



Article

Clonal Dissemination of Extended-Spectrum Cephalosporin-Resistant *Enterobacterales* between Dogs and Humans in Households and Animal Shelters of Romania

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Abstract: Faecal carriage of extended-spectrum cephalosporin-resistant (ESC-R) *Enterobacterales* in healthy pets is a concerning issue. This study aimed to determine the prevalence, genetic background, and potential for interspecies transmission of these bacteria between dogs and humans within the same household (HH) or shelter environment in Romania. Faecal samples ($n = 263$) collected from healthy dogs ($n = 102$), their owners ($n = 32$), as well as dogs ($n = 110$) and staff ($n = 19$) from dog shelters, were screened for ESC-R carriage. Clonal relatedness of canine and human *Escherichia coli* isolates was established using Fourier Transform Infrared Spectroscopy (FTIR), followed by Illumina WGS of selected isolates. The highest prevalence of ESC-R *Enterobacterales* faecal carriage was identified in staff working at dog shelters (78.9%), followed by dogs from households (44.11%), dog owners (43.7%), and dogs from shelters (27%). FTIR identified 15 clusters of closely related *E. coli* isolates, including dog and human isolates from the same environment. Co-carriage of ESC-R isolates in both the dog and owner was identified in 12 HHs (37.5%), with two HHs (6%) having both the owner and dog carrying isolates with identical FTIR spectra, phylogroup, resistance genes, and *lnc* plasmids. Major ExPEC lineages such as ST127, ST10, ST155, and ST68 were detected in human and dog isolates. Our study revealed a high prevalence of faecal ESC-R *E. coli* carriage in both dogs and humans from Romanian households and shelters, where bidirectional clonal transmission between humans and dogs is likely. Furthermore, we identified ESC-R *Enterobacterales* co-carriage in people and dogs sharing the same environment using FTIR, demonstrating its value in AMR surveillance for humans and animals.

Keywords: cephalosporin-resistance; faecal-carriage; transmission; companion animals



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1. Introduction

Production of extended-spectrum beta-lactamases (ESBLs) remains one of the most important resistance mechanisms to extended-spectrum cephalosporins (ESCs; e.g., cefepime, cefotaxime, ceftazidime, and ceftriaxone) in *Enterobacterales* from both humans and animals [1,2]. In addition, numerous studies over the last two decades have shown that extended-spectrum cephalosporin-resistant (ESC-R) *Enterobacterales* have been isolated with increasing frequency from humans and animals [3,4]. Importantly, the presence of ESBL, AmpC beta-lactamase, and plasmid-mediated quinolone resistance (PMQR) genes on mobile genetic elements facilitates horizontal transmission leading to multidrug resistant (MDR) isolates in both human and animal hosts [2,5]. In addition, ESBL resistance genes also have the potential to spread via successful bacterial clones or lineages (Woodford,

The Household Of Animal Medicine A Spectrum

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The Household Of Animal Medicine A Spectrum:

Human-Animal Medicine - E-Book Peter M. Rabinowitz, Lisa A. Conti, 2010-01-04 Human Animal Medicine is an innovative reference exploring the unprecedented convergence of human animal and environmental health triggering global pandemics and requiring new clinical paradigms The One Health approach calls for greater communication and cooperation between human health care providers public health professionals and veterinarians to better address vital issues of emerging diseases and environmental change This incredibly timely book provides for the first time practical guidelines for One Health collaborations in a wide range of clinical human animal health issues including the H1N1 virus zoonotic diseases the human animal bond animal allergy bites and stings and animals as sentinels for toxic environmental health hazards UNIQUE For each condition specific steps human health care providers veterinarians and public health professionals must take to prevent and manage disease UNIQUE Comparative tables of disease signs diagnosis and treatment in humans and animals for easy reference UNIQUE Guidelines to detect and improve environmental factors affecting the health of humans and animals Occupational health guidelines for preventive care of animal workers including veterinary personnel farmers pet store employees and zoo workers Treatment of emerging disease issues including zoonoses H1N1 virus harmful algae blooms and animal related pesticides UNIQUE Sample protocols facilitate professional communication between veterinarians human health clinicians and public health professionals Legal and ethical aspects of One Health that human health providers and veterinarians need to know

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