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SUPPLEMENTARY MATERIALS

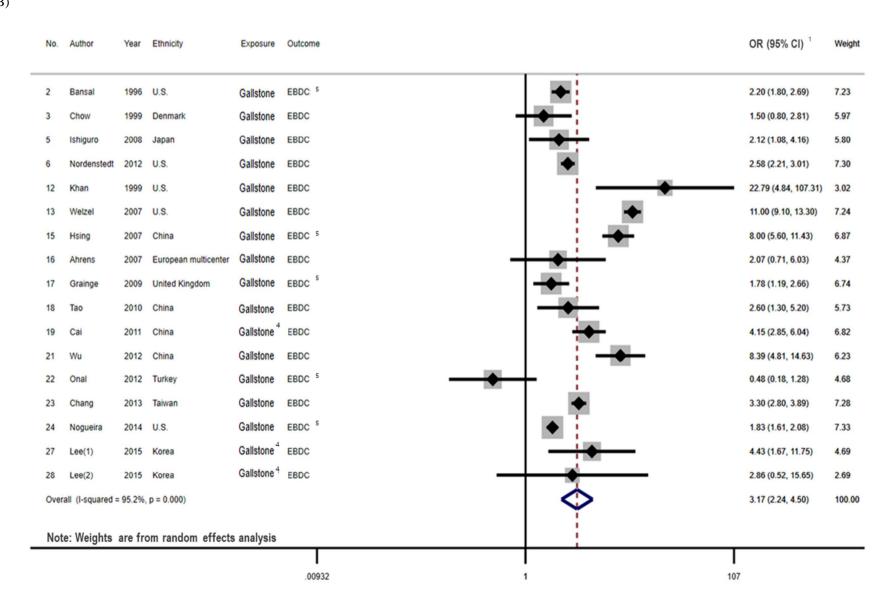
(A)

No.	Author	Year	Ethnicity	Exposure	Outcome		OR (95% CI) 1	Weight
1	Maringhini	1987	U.S.	Galistone	GBC	•	2.80 (0.90, 8.71)	5.70
3	Chow	1999	Denmark	Gallstone	GBC	•	3.60 (2.60, 4.98)	7.62
4	Zou	2000	China	Gallstone	GBC	⊢ ●	13.70 (7.10, 26.43)	6.97
5	Ishiguro	2008	Japan	Gallstone	GBC	 :	3.10 (1.55, 6.20)	6.88
7	Lai ²	2013	Taiwan	Gallstone	GBC		3.94 (1.90, 8.17)	6.79
9	Lowenfels	³ 1985	U.S.	Gallstone	GBC	•	9.10 (1.98, 41.77)	4.67
12	Khan	1999	U.S.	Gallstone	GBC	•	26.61 (6.98, 101.44)	5.14
13	Okamoto	1999	Japan	Gallstone	GBC		10.80 (4.10, 28.45)	6.16
15	Hsing	2007	China	Gallstone	GBC	-	23.80 (17.00, 33.32)	7.60
16	Ahrens	2007	European multicente	erGallstone	GBC		4.68 (1.85, 11.84)	6.27
17	Grainge	2009	United Kingdom	Gallstone	GBC		3.57 (2.19, 5.82)	7.34
21	Wu	2012	China	Gallstone	GBC		33.36 (19.67, 56.58)) 7.26
24	Nogueira	2014	U.S.	Gallstone	GBC	•	3.13 (2.82, 3.47)	7.83
26	Cha	2015	Korea	Gallstone	GBC	•	21.79 (2.41, 197.01)	3.24
29	Rosato	2016	Italy	Gallstone	GBC -		1.66 (0.78, 3.53)	6.73
30	Tamrakar	2016	Nepal	Gallstone	GBC	\rightarrow	46.40 (6.92, 311.11)	3.80
Over	all (I-square	ed = 93	8.6%, p = 0.000)			\diamond	7.26 (4.33, 12.18)	100.0
Note	e: Weights	are f	rom random effect	s analysis				
					.00321 1	1 311		

Volume: 43, Article ID: e2021011

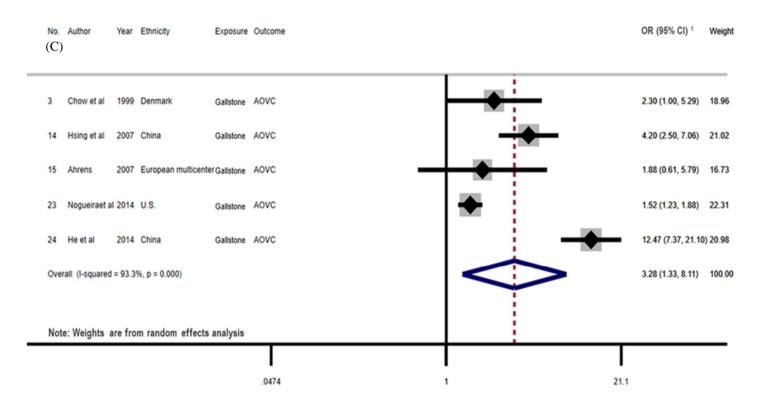
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(B)



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Supplementary Material 1. Forest plot showing the relationship between presence of gallstone and the risk of (A) GBC, (B) EBDC, and (C) AVOC. ¹OR (95% CI) refers to the estimate of effects included in a random effects model. ²Effect size of Lai et al. [27] was calculated by pooling the results of DM group and non-DM group. ³ Effect size of Lowenfels et al. [29] was calculated by pooling the results of indian and non-indian. ⁴Pooled the risk estimates of cholecystolithiasis and choledocholithiasis group. ⁵Pooled the risk estimates of CCA and EBDC group. The numbers are arranged in the order of Table1. OR, odds ratio; CI, confidence interval; GBC, gallbladder cancer; BTC, biliary tract cancer; EBDC, extrahepatic bile duct cancer; AOVC, ampulla of Vater cancer.