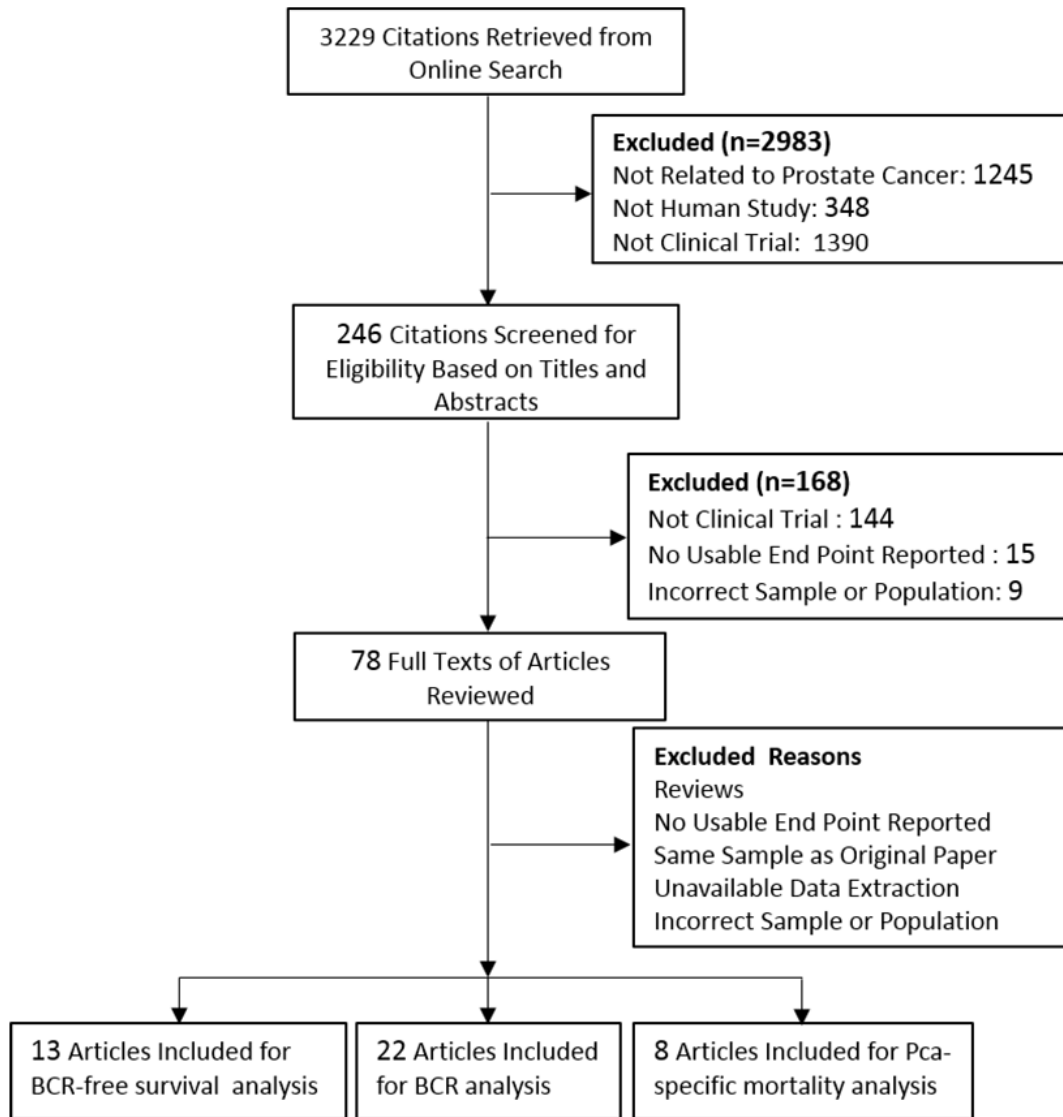Additional Files

The effect of statins on prostate cancer recurrence and mortality after definitive therapy: a systematic review and meta-analysis

Ping Tan, M.D. [a, b,*], Shiyou Wei, M.D. [c,*], Lu Yang, Ph.D [a, b,*], Zhuang Tang, M.D. [a, b], Dehong Cao, M.D. [a, b], Liangren Liu, Ph.D [a, b], Junhao Lei, M.D. [a, b], Yu Fan, M.D. [a, b], Liang Gao, M.D. [a, b], Qiang Wei, M.D [a, b]

Additional file 1.Trial Identification, Inclusion, and Exclusion.

3229 Citations Retrieved from
Online Search

Excluded (n=2983)
Not Related to Prostate Cancer: **1245**
Not Human Study: **348**
Not Clinical Trial: 1390

246 Citations Screened for
Eligibility Based on Titles and
Abstracts

Excluded (n=168)
Not Clinical Trial : 144
No Usable End Point Reported : 15
Incorrect Sample or Population: 9

78 Full Texts of Articles
Reviewed

Excluded Reasons
Reviews
No Usable End Point Reported
Same Sample as Original Paper
Unavailable Data Extraction
Incorrect Sample or Population

13 Articles Included for
BCR-free survival  analysis

22 Articles Included
for BCR analysis

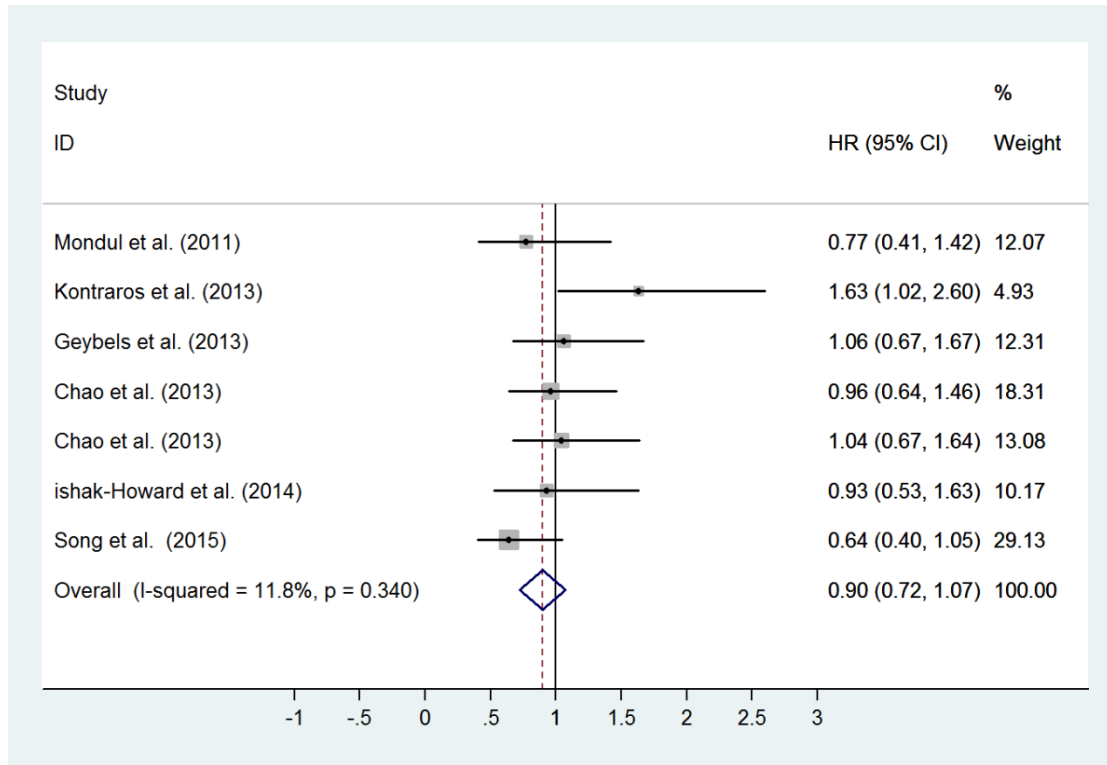8 Articles Included for Pca-
specific mortality analysis

Additional file 2. Studies evaluating the association between long-term statins use and BCR risk of prostate cancer.

| Study | HR# | 95%CI | Recurrence cases | Definition of long-term statin use |
|---|---|---|---|---|
| Song et al. 2015 (Korea) | 0.64 | 0.40-1.05 | NR* | >36 months |
| ishak-Howard et al.2014(US) | 0.932 | 0.53-1.63 | NR | >5 years |
| Kontraros et al.2013(Greece) | 1.63 | 1.02-2.60 | NR | >2 years |
| Geybels et al.2013(US) | 1.06 | 0.67-1.67 | 22 | >5 years |
| Mondul et al.2011(US) | 0.77 | 0.41-1.42 | NR | >1 years |
| Chao et al.2013(US) | 0.96 | 0.64-1.46 | NR | >500 days |
| Chao et al.2013(US) | 1.04 | 0.67-1.64 | NR | >500 days |

*NR, not report; #HR, Hazard Ratio; 95%CI, 95% confidence intervals.

Additional file 3. The meta-analysis of effect of long-term statins use on BCR risk of prostate cancer.



| Study ID | | HR (95% CI) | % Weight |
|---|---|---|---|
| Mondul et al. (2011) | | 0.77 (0.41, 1.42) | 12.07 |
| Kontraros et al. (2013) | | 1.63 (1.02, 2.60) | 4.93 |
| Geybels et al. (2013) | | 1.06 (0.67, 1.67) | 12.31 |
| Chao et al. (2013) | | 0.96 (0.64, 1.46) | 18.31 |
| Chao et al. (2013) | | 1.04 (0.67, 1.64) | 13.08 |
| ishak-Howard et al. (2014) | | 0.93 (0.53, 1.63) | 10.17 |
| Song et al. (2015) | | 0.64 (0.40, 1.05) | 29.13 |
| Overall (I-squared = 11.8%, p = 0.340) | | 0.90 (0.72, 1.07) | 100.00 |

Additional file 4. Funnel plot for publication bias of 22 studies analysing BCR risk of prostate cancer.



Begg's funnel plot with pseudo 95% confidence limits