

# 'The State of the World's Antibiotics' highlights the growing threat of AMR

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Researchers at CDDEP have released, *The State of the World's Antibiotics in 2021*, which presents extensive data on global antimicrobial use and resistance as well as drivers and correlates of antimicrobial resistance, based on CDDEP's extensive research and data collection through ResistanceMap, a global repository that has been

widely used by researchers, policymakers, and the media.

Since the first State of the World's Antibiotics report in 2015, antimicrobial resistance has leveled off in some high-income countries but continues to rise in many low- and [middle-income countries](#) (LMICs), where access to antibiotics has risen with increases in gross domestic product per capita. Per capita antibiotic [consumption](#) in LMICs is lower than in [high-income countries](#), despite a higher infectious disease burden; however, consumption rates are rapidly converging. These trends reflect both better access to antibiotics for those who need them and increases in inappropriate antibiotic use.

An important driver of resistance is antibiotic use in humans and in terrestrial and aquatic animals raised for human consumption. Global antibiotic consumption in humans increased by 65 percent between 2000 and 2015, whereas consumption in animals is expected to increase by 11.5 percent between 2017 and 2030. If nothing changes to alter these trajectories, antibiotic consumption is likely to increase worldwide by 200 percent between 2015 and 2030.

The approaches to addressing AMR are to reduce the need for antibiotics (through prevention of infections), to reduce the use of antibiotics (by better use of diagnostics and antibiotic stewardship), and to innovate to find new methods of disease prevention and treatment. All three strategies are needed so that a strong arsenal of effective antibiotics can be maintained.

This report introduces country-level dashboards that capture progress on indicators that track AMR and show what remains to be done to decrease the need for antibiotics and their inappropriate use.

"We are optimistic that future generations will also witness the miracle of [antibiotics](#). To ensure that privilege, it is incumbent on us to treat the

crown jewels of modern medicine with care and respect," said Dr. Laxminarayan, Director at CDDEP.

**More information:** The State of the World's Antibiotics in 2021: [cddep.org/blog/posts/the-state ... tics-report-in-2021/](https://cddep.org/blog/posts/the-state-of-the-worlds-antibiotics-report-in-2021/)

Provided by Center for Disease Dynamics, Economics & Policy

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