



First, Do No Harm



Patient Health

Worker Health

Community Health

Healthy Food in Health Care

As places of healing, health care facilities have a natural incentive to provide food that's healthy for people and the environment in which we live.



PRODUCTION



PROCESSING



PACKAGING



DISTRIBUTION



CONSUMPTION



RECYCLING



Not All Apples Are Created Equal

Environmental Nutrition Redefines What Constitutes Healthy Food

TRADITIONAL NUTRITION

Focuses on biochemical components of food and individual food consumption

Asks:

How much Vitamin C?

How many calories?

How much fiber?

ENVIRONMENTAL NUTRITION

Accounts for social, political, economic, and environmental factors related to the food system as a whole

Also asks:

Was it grown with harmful pesticides or synthetic fertilizers?

What labor standards were used?

Were toxic chemicals used in packaging?



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Externalities of the Industrialized Food System

HEALTH

- Chronic diseases (cancer, diabetes, obesity)
- Antibiotic resistance & food-borne pathogens
- Pesticide exposure (cancer, reproductive, neuro-developmental, and endocrine impacts)
- Asthma and respiratory illness
- Food injustice (hunger, food deserts)

SOCIETY

- Local economic decline
- Labor issues
- Water and air quality

ENVIRONMENT

- Energy use and GHG emissions
- Loss of crop and biological diversity
- Soil erosion

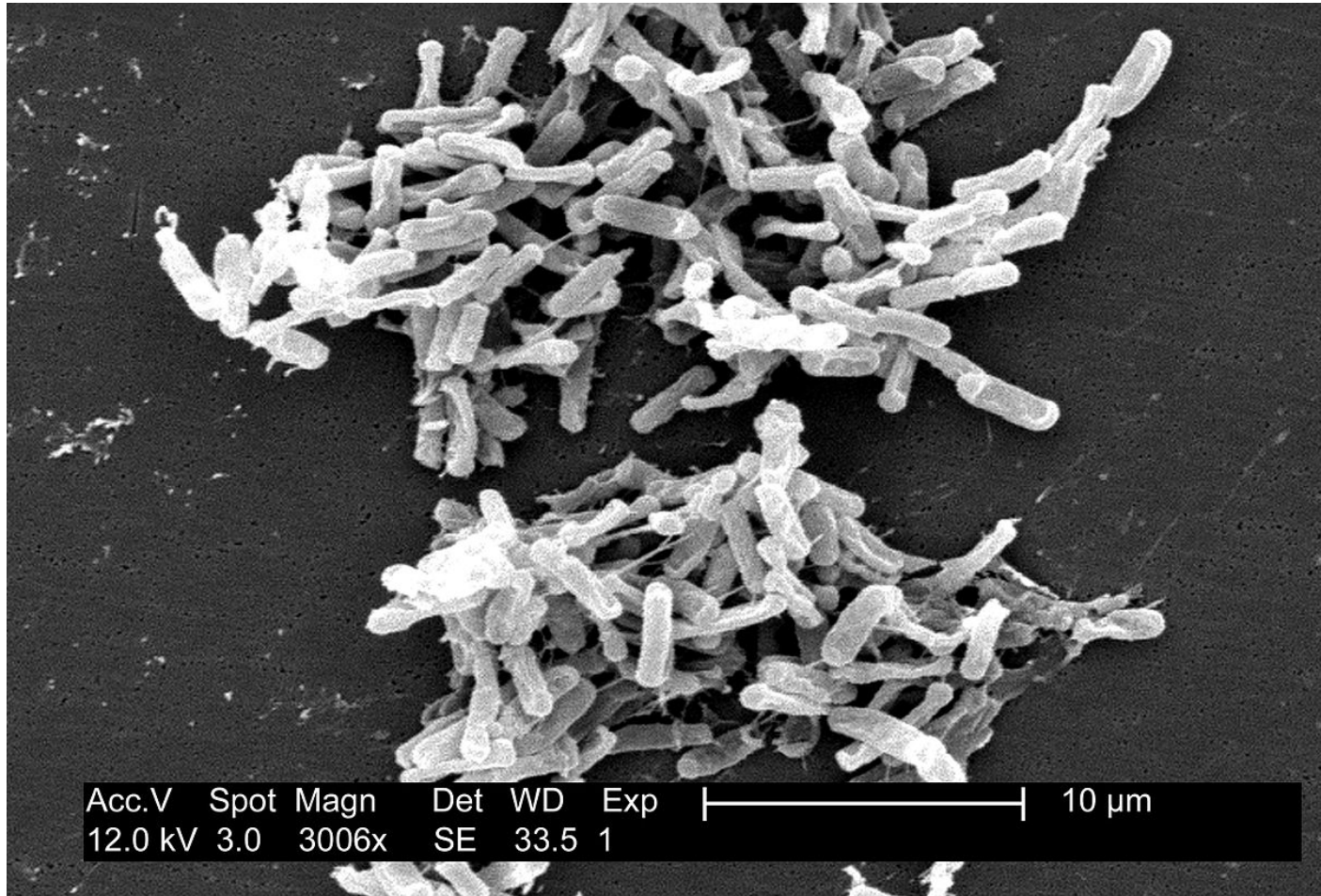


Antimicrobial Resistance (AMR)

“It is not difficult to make microbes resistant to penicillin in the laboratory by exposing them to concentrations not sufficient to kill them, and the same thing has occasionally happened in the body. The time may come when penicillin can be bought by anyone in the shops. Then there is the danger that the ignorant man may easily underdose himself and by exposing his microbes to non-lethal quantities of the drug make them resistant.”

~Alexander Fleming , Nobel Prize Lecture, 1945

Antimicrobial Resistance (AMR)

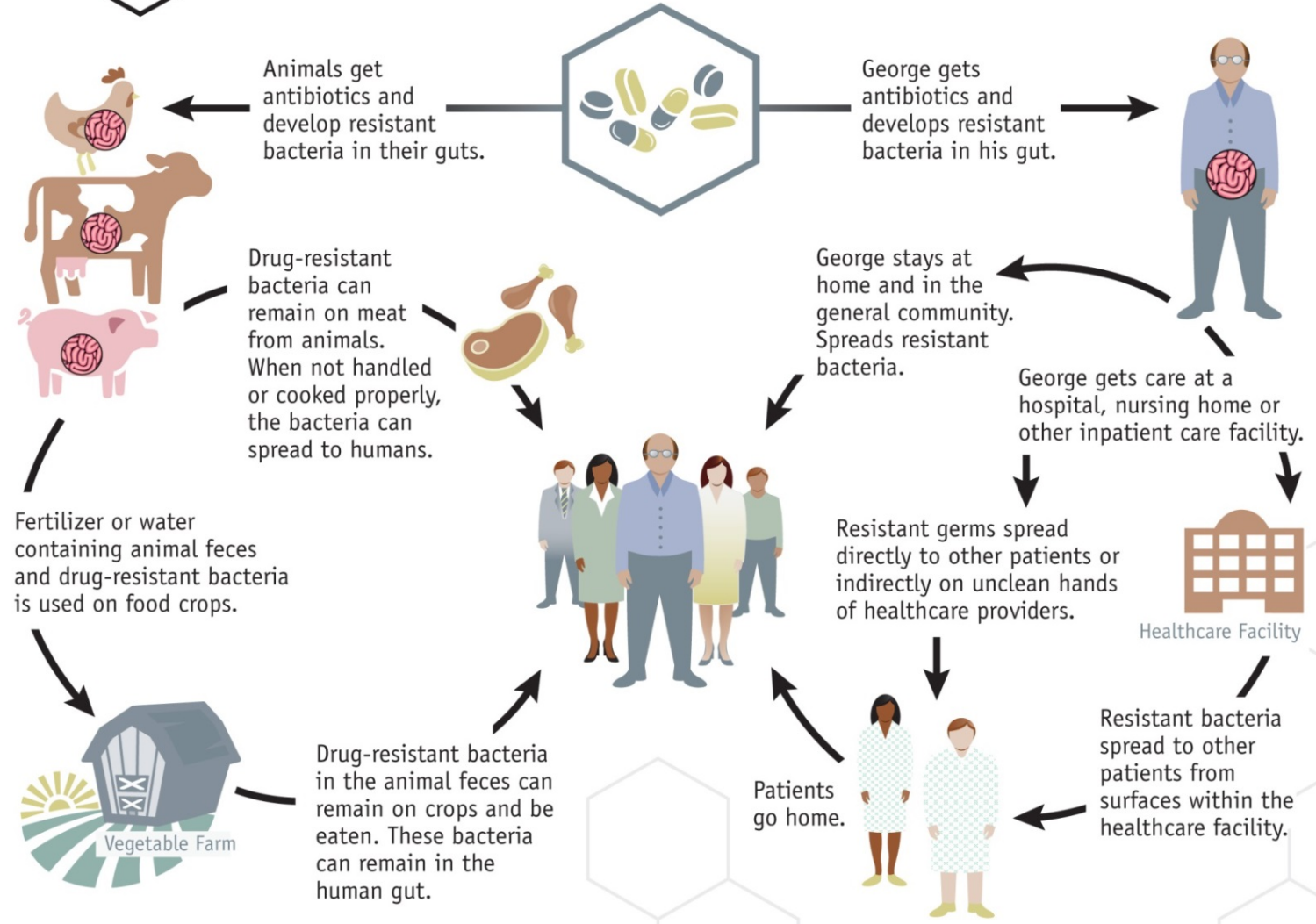


Clostridium difficile

Photo Credit: CDC, Lois S. Wiggs, 2004

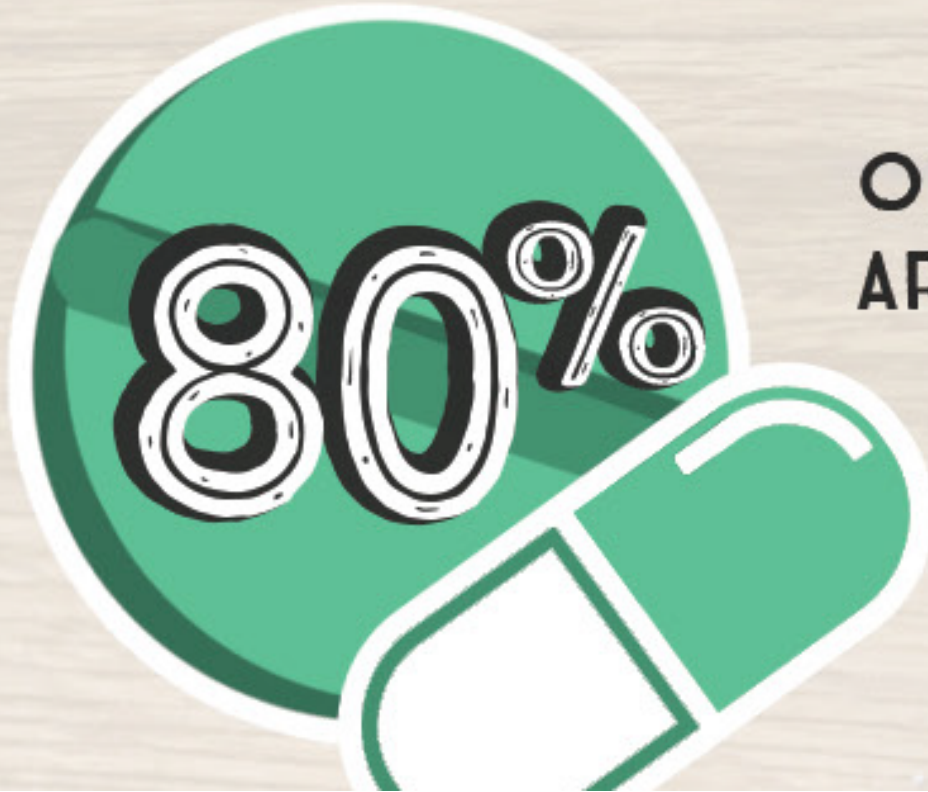


Examples of How Antibiotic Resistance Spreads



Simply using antibiotics creates resistance. These drugs should only be used to treat infections.

In the United States



OF ALL ANTIBIOTICS
ARE USED FOR
INDUSTRIAL ANIMAL
AGRICULTURE



Image credit: Mercy for Animals <http://www.flickr.com/photos/mercyforanimals/6556759163/in/set-72157628531396063>,
CC BY 2.0, <https://commons.wikimedia.org/w/index.php?curid=26646759>



United Nations High-Level Meeting on Antimicrobial Resistance

“AMR is a problem not just in our hospitals, but on our farms and in our food, too. Agriculture must shoulder its share of responsibility, both by using antimicrobials more responsibly and by cutting down on the need to use them, through good farm hygiene.”

~Director-General of the Food and Agriculture Organization (FAO) of the United Nations,
Dr. José Graziano da Silva

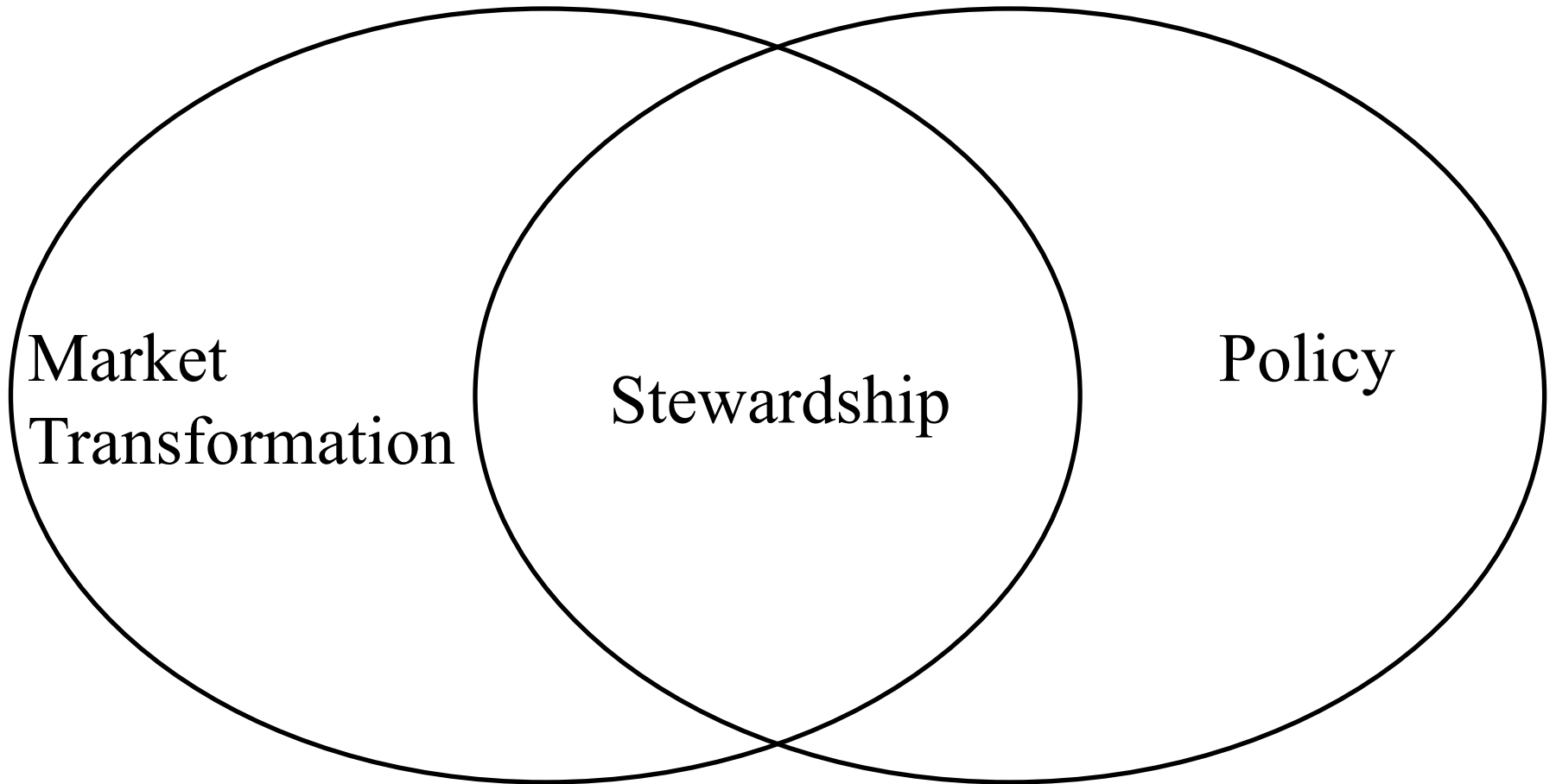
Less Meat, Better Meat



Image Credit: Ryan Thompson, United States Department of Agriculture
https://commons.wikimedia.org/wiki/File:2789694551_37beafc438_b_-_Grass_Fed_Beef_-_Ryan_Thompson_-_Flickr_-_USDAgov.jpg



U.S. Strategies for Antimicrobial Stewardship



Market Transformation Strategy



Couscous crusted salmon served at UCLA Medical Center's Food Day event



Executive Chef Chris Linaman prepares a Farm to Table lunch at Overlake Hospital.

Market Transformation Challenges



“The budget for food has actually gone down 3% and we’ve been able to incorporate all these great products, local farms, local beef, antibiotic free. We have been able to incorporate these products without raising our food budget. So it can be done!”

~Kurt Roessler, Director of Food and Nutrition at Huggins Hospital

Market Transformation Successes



Antibiotic-free Mushroom Turkey Burger (left) and Rosemary Chicken Breast (Right) served by hospitals as part of a Food Day Event.



Clinician Champions in Comprehensive Antibiotic Stewardship (CCCAS) Collaborative

“The ultimate root of the issue is overconsumption of meat, high demand, and an industrialized agriculture approach that leads to overuse and mismanagement of resources, including antibiotics. Clinicians and healthcare facilities [should] have more of a consistent voice in institutional policy, procurement by institutions, [and] public policy on the part of local, state, and even federal government [regarding antibiotic stewardship].”

~Dr. Saul Hymes, CCCAS

Collaborative



SB-27 Livestock: use of antimicrobial drugs. (2015-2016)

Text	Votes	History	Bill Analysis	Today's Law As Amended ⓘ	Compare Versions	Status	Comments To Author
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Senate Bill No. 27

CHAPTER 758

An act to add Chapter 4.5 (commencing with Section 14400) to Division 7 of the Food and Agricultural Code, relating to livestock.

[Approved by Governor October 10, 2015. Filed with Secretary of State October 10, 2015.]

LEGISLATIVE COUNSEL'S DIGEST

For more information visit:

https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB27

Contains Nonbinding Recommendations

#213

Guidance for Industry

New Animal Drugs and New Animal Drug Combination Products Administered in or on Medicated Feed or Drinking Water of Food-Producing Animals: Recommendations for Drug Sponsors for Voluntarily Aligning Product Use Conditions with GFI #209

Submit comments on this guidance at any time. Submit written comments to the Division of Dockets Management (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. Submit electronic comments to <http://www.regulations.gov>. All written comments should be identified with the Docket No. FDA-2011-D-0889.

For more information, visit:

<https://www.fda.gov/downloads/AnimalVeterinary/GuidanceComplianceEnforcement/GuidanceforIndustry/UCM299624.pdf>



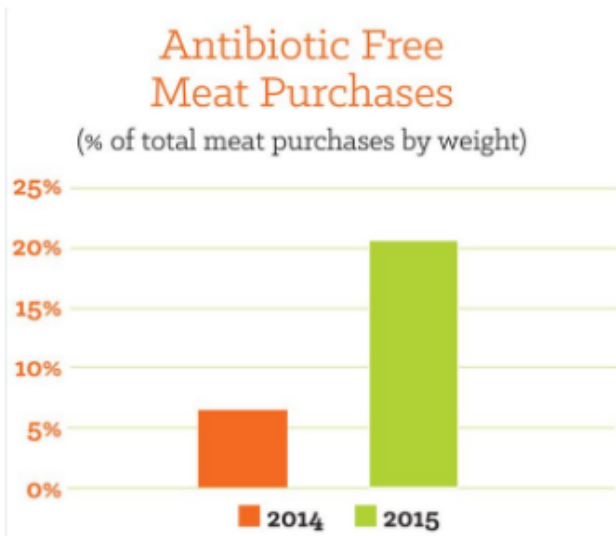
Get Smart About Antibiotics Week

NOVEMBER 14-20TH 2016

Join the national conversation!

#GetSmartWeek

Clinician Stories About Antibiotic Resistance



Aparna Bole
@DrAparnaBole



At @UHhospitals we're #AntibioticSmart through stewardship in "both" prescribing & food purchasing. @HCWithoutHarm @CDCgov #GetSmartWeek

10:16 AM · 15 Nov 2016 · Cleveland, OH



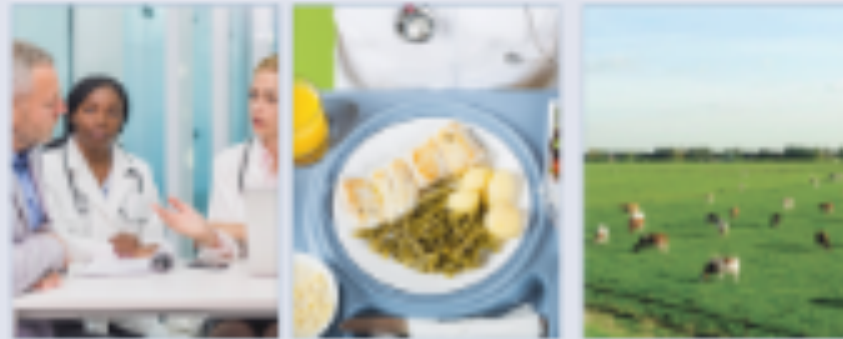
Visit:

<https://storify.com/HCWithoutHarm/get-smart-week>



Antimicrobial Stewardship through Food Animal Agriculture Toolkit Module

Guidance for health care facilities
and health professionals



January 2017





Resources

Draft political declaration of the high-level meeting of the General Assembly on antimicrobial resistance:

http://www.un.org/pga/71/wp-content/uploads/sites/40/2016/09/DGACM_GAEAD_ESCAB-AMR-Draft-Political-Declaration-1616108E.pdf

World Health Organization Global Action Plan on Antimicrobial Resistance:

http://www.wpro.who.int/entity/drug_resistance/resources/global_action_plan_eng.pdf

Antimicrobial Stewardship Through Animal Agriculture Toolkit Module:

<https://noharm-uscanada.org/documents/antibiotic-stewardship-beyond-clinical-care>

Health Care Without Harm Europe- Reducing Antimicrobial Resistance: how health professionals can help:

https://noharm-europe.org/sites/default/files/documents-files/4560/HCWHEurope_AMR_Factsheet_Dec2016.pdf

Environmental Nutrition paper:

<https://noharm-uscanada.org/environmentalnutritionwhitepaper2014>