Figure 1: Pooled proportional mortality for cause-specific deaths in people with Pemphigus Vulgaris (PV)

Study	ES (95% CI)
Cardiovascular Ryan (1971) Krain et al (1974) Lever et al (1977) Ljubojević et al (2002) Beata et al (2007) Svecova (2015) Sardana et al (2016) Chowdhury et al (2017) Jelti et al (2019) Subtotal ($I^2 = 76.77\%$, p = 0.00)	0.04 (0.00, 0.21) 0.33 (0.07, 0.70) 0.45 (0.17, 0.77) 0.43 (0.18, 0.71) 0.29 (0.04, 0.71) 0.80 (0.28, 0.99) 0.50 (0.01, 0.99) 0.29 (0.08, 0.58) 0.27 (0.12, 0.46) 0.34 (0.18, 0.50)
Endocrinological and metabolic Ryan (1971) Jelti et al (2019) Subtotal (I^2 = .%, p = .)	 ● 0.04 (0.00, 0.21) ● 0.03 (0.00, 0.17) ● 0.04 (-0.01, 0.09) *
Respiratory Ryan (1971) Krain et al (1974) Lever et al (1977) Hirone (1978) Mourellou et al (1995) Goyal et al (2013) Bai et al (2016) Jelti et al (2019) Subtotal (I^2 = 94.03%, p = 0.00)	 0.29 (0.13, 0.51) 0.11 (0.00, 0.48) 0.09 (0.00, 0.41) 0.40 (0.12, 0.74) 0.92 (0.62, 1.00) 0.19 (0.04, 0.46) 0.75 (0.19, 0.99) 0.03 (0.00, 0.17) 0.33 (0.09, 0.58)
Dermatologcial Ryan (1971) Krain et al (1974) Hirone (1978) Subtotal (I^2 = .%, p = .)	• 0.08 (0.01, 0.27) • 0.11 (0.00, 0.48) • 0.20 (0.03, 0.56) ◊ 0.10 (0.01, 0.19)
Other Ryan (1971) Krain et al (1974) Hirone (1978) Ljubojević et al (2002) Jelti et al (2019) Subtotal (I^2 = 14.21%, p = 0.32)	 → 0.25 (0.10, 0.47) → 0.11 (0.00, 0.48) → 0.30 (0.07, 0.65) → 0.07 (0.00, 0.34) → 0.23 (0.10, 0.42) → 0.17 (0.09, 0.26)
Gastrointestinal Ryan (1971) Lever et al (1977) Ljubojević et al (2002) Beata et al (2007) Goyal et al (2013) Jelti et al (2019) Subtotal ($I^2 = 0.00\%$, p = 0.50)	 O.04 (0.00, 0.21) O.18 (0.02, 0.52) O.7 (0.00, 0.34) O.29 (0.04, 0.71) O.12 (0.02, 0.38) O.03 (0.00, 0.17) O.06 (0.01, 0.10)
Immunological diseases Ryan (1971) Krain et al (1974) Lever et al (1977) Hirone (1978) Ljubojević et al (2002) Goyal et al (2013) Bai et al (2016) Sardana et al (2016) Chowdhury et al (2017) Jelti et al (2019) Subtotal ($I^2 = 72.22\%$, p = 0.00)	 0.04 (-0.01, 0.09) * 0.04 (-0.01, 0.09) * 0.29 (0.13, 0.51) 0.11 (0.00, 0.48) 0.09 (0.00, 0.41) 0.40 (0.12, 0.74) 0.92 (0.62, 1.00) 0.19 (0.04, 0.46) 0.75 (0.19, 0.99) 0.03 (0.09, 0.58) 0.08 (0.01, 0.27) 0.11 (0.00, 0.48) 0.20 (0.03, 0.56) 0.10 (0.01, 0.19) 0.25 (0.10, 0.47) 0.11 (0.00, 0.48) 0.20 (0.03, 0.56) 0.10 (0.01, 0.19) 0.25 (0.10, 0.47) 0.11 (0.00, 0.48) 0.30 (0.07, 0.65) 0.10 (0.01, 0.19) 0.25 (0.10, 0.47) 0.11 (0.09, 0.26) 0.04 (0.00, 0.21) 0.18 (0.02, 0.52) 0.07 (0.00, 0.34) 0.29 (0.04, 0.71) 0.12 (0.02, 0.38) 0.03 (0.00, 0.17) 0.06 (0.01, 0.10) 0.25 (0.10, 0.47) 0.11 (0.00, 0.48) 0.27 (0.06, 0.61) 0.10 (0.00, 0.45) 0.25 (0.10, 0.47) 0.25 (0.10, 0.47) 0.11 (0.00, 0.48) 0.27 (0.06, 0.61) 0.10 (0.01, 0.81) 0.25 (0.10, 0.47) 0.50 (0.25, 0.75) 0.25 (0.01, 0.81) 0.50 (0.01, 0.99) 0.64 (0.35, 0.87) 0.28 (0.15, 0.41)
Neoplasms Krain et al (1974) Beata et al (2007) Svecova (2015) Jelti et al (2019) Subtotal (I^2 = 0.00%, p = 0.95)	 0.22 (0.03, 0.60) 0.14 (0.00, 0.58) 0.20 (0.01, 0.72) 0.23 (0.10, 0.42) 0.21 (0.10, 0.32) 0.29 (0.04, 0.71) 0.19 (0.04, 0.46)
Genitourinary Beata et al (2007) Goyal et al (2013) Chowdhury et al (2017) Subtotal (I^2 = .%, p = .)	 0.29 (0.04, 0.71) 0.19 (0.04, 0.46) 0.07 (0.00, 0.34) 0.13 (0.02, 0.23)

.01 .5 Proportion

Proportional mortality by cause of death in people with PV

Herbst et al. has been excluded as proportional mortality was 100% for infectious diseases *lower confidence interval=0