

# Impact of culture-independent methods on surveillance of STEC in Austria

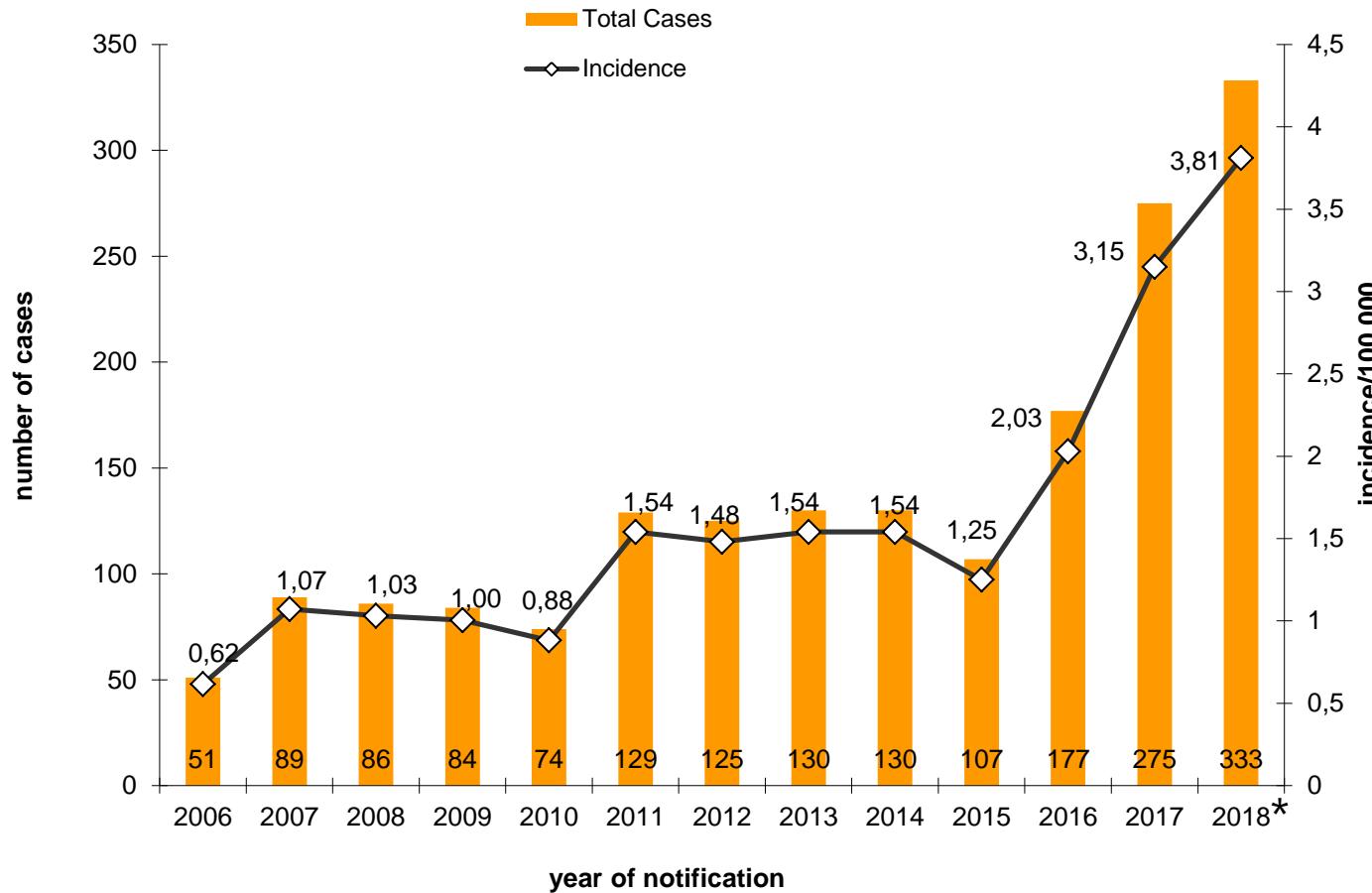
Dr. Sabine Schlager

National Reference Center for *Escherichia coli* including VTEC

Division for Public Health

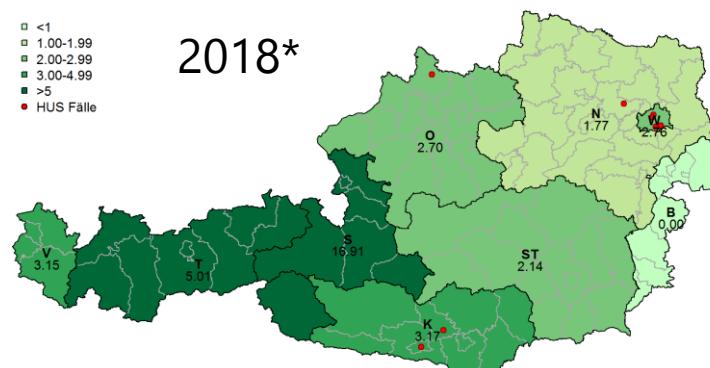
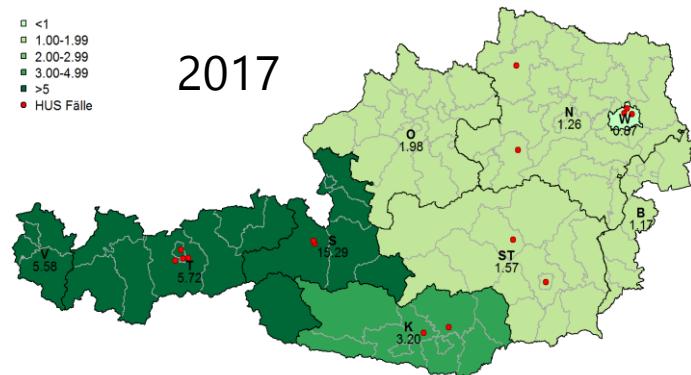
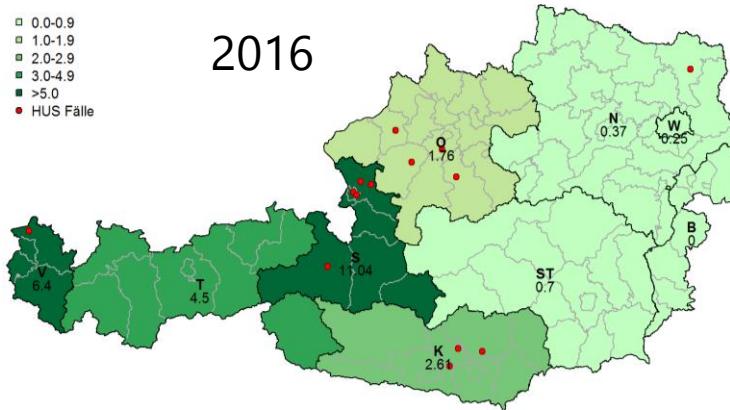
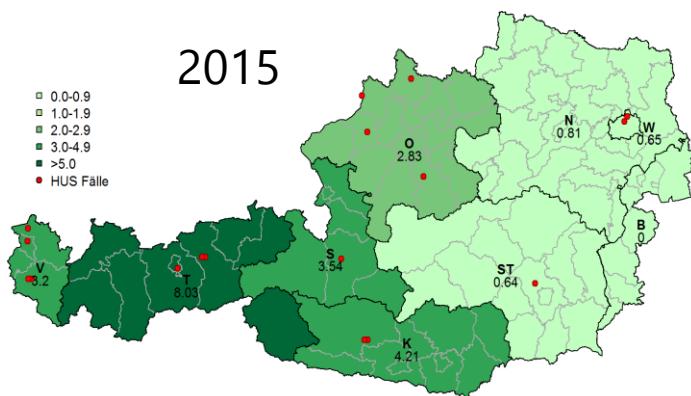
AGES - Austrian Agency for Health and Food Safety, Graz

# Notified STEC cases, Austria 2006-2018



Ministry of Health (2006-2008), EMS (2009-2018\*), NRC EHEC-Innsbruck (2006-2009) und NRC VTEC-AGES, Graz (2010-2018\*), (\* preliminary data)

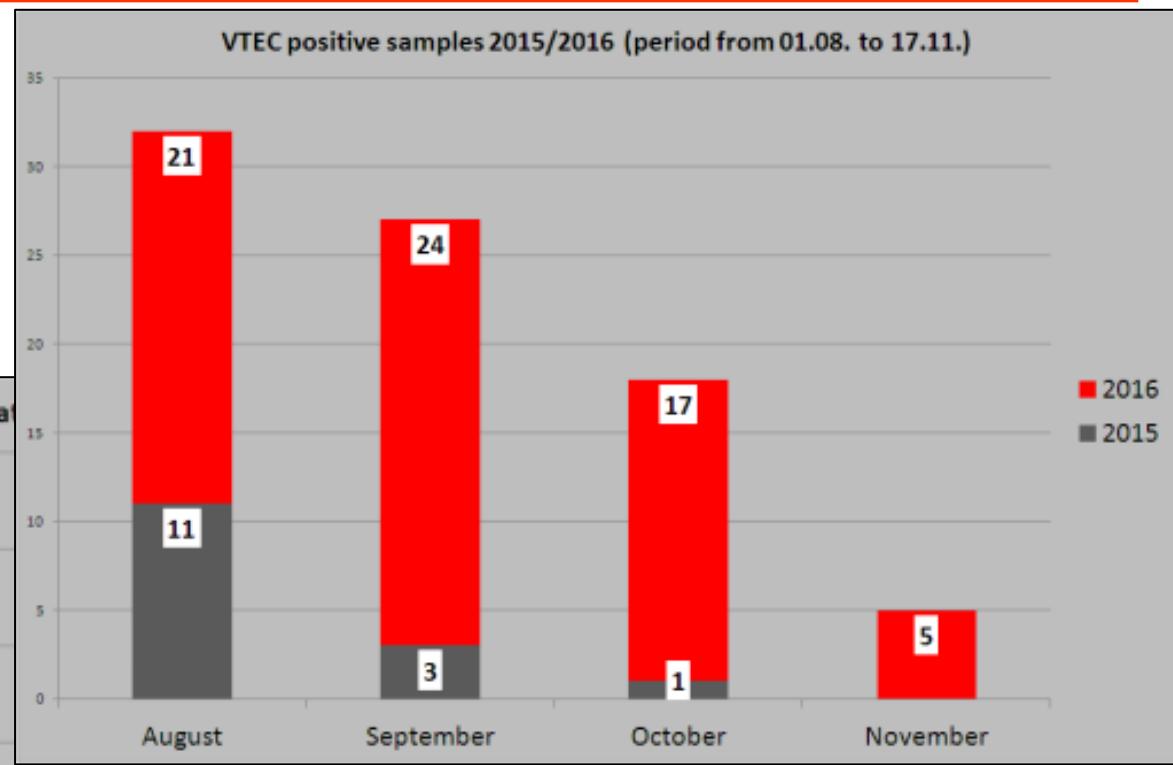
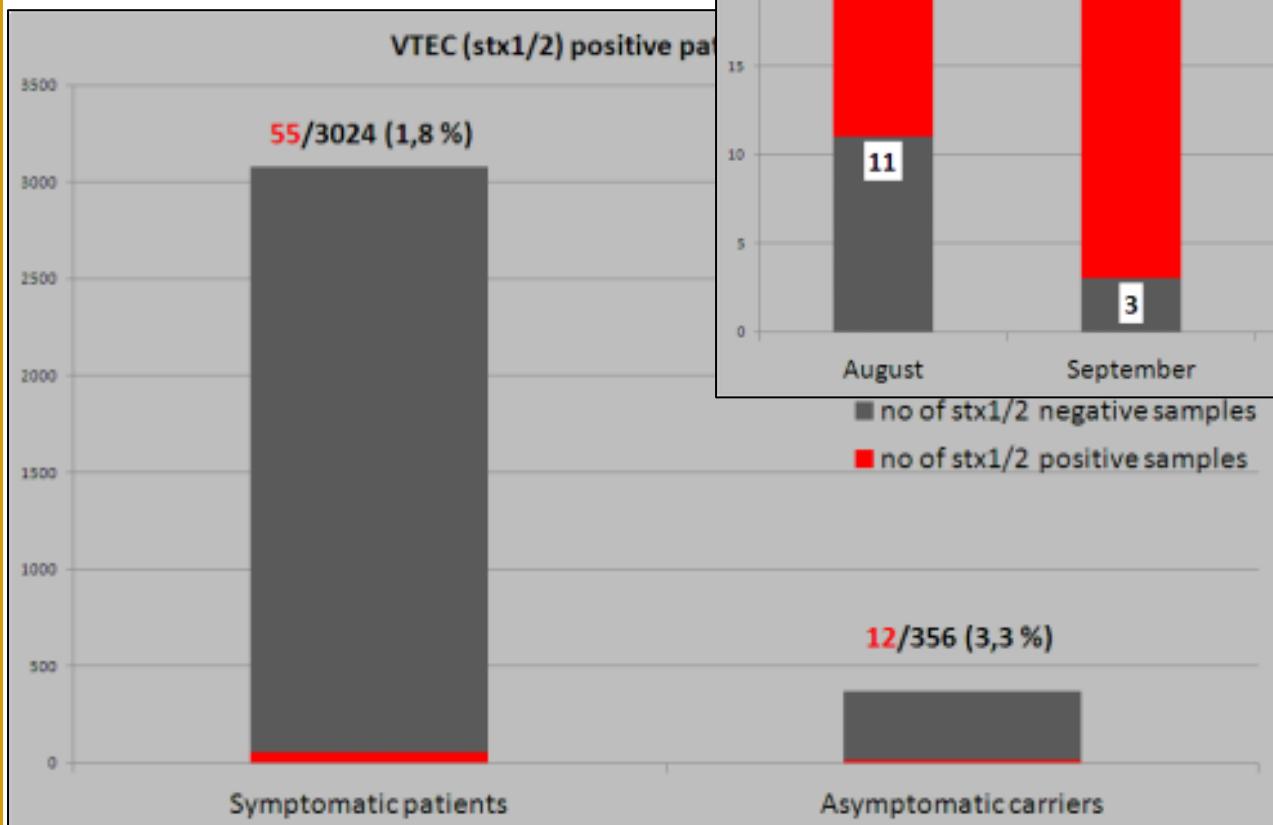
# Geographical distribution of notified STEC cases (incidence/100,000 population), Austria 2015-2018



\* Preliminary data

NRZ *E. coli* / Schlager

# Results from changing the diagnostic procedere of STEC screening in Laboratory S (01.08.2016-17.11.2016)



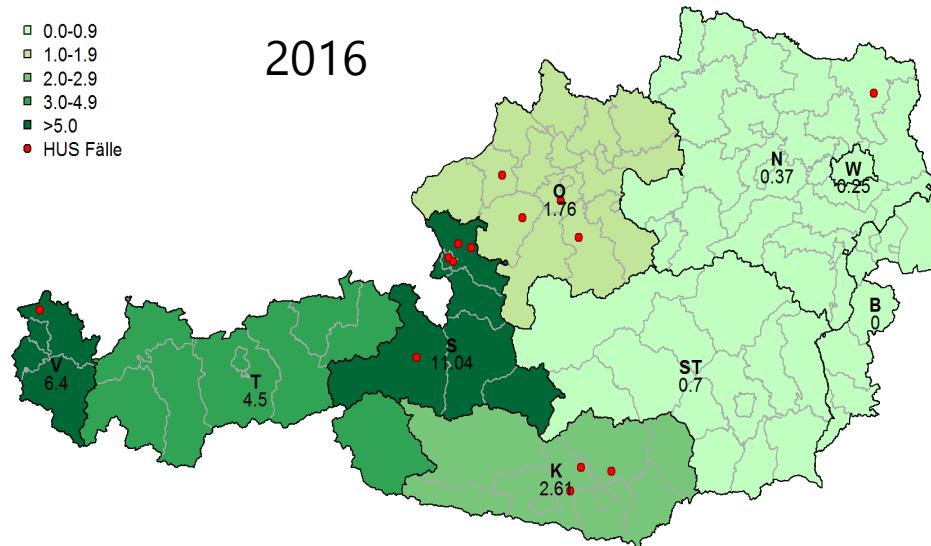
Poster ÖGIT, March 2017  
DOI: 10.13140/RG.2.2.25164.41607

# STEC isolation rates

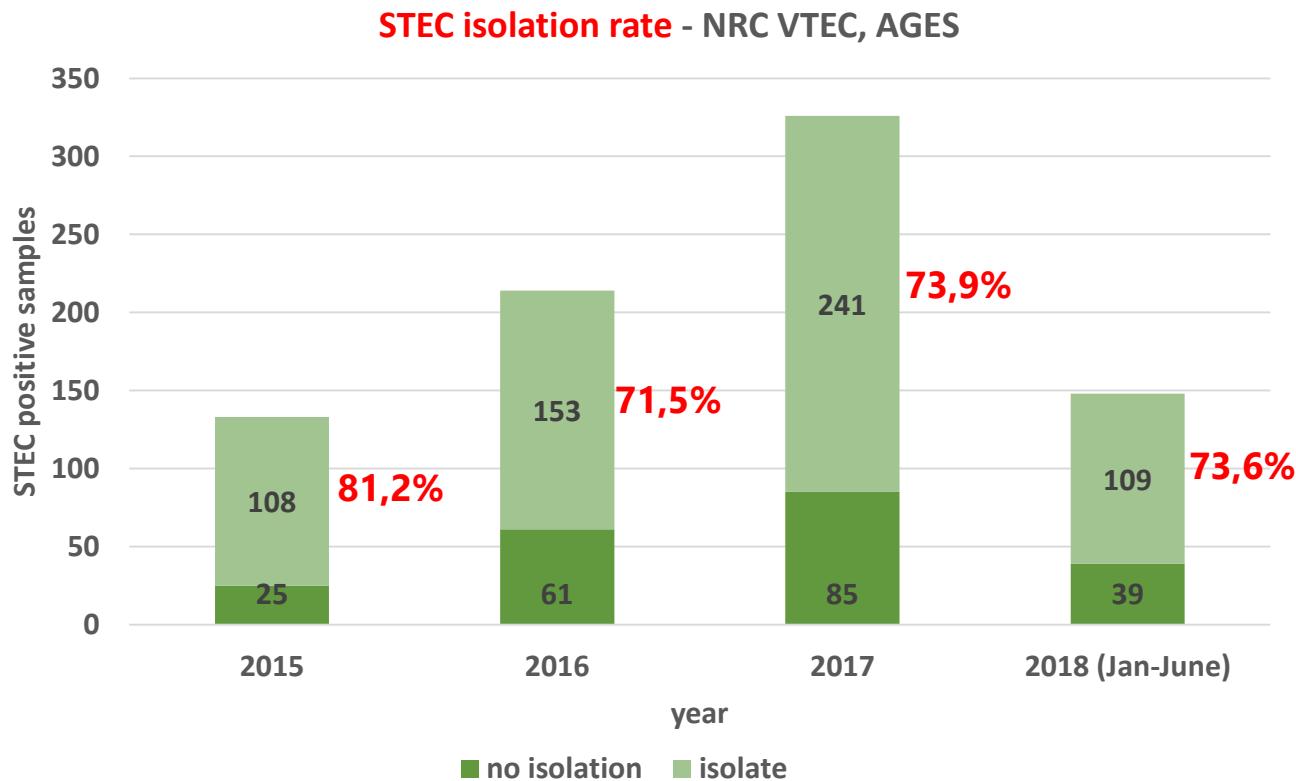
Laboratory S: from the 67 **PCR** positive samples 42 STEC isolates were gained in the NRC.  
Isolation rate = 63%

Laboratory V: from the 79 **PCR** positive samples sent in 2016-2018\*, from 45 samples isolation was aspired to in the NRC. 33 STEC isolates were gained.  
Isolation rate = 73%

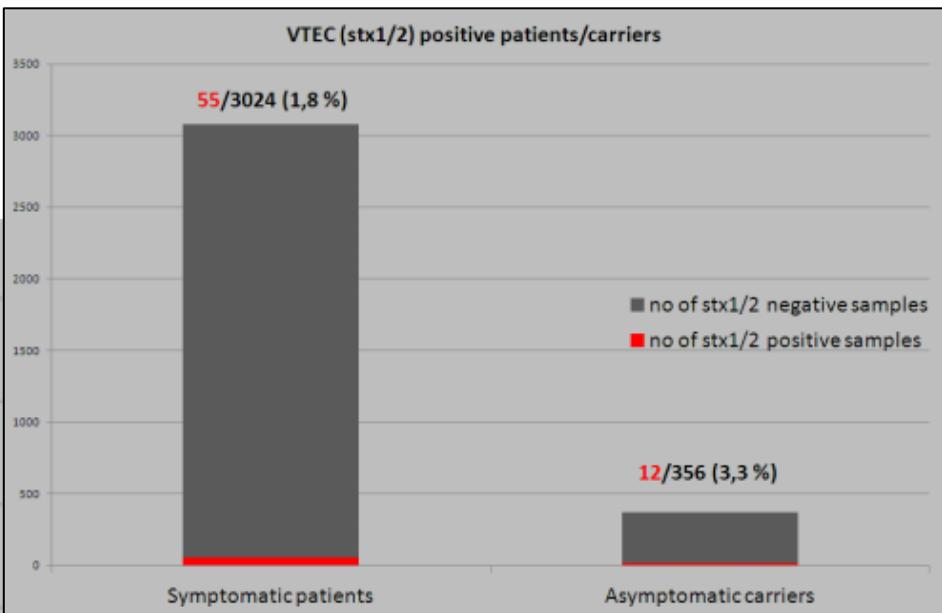
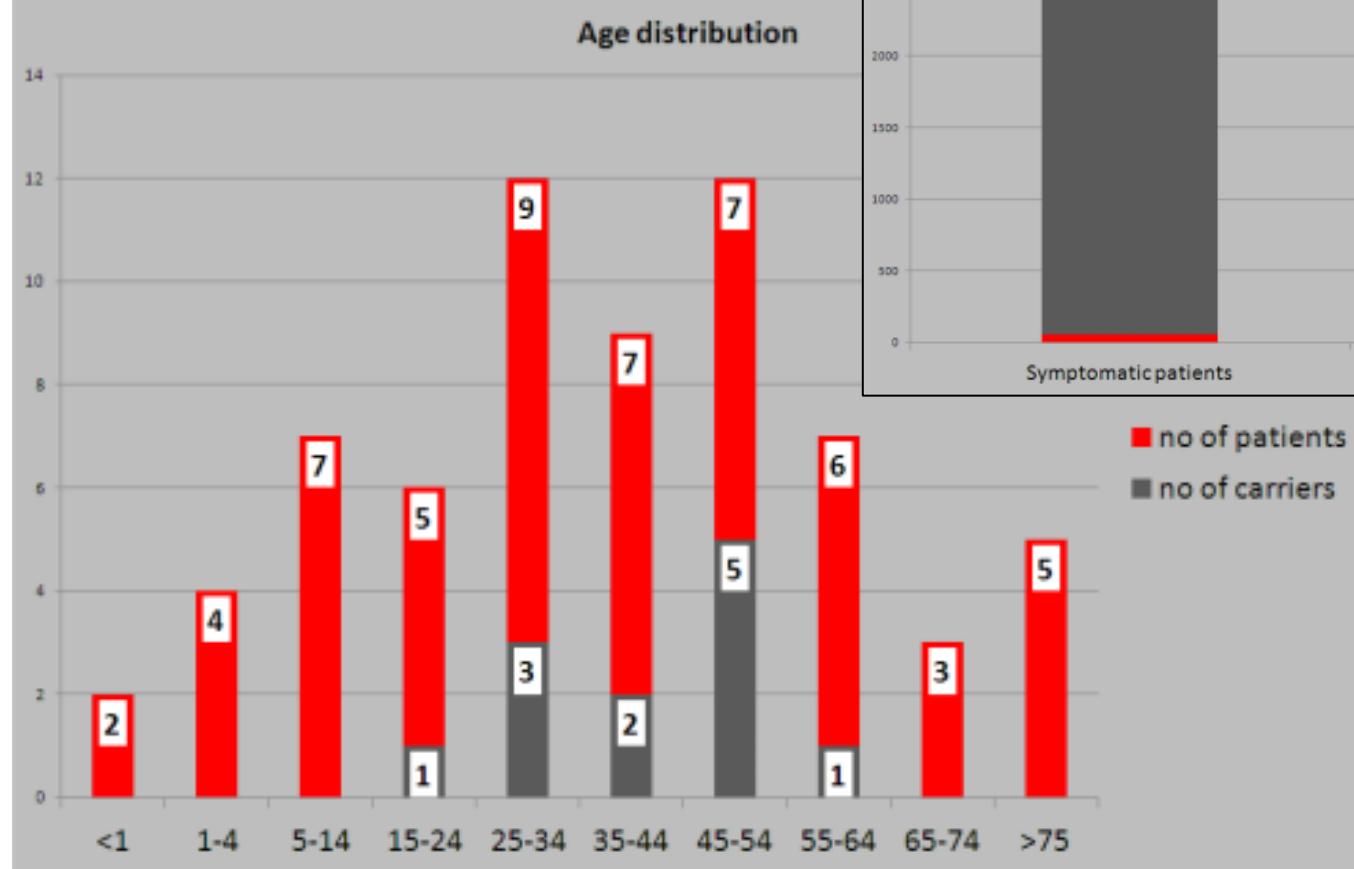
Laboratory T: from the 98 **ELISA** positive samples sent in 2016-2018\*, from 85 samples isolation was aspired to in the NRC. 80 STEC isolates were gained.  
Isolation rate = 94%



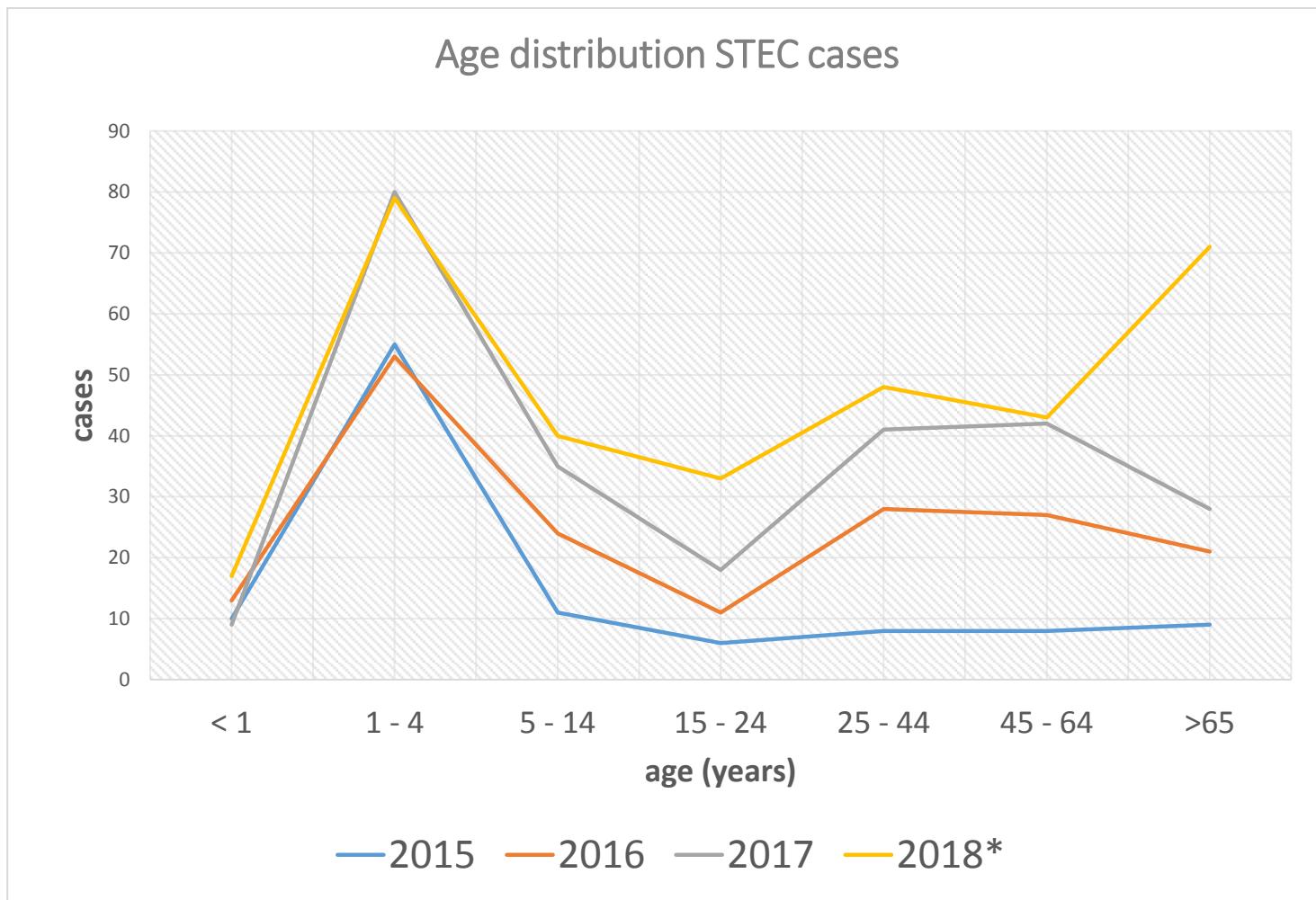
# STEC isolation rates



# Age distribution of PCR positive samples, Laboratory S, (01.08.2016 – 17.11.2016)

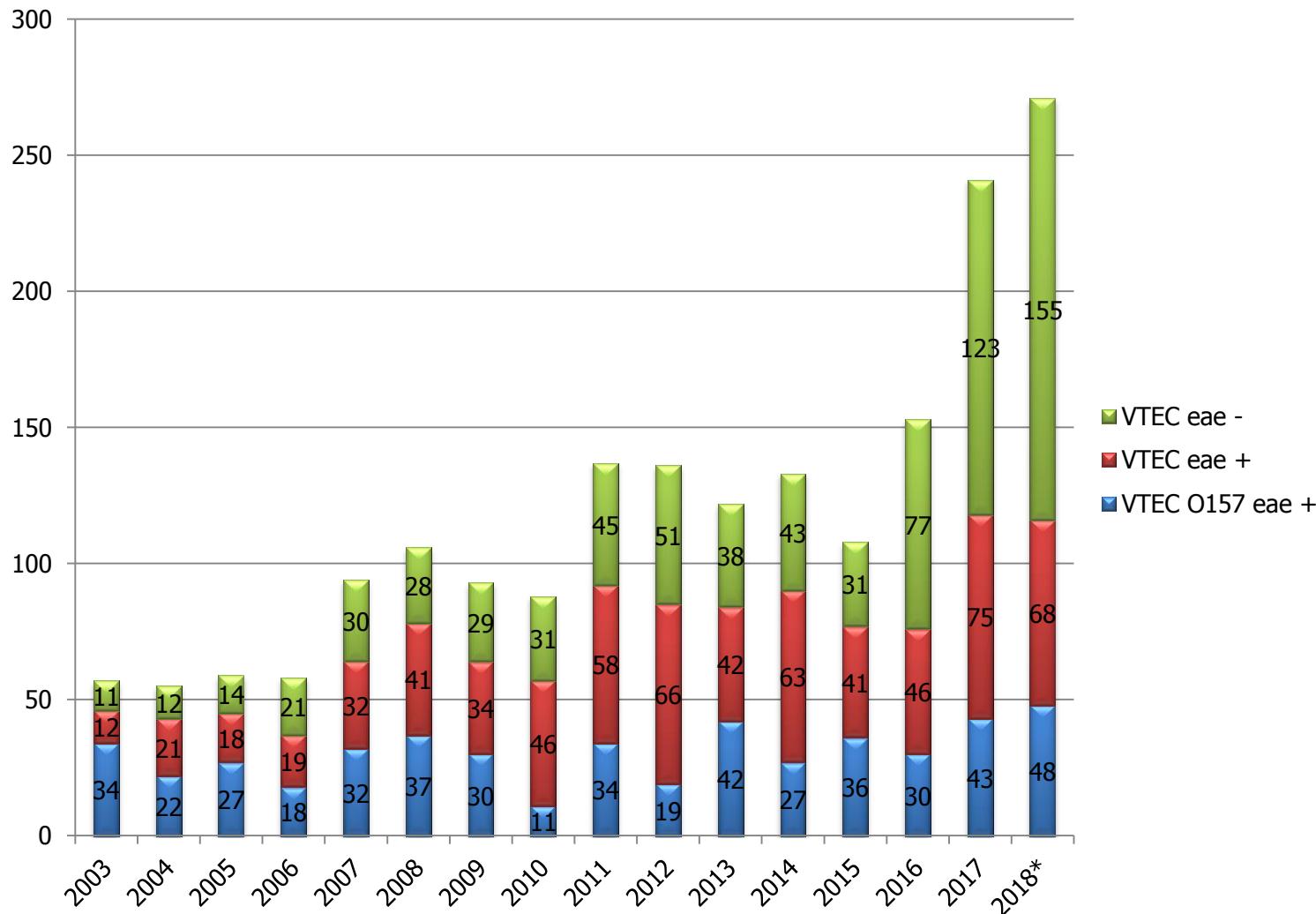


# Age distribution of notified STEC cases, Austria 2015 – 2018



\* Preliminary data

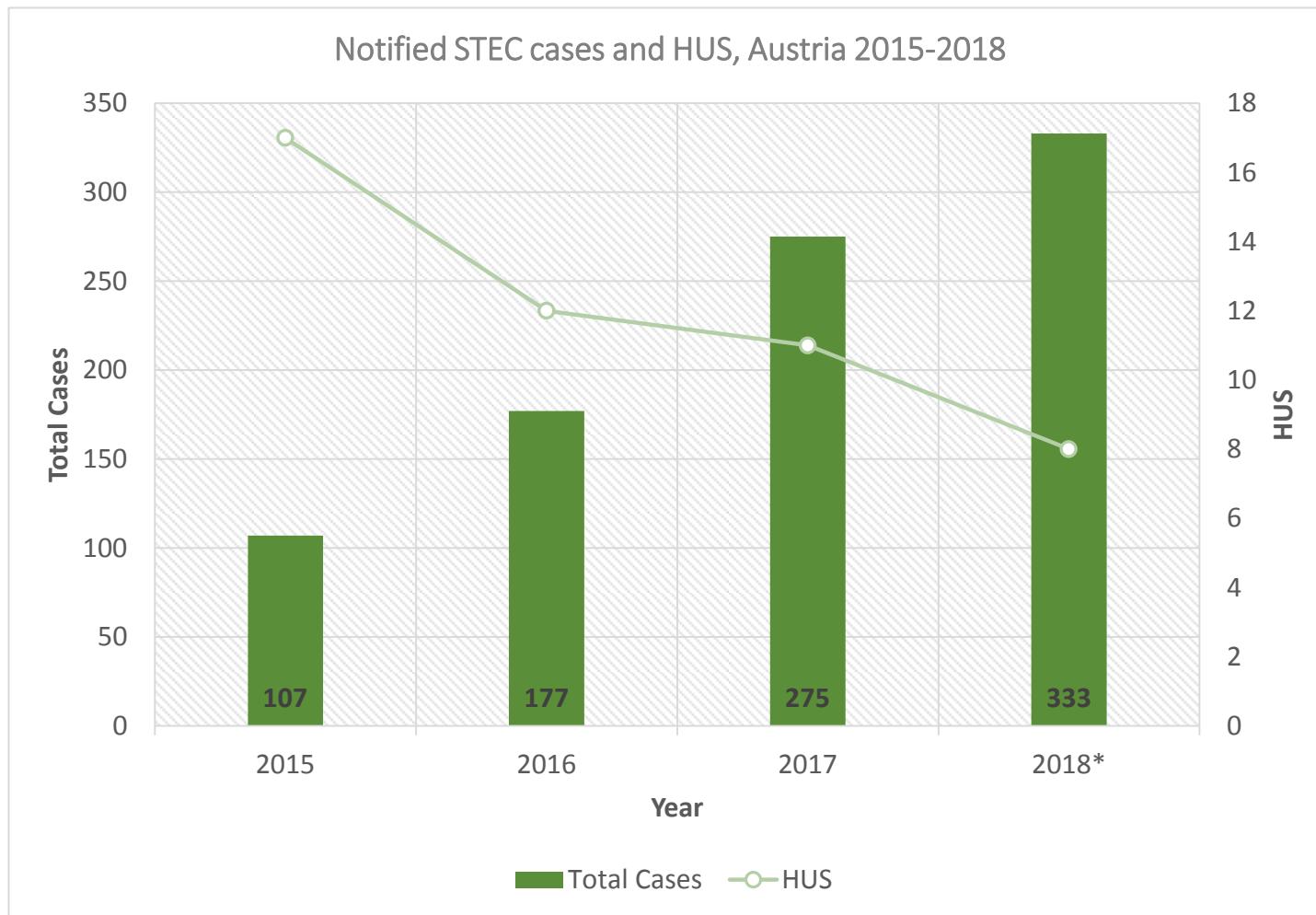
# Human STEC isolates, Austria 2003-2018



NRC EHEC-Innsbruck (2006-2009) and NRC VTEC-AGES, Graz (2010-2018),

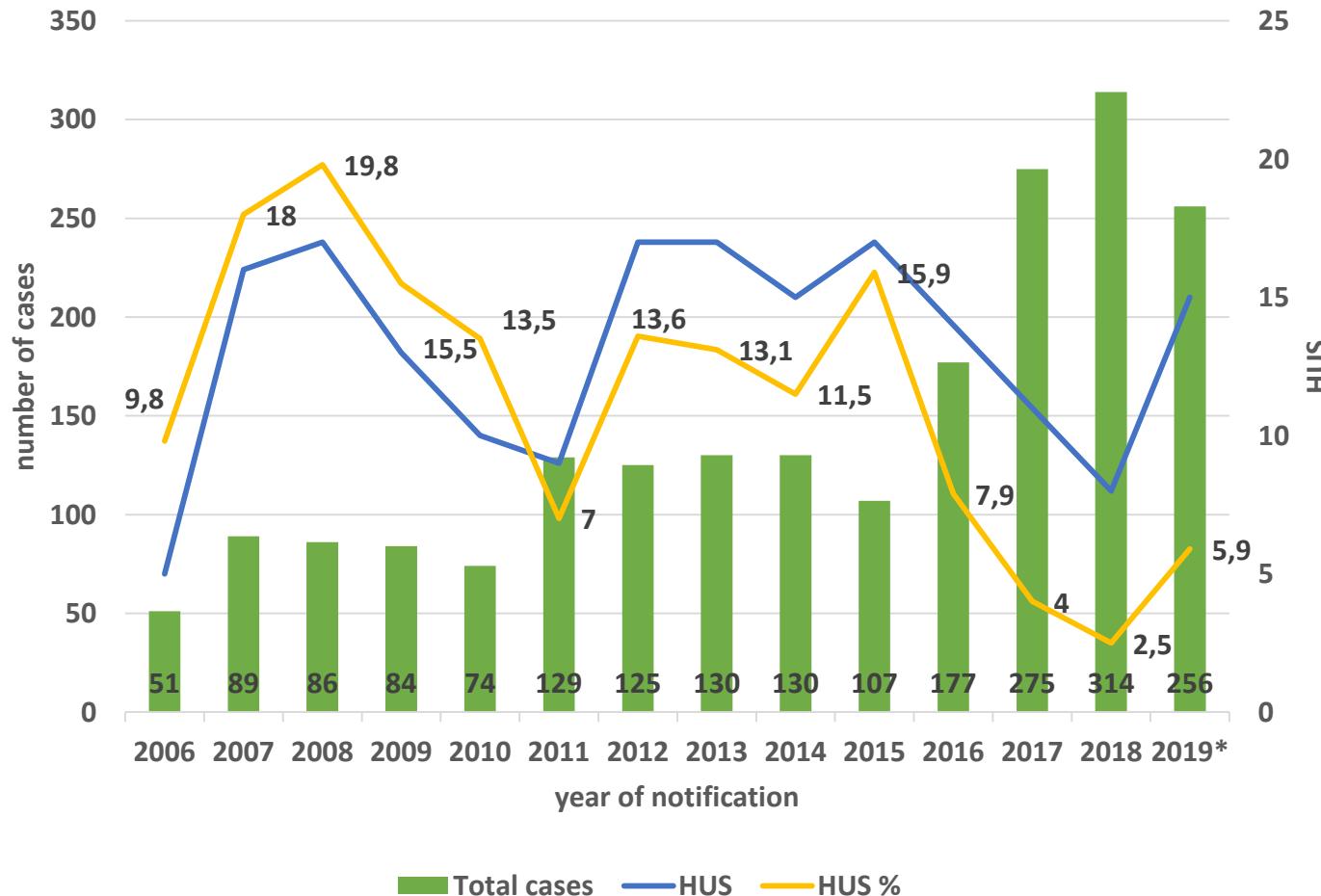
\* preliminary data

# Notified STEC cases and HUS, Austria 2015-2018



\* Preliminary data

# Notified STEC and HUS cases, Austria 2006-2019\*



Ministry of Health (2006-2008), EMS (2009-2019\*), NRC EHEC-Innsbruck (2006-2009) und NRC VTEC-AGES, Graz (2010-2019\*), (\* 15.10.2019)

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# Thank you for your attention!

**National Reference Center and National Reference Laboratory for  
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