

Andrew Blatt MD
Clinical Assistant Professor at Washington University School of Medicine
St. Louis Eye Care Specialists LLC

HAITI 2010



Haiti

First Independent nation in Latin America

First Black led republic in the world with slave rebellion in 1804

Poorest country in the Americas per Human Development Index

Capital is Port-au-Prince

Office languages : French and Creole





Economy of Haiti

- GDP of 7 billion USD in 2009 with GDP per capita of 2 USD per day or 790\$ / year
- (Bill Gates wealth is 42 billion)
- Population 9 million
- 50% illiteracy
- 80% live in poverty
- Among the most corrupt in corruption perceptions index 12 out of 180 countries
- January 12, 2010 earthquake magnitude 7 hit port-au-prince with 230,000 killed



Health Care in Haiti

- 40% of population have access to basic health care
- Half of the children in Haiti are unvaccinated
- 90% of children have water-borne disease or intestinal parasites
- 5% of adult population are HIV positive
- 1/3 of children die before fifth birthday
- Life expectancy in Haiti is 53 years (78 in US)



- Infant mortality rate 74 deaths per 1000 live births (infants dying before first birthday)
- In USA : 6.7 deaths per 1000
- Maternal mortality rate : 1400 deaths per 100,000 in Haiti
- In USA : 11 deaths per 100,000
- Haiti has 10X higher infant mortality rate and 100X higher maternal mortality rate



Causes of Blindness

- According to WHO estimates, the most common causes of blindness around the world in 2002 were:
- cataracts (47.9%), 22 million
- glaucoma (12.3%), 6 million
- age-related macular degeneration (8.7%),
- corneal opacity (5.1%), and
- diabetic retinopathy (4.8%),
- childhood blindness (3.9%),
- trachoma (3.6%)
- onchocerciasis (0.8%).^[13]



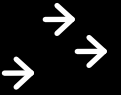
- Of 40 million blind people around the world,
- about 70 to 80% are amenable to treatment
- In developed countries, leading causes of blindness are AMD, glaucoma and Diabetic Retinopathy because of better access to cataract surgery and less parasitic infection

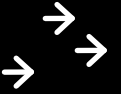


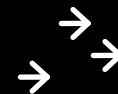
Why go on a medical mission?

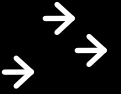
- 1. Provide medical care to those who otherwise wouldn't get it.
- 2. Expand your cultural frontiers
- 3. Expand your medical knowledge by treating and diagnosing new diseases.
- 4. Create new international friends
- 5. Practice Medicine without paperwork.
- 6. Self-renewal











- Group : Northwest Christian Mission Group
- www.nwhcm.org
- About 80 people went including
- two cornea, two oculoplastic, one glaucoma, one pediatric and one neuro-ophthalmologist, one general ophthalmologist and one optometrist
- *Timeframe : 1 week*
- *May 1- 8, 2010*

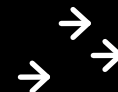


- 870 eye exams,
- 200+ laser treatments
- 122 incisional surgeries, mostly cataract surgeries 20 of which were on kids. Including cataract, strabismus and glaucoma, enucleation.

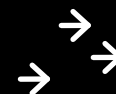


All of that was done in only 4.5 days



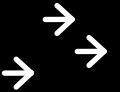








Fancy Optical Shop





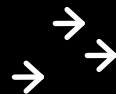
Minus

-0.25 to -2.75

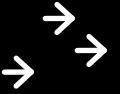
Low/high cylinder bifocals

Box 009_2010

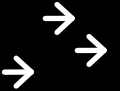




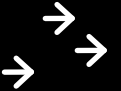
Busy at work in OR



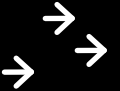
Getting ready for busy day in OR



Child with Right Esotropia before surgery

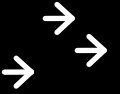


Child one day after strabismus surgery

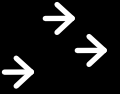




Patient with esotropia



1 day post op strabismus surgery



LEUKOCORIA

- CORNEA : PETERS ANOMALY, GLAUCOMA, CORNEAL SCAR
- LENS : CATARACT, PHPV
- OPTIC NERVE : OPTIC NERVE COLOBOMA, NORMAL OPTIC NERVE
- RETINA: TOXOCARIASIS, TOXOPLASMOS, RETINOBLASTOMA, COATS DISEASE,

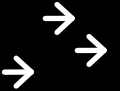




- Toddler with congenital glaucoma and secondary corneal decompensation and normal lens
- Treatment : Glaucoma Filter placed in OD; Observation of end stage OS



Child with Leukocoria



- 2 year old with retinoblastoma filling left eye
- and 3 clock hour involvement nasally in right eye
- Treatment :
- Enucleation of left eye ; Attempt to transfer to USA for chemotherapy to salvage right eye and to treat potential positive margin in left eye



Presenting signs of RB

- Leukocoria
- Strabismus
- Intraocular inflammation
- Retinal tumor and vitreous seeding
- Intraocular calcification
- Proptosis



Treatment of Rb

- If unilateral, enucleate eye
- If bilateral, consider enucleation of worse eye
- And combination of :
 1. Chemotherapy to shrink tumor
 2. Plaque radiation or external beam radiation
 3. Laser treatment or cryo treatment

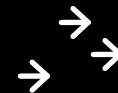


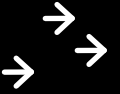
St Jude's Hospital in Memphis, TN

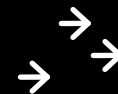
- Willing to accept patients with cancer, HIV, or other immunologic conditions if they fit a study protocol.
- Will pay for transportation and housing costs and medical bills for patients that they accept.
- Need a passport, birth certificate and adult willing to accompany child.

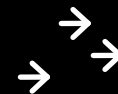


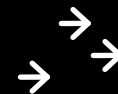


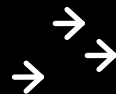


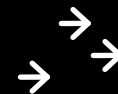




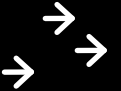








Local School Math lesson in French



- pol - 235

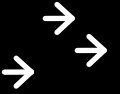
Calculons le prix d'achat des 30

$$30 \text{ ch} \times 14 \text{ g} = 420 \text{ gdes}$$

Le prix de vente des chaises

$$320 \text{ g} + 120 \text{ g} = 440 \text{ gdes}$$

School room in Haiti



Things I learned on my mission trip

1. You can make a difference!
2. Haitians are poor economically, but rich in friendship and spirit
3. Your experience can be vigorous, but is extremely rewarding.



- Next trip is Feb 17- 26, 2011 for the eye team
- Many organizations exists for medical missions:
 - <http://healthcarevolunteer.com/>
 - <http://www.medicalmissions.org/>
 - <http://nwhcm.org/>
 - Google “medical missions”



My advice if your thinking of going on a mission...

- 1. Go!
- 2. Go with a group that is well organized and has gone for several years to that area.
- 3. Speak with people who have gone on that mission before going.
- 4. Follow the rules to keep yourself safe.
- 5. See your medical doctor before going to get appropriate vaccines and medicines.
- After you go, come back and spread the word to others.

