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Epidemiology of hepatitis E in South-East Europe in the "One Health" concept

Mrzljak A *et al.* Hepatitis E in South-East Europe

Anna Mrzljak, Petra Dinjar-Kujundzic, Lorena Jemersic, Jelena Prpic, Ljubo Barbic, Vladimir Savic, Vladimir Stevanovic, Tatjana Vilibic-Cavlek

Abstract

The significance of hepatitis E virus (HEV) as an important public health problem is rising. Until a decade ago, cases of HEV infection in Europe were mainly confined to returning travelers, but nowadays, hepatitis E represents an emerging zoonotic infection in many European countries. The aim of this manuscript is to perform a systematic review of the published literature on hepatitis E distribution in humans, animals and environmental samples ("One Health" concept) in the South-Eastern European countries. Comparison of the available data showed that the anti-HEV seroprevalence in the South-Eastern Europe varies greatly, depending on the population studied, geographical area and methods used. The IgG seroprevalence rates in different population groups were found to be 1.1%-24.5% in Croatia, up to 20.9% in Bulgaria, 5.9%-17.1% in Romania, 15% in Serbia, up to 9.7% in Greece and 2%-9.7% in Albania. Among possible risk factors, older age was the most significant predictor for HEV seropositivity in most studies. Higher seroprevalence rates were found in animals. HEV IgG antibodies in domestic pigs were detected in 20%-54.5%, 29.2%-50%, 38.94%-50% and 31.1%-91.7% in Serbia, Bulgaria, Romania and Croatia, respectively. In wild boars seroprevalence rate were up to 10.3%, 30.3% and 31.1% in

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## Hepatitis E virus: Assessment of the epidemiological ...

<https://www.sciencedirect.com/science/article/pii/S1386653216301433>

Data from **France**, **Germany**, England & Wales, and the **Netherlands** indicated more **hepatitis E** case notifications than **hepatitis A** cases (data not shown). Considerably lower numbers of cases of **hepatitis E** were confirmed in Northern and **Southern European** countries .

**Cited by:** 82**Author:** Cornelia Adlhoc, Ana Avellon, Sally A. ...**Publish Year:** 2016

## The Epidemiology and Prevention of Hepatitis E Virus ...

<https://link.springer.com/article/10.1007/s40471-017-0109-9> ▾

Purpose of Review. **Hepatitis E** virus (HEV) infections are a global public health problem. These viruses were originally identified as the cause of large waterborne outbreaks with increased mortality in pregnant women in developing countries in Asia and Africa in 1983.

**Cited by:** 1**Author:** Kenrad E. Nelson, Christopher D. Hean...**Publish Year:** 2017

## Evidence of hepatitis E infection in swine and humans in ...

[https://www.researchgate.net/publication/268815308\\_Evidence\\_of...](https://www.researchgate.net/publication/268815308_Evidence_of...)

Evidence of **hepatitis E** infection in swine and humans in the East Region of Romania ... highlighting that the HEV is a public health issue that must be analyzed based on the "**One Health**" concept ...

## Emerging Zoonoses: the "One Health Approach"

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Saf Health Work > v.3(1); 2012 Mar

Mar 08, 2012 · In this light, the concept, defined as the "**One Medicine**" by **Schwabe** , has seen an unprecedented revival in the last decade and has evolved towards "**One Health**" conceptual thinking, emphasizing **epidemiology** and public **health** .

**Cited by:** 15**Author:** Giulia Rabozzi, Luigi Bonizzi, Eleonora ...**Publish Year:** 2012

## (PDF) Viral Hepatitis A to E in South Mediterranean Countries

[https://www.researchgate.net/publication/50420701\\_Viral\\_Hepatitis...](https://www.researchgate.net/publication/50420701_Viral_Hepatitis...)

Viral **Hepatitis A to E** in South Mediterranean Countries Article (PDF Available) in Mediterranean Journal of Hematology and Infectious Diseases 2(1):e2010001 · February 2010 with 80 Reads

## Viral Hepatitis A to E in South Mediterranean Countries



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Epidemiology of hepatitis E in South-East Europe in the "One Health" concept



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### [PDF] [Toxoplasma gondii Infection in South-East Europe ...](#)

[cdn.intechopen.com/pdfs/38946/InTech-Toxoplasma\\_gondii\\_infection\\_in\\_south\\_east\\_europe...](#)

This chapter reviews the **epidemiology** and epizootiology of *T. gondii* infection in **South-East Europe** (SEE). SEE is here considered as the territory comprising the Balkan Peninsula (35° – 46°53' N latitude, 13°23' – 30° E longitude), bordered by the Adriatic Sea to the west, the

**Cited by:** 2

**Author:** Branko Bobić, Ivana Klun, Aleksandra Ni...

**Publish Year:** 2012

### [WHO/Europe | Scientific symposium: Epidemiology today ...](#)

[www.euro.who.int/.../2014/09/scientific-symposium-epidemiology-today-between-east-and-west ▾](#)

**Scientific symposium: Epidemiology** today between **East** and **West**. One health concept in **communicable disease prevention and control; Epidemiology in emergency** situations /disaster **epidemiology** This Symposium presents an opportunity to share results between colleagues. In parallel to the plenaries, poster sessions will be organized so participants can highlight relevant results in **epidemiology**.

### [Eurosurveillance | Dengue virus infection in a traveller ...](#)

[https://www.eurosurveillance.org/content/10.2807/ese.15.40.19677-en ▾](#)

Dengue virus (DENV) is endemic in **south-east** Asia and Central to South America. In August 2010, a DENV infection was diagnosed in a German traveller returning from a trip to Croatia in **south-east Europe**. The patient presented with fever and other typical symptoms of DENV-infection. Virological investigation revealed the presence of DENV-specific IgM, a rise in DENV-specific IgG and the ...

**Cited by:** 143

**Author:** Jonas Schmidt-Chanasit, M. Haditsch, Ire...

**Publish Year:** 2010

### [SECIDS | South East European Center of Infectious Diseases ...](#)

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## Hepatitis E virus (HEV)—The Future - NCBI

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6466233/> ▼ [翻译此页](#)

作者: J Denner - 2019 - [相关文章](#)

2019年3月13日 - The seroprevalence of **hepatitis E** in the **southeast** of France ... HEV-4 was also found in **European** countries [39]. The **prevalence** of the virus depended on the age of the animal, the ..... The elimination of HEV from pigs, other animals, and humans is consistent with the **One Health concept**, preventing ...

## [PDF] HEV2018 Hepatitis E Workshop Abstract Book - VISAVET

[https://www.visavet.es/.../hepatitis-e.../HEV2018\\_Hepatitis\\_E\\_Workshop\\_Ab...](https://www.visavet.es/.../hepatitis-e.../HEV2018_Hepatitis_E_Workshop_Ab...) - [翻译此页](#)

2018年6月4日 - focused on HEV by a **One Health** approach, connecting professionals ..... Human **hepatitis E** in **Romania**: autochthonous or/and imported? ..... 72 ... Molecular **epidemiology of hepatitis E** virus in the Czech Republic ..... In developing countries, especially in **Southeast** Asia and Africa,.

## (PDF) Hepatitis E virus (HEV)—The Future - ResearchGate

[https://www.researchgate.net/.../331736299\\_Hepatitis\\_E\\_virus\\_HEV-The\\_F...](https://www.researchgate.net/.../331736299_Hepatitis_E_virus_HEV-The_F...) - [翻译此页](#)

2019年3月28日 - animals and humans is consistent with the **One Health concept**, preventing ... The seroprevalence of **hepatitis E** in the **southeast** of France ...

## Assessment of the risk of hepatitis E in Switzerland - SAFOSO

<https://www.safoso.ch/.../assessment-of-the-risk-of-hepatitis-e-in-switzerland> ▼ [翻译此页](#)

Network for Evaluation of **One Health** (NEOH) - African Swine Fever (ASF) ecology and **epidemiology** in **Eastern Europe** (Kazakhstan) .... **Hepatitis E** is increasingly recognized as a foodborne zoonotic disease transmitted ... In addition, the objective was to assess the burden of disease of human **hepatitis E** in Switzerland.

## WHO | One Health

<https://www.who.int/features/qa/one-health/en/> ▼ [翻译此页](#)

'**One Health**' is an approach to designing and implementing programmes, policies ... of zoonoses and food safety problems, **epidemiological** data and laboratory ...

## WHO | Knowledge integration in One Health policy formulation ...