

Quality of life outcomes after primary treatment for clinically localised prostate cancer: A systematic review

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Table 4: Visual Table for results from prospective studies

| Author, (longest follow-up time), Questionnaire used | Intervention | N at baseline | Reported results ¹ (table presents latest follow up data of each study) | | | | | | | |
|---|------------------------------|---------------|---|----------------------|-----------------------|-----------------------|--------------------|--------------------|---------|--|
| Studies that report change in QoL scores BETWEEN groups | | | | | | | | | | |
| Bacon 2001 [14] (60 months) UCLA PCI RP reference | Radical prostatectomy | 421 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | EBRT | 221 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | Brachytherapy | 69 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | | | | | | | | | | |
| Barocas 2017 [30] (36 months) EPIC | Radical prostatectomy | 1523 | Urinary incontinence* | Urinary irritation* | Bowel function | Sexual function | Hormone function | | | |
| | EBRT | 598 | Urinary incontinence* | Urinary irritation* | Bowel function | Sexual function | Hormone function | | | |
| | | | | | | | | | | |
| Borchers 2004 [15] (12 months) EORTC-QLQ-C30 Brachytherapy reference | NS Radical prostatectomy | 38 | Physical functioning | Role functioning | Emotional functioning | Cognitive functioning | Social functioning | Sexual functioning | Overall | |
| | Non NS Radical prostatectomy | 42 | Physical functioning | Role functioning | Emotional functioning | Cognitive functioning | Social functioning | Sexual functioning | Overall | |
| | Brachytherapy | 52 | Physical functioning | Role functioning | Emotional functioning | Cognitive functioning | Social functioning | Sexual functioning | Overall | |
| | | | | | | | | | | |
| Evans 2015 [16] (24 months) EPIC Brachytherapy reference | Brachytherapy | 262 | Urinary incontinence* | Urinary obstruction* | Bowel summary | Sexual summary | Hormone summary | | | |
| | IMRT | 160 | Urinary incontinence* | Urinary obstruction* | Bowel summary | Sexual summary | Hormone summary | | | |
| | SBRT | 381 | Urinary incontinence* | Urinary obstruction* | Bowel summary | Sexual summary | Hormone summary | | | |

Table 4: Visual Table for results from prospective studies

| Jeldres 2015 [17] (36 months) EPIC | Active Surveillance | 77 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | Hormone function | Hormone bother |
|--|-----------------------|-----|------------------------------|--|---|----------------|--|---------------|-------------------|-----------------|
| | Radical Prostatectomy | 228 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | Hormone function | Hormone bother |
| Kobuke 2009 [18] (12 months) UCLA-PCI | Radical prostatectomy | 37 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | Brachytherapy | 36 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| Namiki 2006 [20] (12 months) UCLA-PCI | Radical prostatectomy | 67 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | Brachytherapy | 70 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| Pardo 2010 [21] (36 months) EPIC <u>RP reference</u> | Radical prostatectomy | 123 | Urinary incontinence* | Urinary obstruction* | Bowel summary | Sexual summary | Hormonal summary | | | |
| | EBRT | 127 | Urinary incontinence* | Urinary obstruction* (compared with NSRP only) | Bowel summary (compared with non-NSRP only) | Sexual summary | Hormonal summary (compared with NSRP only) | | | |
| | Brachytherapy | 185 | Urinary incontinence* | Urinary obstruction* (compared with NSRP only) | Bowel summary | Sexual summary | Hormonal summary | | | |
| Pinkawa 2009 [22] (16 months) EPIC | Brachytherapy | 52 | Urinary incontinence bother* | Urinary obstructive - irritative bother* | Bowel function | Bowel bother | Sexual function | Sexual bother | Hormonal function | Hormonal bother |
| | EBRT | 52 | Urinary incontinence | Urinary obstructive - | Bowel function | Bowel bother | Sexual function | Sexual bother | Hormonal function | Hormonal bother |

Table 4: Visual Table for results from prospective studies

| | | | bother* | irritative bother* | | | | | | |
|--|---------------------------------|------|--------------------------|---|--------------------|---|---|---------------|--|--|
| | | | | | | | | | | |
| Punnen 2014 [25] (120 months) UCLA-PCI <u>NSRP reference</u> | NS Radical prostatectomy | 1139 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | Non NS Radical prostatectomy | 860 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | Brachytherapy | 684 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | EBRT | 386 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | | | | | | | | | | |
| Resnick 2013 [26] (180 months) PCOS questionnaire | Radical prostatectomy | 1164 | Urinary incontinence | Bowel function | Sexual function | | | | | |
| | EBRT | 491 | Urinary incontinence | Bowel function | Sexual function | | | | | |
| | | | | | | | | | | |
| Schapira 2001 [28] (12 months) UCLA-PCI | Radical prostatectomy | 42 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| | EBRT | 51 | Urinary function | Urinary bother | Bowel function | Bowel bother | Sexual function | Sexual bother | | |
| Studies that report change in QoL scores WITHIN groups | | | | | | | | | | |
| Sanda 2008 [27] (24 months) EPIC | Radical prostatectomy | 603 | Urinary Incontinence* | Urinary obstructive - Irritative* | Bowel function | Sexual function | Hormonal function | | | |
| | EBRT | 292 | Urinary Incontinence* | Urinary obstructive - Irritative* | Bowel function | Sexual function (only for EBRT plus NHT) | Hormonal function (only for EBRT plus NHT) | | | |
| | Brachytherapy | 306 | Urinary Incontinence* | Urinary obstructive - Irritative* | Bowel function | Sexual function | Hormonal function | | | |

Table 4: Visual Table for results from prospective studies

| | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|

Red: statistically significant deterioration

Orange: statistically significant deterioration, however the difference between groups or within groups does not exceed the minimally important difference for clinical significance, as defined by authors. This is applicable only for studies reporting minimally important difference for clinical significance

Green: statistically significant improvement

White: no statistically significant difference (For studies comparing interventions, it corresponds to the intervention used as reference and to those that do not show significant difference with this reference; for studies that report changes in QoL within groups, it shows intervention for which the QoL did not show significant change over time)

RP: Radical prostatectomy

NSRP: Nerve-sparing radical prostatectomy

EBRT: External beam radiotherapy

NHT: Neoadjuvant hormone therapy

* In EPIC questionnaire urinary function items and bother items are combined in the urinary incontinence subscale and the urinary irritation/obstruction subscale.

1. Malcolm study [19] is not presented in the table as authors report p values for between group comparisons taking into consideration the cryotherapy arm which we are not including in our review. Symon study [29] is also not presented in the table as authors do not report differences in disease-specific QOL scores among different treatments.