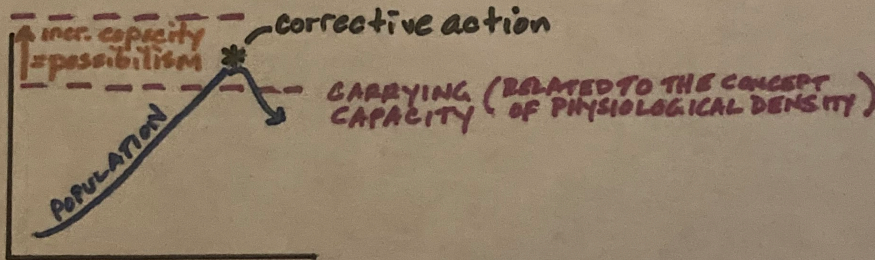


Lecture Notes: Epidemiological Transition and Malthusian Theory

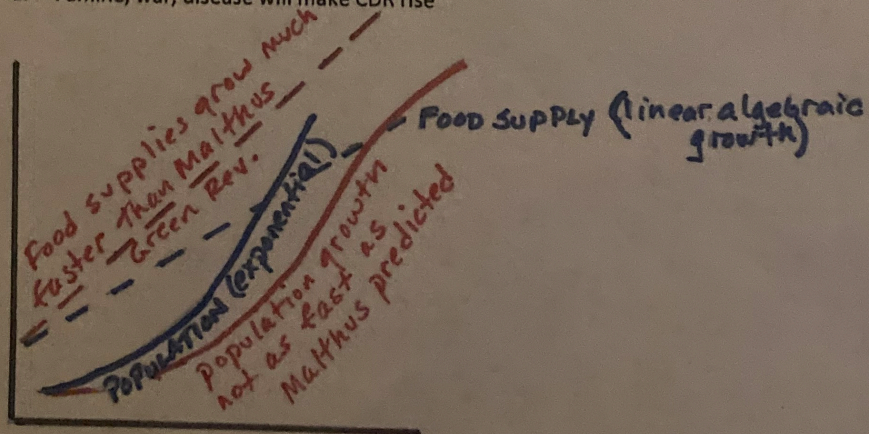
1. Students should copy NIR %s from board into graphic organizer
 - a. Stage 1 = Neg. NIR to 1.9%
 - b. Stage 2 = 1.5% - 3.5%
 - c. Stage 3 = 1% - 2%
 - d. Stage 4 = 0 - 1%
 - e. Stage 5 = Negative NIR
2. Define: Epidemiological "dealing with the incidence and distribution of disease"
 - a. Transition tries to match typical diseases and causes of death with demographic profile of a country in various stages.
3. Most of human history all societies were in Stage 1 aka the "Age of Pestilence and Famine".
 - a. Major causes of death include pandemics (pestilence), famine, accidents, war, childbirth, IMR.
4. Industrial Revolution changes this for current MDCs MNR
 - a. Stage 2 aka "The Age of Receding Pandemics" nutrition and medical are better which leads to decline in death rate (primary characteristic of Stage 2)
 - i. Some uptick in overcrowding diseases such as cholera due to urbanization
 - b. LDCs enter due to the diffusion of medical advancements not due to economic transition
 - i. Could lead to the issue of overpopulation
 1. All most all NIR is happening in LDCs
 - ii. Overpopulation compares the number of people to available resources
 1. Related to the concept of physiological density
 2. Carrying capacity = area/country's resources and technology



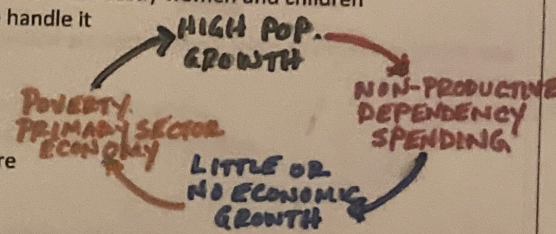
5. Malthusian Theory

- a. Believed that population would "outpace" food supply.
 - i. Consequently, what two things did he predict would or must happen?
 1. Moral restraint must be exercised by middle/upper-classes (late 1700s England in the middle of the Industrial Revolution, population is exploding) to bring down CBR
 - a. Poor can't control their actions, therefore responsible for their own poverty
 - * 2. "corrective" actions will happen to bring population under food supply (carrying capacity)
 - a. Famine, war, disease will make CDR rise

--- MALTHUS
 --- IN REALITY



Was Malthus right? What are the facts and arguments:

No = Anti-Malthusians	Yes, but needs updating = Neo-Malthusians Neo = new version, agree w/basic idea but revises
<p>Possibilists = "Humans have been able to increase carrying capacity"</p> <p>Offset scarcity with new technology</p> <ul style="list-style-type: none"> • global pop. rose fastest ever in 20th c. BUT not as fast as predicted mainly because MDCs/some LDCs progress along DTM • Food supply grew faster (graph both theory and reality) Example = Green Revolution <p>Esther Boserup/Simon Kuznets Larger population stimulates economic growth and more food production, more customers, more ideas for improving technology.</p> <p>Julian Simon More brains = more ideas for improving life</p> <p>Marxists (not really possibilist) There's enough just unevenly distributed Some African leaders (not really a possibilist argument) More children = more men for army. More prestige</p>	<p>But, we have to be careful. Due to diffusion of medical advancements LDCs are experiencing rapid population growth</p> <p>Need? Restrictive Population Policies or anti-natalist policies (birth control etc.. one-child policy etc.) graph bending population curve</p> <p>Eugenics = coercive/forced population control/sterilization. Like human selective breeding. Get rid of undesirables by making sure they don't have children. Often targeted were minorities or disabled (USA, Nazi Germany, India)</p> <p>Malnourished today = 1 billion mostly women and children LDCs are least able to handle it</p> <p>DEMOGRAPHIC TRAP Diagram circular nature</p>  <p>EVEN IF THEY ESCAPE If these areas achieve a Western lifestyle do we have enough resources on Earth? Middle class people are huge consumers, more damage to the environment, pollution etc. Besides competition for food will there be (violent?) competition for other resources such as energy and WATER (yay! Great Lakes)</p>

6. Stage Three = aka "Age of Degenerative and Manmade Diseases"
 - a. Infectious disease declines
 - b. Reference population pyramid
 - i. more middle aged people
 - ii. Bad habits lead to diabetes, lung cancer, heart disease, etc.
7. Stage Four = aka "Age of Delayed Degenerative Diseases"
 - a. Life expectancy is greatly extended
 - b. Diseases associated with old age now become major killers
 - i. Alzheimer's
 - ii. Prostate cancer
 - iii. Congestive heart failure
 - iv. Other cancers of the elderly
 - c. Falls/accidents
8. Stage Five = aka "Age of the Reemergence of Infectious Disease and Parasitic Diseases"
 - a. Causes of death
 - i. Evolving bacteria, developing world poverty
 - ii. AIDS
 - iii. GLOBALIZATION and time-space compression
 - b. Population decline issues in Stage Five
 - i. Expansionist or Pro-natal policies encourage reproduction *
 1. Google "Do It For Denmark", Russia Sex Day to incentivize childbirth
 2. Encourage immigration????
 3. Japan = accept pop. decline
 - a. shift low wage jobs overseas
 - b. use robots/vending machines

