

Supplementary webappendix

This webappendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

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This online publication has been corrected. The corrected version first appeared at thelancet.com/infection on July 3, 2014

Neonatal possible severe bacterial infection (pSBI) estimates in South Asia, sub-Saharan Africa and Latin America for 2012

WEB APPENDIX

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II Input data for estimation

i) Search strategy and selection criteria

Neonatal terms ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "neonate"[All Fields]) OR ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "newborn"[All Fields])

AND

Infection terms; "Tetanus"[Mesh] OR "tetanus"[All Fields]; OR "Meningitis" [Mesh] OR "meningitis"[All Fields]; OR "Sepsis"[Mesh] OR "sepsis"[All Fields]; OR "Pneumonia"[Mesh] OR "pneumonia"[All Fields] OR "infection"[Mesh] OR "infection"[All Fields].

AND

Incidence terms; (rate [All Fields] OR ("epidemiology"[Subheading] OR "epidemiology"[All Fields] OR "incidence"[All Fields] OR "incidence"[MeSH Terms]))

AND

Community terms; population-based[All Fields] OR ("residence characteristics"[MeSH Terms] OR ("residence"[All Fields] AND "characteristics"[All Fields]) OR "residence characteristics"[All Fields] OR "community"[All Fields])

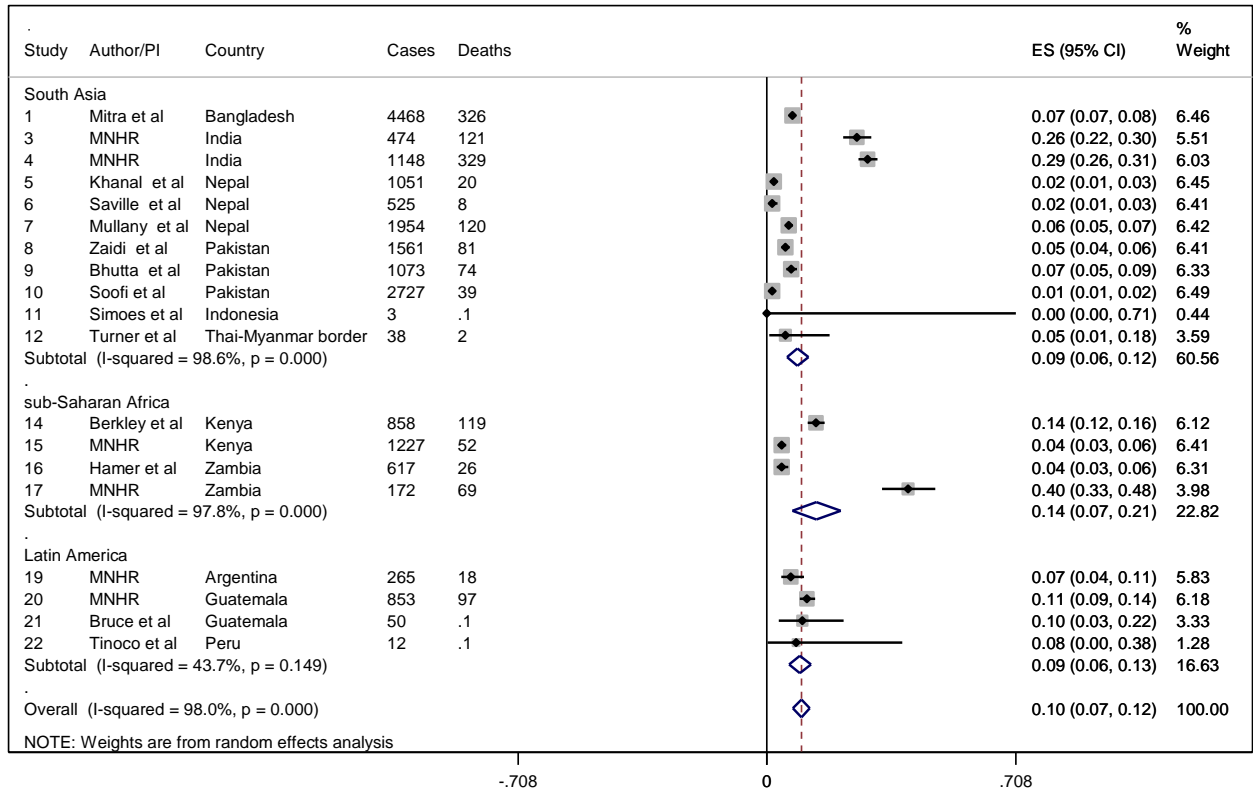
ii) Signs and symptoms used for diagnoses

Study	Country	Feeding difficulty	Lethargy/dec consc level	Tachypnoea	Fever	Hypothermia	Severe indrawing	Convulsion	Difficulty breathing	Severe diarrhoea /vomiting	Skin/ umbilical infection	Weak cry	Grunting	capillary refill > 2 secs	Nasal flaring	cough	sore throat	rhinorrhoea	Glucose imbalance	Abdo distension	Bilious aspirates	Blood in stool	Jaundice
Study no.	YICSS	✓	✓	✓	✓	✓	✓	✓															
1	Bangladesh	✓	✓	✓	✓	✓	✓	✓															
2	India	✓	✓	✓			✓	✓		✓			✓		✓								
3	India	✓			✓	✓		✓	✓		✓												
4	India	✓			✓	✓		✓	✓		✓												
5	Nepal	✓	✓	✓	✓	✓					✓	✓											
6	Nepal	✓	✓	✓	✓	✓	✓				✓	✓	✓										
7	Nepal*	✓	✓	✓	✓	✓	✓	✓															
8	Pakistan	✓	✓		✓	✓	✓	✓					✓	✓									
9	Pakistan	✓	✓	✓	✓	✓	✓	✓															
10	Pakistan	✓	✓	✓	✓	✓	✓	✓															
11	Indonesia		✓	✓	✓	✓	✓																
12	Thai-Myanmar			✓	✓									✓					✓	✓	✓	✓	
13	Ghana	✓	✓	✓	✓	✓	✓	✓															
14	Kenya	✓	✓	✓	✓	✓	✓	✓															
15	Kenya	✓			✓	✓		✓	✓		✓												
16	Zambia	✓	✓		✓	✓		✓	✓		✓												✓
17	Zambia	✓			✓	✓		✓	✓		✓												
18	Zambia	✓	✓	✓	✓	✓	✓	✓															
19	Argentina	✓			✓	✓		✓	✓		✓												
20	Guatemala	✓			✓	✓		✓	✓		✓												
21	Guatemala	✓	✓	✓	✓	✓		✓															
22	Peru				✓											✓	✓	✓					

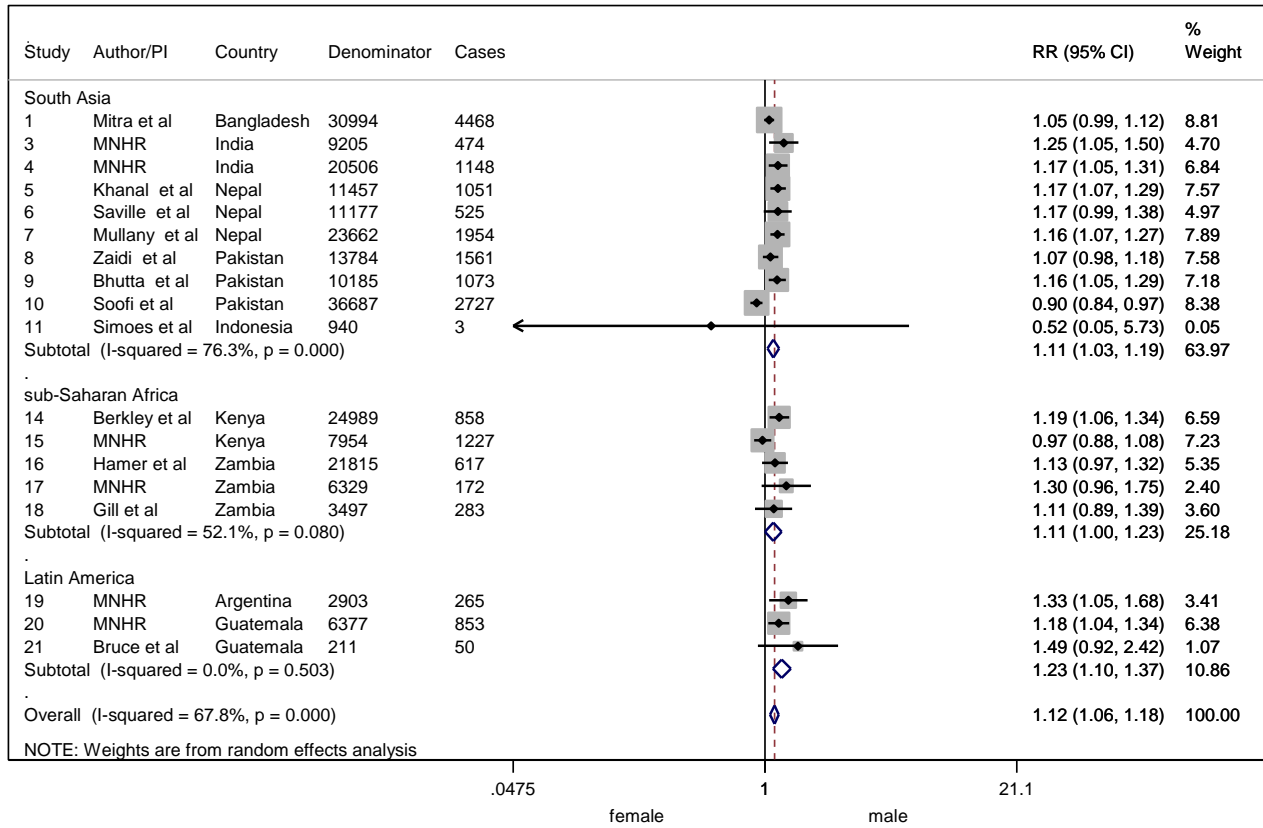
*any two criteria

iii) Pooled estimates

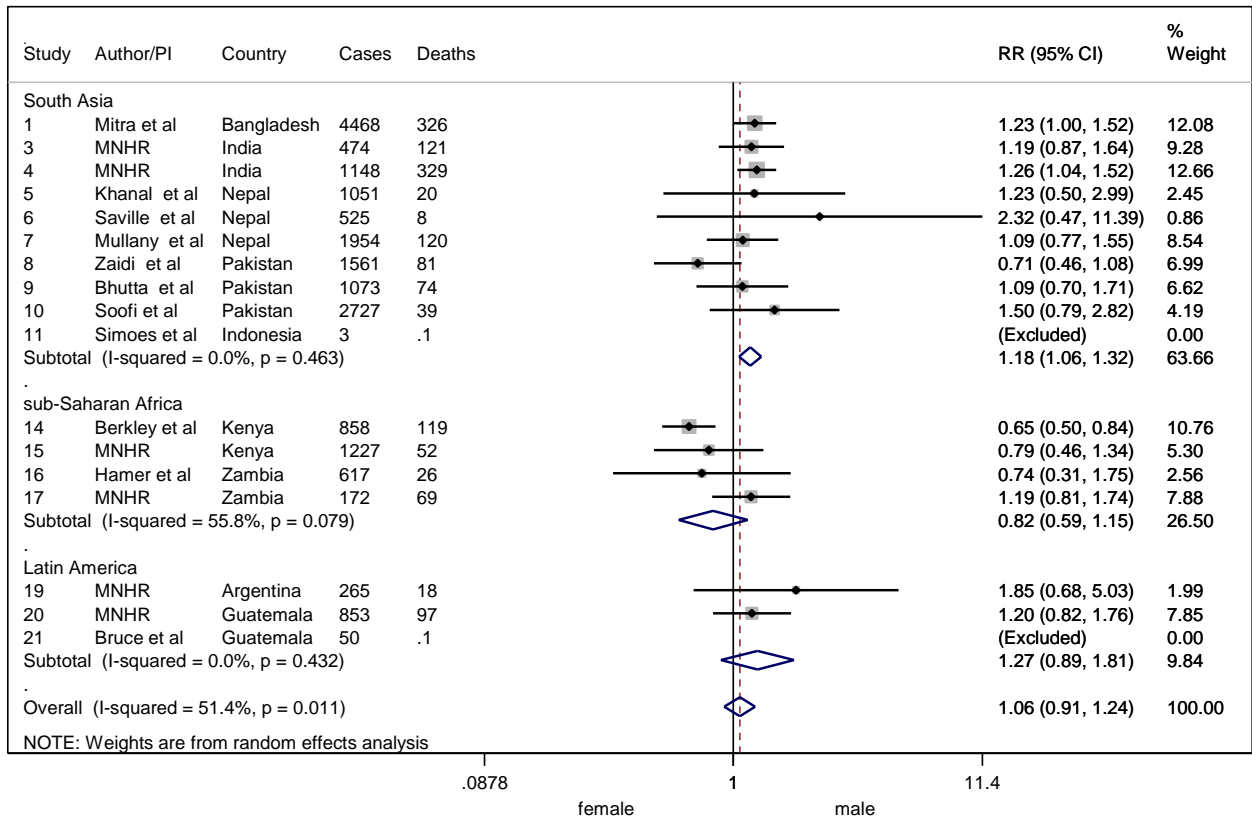
a) Case fatality risk in pSBI cases, by region



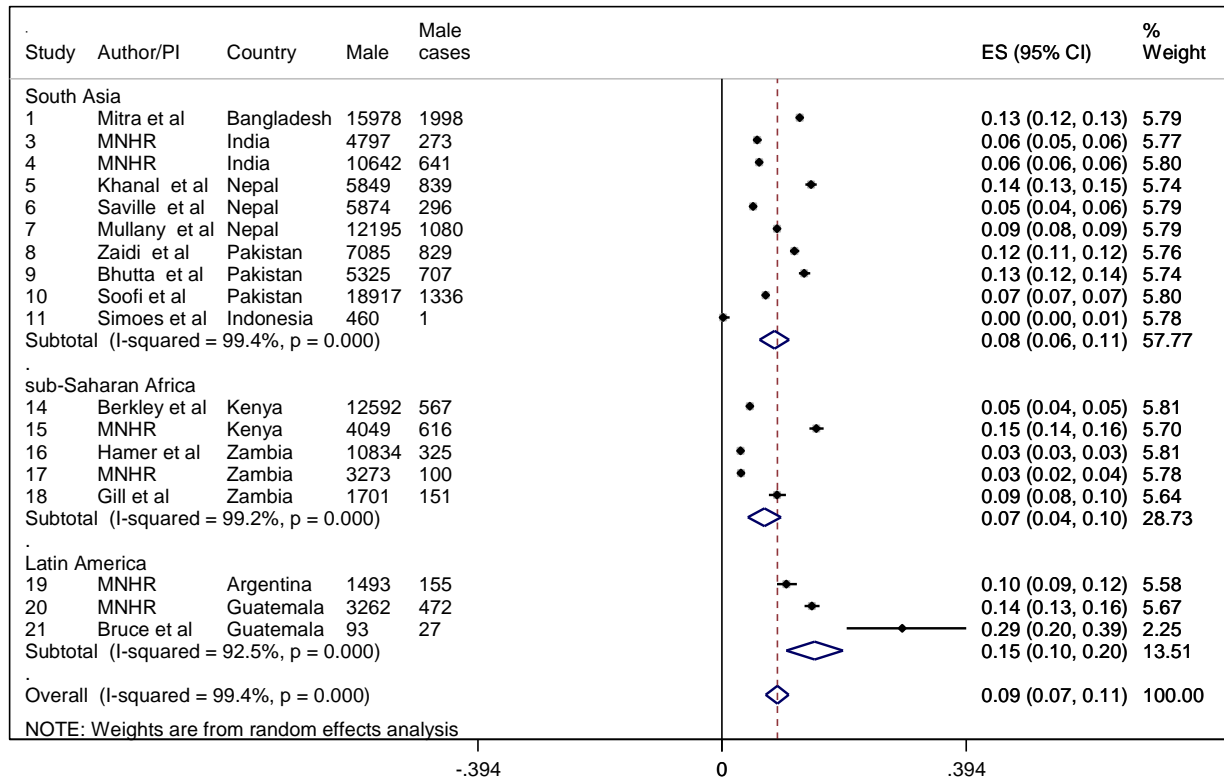
b) Risk ratio of pSBI, comparing males and females, by region



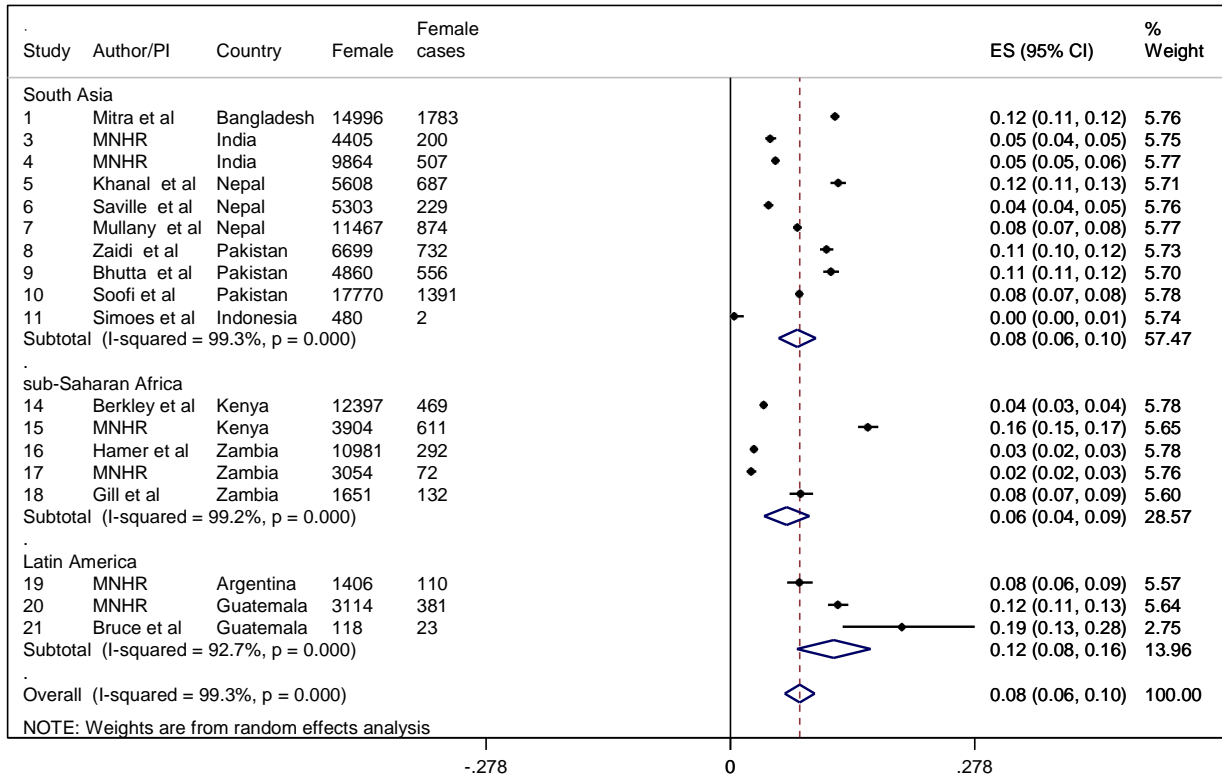
c) Risk ratio of death in pSBI cases, comparing males and females, by region



d) Incidence risk of pSBI in males, by region

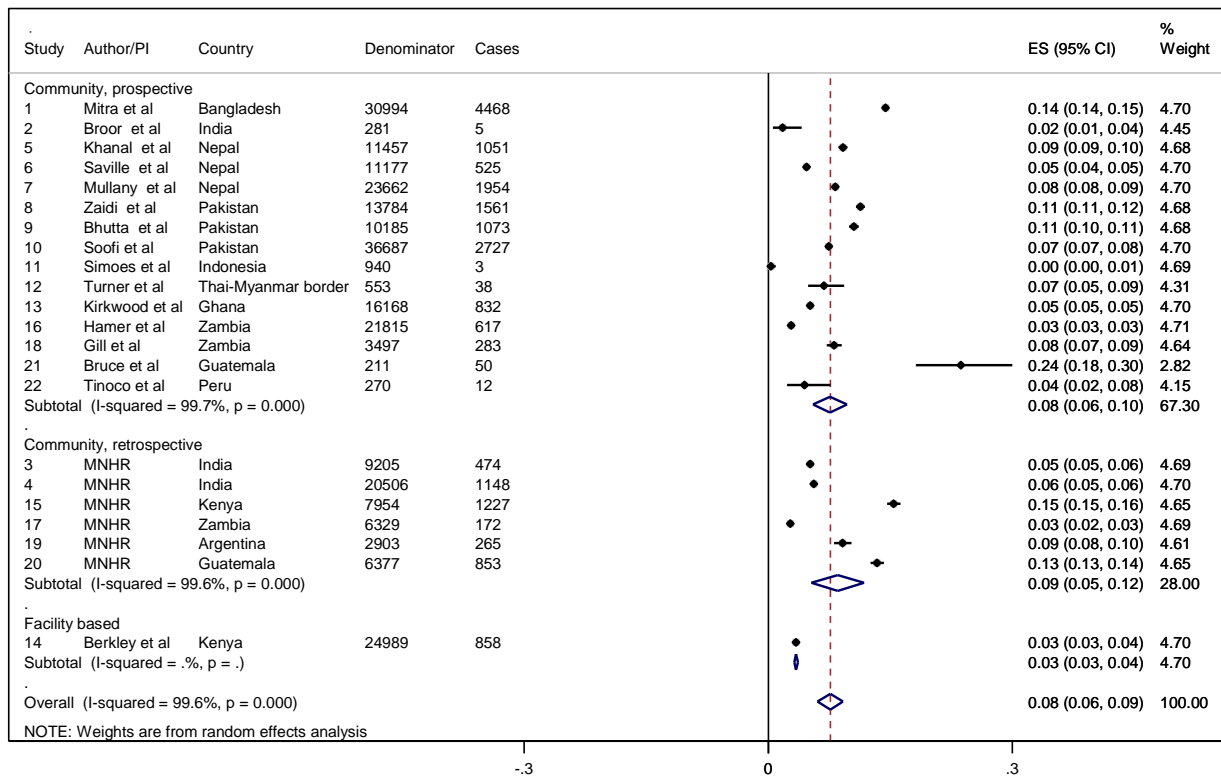


e) Incidence risk of pSBI in females, by region

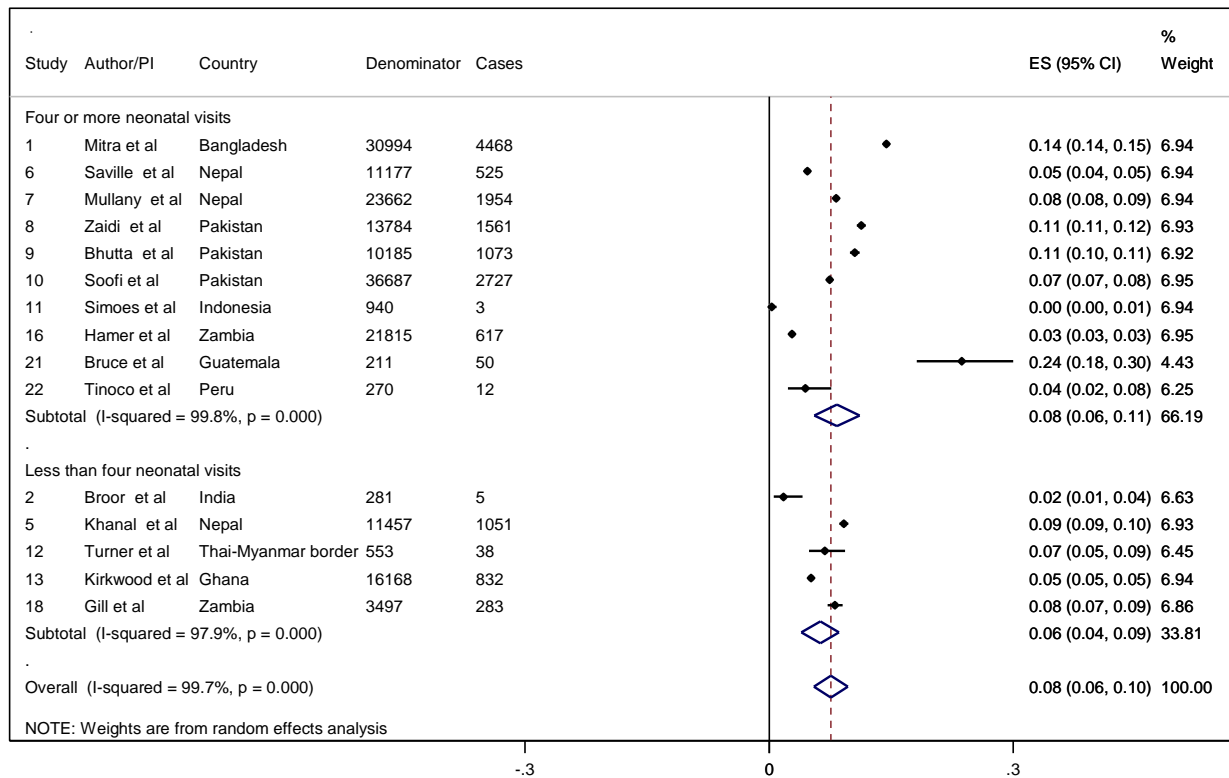


III Sensitivity analyses

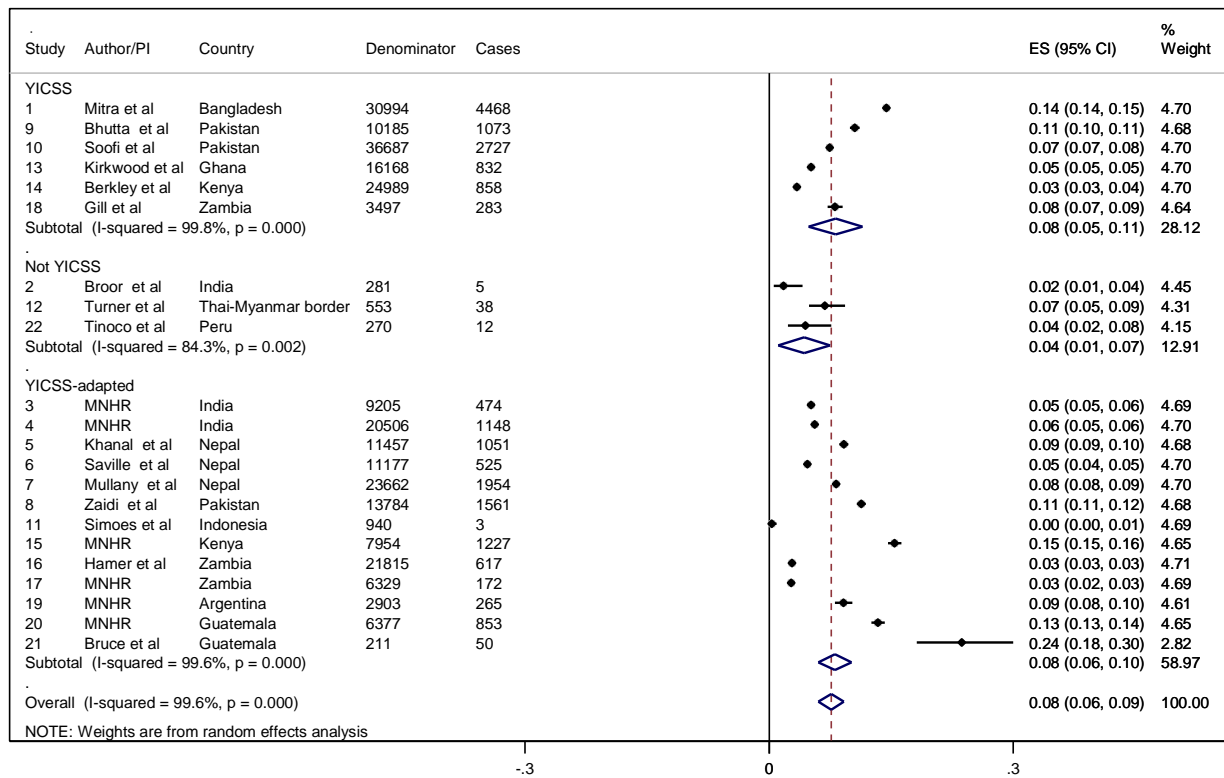
f) Incidence risk of pSBI by method of case ascertainment



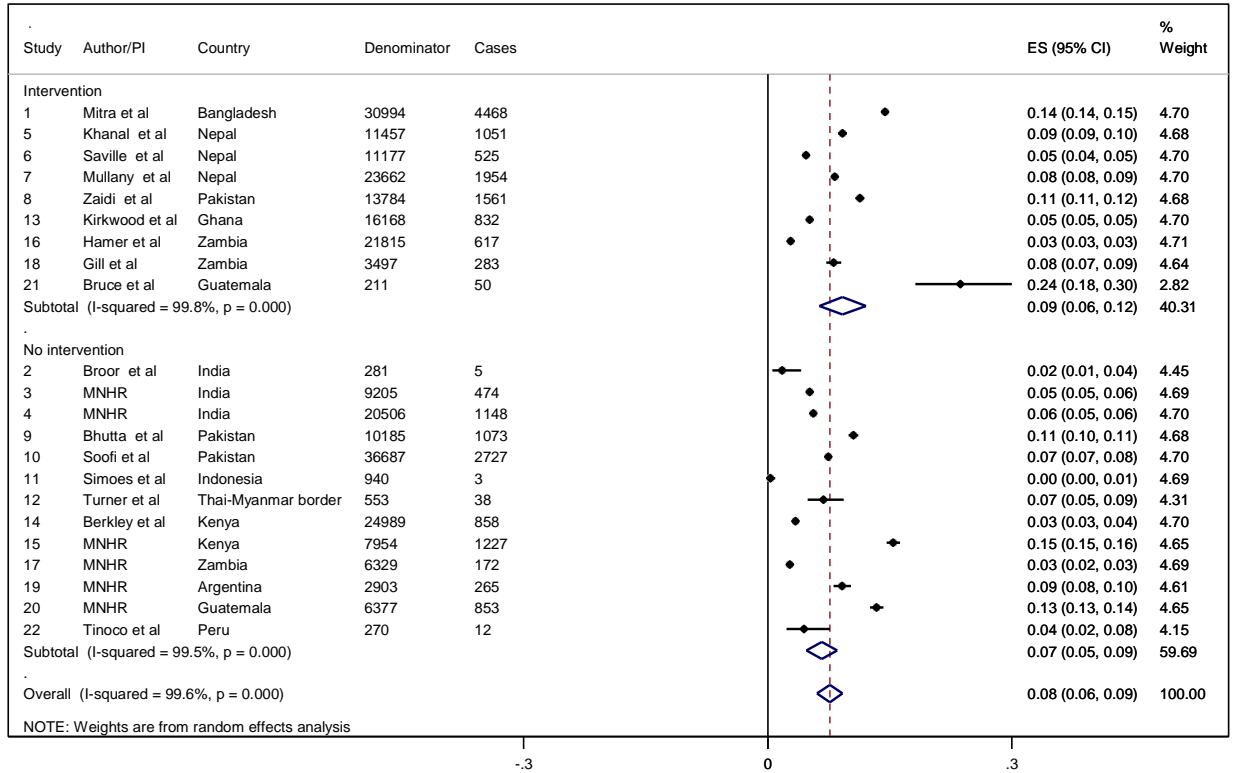
g) Incidence risk of pSBI categorised by number of neonatal visits, in studies with prospective follow up.



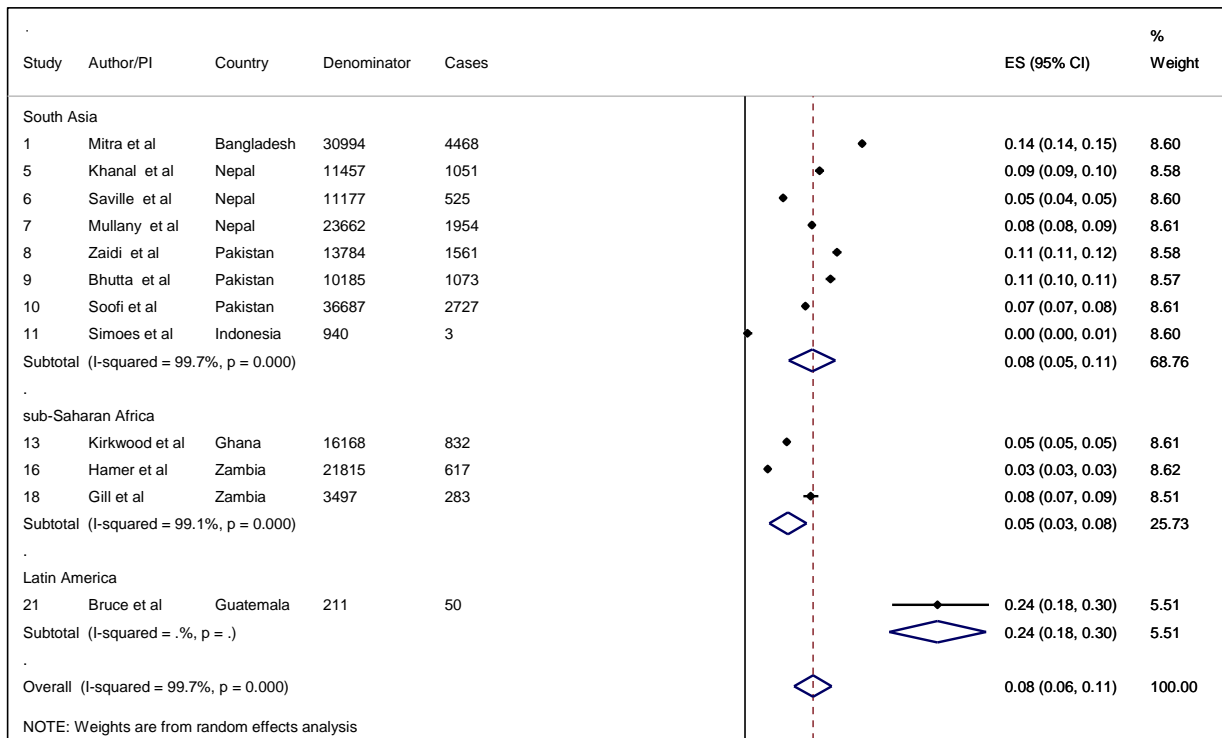
h) Incidence risk of pSBI categorised by algorithm used



i) Incidence risk of pSBI based on study type (intervention or non-intervention)



j) Sensitivity analysis: Incidence risk of pSBI using only studies with prospective community follow up and using YICSS algorithm (exact and modified).



NOTE: Weights are from random effects analysis