Supplementary information

The role of real-time elastography-targeted biopsy in the detection and diagnosis of prostate cancer: a systematic review and meta-analysis
Xiang Tu, MD1#, Shi Qiu, MD1#, Tiancong Chang, MD2#, Kun Jin, MD2, Yige Bao, MD1, Lu Yang, MD1*, Qiang Wei, MD1*

Supplementary digital content:
1. The details of search strategy:

Pubmed records: 245

Search details: (updated to 2017.7)
#1: "Prostatic Neoplasms"[Mesh] OR prostate cancer[Title/Abstract]
#2: (elastography[Title/Abstract]) OR "Elasticity Imaging Techniques"[Mesh] OR “elasticity”[Title/Abstract])
#3: #1 AND #2

Embase records: 239

Search details: (updated to 2017.7)
#1: exp. prostate cancer/
#2: “prostate cancer”. ab, ti.
#3: #1 OR #2
#4: exp. elastography/
#5: “elastography”. ab, ti.

CENTRAL records: 16

Search details: (updated to 2017.7 )
#1: MeSH descriptor [prostatic neoplasms] explode all trees
#2: “prostate”: ti,ab,kw
#3: #1 OR #2
#4: MeSH descriptor: [Elasticity Imaging Techniques] explode all trees
#5: “elastography”: ti,ab,kw
#6: #4 OR #5
#7: #3 AND #6
Total records (PubMed + Embase + CENTRAL): 500

After duplicates removal: records 402
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Supplemental digital content, Fig 1. Subgroup analysis for participates with the initial biopsy

<table>
<thead>
<tr>
<th>Study (year)</th>
<th>RR (95% CI)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallwein (2007)</td>
<td>1.09 (0.84, 1.42)</td>
<td>45.08</td>
</tr>
<tr>
<td>Ganzer (2012)</td>
<td>0.85 (0.52, 1.40)</td>
<td>14.67</td>
</tr>
<tr>
<td>Nygard (2014)</td>
<td>0.70 (0.50, 0.97)</td>
<td>40.05</td>
</tr>
<tr>
<td>Overall (I-squared = 55.0%, p = 0.108)</td>
<td>0.90 (0.74, 1.09)</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Favours Systematic Biopsy   Favours RTE-Targeted Biopsy
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Supplemental digital content, Fig 2. Sensitivity analysis by removing Nygard’s study.