Interdisciplinary research on antimicrobial resistance

driving the unknown route

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Interdisciplinary research & AMR workshop

2-3 March 2017
driving the unknown route
UC-CARE
University of Copenhagen Research Centre for control of antibiotic resistance

http://uc-care.ku.dk/english/research/
## UC-CARE
University of Copenhagen Research Centre for control of antibiotic resistance

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WP4

Fight against antibiotic resistance

- Increased drug efficacy
- Rational antibiotic use
- WP4. Evidence-based diagnosis & therapy
- Sustainable policies

General Practitioners + Veterinarians (companion animals) + Veterinarians (production animals)
Knowledge gaps

- Definition of disease
- Definition of gold standard
- Accuracy of diagnostic tests
- Effect of treatment
*Five common diagnostic tests* that can be used in both humans and companion animals with suspected UTI. Nonetheless, *some parameters and technical characteristics of the diagnostic tests are different.*

*The interpretation of these tests can vary due to:* a) differences in the prevalence of some microorganisms, b) urine collection technique, and c) cut-off point for significant bacteriuria on positive cultures.

*Challenges for common funding, thus development of the projects*

*Challenges for common publication*
*Similar use of diagnostic tools* with the majority of patients having a urine culture performed as part of the diagnostic process.

*Similar diagnostic error* if the decision is only based in signs and symptoms.

*Similar proportion of overtreatment* ---- similar diagnostic uncertainty? Similar reaction to uncertainty??
General Practitioners’ views on the acceptability of using quality indicators to reduce unnecessary prescription of antibiotics in patients with suspected Respiratory Tract Infections

Working group:

Gloria Córdoba, Ph.D fellow
Nieves Hernandez, Associate Professor
Sandi Oliveira, Associate Professor
Lidia Caballero, GP
Miguel Angel Suarez, GP
Monica Olinisky, GP
Marjukka Makela, Professor
Lars Bjerrum, Professor

Argentina
Paraguay
Bolivia
Uruguay
HOW

Design/Settings
- Explorative qualitative design - focus groups
- GPs HAPPY AUDIT II

Data collection
- Discussion guide/Funnel design
- 3 domains: acceptability, appropriateness, feasibility

Analysis
- Systematic text condensation/inductive approach

Qualitative research in medicine

Qualitative research in social sciences
In general, there was a positive view towards the use of quality indicators as a tool to help GPs to reduce the unnecessary use of antibiotics.

Applicability challenges arisen from health system barrier, GPs as a professional group, lack of diagnostic tools, the importance of the patient-doctor relationship and content validity of the indicator affects the acceptability for using the indicators.

Inter-sectorial actions need to be taken in order to consider the use of quality indicators an effective tool to be implemented in General Practice within the South-American context.
Interdisciplinary research is challenging. Requires patient and willingness to understand the others mind set ..... 

....but it is worth trying to bring about innovative solutions to old problems
THANKS FOR YOUR ATTENTION!

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