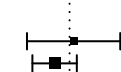


*Enterobacteriaceae* + *Non-Enterobacteriaceae*  
Subgroups/Author(s)

Sampling Year    Trait-Species    Weight% Pr[95% CI]

2009–10

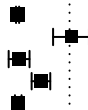
Saghir et al., 2009  
Ullah et al., 2009



2006–07    En    0.87%    0.19 [ 0.04, 0.35]  
2006–07    KP    1.58%    0.13 [ 0.06, 0.20]

2011–12

Ejaz et al., 2011  
Perry et al., 2011  
Hassan et al., 2011  
Nazir et al., 2011  
Tanvir et al., 2012



2009–10    En    2.07%    0.01 [ 0.00, 0.01]  
2009–10    En    1.72%    0.18 [ 0.13, 0.24]  
2009–10    ACBL–En    1.94%    0.01 [–0.02, 0.05]  
2008–09    En    1.97%    0.09 [ 0.05, 0.12]  
2007–08    EC    2.06%    0.01 [–0.00, 0.02]

RE Model for Subgroup

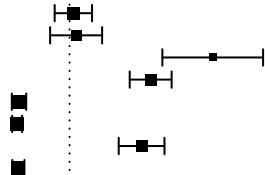
(T<sup>2</sup> = 0.0008, df = 4, Q = 56.65,  
p < .0001; H<sup>2</sup> = 14.2, I<sup>2</sup> = 92.9%)



0.05 [–0.04, 0.13]

2013–14

Kathryn M. Day et al., 2013  
Saleem et al., 2013  
Hasan et al., 2013  
Nahid et al., 2013  
Habeeb et al., 2013  
Jameel et al., 2014  
Kalam et al., 2014  
Habeeb et al., 2014



2011    En    1.70%    0.19 [ 0.13, 0.25]  
2006–11    KP    1.45%    0.20 [ 0.12, 0.29]  
2010–11    AB    0.80%    0.66 [ 0.49, 0.82]  
–    GNR    1.62%    0.45 [ 0.38, 0.52]  
2005–10    ESBL–EC    2.01%    0.01 [–0.01, 0.04]  
2011–12    ESBL–EC    2.04%    0.01 [–0.01, 0.02]  
2012    GNR    1.56%    0.42 [ 0.34, 0.50]  
2005, 9–10    ESBL–EC    2.03%    0.01 [–0.01, 0.03]

RE Model for Subgroup

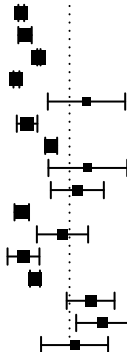
(T<sup>2</sup> = 0.0144, df = 7, Q = 347.69,  
p < .0001; H<sup>2</sup> = 49.7, I<sup>2</sup> = 98.0%)



0.22 [0.03, 0.42]

2015–16

Riaz and Bashir, 2015  
Sohail et al., 2015  
Ashraf and Ahmed, 2015  
Ikram et al., 2015  
Pesesky et al., 2015  
Malik and Ahmed, 2016  
Javed et al., 2016  
Ilyas et al., 2016  
Hafeez et al., 2016  
Salamat et al., 2016  
Shabbir et al., 2016  
Rahman et al., 2016  
Ullah et al., 2016  
Shah et al., 2016  
Qadeer et al., 2016  
Sattar et al., 2016



2007–8    En    2.06%    0.02 [ 0.01, 0.03]  
2012–14    En    2.02%    0.03 [ 0.01, 0.05]  
2010–14    En    2.07%    0.08 [ 0.07, 0.08]  
2011–12    SE    2.06%    0.00 [–0.01, 0.01]  
2012–13    En    1.07%    0.24 [ 0.11, 0.36]  
2011–13    SE    1.94%    0.04 [ 0.00, 0.07]  
2013–14    En    2.03%    0.12 [ 0.10, 0.14]  
2015    En    1.05%    0.24 [ 0.11, 0.37]  
2013–14    En    1.44%    0.21 [ 0.12, 0.29]  
2011–12    ACBL–GNB    2.01%    0.02 [–0.00, 0.05]  
2014    En    1.46%    0.16 [ 0.07, 0.24]  
2013–14    ESBL–EC    1.79%    0.03 [–0.03, 0.08]  
2012–15    En    2.04%    0.07 [ 0.05, 0.08]  
2013–14    GNB, GPB    1.52%    0.25 [ 0.17, 0.33]  
2015–16    En    1.44%    0.29 [ 0.20, 0.38]  
2013    En    1.21%    0.20 [ 0.09, 0.31]

RE Model for Subgroup

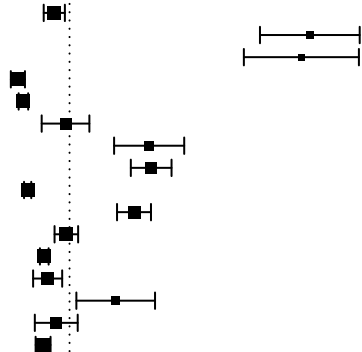
(T<sup>2</sup> = 0.0020, df = 15, Q = 370.84,  
p < .0001; H<sup>2</sup> = 24.7, I<sup>2</sup> = 96.0%)



0.09 [0.05, 0.14]

2017–18

Abrar et al., 2017  
Khurshid et al., 2017  
Indhar et al., 2017  
Khan et al., 2017  
Shabbir et al., 2017  
Ullah et al., 2017  
Younas et al., 2018  
Ain et al., 2018  
Ansari et al., 2018  
B. Jamil et al., 2018  
Braun et al., 2018  
Naz et al., 2018  
Luxmi and Javed, 2018  
J. Jamil et al., 2018  
Humayun et al., 2018  
Alizai et al., 2018



2013–15    ESBL–En    1.94%    0.13 [ 0.09, 0.16]  
2016–17    AB    0.81%    0.98 [ 0.81, 1.14]  
2014    Asp    0.67%    0.95 [ 0.76, 1.14]  
2014    En    2.01%    0.01 [–0.02, 0.03]  
2014–15    En    2.04%    0.03 [ 0.01, 0.04]  
–    PA    1.52%    0.17 [ 0.09, 0.25]  
2014–15    ACBL–KP    1.17%    0.44 [ 0.33, 0.56]  
2015–17    En    1.64%    0.45 [ 0.38, 0.52]  
2015–16    En    2.06%    0.04 [ 0.03, 0.05]  
2014    En    1.75%    0.39 [ 0.34, 0.45]  
2016    GNB    1.91%    0.17 [ 0.13, 0.21]  
2016–17    GNR    2.05%    0.10 [ 0.08, 0.11]  
2015–16    ESBL–En    1.83%    0.11 [ 0.06, 0.16]  
2016–17    EC    1.05%    0.33 [ 0.20, 0.46]  
2015    KP    1.61%    0.14 [ 0.06, 0.21]  
2014–17    En    2.00%    0.09 [ 0.07, 0.12]

RE Model for Subgroup

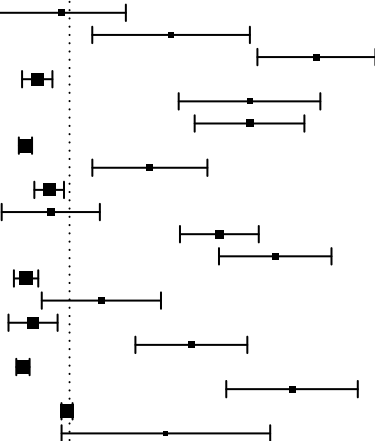
(T<sup>2</sup> = 0.0091, df = 15, Q = 639.41,  
p < .0001; H<sup>2</sup> = 42.6, I<sup>2</sup> = 97.7%)



0.23 [0.10, 0.37]

2019–20

Baloch et al., 2019  
Umair et al., 2019  
Qamar et al., 2019a  
Ahmed et al., 2019  
M. Wajid et al., 2019  
Muhammad Wajid et al., 2019  
Sattar et al., 2019  
Sana et al., 2019  
Heinz et al., 2019  
Bilal et al., 2019  
Rasool et al., 2019  
Farooq et al., 2019  
S. Fatima et al., 2019  
Younas et al., 2019  
Ur Rahman et al., 2019  
Masseron et al., 2019  
Din et al., 2019  
D'Souza et al., 2019  
Aslam et al., 2020  
Talpur et al., 2020



2018    EC    0.58%    0.15 [–0.06, 0.37]  
2016    ESBL–EC    0.42%    0.52 [ 0.26, 0.78]  
2017–18    EC    0.65%    1.00 [ 0.80, 1.20]  
2018    EC    1.81%    0.07 [ 0.02, 0.12]  
2015–16    SE    0.50%    0.78 [ 0.54, 1.01]  
–    SE    0.71%    0.78 [ 0.60, 0.96]  
2017–18    En    2.02%    0.03 [ 0.01, 0.06]  
2016–18    En    0.67%    0.45 [ 0.26, 0.64]  
2010–12    En    1.82%    0.11 [ 0.06, 0.16]  
–    PV    0.82%    0.12 [–0.05, 0.28]  
2016–17    GNR    1.05%    0.68 [ 0.55, 0.81]  
2019    MDR–EC    0.69%    0.86 [ 0.68, 1.05]  
2019    GNR–ESBL    1.90%    0.04 [–0.00, 0.08]  
2017–18    MDR–EC    0.64%    0.29 [ 0.09, 0.48]  
–    ESBL–EC    1.50%    0.06 [–0.02, 0.14]  
2017–18    GNR    0.70%    0.58 [ 0.40, 0.77]  
2018    GNB    2.02%    0.03 [ 0.00, 0.05]  
–    AB    0.56%    0.92 [ 0.70, 1.14]  
2014–18    KP    2.03%    0.17 [ 0.15, 0.19]  
2019    KP    0.26%    0.50 [ 0.15, 0.85]

RE Model for Subgroup

(T<sup>2</sup> = 0.0203, df = 19, Q = 564.96,  
p < .0001; H<sup>2</sup> = 29.7, I<sup>2</sup> = 96.6%)



0.36 [0.20, 0.52]

RE Model for All Studies

(T<sup>2</sup> = 0.0045, df = 66, Q = 2440.48,  
p < .0001; H<sup>2</sup> = 37.0, I<sup>2</sup> = 97.3%)



100.00%    0.18 [ 0.12, 0.23]

Test for Subgroup Differences

(T<sup>2</sup> = 0.0053, df = 4, Q<sub>M</sub> = 1.89,  
p = 0.1243; H<sup>2</sup> = 33.0, I<sup>2</sup> = 97.0%)

