

Supplementary online material 1. Literature search strings.

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("Biopsy"[MeSH Terms] AND ("Ultrasonography"[MeSH Terms] OR "Ultrasound"[tiab] OR "Radiography, Interventional"[MeSH Terms] OR "Tomography, X-Ray Computed"[MeSH Terms] OR "computed tomography"[tiab]) NOT "Endoscopic Ultrasound-Guided Fine Needle Aspiration"[MeSH Terms]) AND ("Pleural diseases"[MeSH Terms] OR "Pleura"[MeSH Terms] OR "pleural"[tiab] OR "pleura"[tiab]) NOT "Case Reports"[Publication Type] NOT "Review"[Publication Type]

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'biopsy' AND ('interventional ultrasonography' OR 'ultrasound' OR 'ultrasonograp*':ti,ab OR 'ultrasound':ti,ab OR 'interventional radiology' OR 'computed tomography') NOT 'endoscopic ultrasound guided fine needle biopsy' AND ('pleura disease' OR 'effusion, pleura' OR 'pleurisy' OR 'pleural':ti,ab OR 'pleura':ti,ab) AND [humans]/lim NOT [review]/lim NOT 'case report'/de

Fig. S1: Graphical display of the revised Quality Assessment of Diagnostic Accuracy Studies (QUADAS-2) results, according to risk of bias and applicability concerns (A) and overall (B)



Fig. S2: Contour-enhanced funnel plots for TUS-guided

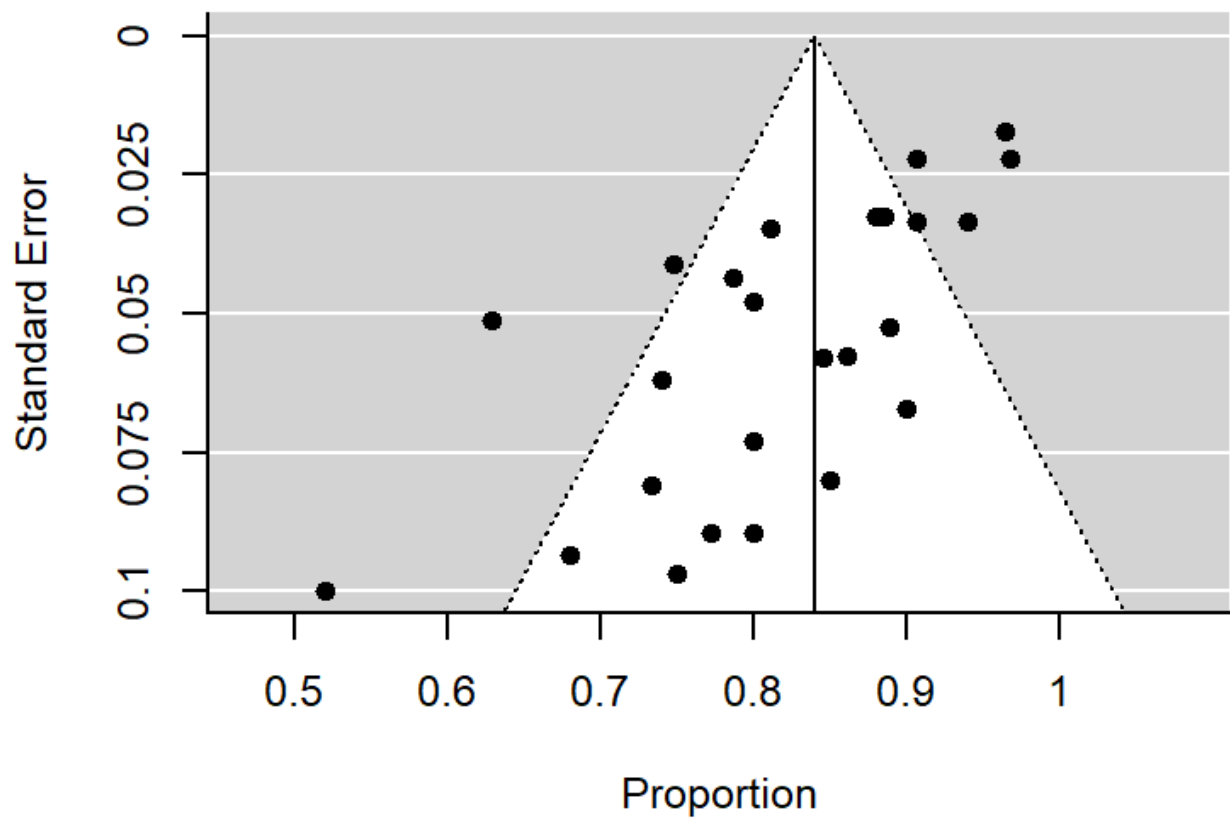


Fig. S3: Contour-enhanced funnel plots for CT-guided

