Global Antibiotic Resistance Partnership

Global Antibiotic Resistance Partnership

CDDEP THE CENTER FOR Disease Dynamics, Economics & Policy WASHINGTON DC • NEW DELHI

RESOURCES FOR THE FUTURE

Day 1: Observations
GARP-SA Inaugural Meeting

Hellen Gelband

RFF

9 February 2010

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Surveillance

- NASF
- Private hospital data collection
- GERMS-SA
  - TRAC-SOUTH AFRICA (fungal infections)
- STI Surveillance—NICD
- National Antimicrobial Resistance Surveillance System – NARSS—NICD
- KZN activities
- Veterinary surveillance

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

SURVEILLANCE—THE OPPORTUNITY

- CONSOLIDATION, COORDINATION
  - Definitions
  - Methods
  - Indicator organisms
  - Sampling, etc.

- How does this happen? What is the mechanism and who are the players?

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Resistance

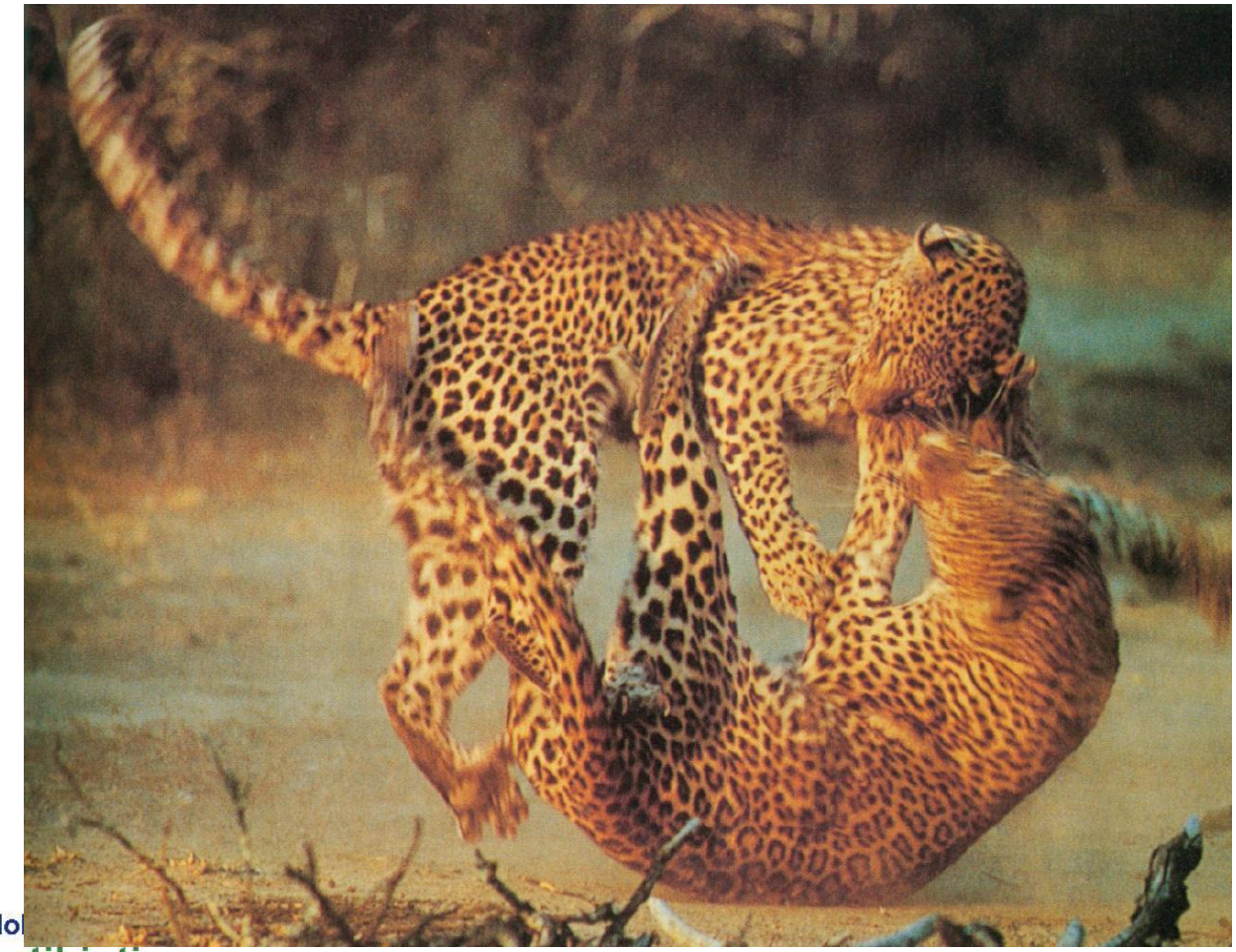
- Enough to worry about, but the details matter and vary for each drug/bug, and importantly, by urban, peri-urban, rural location. [As elsewhere, highest in urban referral hospitals.]
- Calls for tailored guidelines, EDL

- Information needs? How does surveillance feed in most usefully?

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Ethical dilemma



Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Who is responsible for antibiotic effectiveness?

- Stewardship—no one has taken responsibility

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

The Veterinary Side

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Veterinary ab use

- About 5X the amount of antibiotics used in humans are used in animals
- Chickens and pigs are the biggest consumers (as is the case in other countries)
- Particular concerns: quinolones, vancomycin
- What is the relationship between use in animals and antibiotic resistance in people?

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

AMR cycle

RESC
FOR TH

Aquaculture

- No worries! (but pass on the abalone)

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Trends in antibiotic sales

- For Sanofi-Aventis (top antibiotic seller in SA), increase of 27% from 2008-2009 (includes both price and volume and product mix)

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Reducing demand for antibiotics

- Topicals?
- Point of care diagnostics

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Global and local/regional problem (and solutions)

- Global: antibiotic supply, resistance in some cases has cross-border consequences (some clones spread widely), similar solutions in many places
- Local/regional: rapid change in antibiotic resistance profiles in certain cases (even if not understood)—France, Netherlands, Belgium and Kilifi, Kenya

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Clonal spread of *S. pneumoniae* 23F

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Facts and conclusions

- Resistance is biologically inevitable and its magnitude is proportional to the access of the organism to the antimicrobial.
- Increasing access to care will increase resistance.
- Developing countries are at great risk given their lack of capacity to detect resistance and to control its ascent.
- Unequal access: not enough and too much

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

GARP and the way forward

- Develop the evidence base for policy action on antibiotic resistance
- Identify policy opportunities where research dissemination, advocacy, and information can have the greatest impact in slowing the development and spread of resistance.

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Dogs, sheep, cheetahs
(or silver, antibiotics, bacteria)

Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

Meeting reimbursements

Mail to:

Belma Ramja

Resources for the Future

1616 P Street, NW

Washington, DC 20036 USA

ORIGINAL RECEIPTS

For SA participants, reimbursement will come through Dr. Duse's office

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE

DINNER TUESDAY 9 FEB

RIVER VIEW DECK

TIME CHANGE: 7:30 pm

[not 6:30]

Global Antibiotic Resistance Partnership

RESOURCES FOR THE FUTURE