

Active surveillance for Gleason $3+4$ prostate cancer: yes or no?
Arnout Alberts, MD PhD
Department of Urology
Erasmus University Medical Center (NL)

Erasmus MC

## Active surveillance for low-risk prostate cancer

- Strategy to delay or prevent active treatment (RP, EBRT) and its related side-effects (erectile dysfunction, incontinence)
- Men on AS have improved QoL outcomes compared to men who have received EBRT or RP
- Strict follow-up is indicated in men on AS with repeated biopsies according to a protocol


| Active surveillance for low-risk prostate cancer is safe Erasmus MC |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  <br> Table 6.1.2: Active surveillance in screening-detected prostate cancer |  |  |  |  |  |
|  |  |  |  |  |  |
| Studies | n | Median FU (mo) | PT3 in RP patients | $\begin{array}{\|l\|l\|} \hline 10 \text {-year } \\ \mathrm{os}(\%) \end{array}$ | $\begin{aligned} & 10 \text {-year } \\ & \text { CSS (\%) } \end{aligned}$ |
| Van As, et al. 2008 [356] | 326 | 22 | 8/18(44\%) | 98 | 100 |
| Carter, etal. 2007 [350] | 407 | 41 | 10/49 (20\%) | 98 | 100 |
| Adamy, et al. 2011 [357] | 533-1,000 | 48 | 4/24 (17\%) | 90 | 99 |
| Soloway, et al. 2010 [ [358] | 99 | 45 | 0/2 | 100 | 100 |
| Roemeling, et al. 2007 [359] | 278 | 41 | - | 89 | 100 |
| Khatami, et al. 2007 [ [360] | 270 | 63 | - | n.r. | 100 |
| Kiotz, et al. 2015 [361] | 993 | 77 | - | 85 | 98.1 |
| Tosoian, et al. 2015 [355] | 1,298 | 60 | - | 93 | 99.9 |
| Total | 4,204-4,671 | 46.5 | - | 93 | 100 |
| $10-\mathrm{yr}$ CSS $=99-100 \%$ in men on AS |  |  |  |  |  |


$=1$


| Is Gleason 3+4 PCa always unsuitable for AS? |
| :--- |
| Can we identify subgroups of men who might by suitable? based on: |
| - Extent or percentage of pattern 4 in biopsy |
| - Growth pattern (cribriform vs non-cribriform, intraductal carcinoma) |
| - Imaging (MRI) |




Active surveillance for Gleason 3+4 PCa: yes or no?
Conclusions:

- Men with GS $3+4$ PCa on AS have a higher risk of metastatic progression
- Therefore, men with GS $3+4$ PCa should generally receive active treatment
- However, some men with favorable GS 3+4 PCa ( $\leq 10 \%$ gr4, no cribriform/IDC)
might be eligible for AS
- Patient characteristics (age, comorbidities) and MRI should be considered when
selecting men with favorable GS $3+4$ PCa for AS


