

One Health

Our Health is all connected

One Health is an integrated approach to global health where humans, animals and the environment are all connected. As part of One Health, antimicrobial resistance (AMR) poses a significant threat as resistant organisms could spread through communities, food supply, healthcare facilities and the environment, endangering health across all areas.^{1, 2}

Aspects of One Health:



How our worlds are intertwined



References

1. World Health Organization (WHO). (2019). Global report on antimicrobial resistance: 2019. World Health Organization. <https://www.who.int/publications/i/item/9789240062702>
2. US Centers for disease control and prevention. About One Health <https://www.cdc.gov/one-health/about/index.html>
3. World Organisation for animal health. Antimicrobial resistance <https://www.woah.org/en/what-we-do/global-initiatives/antimicrobial-resistance/>
4. World Organisation for animal health. One Health <https://www.woah.org/en/what-we-do/global-initiatives/one-health/>
5. Alliance to save our antibiotics <https://www.saveourantibiotics.org/our-campaign/>
6. Antimicrobials in agriculture and the environment: reducing unnecessary use and waste. The review on antimicrobial resistance. Chaired by J.O'Neill. Dec 2015. <https://amr-review.org/sites/default/files/Antimicrobials%20in%20agriculture%20and%20the%20environment%20-%20Reducing%20unnecessary%20use%20and%20waste.pdf>
7. Graham D. et al. (2019) Complexities in understanding antimicrobial resistance across domesticated animal, human, and environmental systems. Annals of the New York Academy of Sciences, 17-30. doi: 10.1111/nyas.14036
8. Shi H, Hu X, Li W, Zhang J, Hu B, Lou L. Soil Component: A Potential Factor Affecting the Occurrence and Spread of Antibiotic Resistance Genes. Antibiotics (Basel). 2023 Feb 4;12(2):333. doi: 10.3390/antibiotics12020333. PMID: 36830244; PMCID: PMC9952537.

 The One Health approach recognizes the interconnectedness of the human, animal and environmental sectors to tackle AMR. For more One Health resources. visit thermofisher.com/onehealth