

Science meets practice / Biosecurity section

TEACHING THE NEXT GENERATION OF YOUNG MINDS ABOUT HOLISTIC AND TRANSFORMATIONAL ANIMAL HEALTH

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Introduction / Methods

- * Holistic farming based on **transformational animal health (TAH)** strategies may be used to control antimicrobial resistance (AMR).
- * TAH is a set of disruptive technologies that must be taught to students early.
- * AMR is a worldwide Biosecurity issue.
- * Teaching techniques can help professors introduce the topic of resilient farming.
- * Problem-based learning (PBL) is essential to keep plasticity in young minds.
- * PBL help students to develop critical thinking and participate in multilateral discussions.

* The objective of this study was to interview 45 students that took the Global Health discipline about their learning experiences and to give suggestions on how to improve the quality of life.



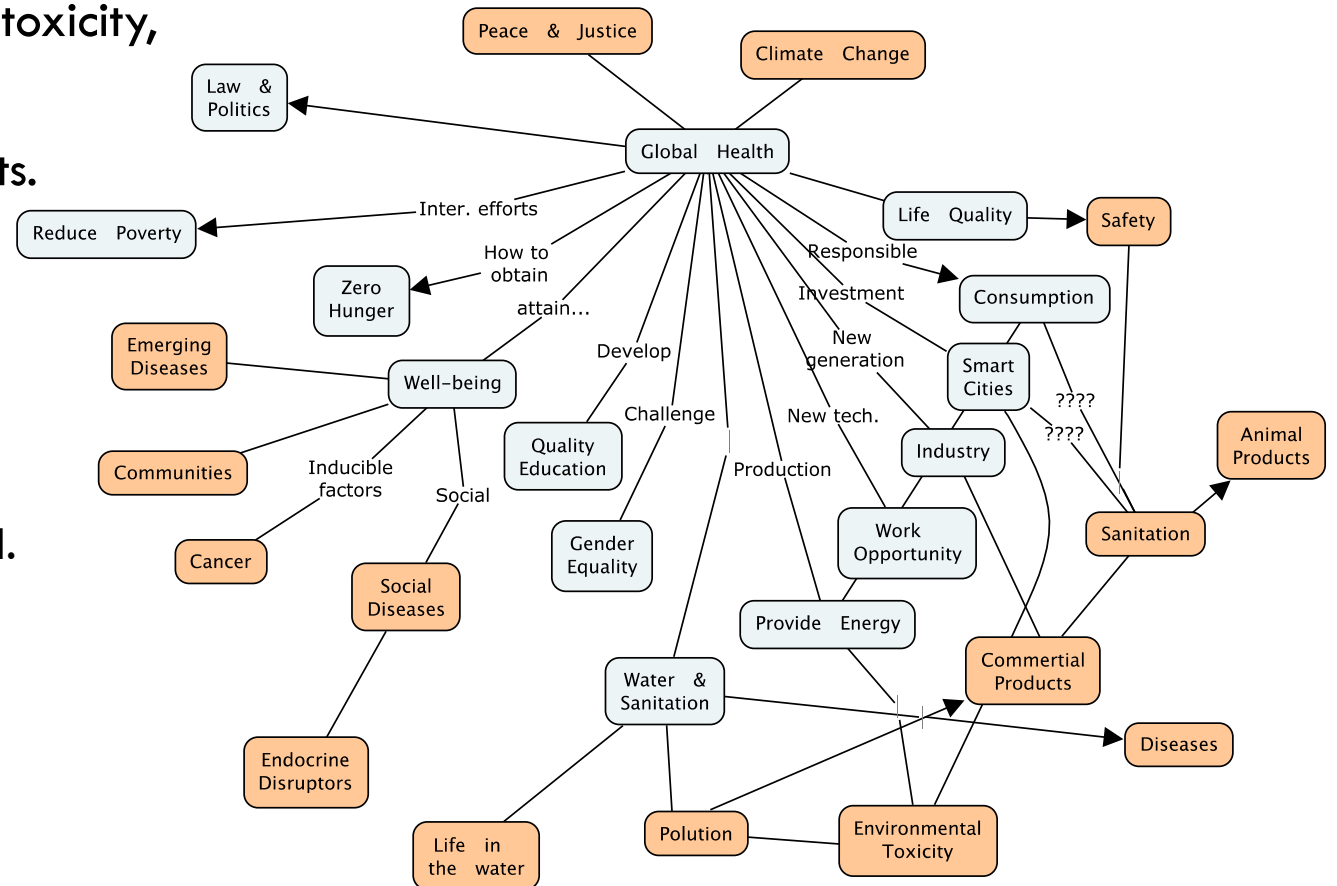
Results / Global Health

- ✓ 55 students: South Amer., Africa, and the Middle East.
- ✓ GH 60h offered in English (EMI) from Oxford Univ. UK.
- ✓ Topics: climate change, intensive farming, global/animal welfare, plan-based biofriendly pest control, ecotoxicity, community wellbeing, and water rights.
- ✓ The students answered 5 open questions in 2 parts.
 1. English and learning experience.
 2. Perspective for future farming and wellbeing.

Brazil (40), Argentina (2), Chile (3), Colombia (3),
 Libya (1), Syria (1). Females (73%), on average 26 ys/old.

Students' Areas: Vet. Medicine, Medicine, Biology
 and Biomed. Sciences, Geography, Psychology.

Conceptual Map



Conclusions and Implications

- * TAH should be considered when discussing antimicrobial resistance.
- * The students used the PBL to argue against intensive farming.
- * The group had a common opinion that private sector & industry, governments, civil society must work together.
- * Antimicrobial resistance may not be reversed but it can be slowed down by the reduction of intensive farming.
- * Holistic farming/TAH can contribute to the control of diseases with the prudent use of antimicrobials.

