Vascular complications in moderately severe and severe acute pancreatitis are frequent and are associated with increased mortality

Study Aims:

The present study aimed to identify the **incidence**, **timing** and **risk** factors of all vascular complications in acute pancreatitis (AP).

Background:

There is limited data investigating all vascular complications in AP together, ncluding splanchnic (SVT) or extra-splanchnic venous thrombosis (eSVT – PE, DVT or line thrombosis) and haemorrhagic complications, especially in relation to anticoagulation for thrombosis management ⁽¹⁾.

The growing incidence and high mortality rates of AP warrants a comprehensive understanding of its clinical outcomes ^(2, 3).

Methods:

Patient Selection:

Patients were identified using a retrospective registry-based study including patients admitted to a tertiary referral centre with AP in the Northeast of England from 2015 to 2021.

Statistical Analysis:

Univariate binary logistic regression followed by multivariate analysis to identify risk factors for each vascular complication, using odds ratios (OR). All statistics carried out using IBM SPSS.

Study Demographics:

446 patients Median age= 59 years (IQR 24) Male:Female = **1.67:1**

Severity of AP in the study	n (%)
Mild (MAP)	21 (4.7)
Moderately Severe (MSAP)	204 (45.7)
Severe (SAP)	221 (49.6)

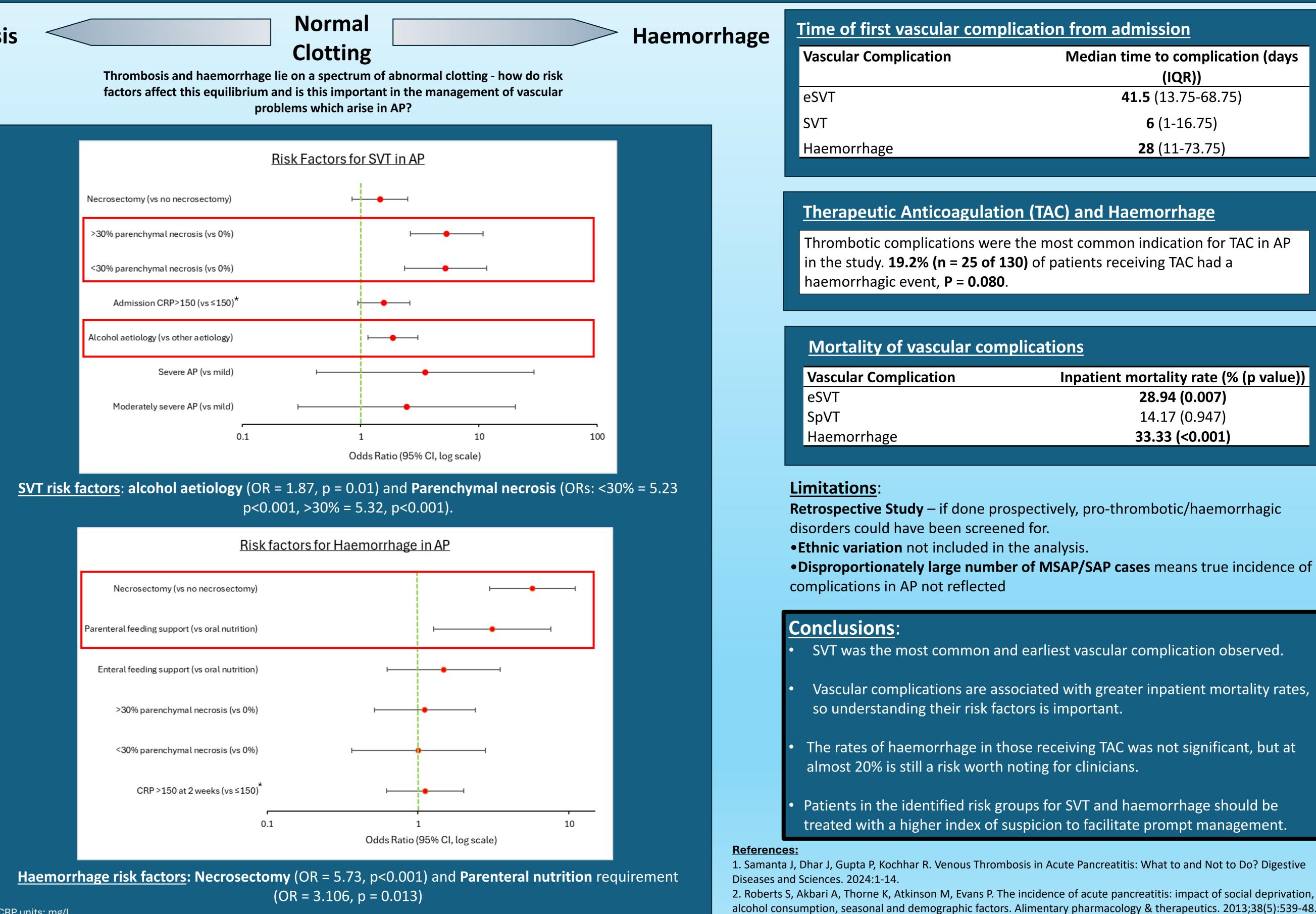
Incidence Rate of each vascular complication

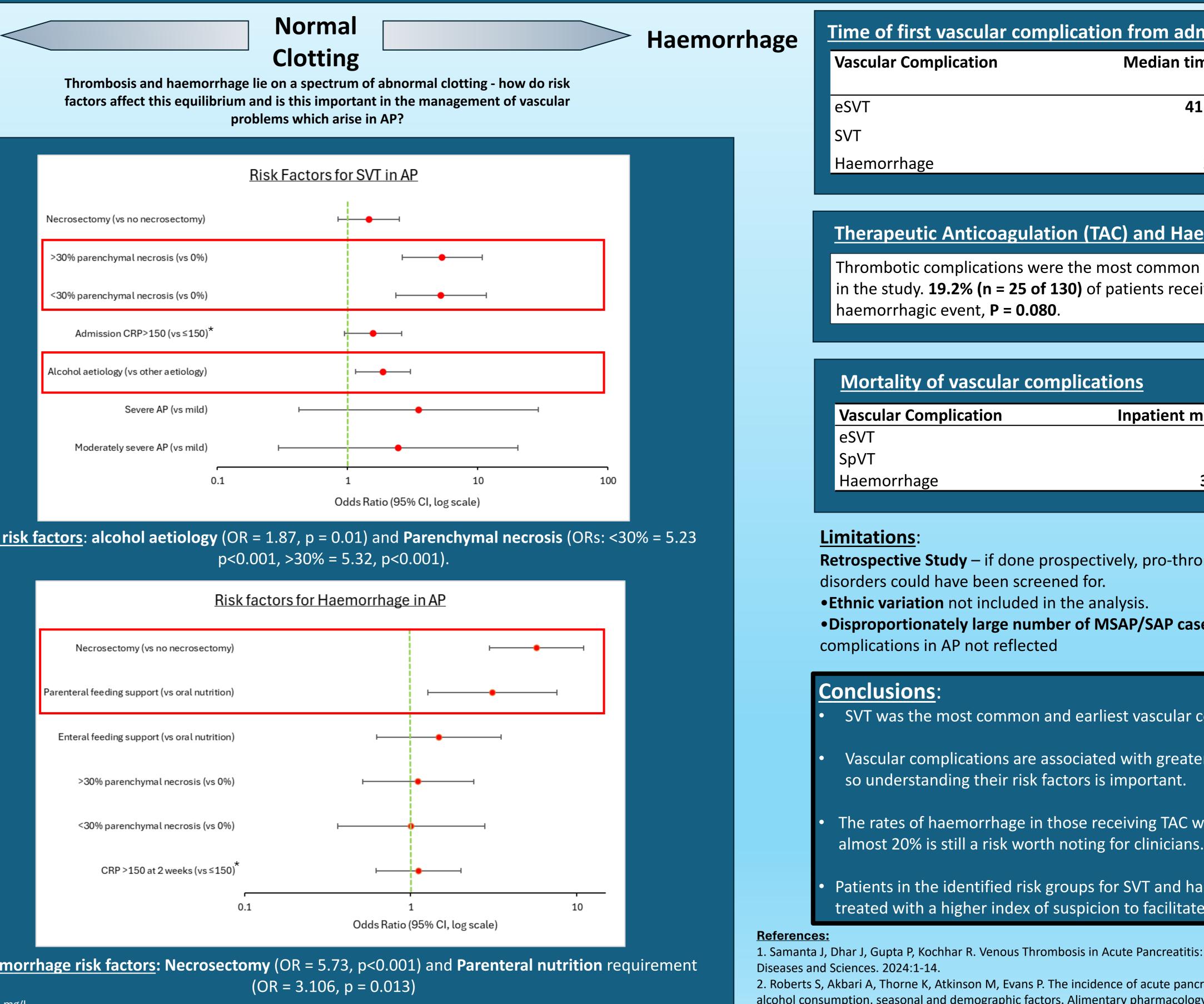
Vascular Complication	Incidence rate (% (n))
eSVT	8.5 (38)
SVT	26.9 (120)
Haemorrhage	15.5 (69)
The sites of eSVT were: DVT at only 4.3% (n = 19), PE at only 2.2% (n = 10) and	

both DVT and PE at 2.0% (n = 9).

Thrombosis

problems which arise in AP?





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Median time to complication (days (IQR)) 41.5 (13.75-68.75) **6** (1-16.75) **28** (11-73.75)

nortality rate (% (p value))
28.94 (0.007)
14.17 (0.947)
33.33 (<0.001)

3. Boxhoorn L, Voermans RP, Bouwense SA, Bruno MJ, Verdonk RC, Boermeester MA, et al. Acute pancreatitis. Lancet.