIDEMIC
- 11. OPTOMETRY VS OPHTHALMOLOGY
- 12. UNIVERSAL HEALTH CHALLENGE







Typical RAAB of the Americas



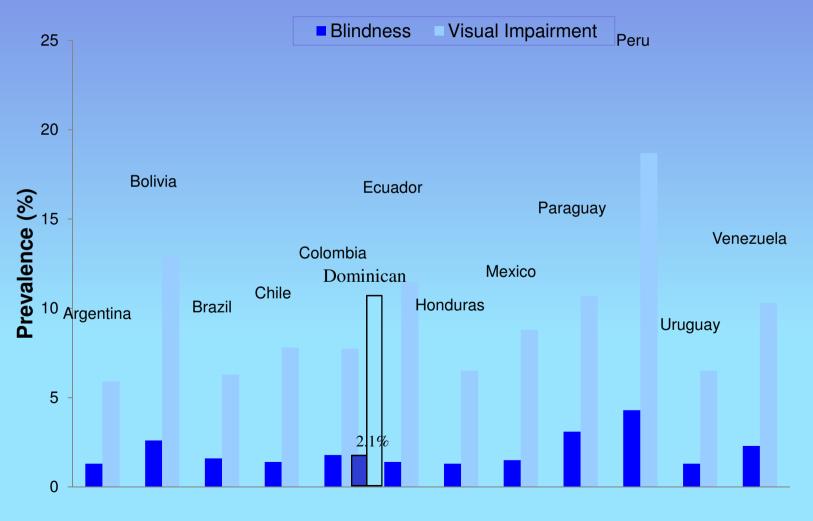
Blindness Survey RAAB 2008, Dominican Republic

Prevalence of Blindness Data from RAAB Studies Performed by Hans Limburg

Best Corrected Visual Acuity <20/400	Visual Acuity as it Presents <20/400 (IC 95%)
1.8 (1.2-2.4%)	1.9 (1.3-2.5%)
1.3 (0.3-2.3%)	3.1 (2.2-4.4%)
1.9 (1.5-2.3%)	2.7(1.6-2.5%)
2.0 (1.5-2.5%)	2.3 (1.7-2.8%)
1.0 (0.7-1.3%)	1.3 (0.9-1.6%)
1.4 (0.7-2.1%)	1.6 (1.0-2.2%)
1.3 (0.9-1.7%)	1.5 (1.1-1.9%)
1.2 (0.7-1.7%)	1.4 (0.8-1.9%)
2.6 (2.1-3.1%)	3.6 (2.9-4.3%)
3.5 (2.9-4.2%)	3.6 (2.9-4.3%)
	<20/400 1.8 (1.2-2.4%) 1.3 (0.3-2.3%) 1.9 (1.5-2.3%) 2.0 (1.5-2.5%) 1.0 (0.7-1.3%) 1.4 (0.7-2.1%) 1.3 (0.9-1.7%) 1.2 (0.7-1.7%) 2.6 (2.1-3.1%)



Latin America Prevalence of Blindness/Visual Impairment



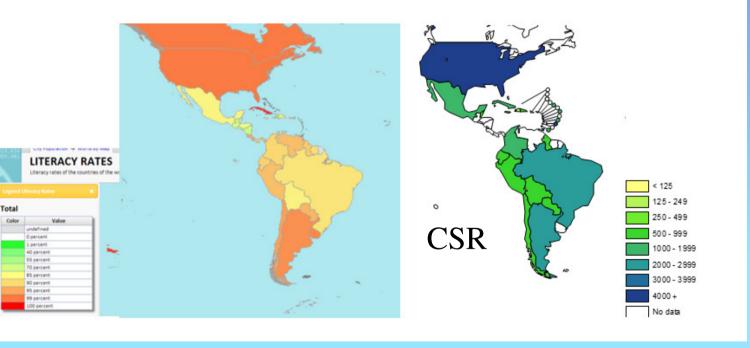


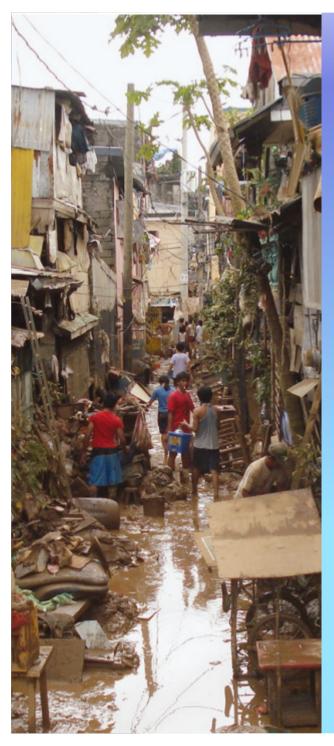
BARRIER 2- Blindness Correlates Inversely to Socioeconomic Conditions and Health as a Priority

Economy/Health as a Priority	% Blind	No. Blind per Million
Good	0.25	2,500
OK	0.50	5,000
POOR	0.75	7,500
Very Poor	1.00+	10,000+



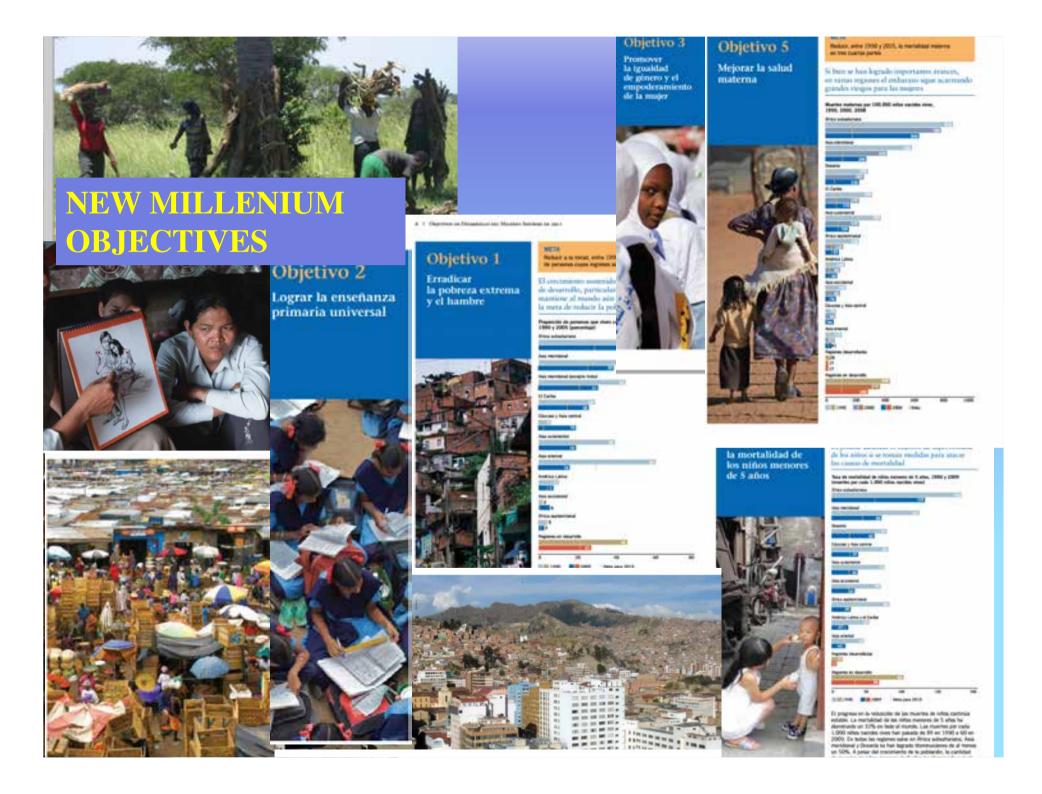
BARRIER 3- Literacy Rates Correlate with Cataract Surgical Rates





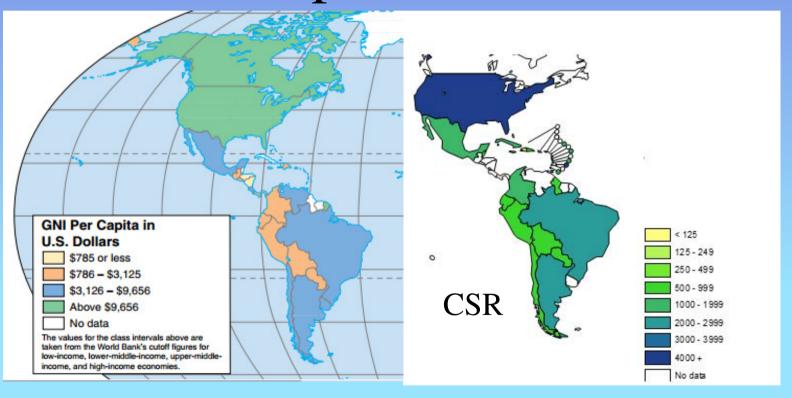
To get from here to there you need: Education







BARRIER 4 Blindness Correlates with Per Capita Income



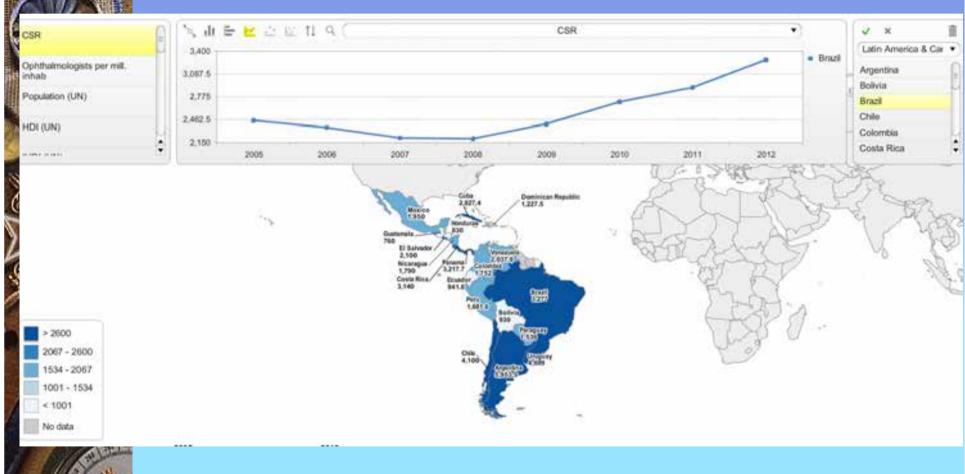


Barrier Down- CSR's are improving across the board in almost every country in Latin America For the Interactive Map of the Americas Visit Vision2020-la

Country	Price for 10L Surgery Private Sector (UNESCO) 2008	Ophthalm ologists per mill inhab 2011	Ophthal mologists per mill inhab 2012	CSR 2005	CSR 2006	CSR 2007	CSR 2008	CSR 2009	CSR 2010	CSR 2011	CSR 2012	% CSR Change 2005/2012
Argentina	1245	142	146	1769	2100	2089	2350	2650	2622	5100	5953	+236,54%
Bolivia	695	36	34	.563	602	667	900	900	930	930	930	H5.0%
Brazil	1278	70	74	2440.	39	2212	2200	3400	2700	2900	3277	+13,88%
Chile	1167	-44	46	1731	1930	2132	2830	3200	3450	3789	4100	1214.25%
Colombia	582	43	41	1109	1350	1276	1350	1510	1590	1752	1752	447,35%
Cesta Rica	1200	31	28	1400	2049	2144	2900	2950	3000	3200	3140	+124,29%
Cuba	- 53	160	67	1600	2219	3125	2324	2037	2428	2708	2827	474,71%
Dominican Republic	-	35	40	710	682	779	900	1000	1247	1432	1227	472,89%
Ecuador	1000	38	25	801	131	156	1050	1350	1490	1737	942	+17,56%
El Salvader	750	25	27	1104	1151	1411	1050	1100	1150	1743	2100	+90,22%
Gunepula	700	16	16	\$24	900	175	900	930	990	300	900	4.90%
Houdun	800	12	13	840	558	631	750	700	300	171	830	-51,70%
Mexico	- 6.1	45	47	101	1200	1138	1300	1450	1550	1720	1950	+124,33%
Nicaragua	700	20	- 12	460	822	999	1300	1430	1610	1790	1790	420.05
Penama	1925	45	32	ŪF.	1180	1159	1197	1321	1693	1992	3310	+172,48%
Prospury	1200	31	32	800	\$95	957	1000	1100	1311	1351	1539	+190,25%
Peru	938	38	34	761	\$63	880	1429	1572	1400	1599	1682	+120,87%
Uruguay	1420	57	57	+:	2000	1890	3933	4150	4419	4609	4699	+134,95%
Veneroela	1135	59	43	760	1646	1754	2750	2950	3483	3650	2030	*112,28%



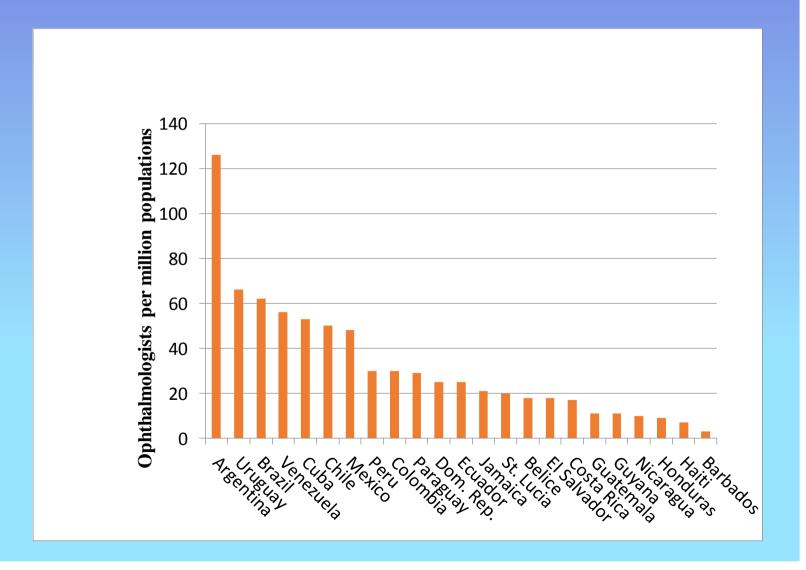
Barrier Down- interactive map of CSR's thanks to IAPB







Barrier 5- Not enough Ophthalmologists











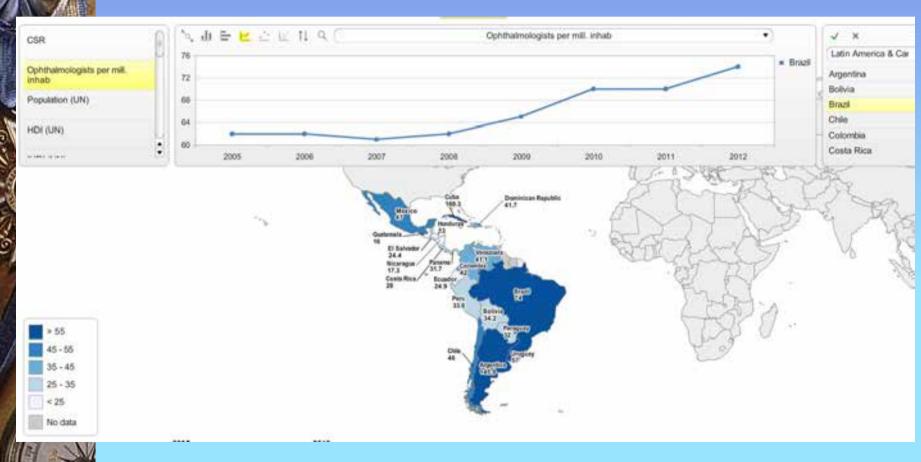






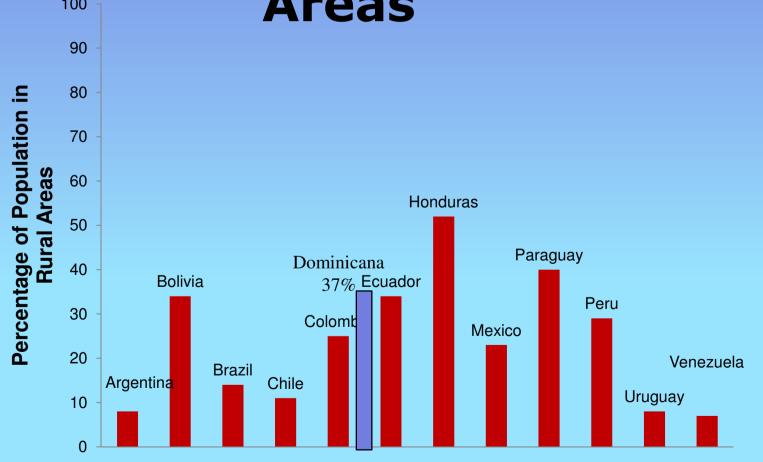


Barrier DownOphthalmologists per Million Increasing





Barrier 6 - Percentage of Population Living in Rural Areas





A Mission in the Amazon River of Peru





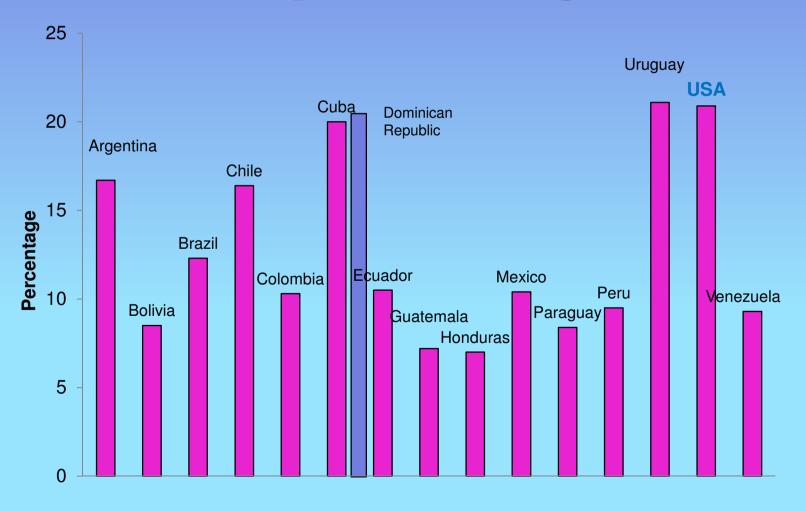
Operating Theater Inside the Boat





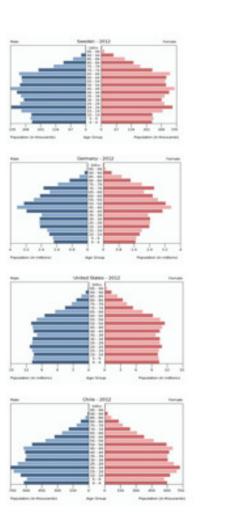


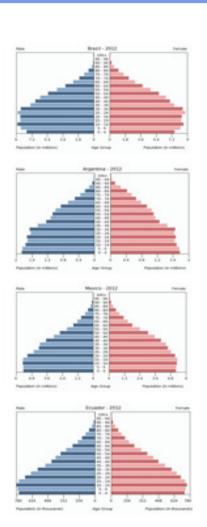
Barrier 7- Percentage of Population ≥ 60 years of age





Samples of Age Structure From the World







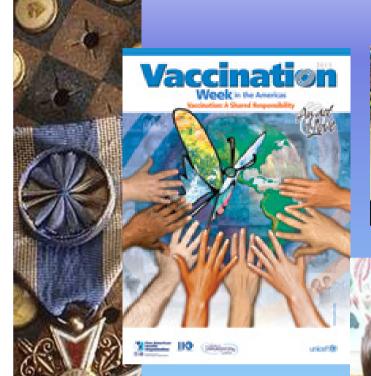
Barrier 8- There Are Other Priorities for PAHO

Ten diseases targeted for elimination as a public health problem

- Lymphatic Filariasis
- Onchocerciasis
- Blinding Trachoma
- Chagas disease (domestic vectors, blood transfusion)
- Human Rabies transmitted by Dogs
- Plague
- Leprosy/Hansen's disease
- Malaria (where possible)
- Neonatal Tetanus
- Congenital Syphilis



Katia Díaz, PhD, <u>www.paho.org</u> Information Systems Adviser for PAHO/WHO Office of the Director,











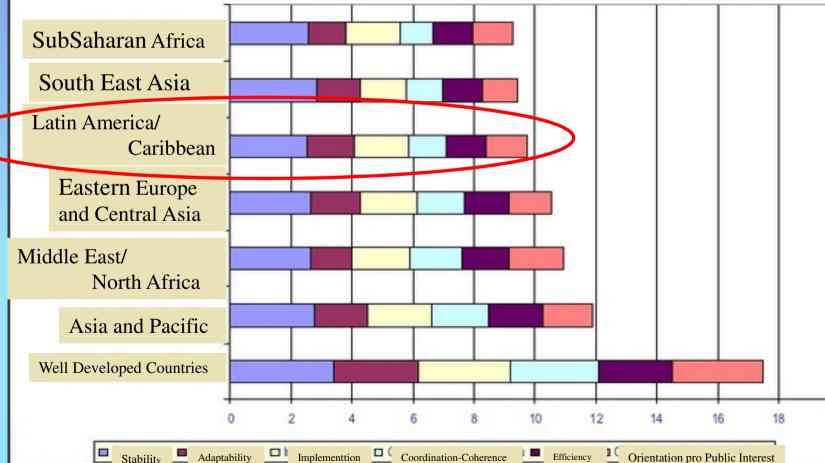


Peer 2 Peer Educators



WHO Grading of Health Policy

Health Policy Charcteristics of the World by Regions







Workshop in Santo Domingo





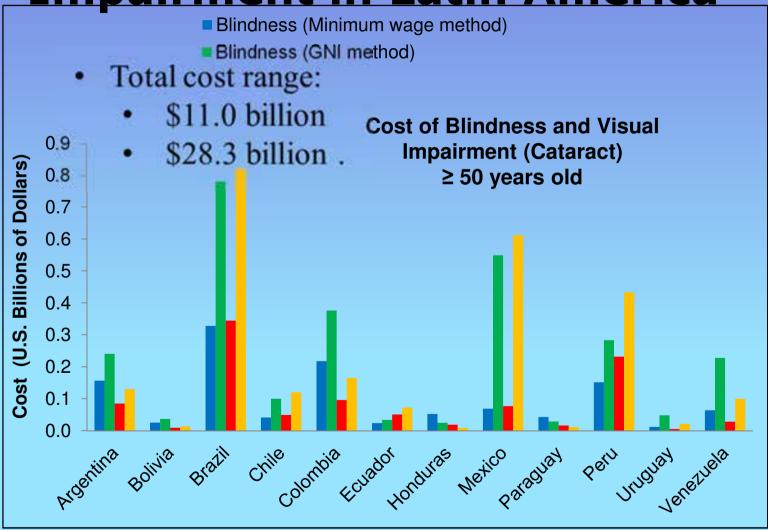


How much does blindness cost? The Economics of the Problem

- Unemployment
- Needs a guide
- Looses mobility
- Cannot read
- Increased dependence on others
- Quality of Life Diminishes
- Becomes an Economic Burden



Cost of Blindness/Visual Impairment in Latin America

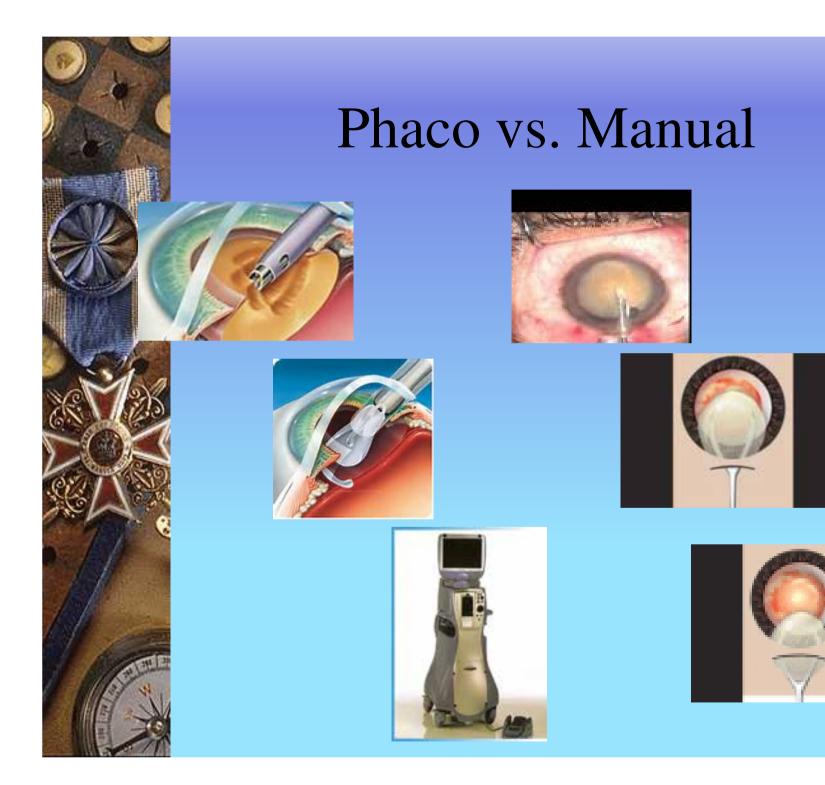




Barrier 9-Appropriate Technology

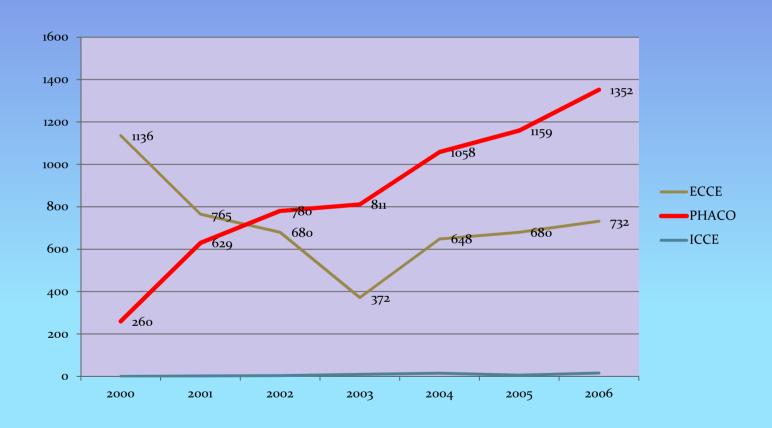
- Phacoemulsification
 - More Expensive
 - Small Incision 2-3 mm
 - Less Time
 - Sutureless
 - Less Astigmatism
 - Wants 2nd eye done
 - Longer Learning Curve
 - Serios Complications for Beginner

- MSICS, Extracapsular
 - Less Expensive
 - Incision 6-8 mm
 - Takes Longer
 - Needs Sutures (?)
 - More Astigmatism
 - Waits for 2nd eye
 - Short Learning Curve
 - Easy to teach and the complications are less serious

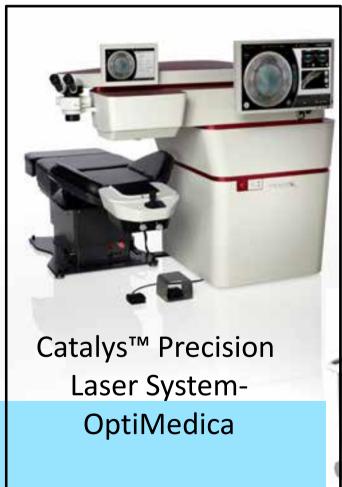




Surgical Technique for Cataract Extraction at Hospital Dr. Elías Santana 2000-2006



Femtosecond Laser Assisted Cataract Surgery

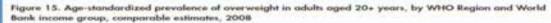




Alcon LenSx® Laser

LensAR Laser System™

BARRIER 11- THE DIABESITY EPIDEMIC



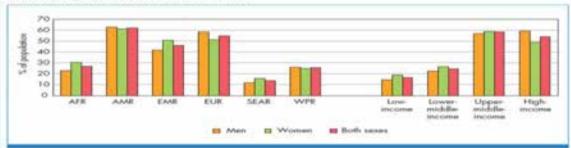
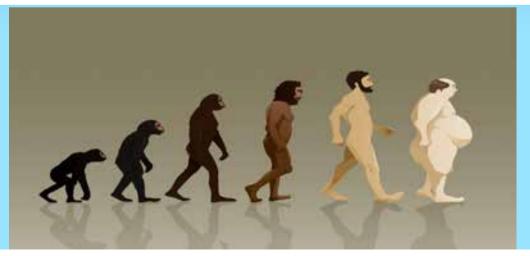
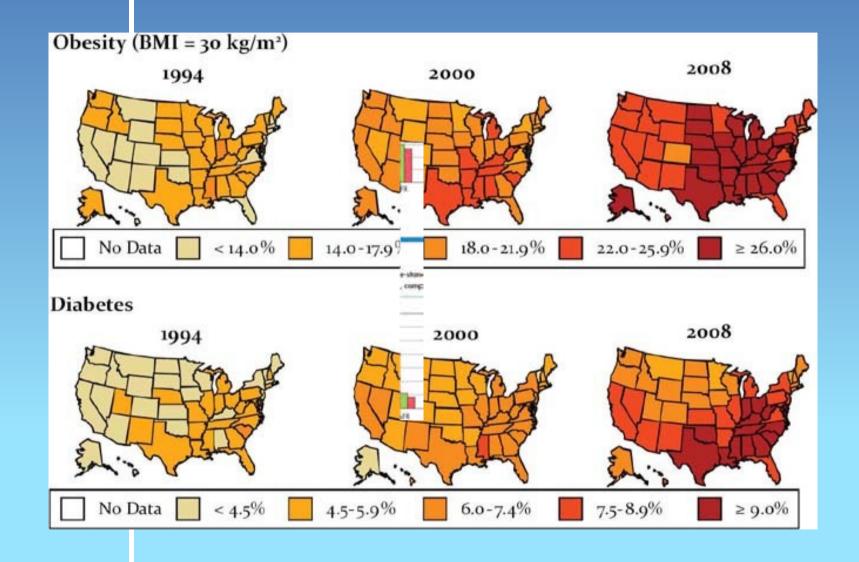


Figure 16. Age-standardized prevalence of obesity in adults aged 20s years, by WHO Region and World Bank income group, comparable estimates, 2008



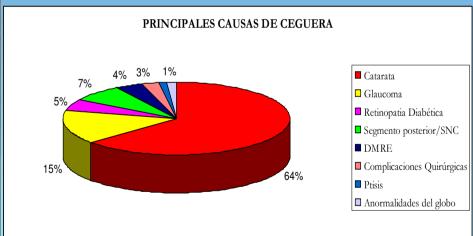


WHO DATA



BLINDNESS FROM DIABETIC RETINOPATHY IS ON THE UPSWING





Barrier 11- The Battle of the Bulge between Ophthalmology and Optometry

Coexist

- Colombia
- Mexico
- Venezuela
- Panamá
- El Salvador
- Honduras
- Nicaragua
- Bolivia
- Ecuador

Optometry not Allowed

- Brazil
- Argentina
- Chile



Barrier 12- The Problem of Health coverage

- Law 100 in Colombia
- Law 87-01 in Dominican Republic
- Caja de la Seguridad Social in Costa Rica
- Sistema Único de Saúde in Brazil
- Salud Universal en Méjico: Teoría
- FONASA e ISAPRE en Chile
- Obama's "Affordable Healthcare Act" in the U.S.A



AUGE Guarantees Cataract Surgery





Enfermedades Crónicas Enfermedades del Corazón y Cerebro *Enfermedades de la Visión Tratamiento guirúrgico de Opacidad del cristalino que disminuya o perturba la visión. cataratas Vicios de refracción en Un vicio de refracción es la consecuencia de una relación personas de 65 años y más inarmónica entre los elementos ópticos (córnea v cristalino) y el largo axial del ojo (diámetro anteroposterior), o una falta de acomodación. Se denomina ametropia a los vicios de refracción que pueden corregirse con lentes correctores y corresponden a hipermetropia, miopia y astigmatismo. La presbicia es la disminución de la capacidad de vernítido de cerca v. se corride con lentes. Retinopatía diabética Es una complicación de la diabetes, que consiste en un daño progresivo de la retina, asociada a la duración de la diabetes y a un mal control metabólico. Se puede presentar en pacientes con diabetes mellitus tipo 1 ó tipo 2. En su grado máximo puede llevar a un desprendimiento de retina. Es la primera causa de cequera en edad laboral. Desprendimiento de retina Consiste en la separación de la retina neurosensonal del epitelio pigmentario, que produce una rápida perdida regmatógeno no traumitico de la agudeza visual sin presencia de dolor.

· Intervenciones Quirúrgicas

Tratamiento de Cánceres

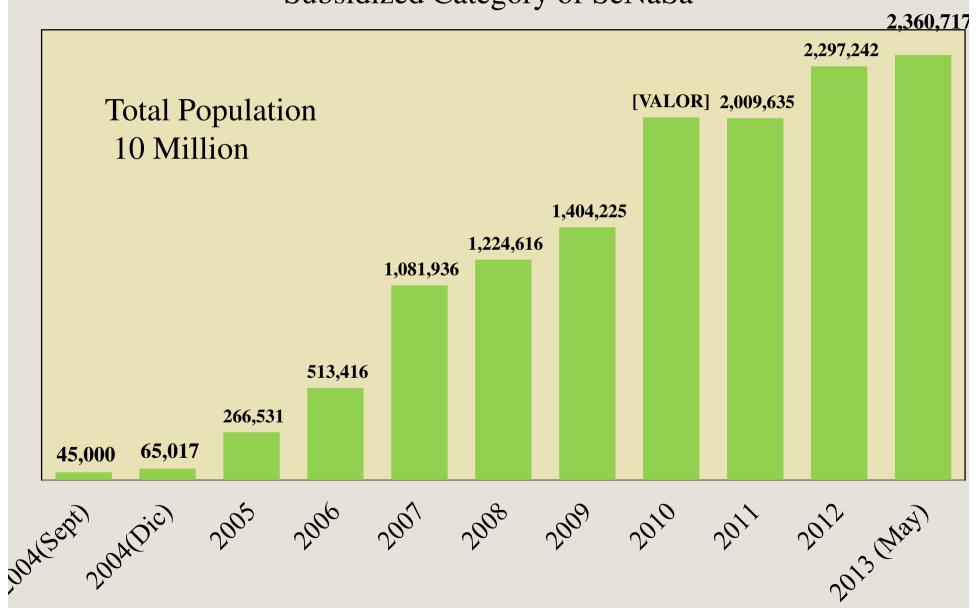


Guaranteed Health Coverage by Governmental Decree "Universal Health Care"

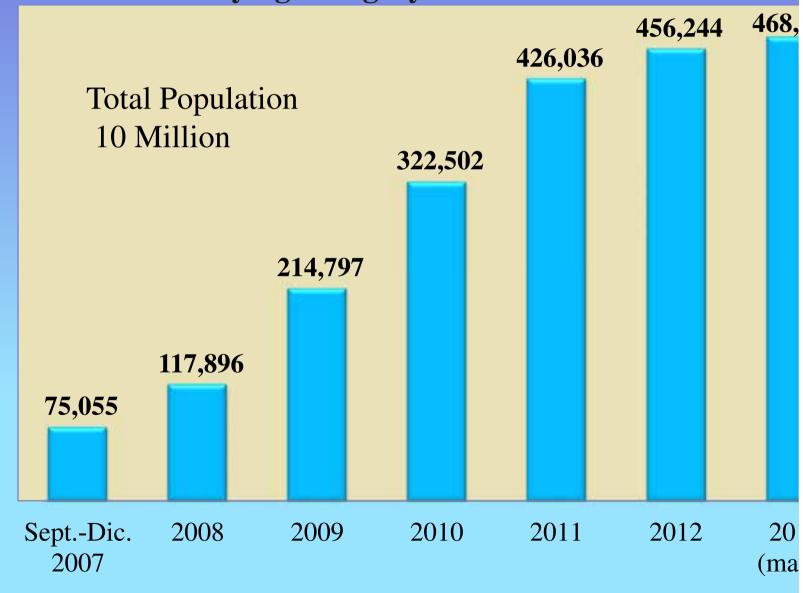
1. Mandate to Purchase

A mandate that all Americans (and legal residents) purchase Health Insurance. It will be a misdemeanor offense (resulting in a fine only) for a live legal resident person to be found uninsured.

Population of patients that is annually integrated into the National Health Insurance of the Dominican Republic in the Subsidized Category of SeNaSa



Population of Patients in the National Health Insurance of the Dominican Republic in the Paying Category of SENASA





Insurance Situation of the Dominican Republic March of 2013

1. National
Health
Insurance
Subsidized
2,360,717

Private Health
Insurance
Paying
2,747,735

4,900,000
Million People
Uninsured

Data from ADARS



THANK YOU FOR YOUR GENEROUS SUPPORT AND CONTRIBUTION TO THE REALIZATION OF THE VISION 2020 LATIN AMERICA STRATEGIC PLAN!



GROUP PHOTO FROM MARCH 2012 V2020 LA STRATEGIC PLAN MEETING IN LIMA, PERU