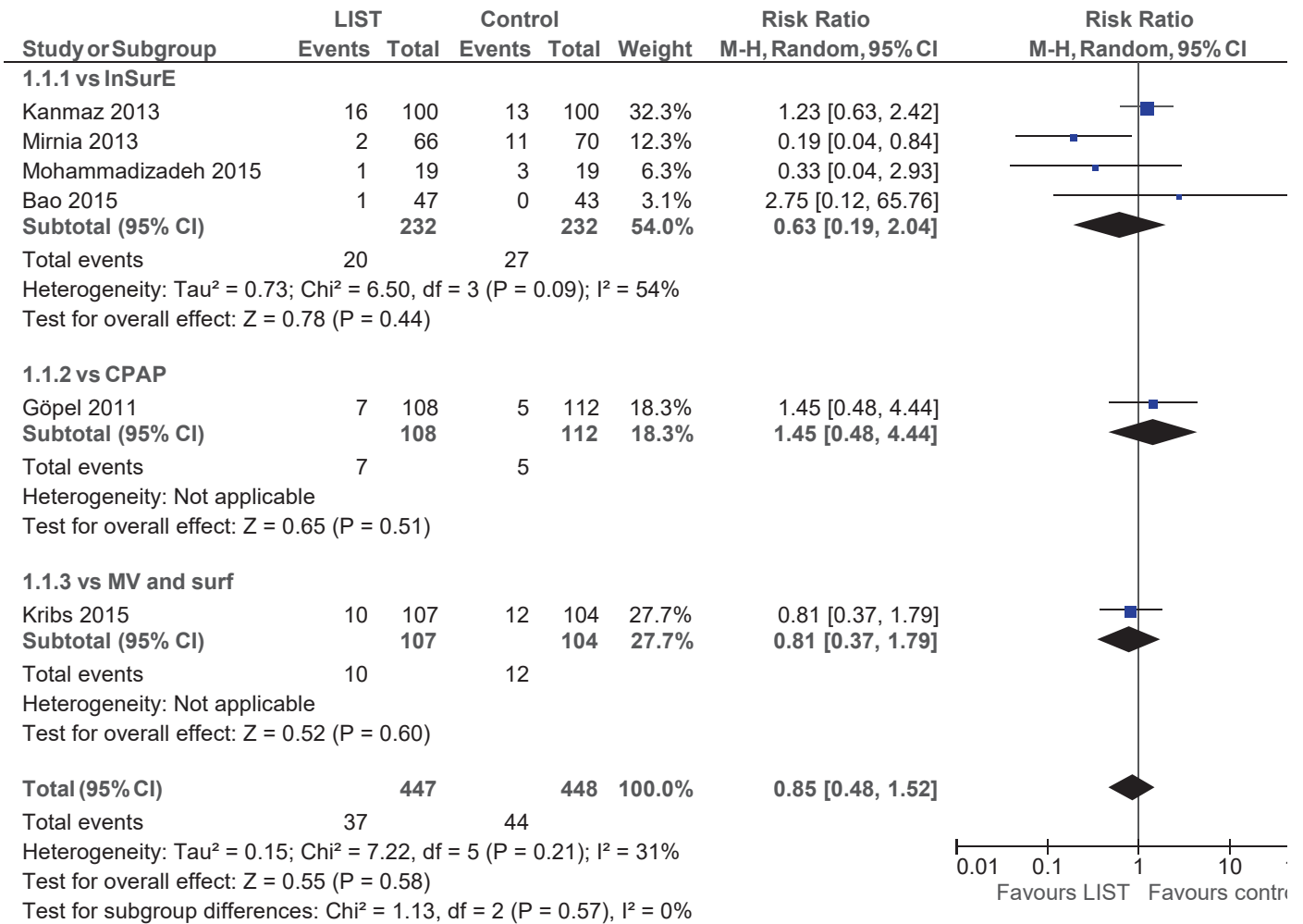


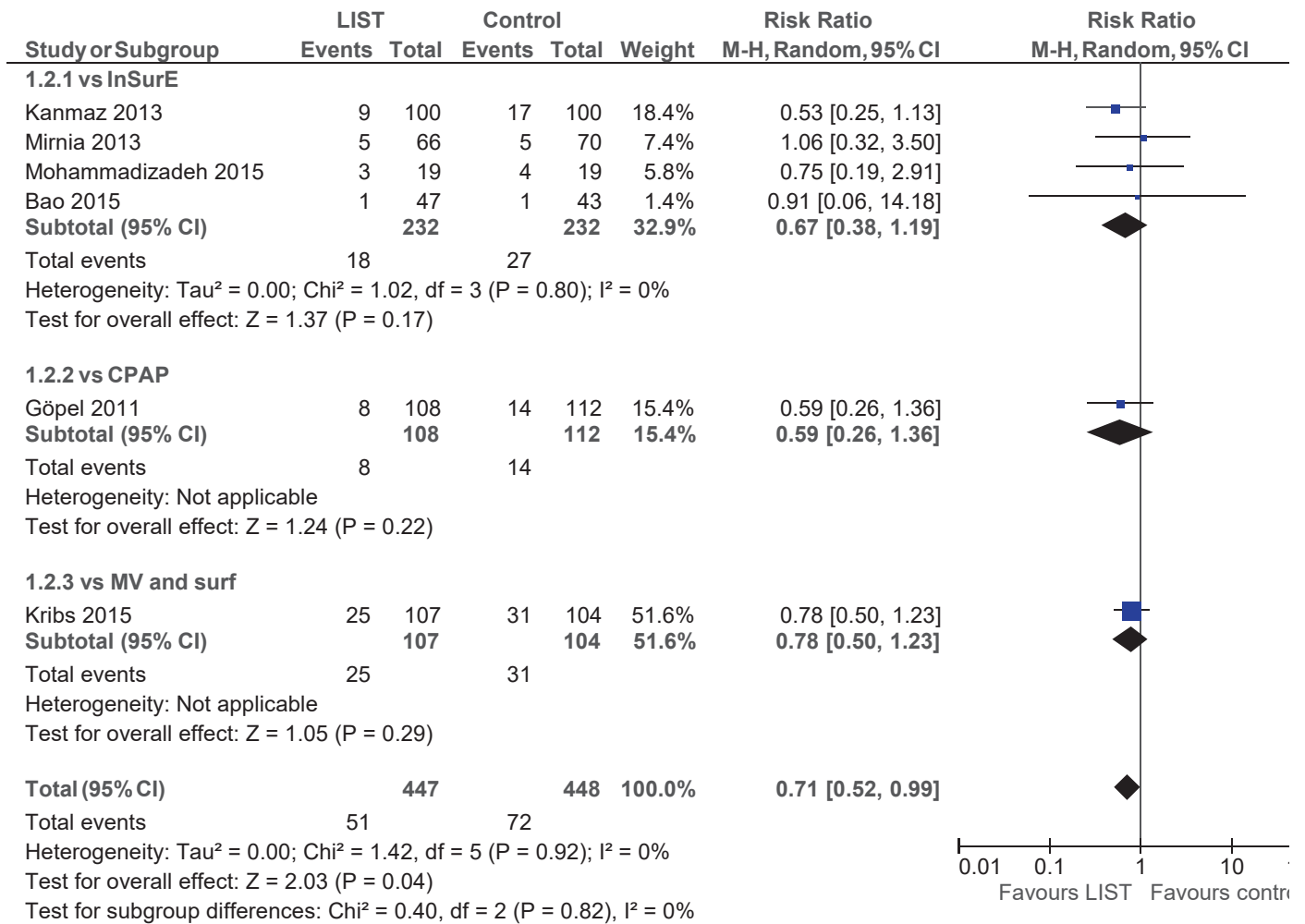
1 Main analysis

1.1 Death

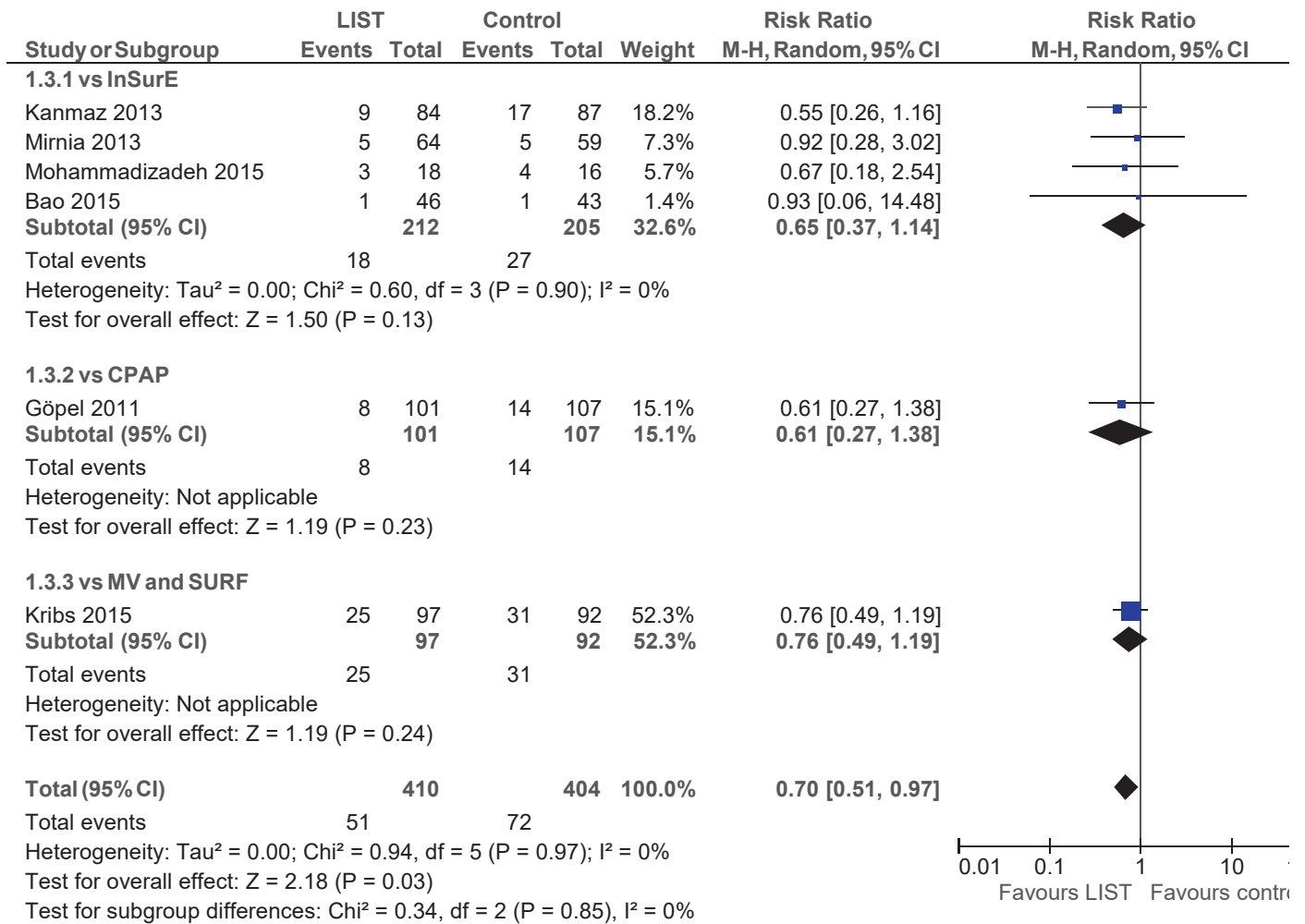


LIST: Less invasive surfactant therapy
 InSurE: Intubation- surfactant- extubation
 MV and surf: mechanical ventilation and surfactant

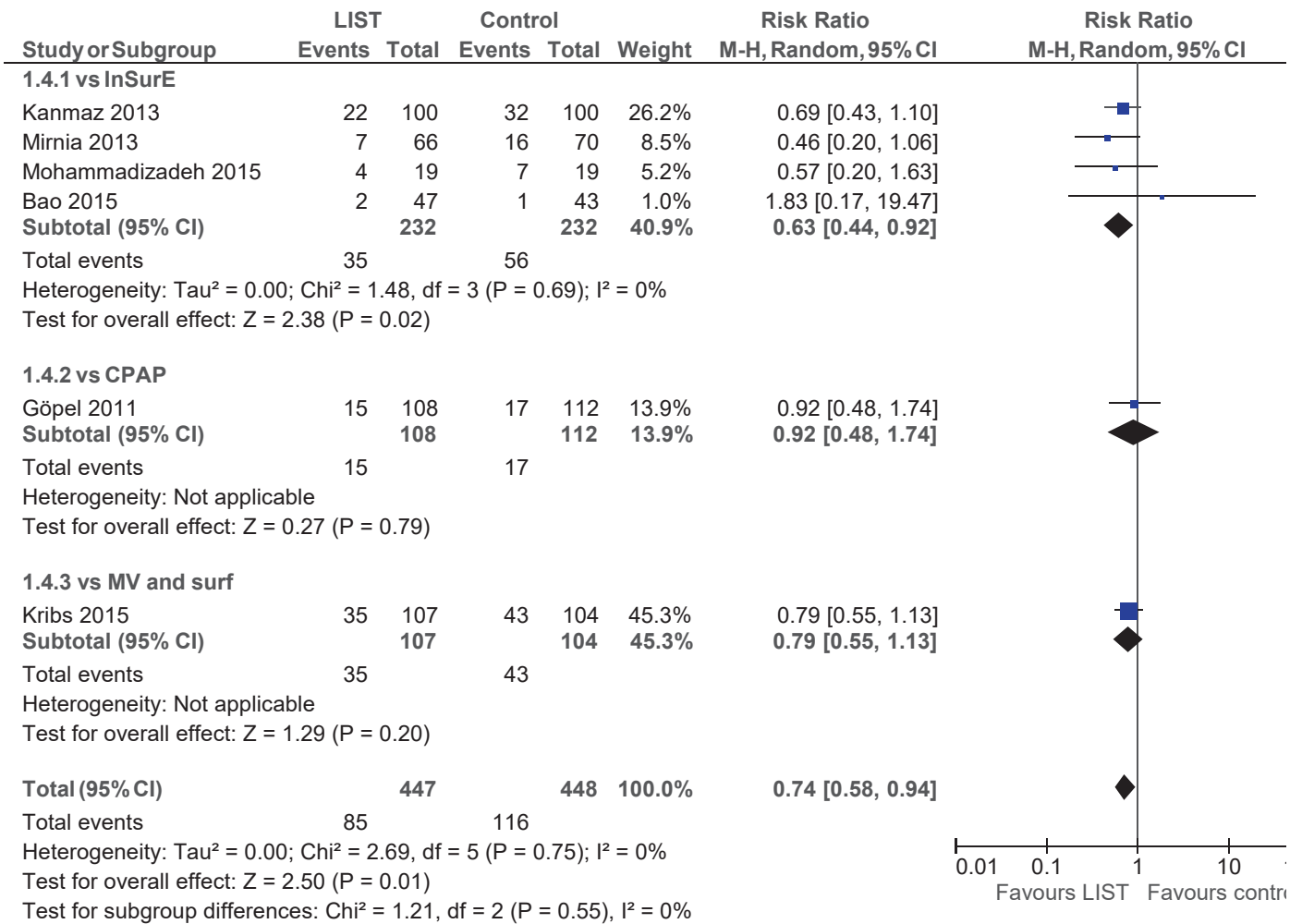
1.2 BPD at 36 weeks, all patients



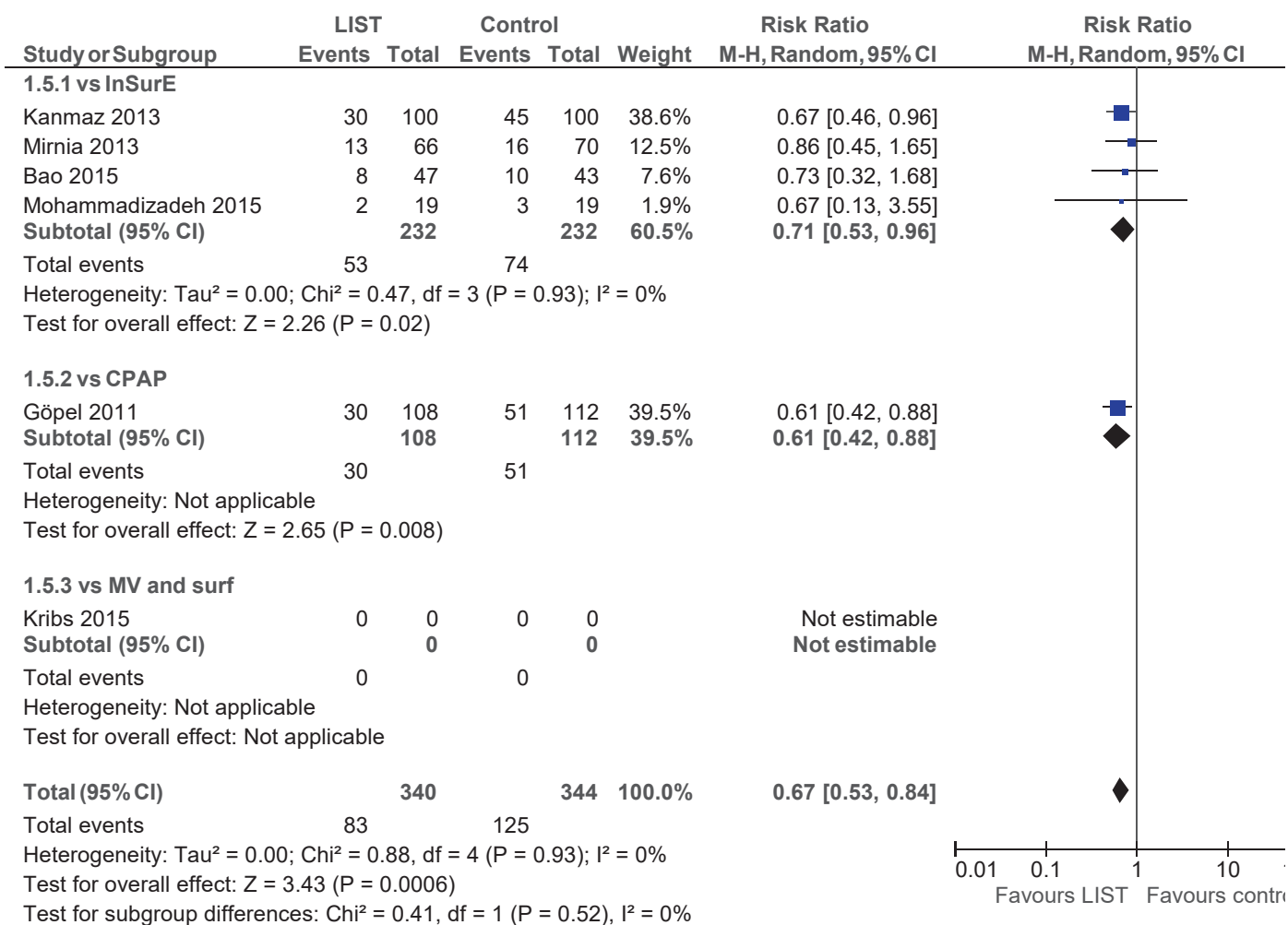
1.3 BPD at 36 weeks, survivors



1.4 Death or BPD

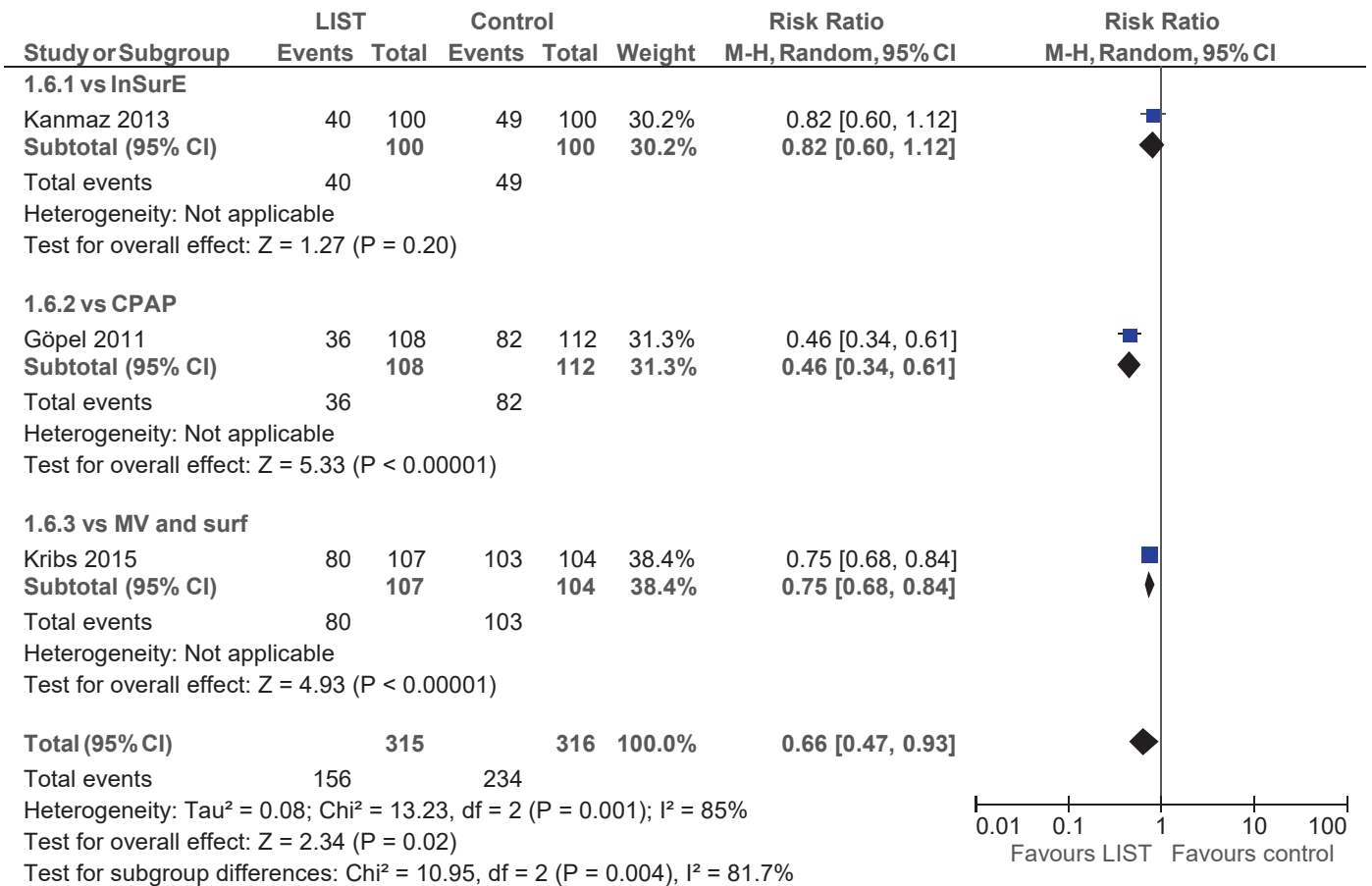


1.5 Early MV (by 72H)



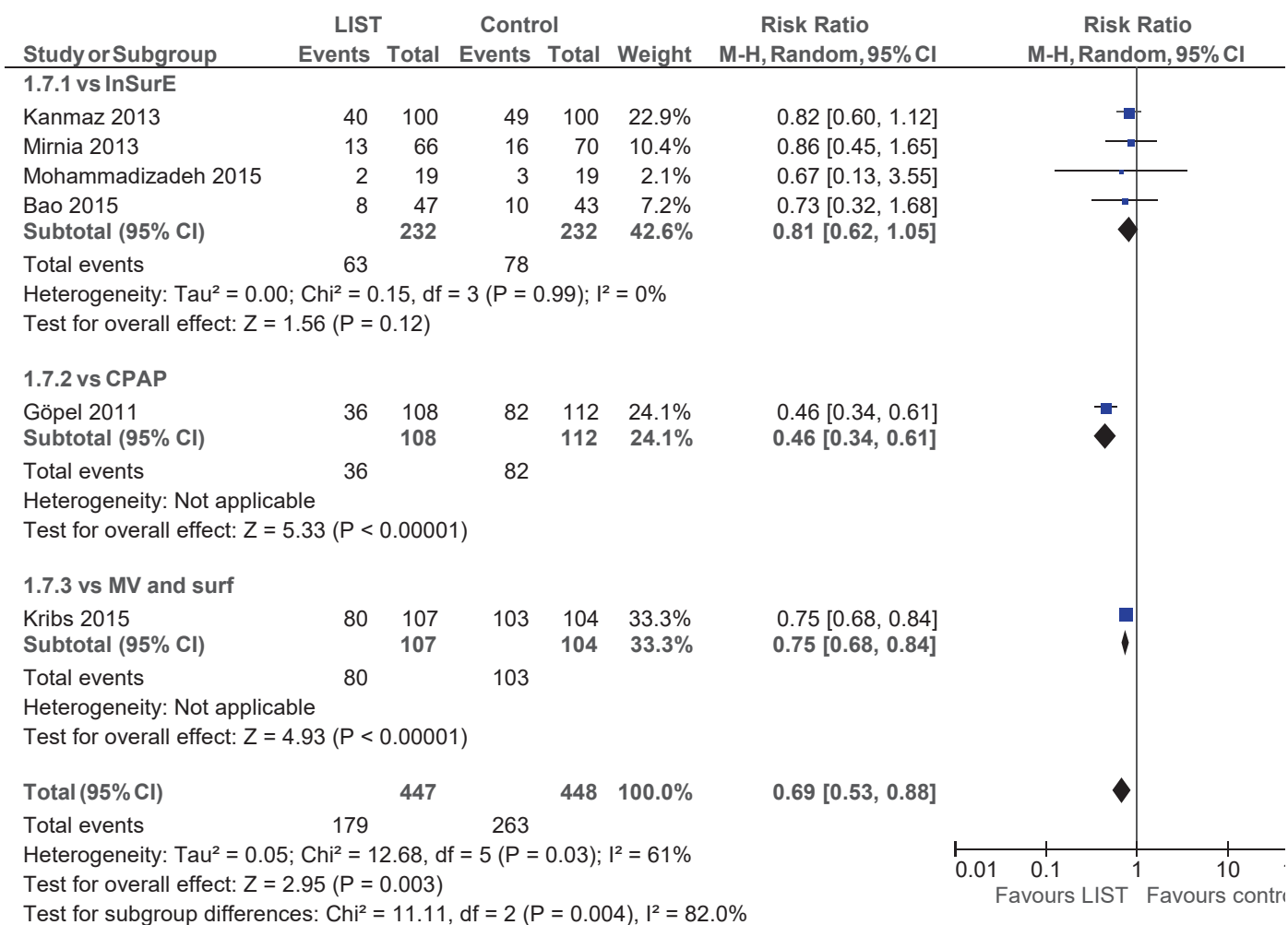
Kribs 2015 not included: early mechanical ventilation mandatory for control group.

1.6 Any MV



Kribs 2015: MV mandatory for control patients. RR 0.61 [0.34, 1.08] if not included

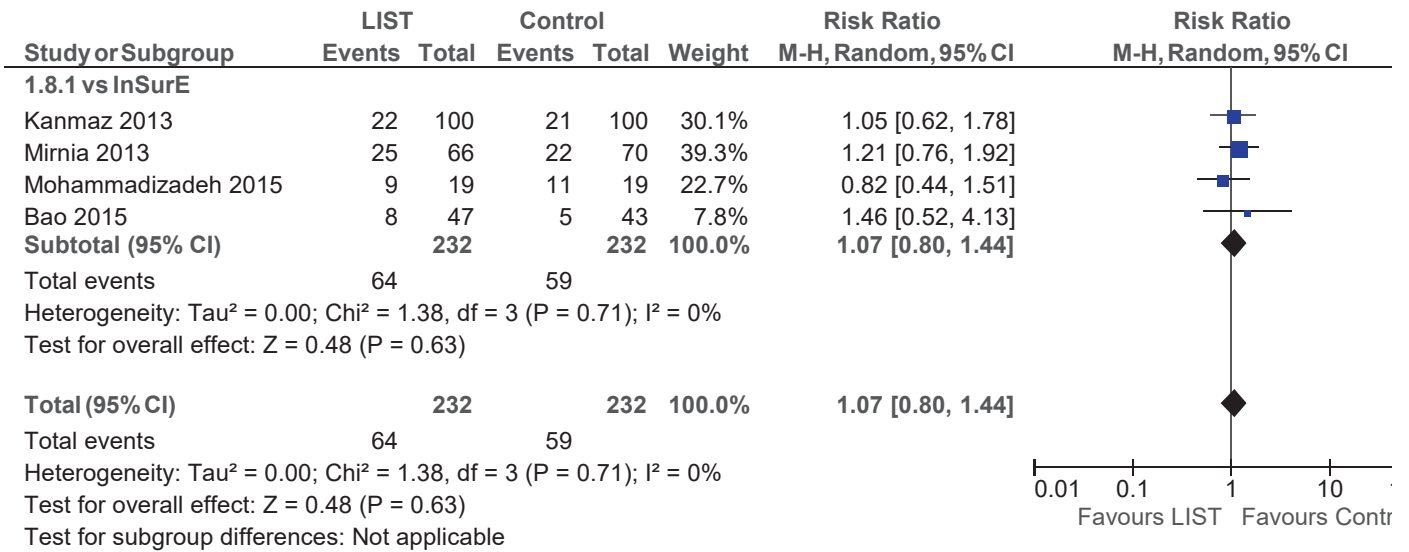
1.7 Any MV reported



Kribs 2015 : MV mandatory in control patients. RR 0.66 [0.47, 0.94] if not included.
 Mirnia 2013, Mohammadzadeh 2015 and Bao 2015 reported mechanical ventilation by day 3 of life only.

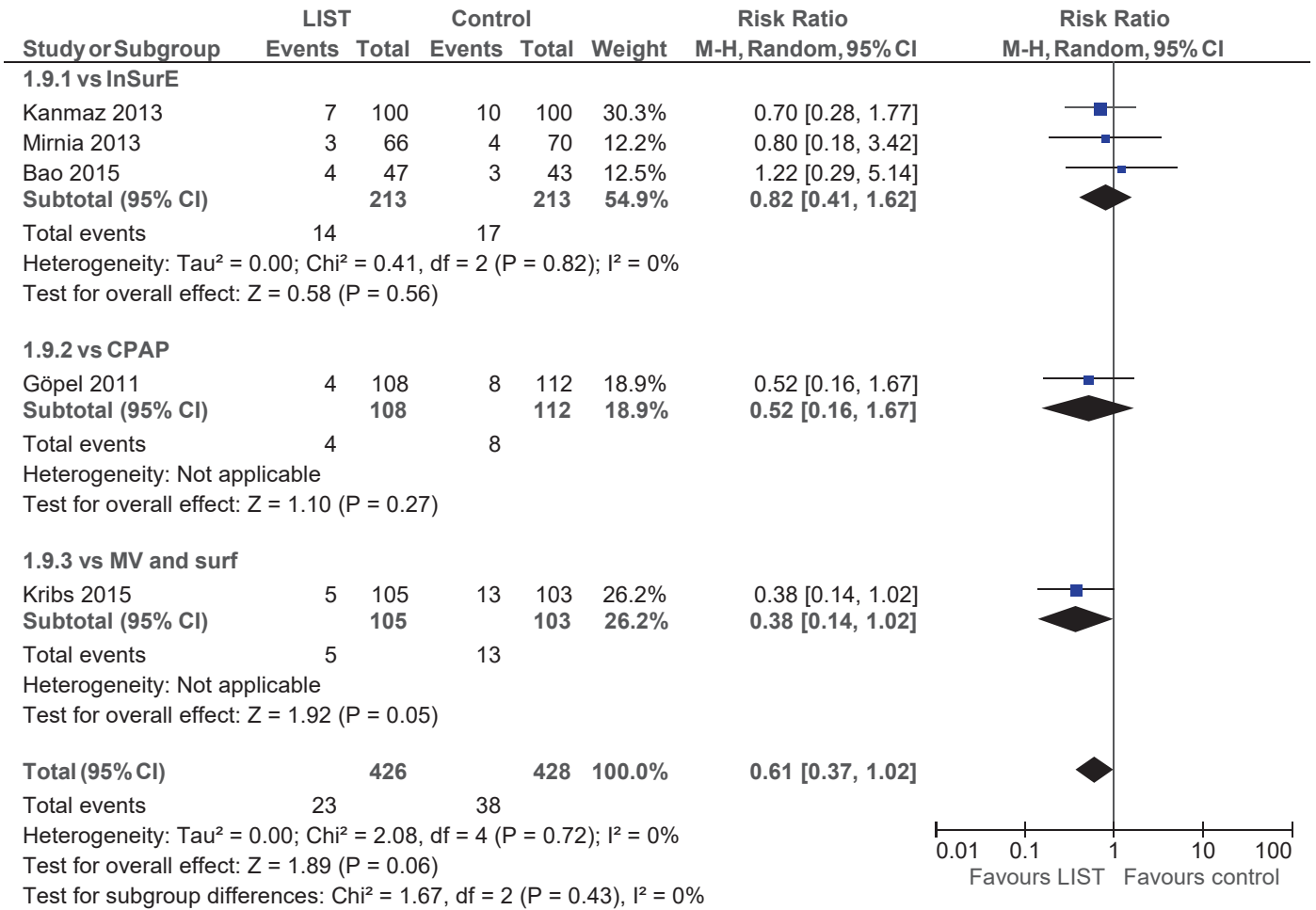
1 Main analysis

1.8 Need for extra surfactant dose

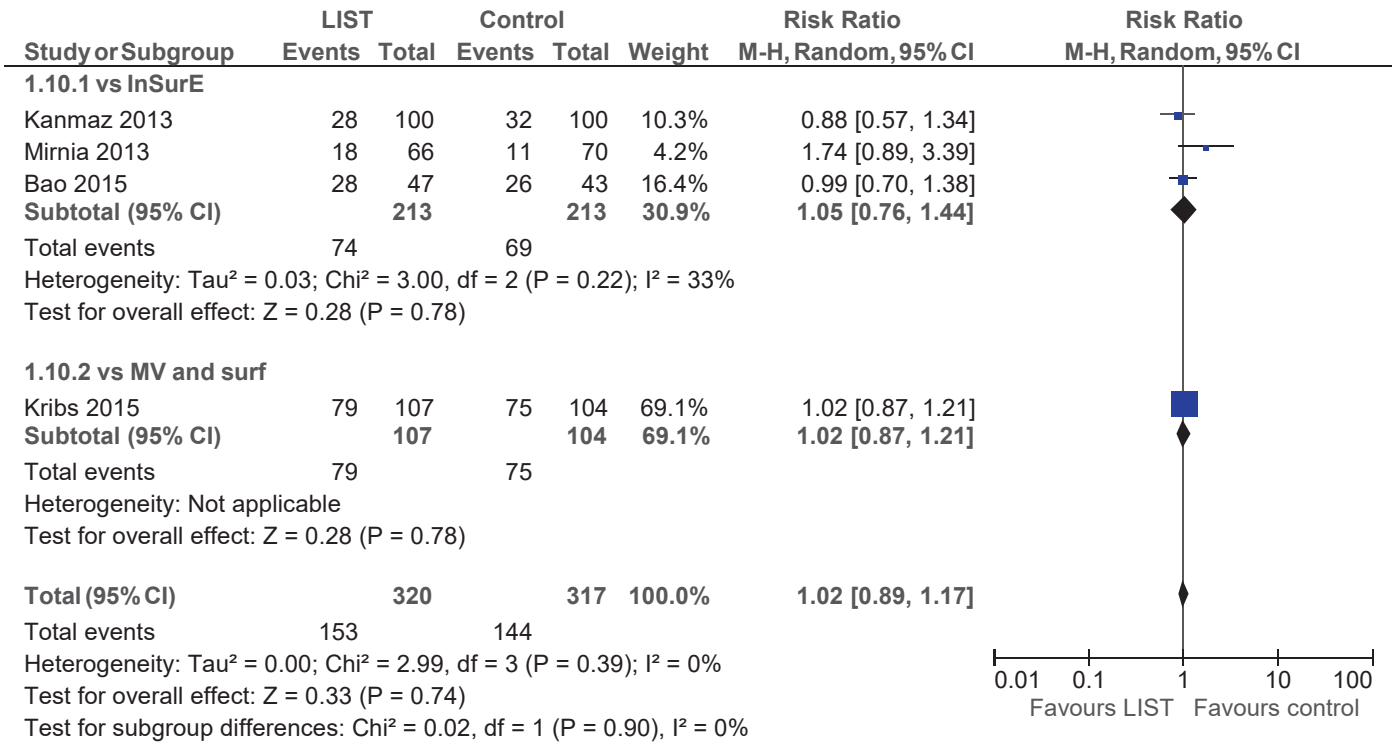


Göpel 2011 and Kribs 2015 reported the median number of surfactant doses per infant, with no difference.

1.9 Pneumothorax

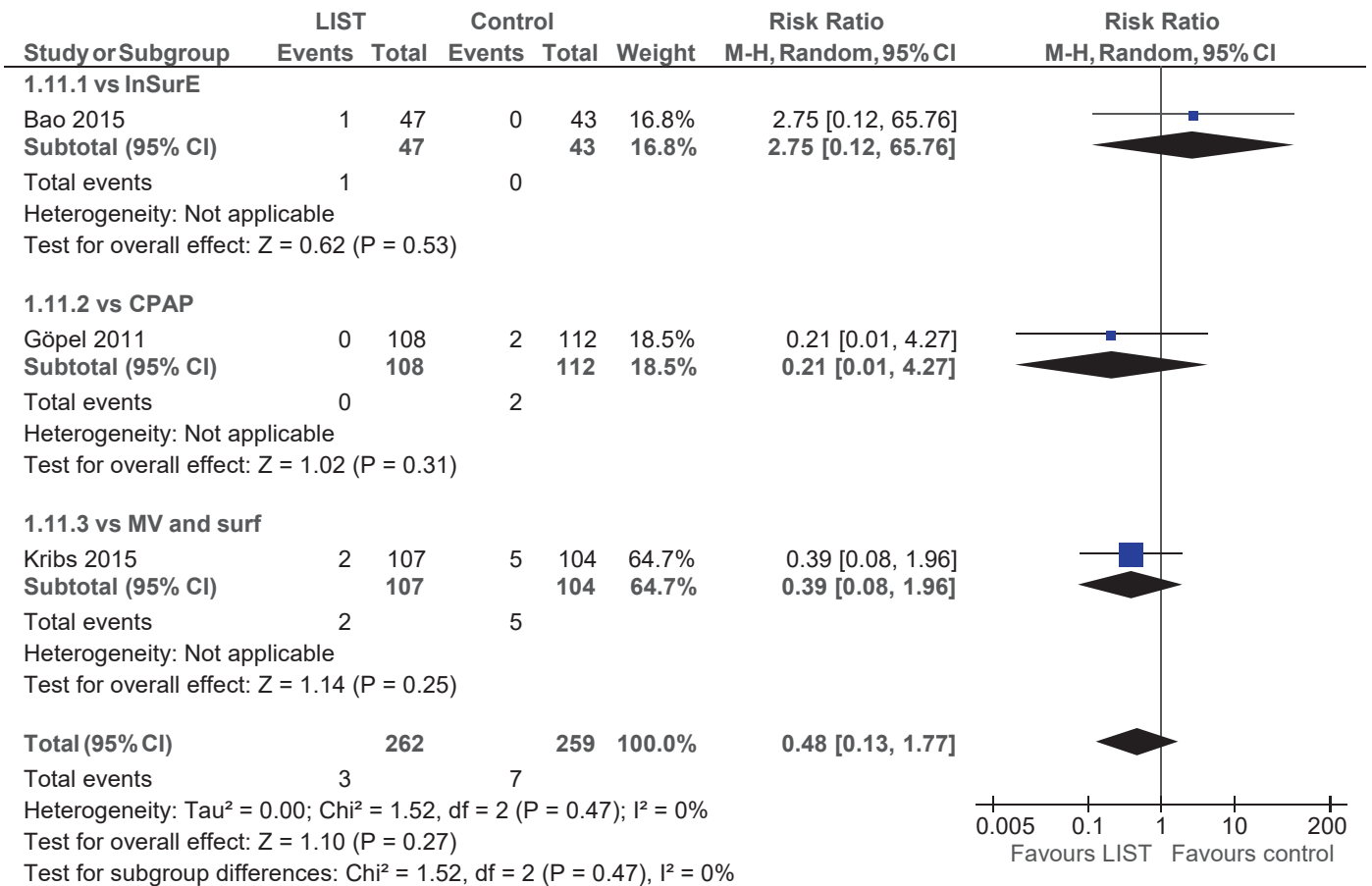


1.10 PDA



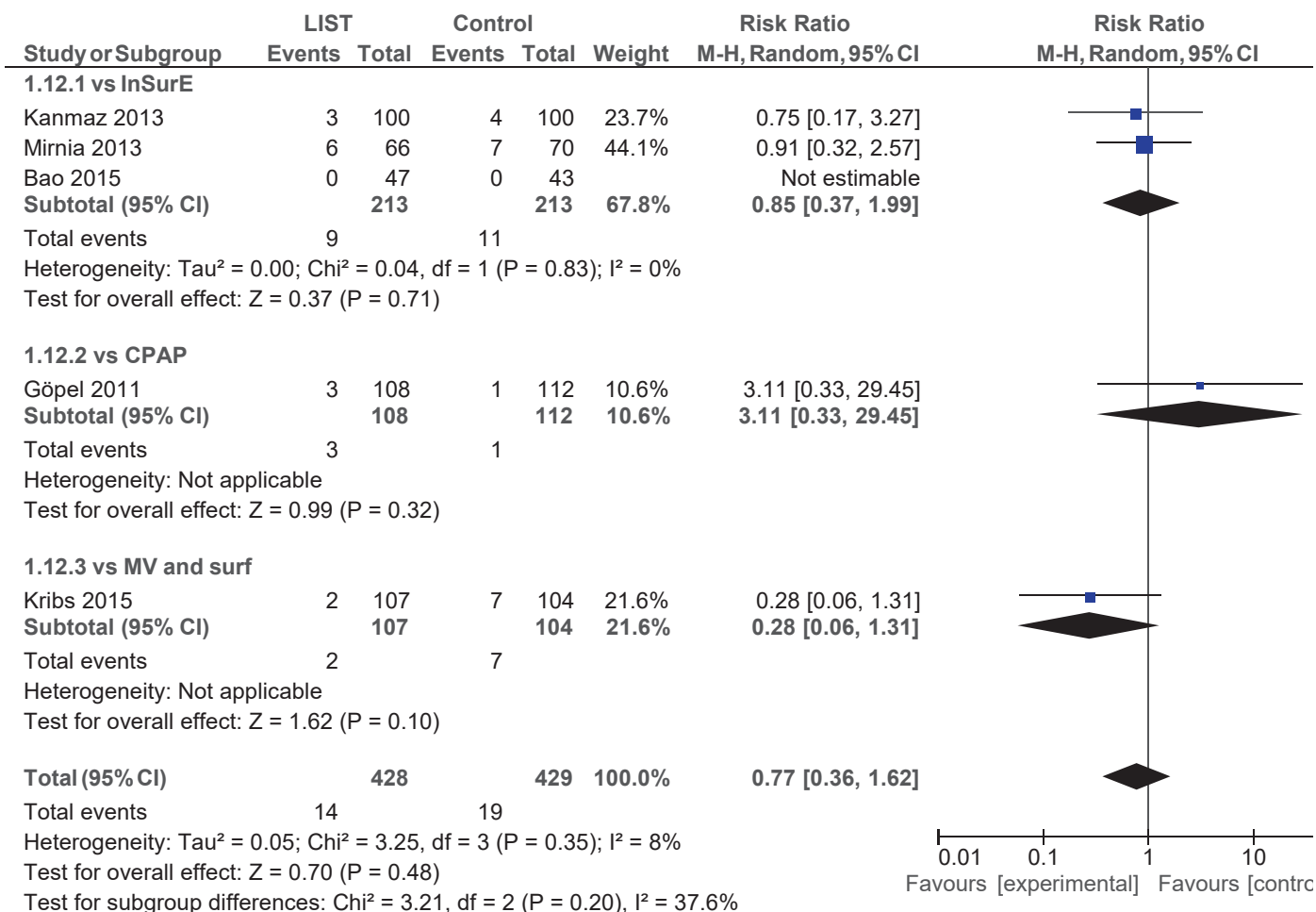
Mirnia 2013: we used data for PDA requiring therapy.

1.11 PDA ligation



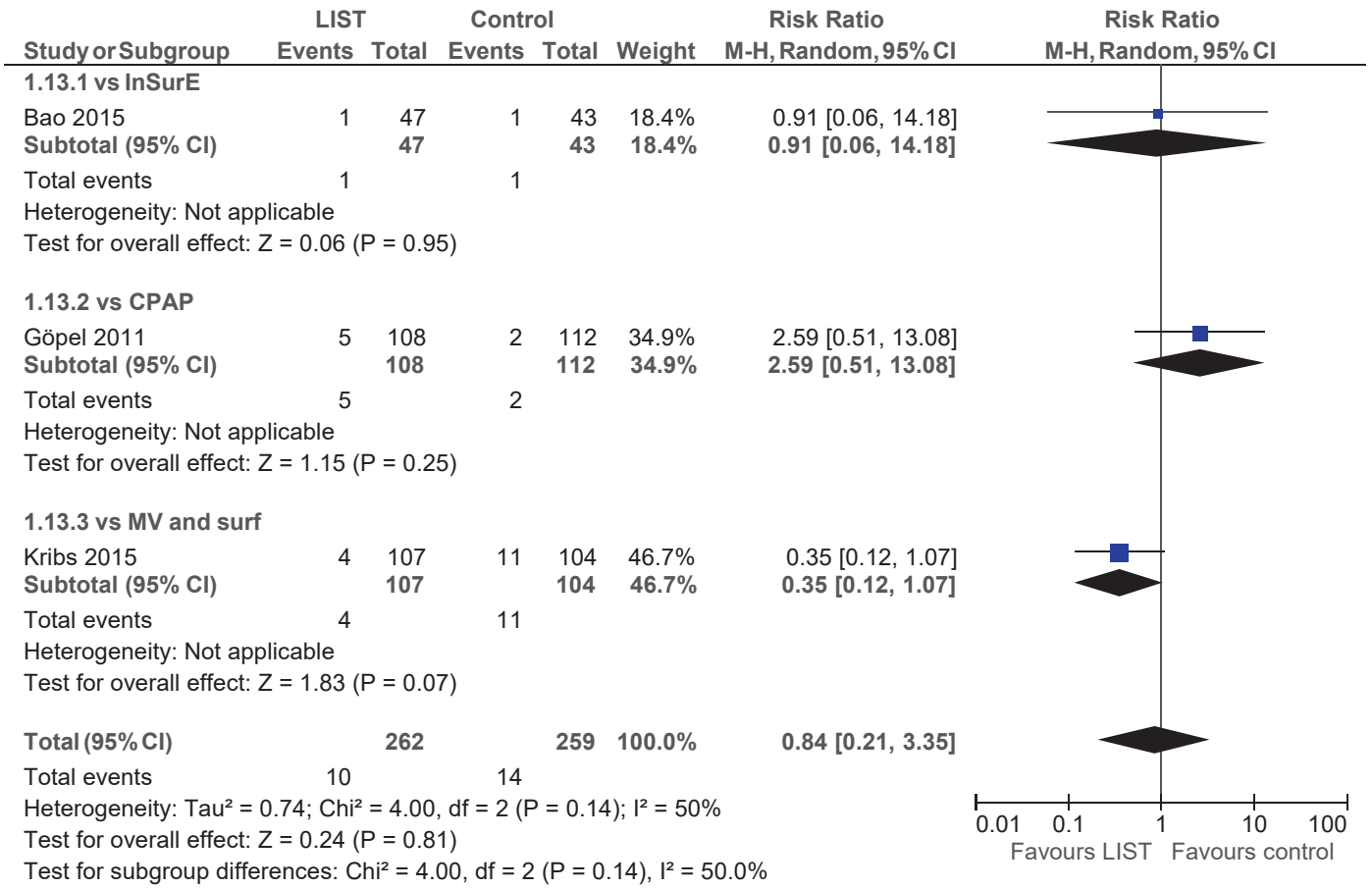
1 Main analysis

1.12 ROP

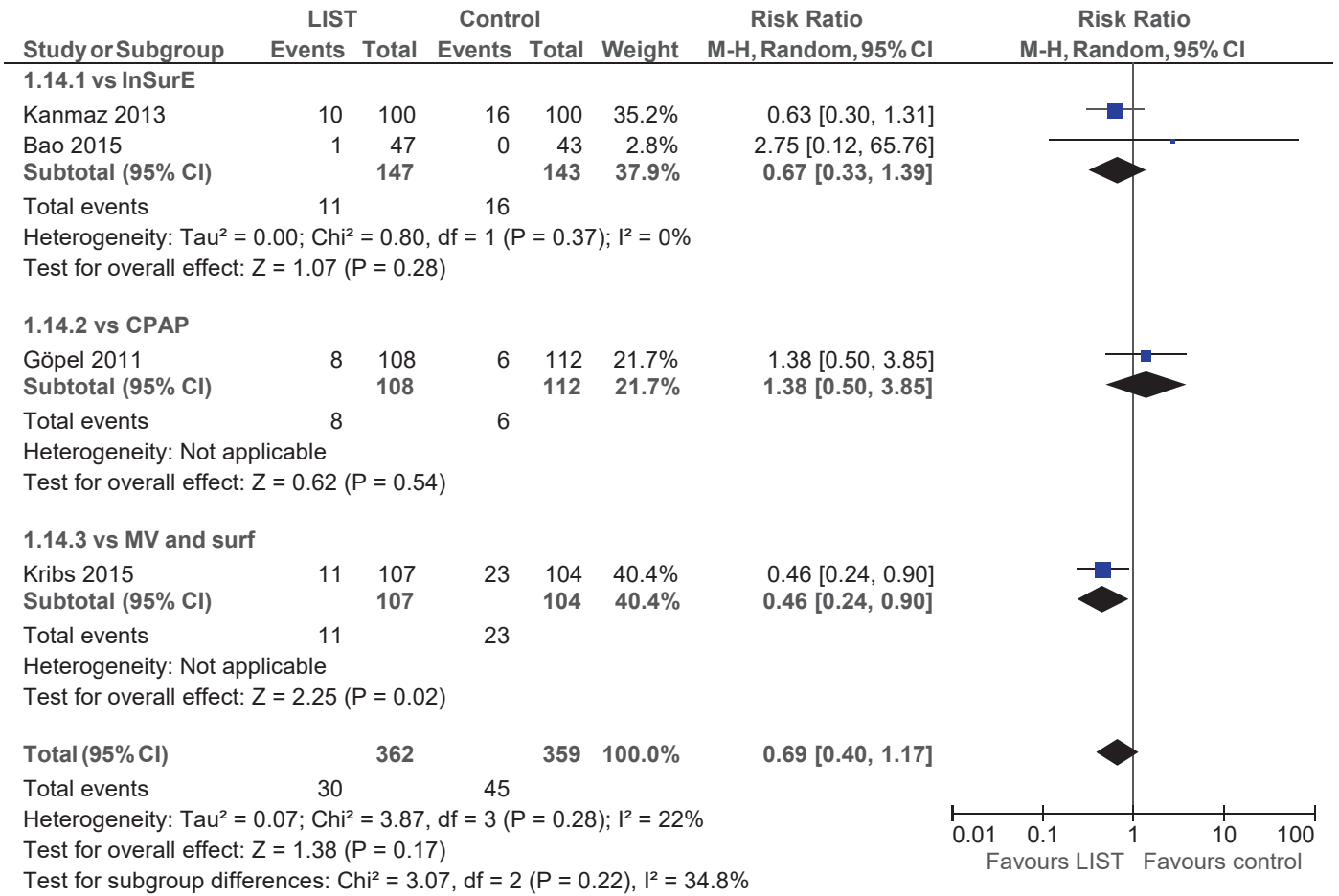


Kanmaz 2013, Mirnia 2013 and Boa 2015 reported on ROP> grade 2.
 Göpel 2011 and Kribs 2015 reported on ROP treated by laser or cryotherapy.
 Mirnia 2013 also reported data for treated ROP (5/66 and 1/70), associated with a total RR of 1.13 [0.31, 4.10]

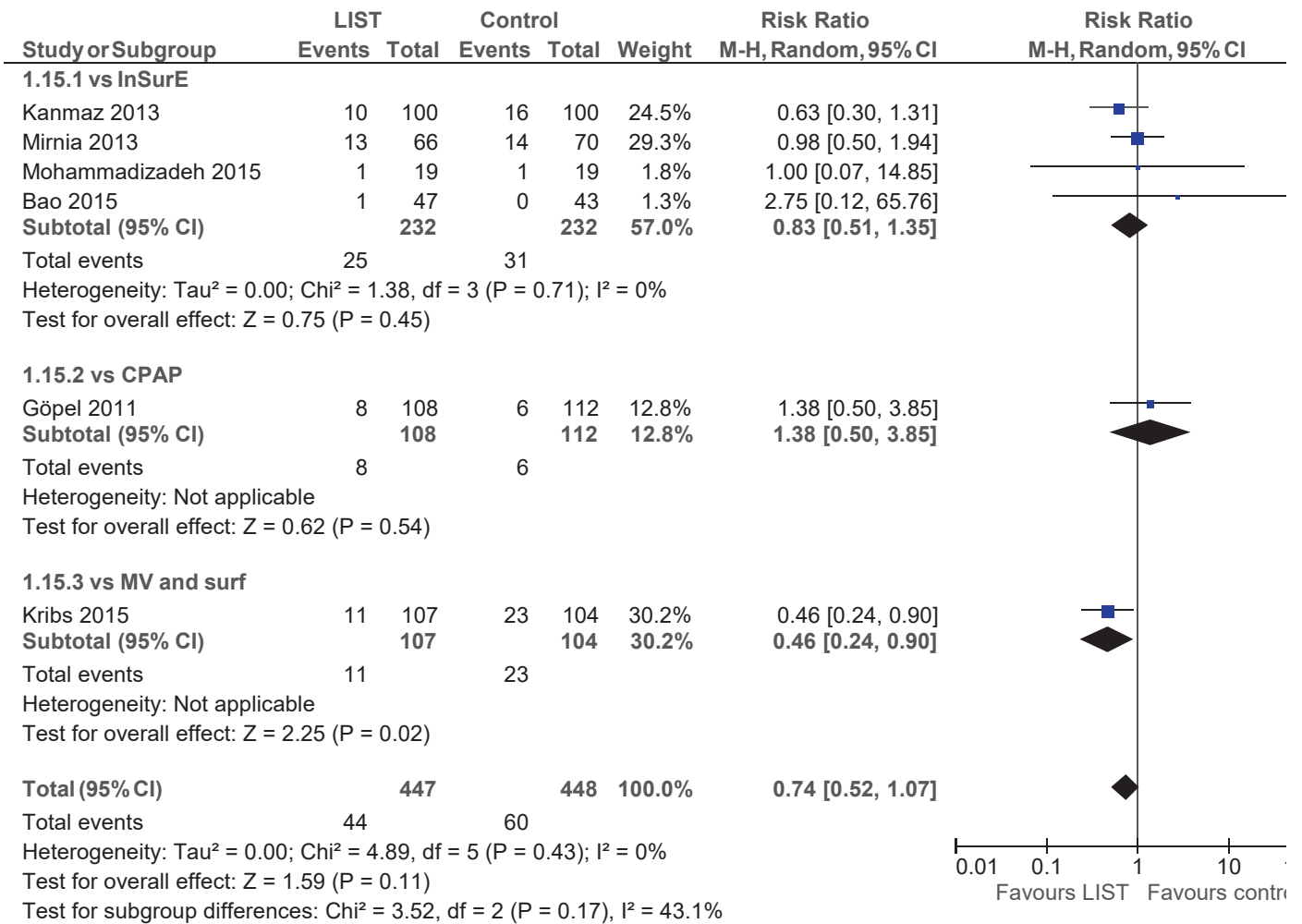
1.13 cPVL



1.14 Severe IVH

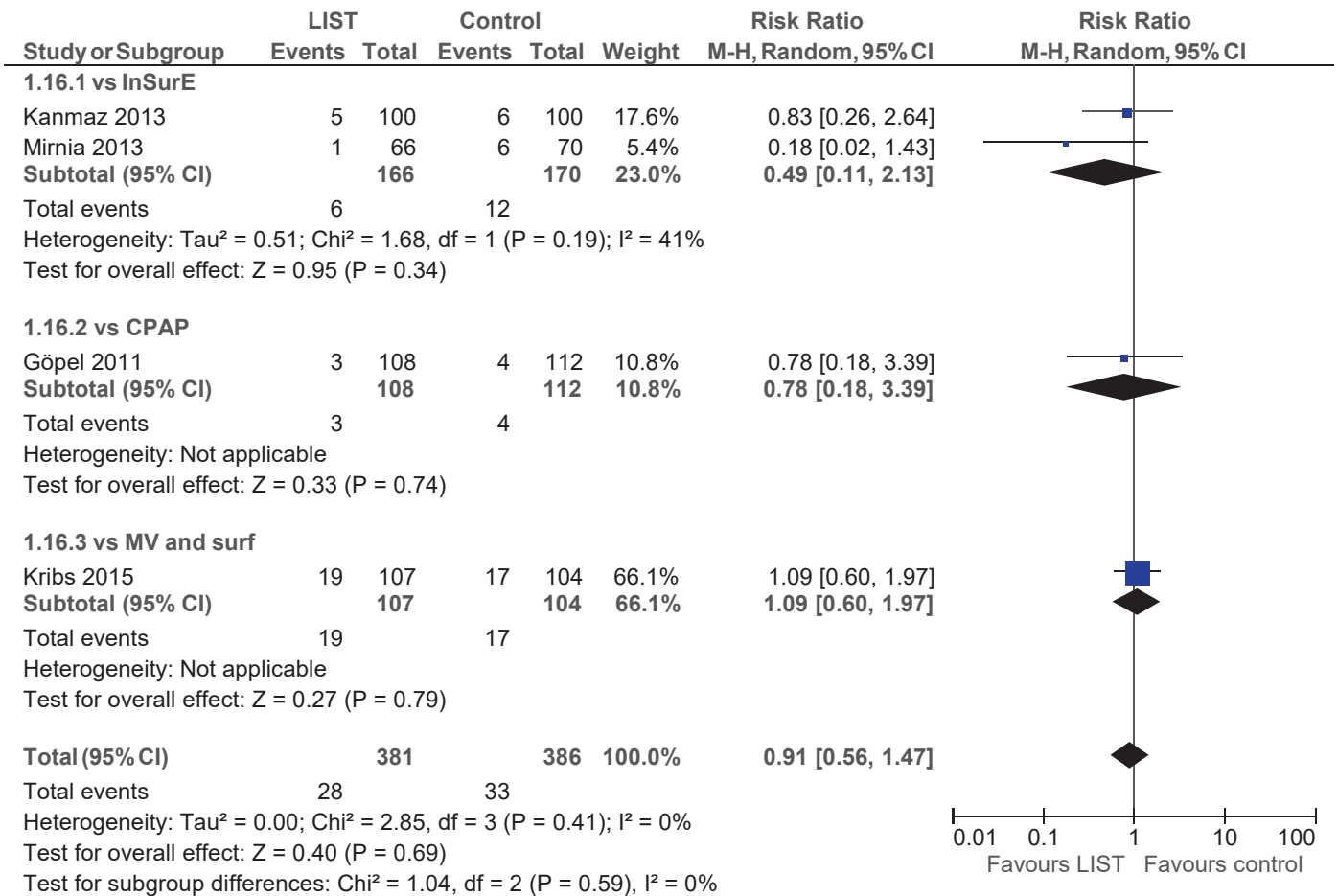


1.15 Any IVH reported



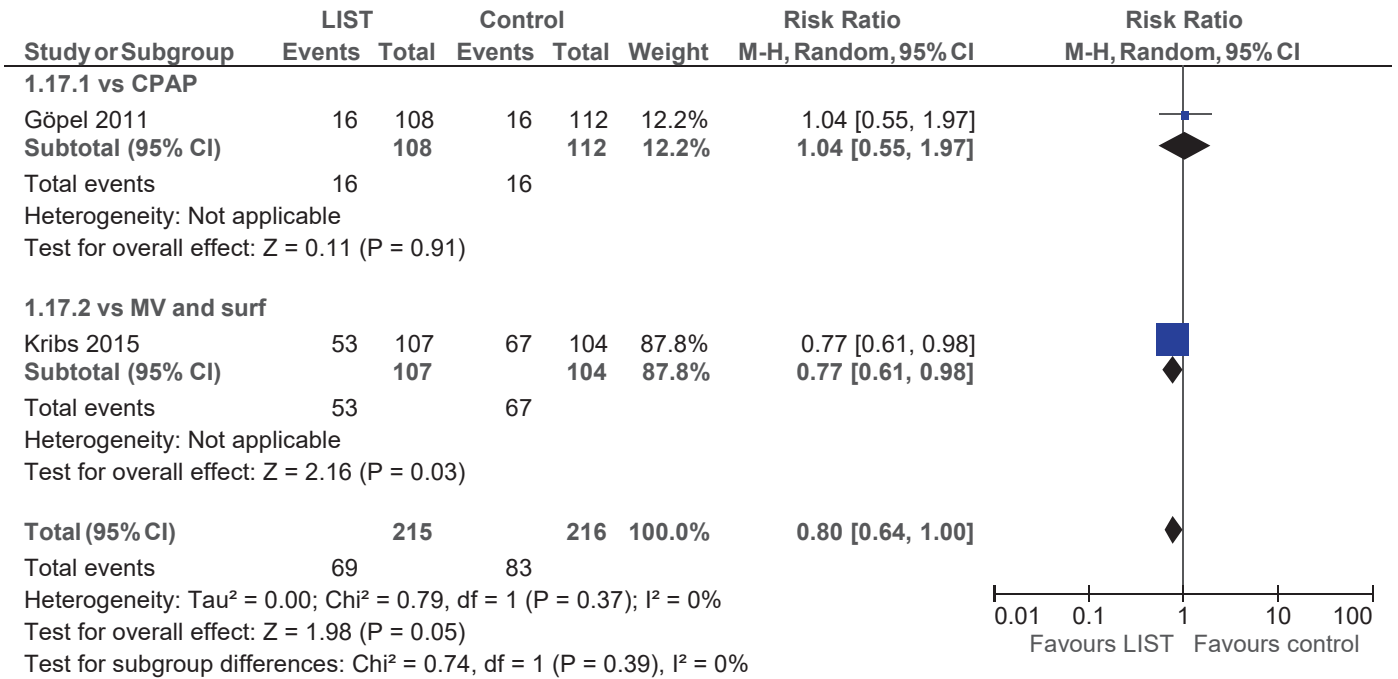
Kanmaz 2013, Bao 2015, Göpel 2015 and Kribs 2015 reported grade 3-4 IVH.
 Mirnia 2013 reported grade 2-4 IVH.
 Mohammadizadeh 2015 reported grade 1-4 IVH

1.16 NEC (as reported)



Göpel 2015 and Kribs 2015 reported a combined outcome of NEC or focal intestinal perforation requiring surgery.
 Kanmaz 2013 and Mirnia 2013 reported NEC Bell stages 2 and 3.

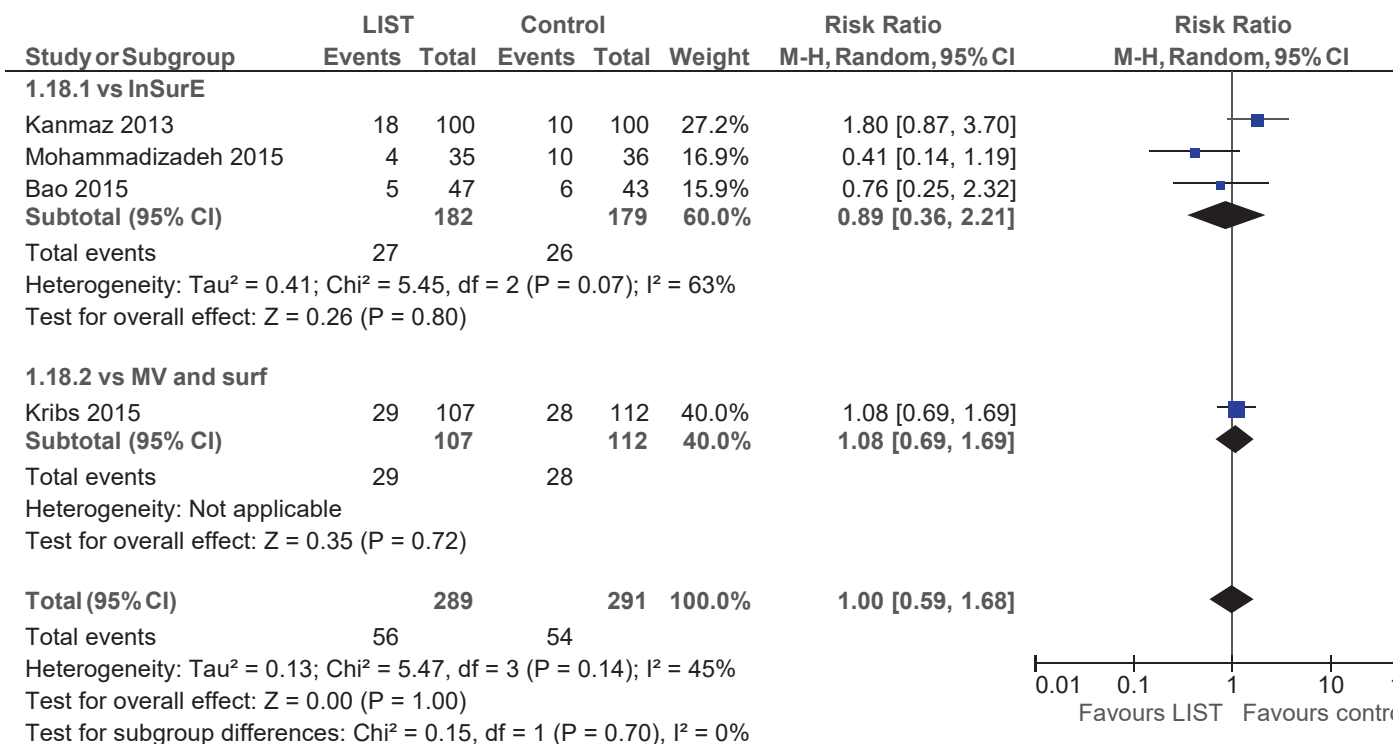
1.17 Death or severe morbidity



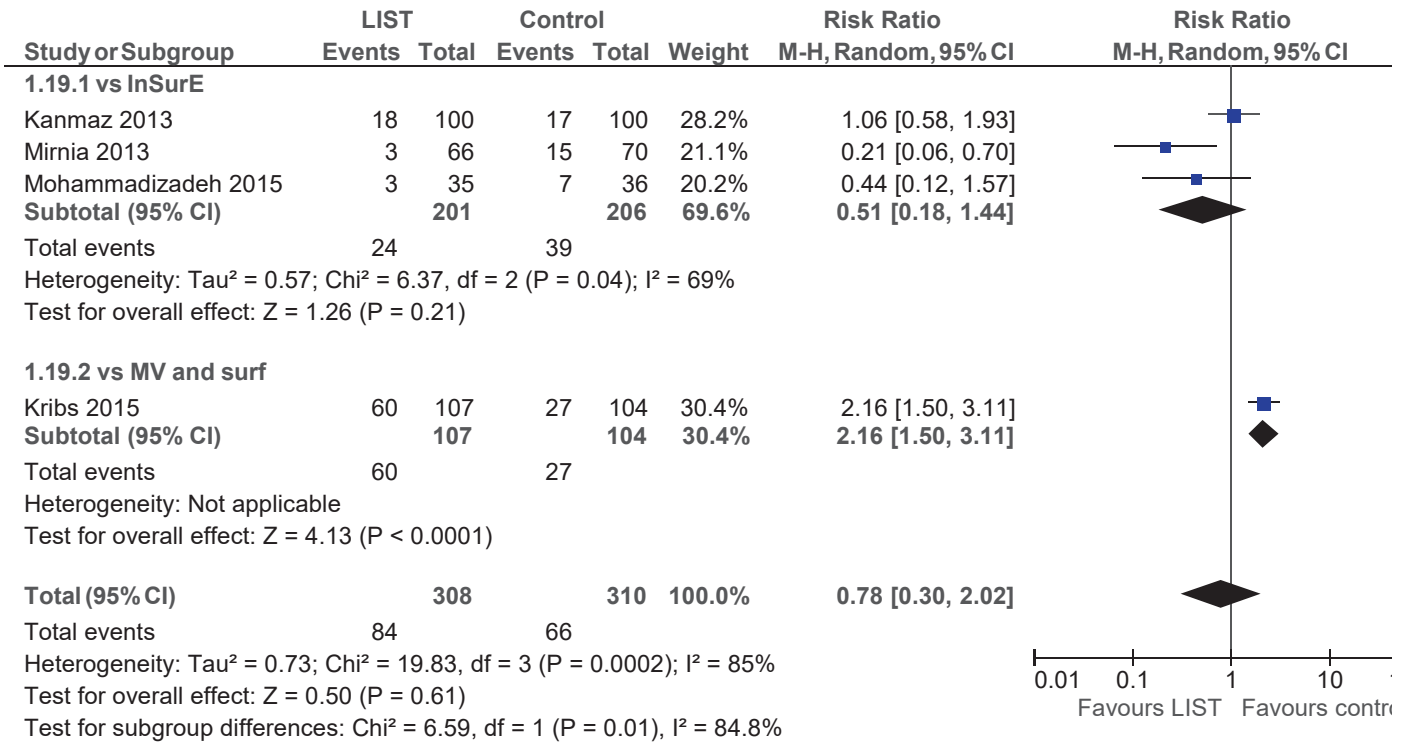
Both studies reported a combined outcome of death, BDP, severe IVH, PVL, or surgery for NEC, FIP or ROP.
Kribs 2015 also include BPD

1 Main analysis

1.18 Failed first attempt

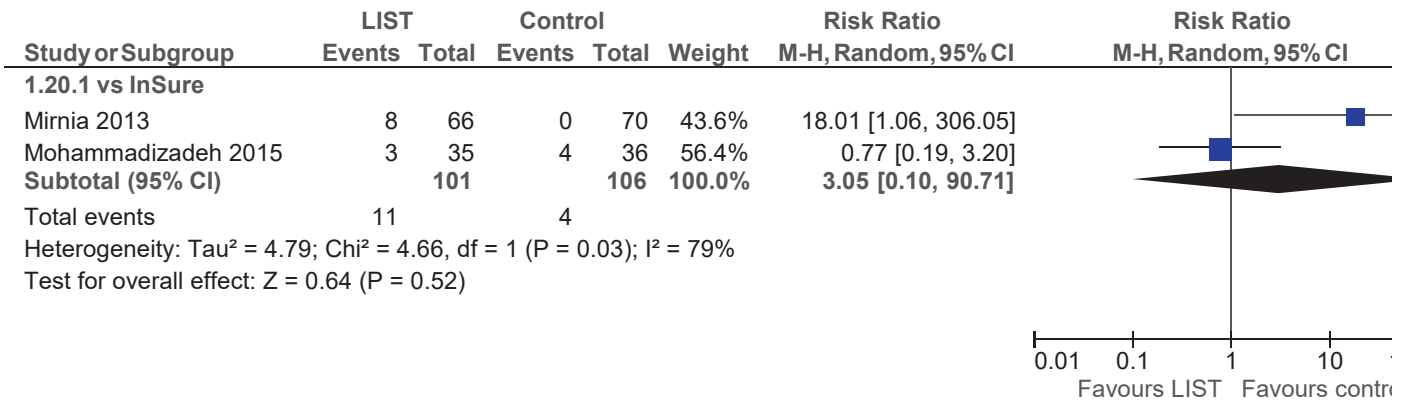


1.19 Desaturation during procedure

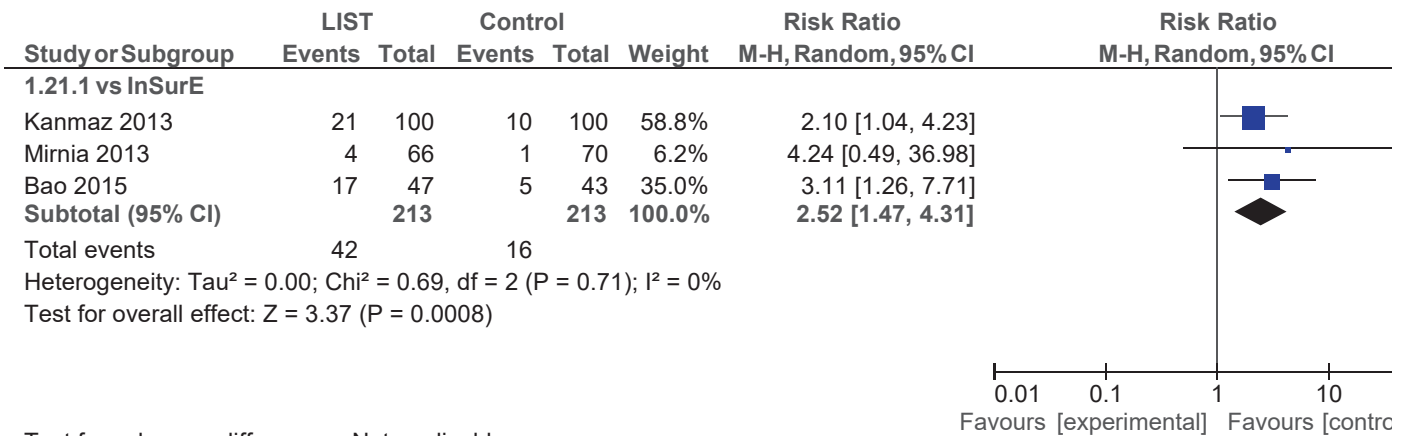


1 Main analysis

1.20 Cough during procedure



1.21 Surfactant reflux during procedure



Test for subgroup differences: Not applicable