

	1	total
0	370	506
1	49	56
	419	143

$$PA = 377/562$$

$$\kappa = \frac{PA - PE}{1 - PE}$$

$$PE = P(\text{finding}) + P(\text{not finding})$$

$$= P\left(\frac{143}{562}\right) * \left(\frac{56}{562}\right) + P\left(\frac{419}{562}\right) + \left(\frac{506}{562}\right)$$