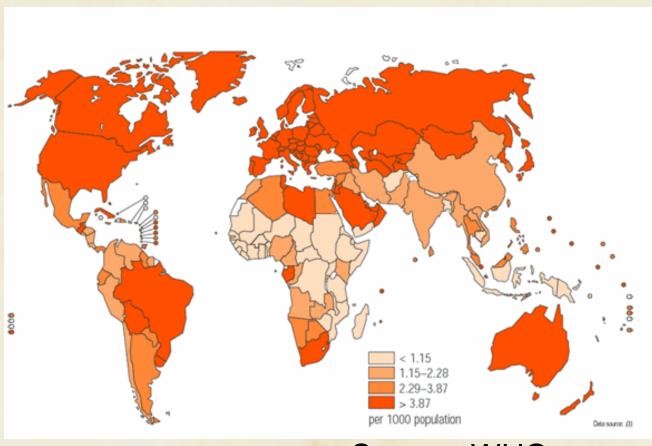


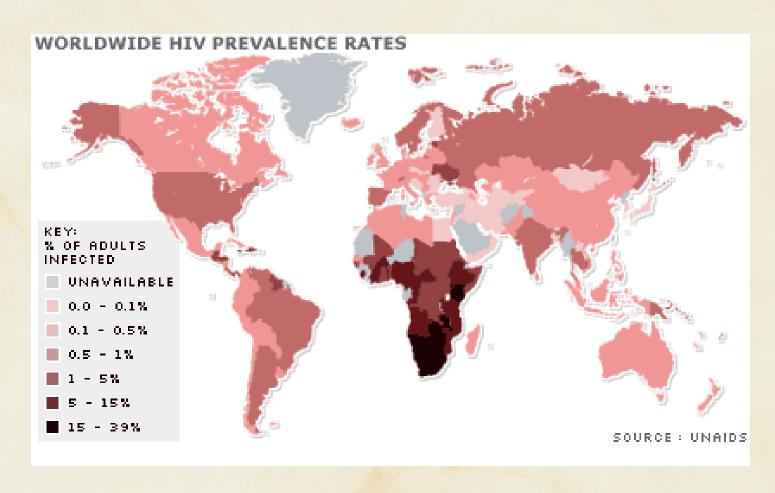
Health Worker Distribution



Source: WHO



Distribution of HIV/AIDS





Brain Drain and Health Professional Migration

- Factors
 - Push and pull factors
 - Active recruitment
 - OUS: HC-1 visa (nurses)
 - OPrivate companies
 - Training for export
 - Philippines

Internal brain drain! Public -> private sector.



Botswana: A Unique Case

- Stable and Wealthy...
- ...with 24-32% HIV infection rates
- OPhysician density 0.4 per 1000 population
- High emigration potential
 - Over 40% of MD's have given "some" to "a great deal of thought to emigrating"
 - 30% for more than 2 years
- Small pipeline:
 - Until 2007, no medical school or residency program



Penn-Botswana Program

- O Major Goals
 - PEPFAR: Provide care for patients and education for local providers
 - Training:
 - Involvement in new University of Botswana medical school (enrollment 2008)
 - O Involvement in new residency program (first intern class began 1/2007)
 - Provide global health opportunities for Penn trainees
 - CFAR program
 - Involve other Penn schools (Wharton business school, school of nursing)



- Demographics
 - □ 15 interns and MO's
 - 6 female, 9 male
 - 14 Motswana, 1 foreign
- Number planning to train abroad: 11
- Number planning to work abroad: 2



- OPrincess Marina Hospital
 - Positives
 - Variety and intensity of clinical experience
 - OPublic health system: universal coverage, ARV progam
 - Location in the capital
 - Negatives
 - #1 Lack of resources and supplies
 - High patient load
 - Lack of support staff



- Current training program
 - Positives
 - Independence
 - O Improved teaching and training (specifically citing Penn Botswana Program and the new residency)
 - Availability of support by senior physicians
 - Negatives
 - Inadequate academic training (including in non-clinical activities such as research methods)
 - Inadequate senior physician support, especially overnight
 - Lack of accredited and recognized training program



- OTraining-related factors
 - Push
 - #1 Lack of resources: basic supplies, medication stock-outs
 - 0#2 Poor pay
 - O Poor facilities for residents (no cafeteria, lounge)
 - Inadequate structured teaching
 - Pull
 - Internationally-recognized, accredited programs
 - Specialty training available
 - Stronger educational models



Stick Factors: Next Steps

- 0#1 Reimbursement
 - ***Better pay
 - Housing allowance
- # 2 Improved resources
 - Clinical materials
 - Library facilities
 - ☐ Facilities for residents (ie resident lounge)
- # 3 Direct training
 - Structured and protected educational time
 - Career development activities (research methods, encouraging educator tract)
 - Credibility/international recognition of program



Conclusions: The Future

- OBotswana's potential
 - Wealthy, stable
 - Relatively well-educated, literate
 - Potential for a regional center of excellence
- OBotswana's needs
 - Increased direct funding for salary support (via programs including PEPFAR)
 - Improved training programs (via twinning programs and mobilizing internal resources)
 - Improved resources