Active Surveillance for Clinically Localized Prostate Cancer

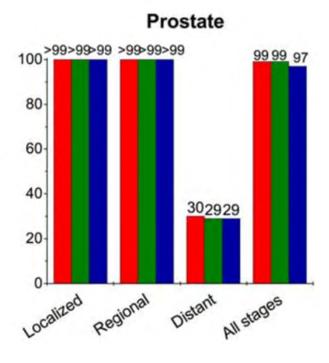
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Prostate cancer statistics



Five-Year Relative Survival Rates





Why is active surveillance <u>sometimes</u> an attractive option?

- Many tumors with indolent course
- Concern that aggressive screening may lead to overdiagnosis and overtreatment
- Ongoing controversy about the value of screening
- Treatment related complications



Treatment related complications

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ORIGINAL ARTICLE

Patient-Reported Outcomes after Monitoring, Surgery, or Radiotherapy for Prostate Cancer

J.L. Donovan, F.C. Hamdy, J.A. Lane, M. Mason, C. Metcalfe, E. Walsh, J.M. Blazeby, T.J. Peters, P. Holding, S. Bonnington, T. Lennon, L. Bradshaw, D. Cooper, P. Herbert, J. Howson, A. Jones, N. Lyons, E. Salter, P. Thompson, S. Tidball, J. Blaikie, C. Gray, P. Bollina, J. Catto, A. Doble, A. Doherty, D. Gillatt, R. Kockelbergh, H. Kynaston, A. Paul, P. Powell, S. Prescott, D.J. Rosario, E. Rowe, M. Davis, E.L. Turner, R.M. Martin, and D.E. Neal, for the Protect Study Group*

ABSTRACT

Erectile dysfunction

Urinary Incontinence

Bowel-related complications

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Who is a good candidate for active surveillance? – AUA Risk stratification



| Very Low Risk | PSA <10 ng/ml AND Grade Group 1 AND clinical stage T1-T2a AND <34% of biopsy cores positive AND no core with >50% involved, AND PSA density <0.15 ng/ml/cc |
|-------------------|--|
| Low Risk | PSA <10 ng/ml AND Grade Group 1 AND clinical stage T1-T2a |
| Intermediate Risk | PSA 10-<20 ng/ml OR Grade Group 2-3 OR clinical stage T2b-c Favorable: Grade Group 1 (with PSA 10-<20) OR Grade Group 2 (with PSA<10) Unfavorable: Grade Group 2 (with either PSA 10-<20 or clinical stage T2b-c) OR Grade Group 3 (with PSA < 20) |
| High Risk | PSA ≥20 ng/ml OR Grade Group 4-5 OR clinical stage ≥T3* |



Recommendations for selection, follow-up and transition to other treatments vary among published studies...



Points to consider...

- Life expectancy estimation
- Confirmatory testing
 - Repeat prostate biopsy
 - Genomic testing
 - Multiparametric prostate MRI
- Surveillance
 - Caution interpreting PSA trends
 - Repeat prostate biopsy
 - Multiparametric prostate MRI
- Transitioning to definitive treatment
 - Gleason 4+3 or higher
 - Other factors less clearly defined yet



Active Surveillance Outcomes

| Cohort | Start of Enrollment | Study Type | No. of patients | Median Follow-Up | % Metastatic Disease Living or Dead of Other Cause (No.) | % Prostate Cancer Related Death (No.) | % Converting to Other Treatment |
|----------------|------------------------|--|-----------------|---------------------|--|--|------------------------------------|
| ProtecT | 1999 | Randomized controlled trial | 545 | 10 years | 6.1 (33) | 1.5 (8) | 53.4 (291) |
| PRIAS | 2006 | Retrospective analysis of non- randomized cohort | 5,302 | Not specified | Not specified | <1 | 24 (1277) |
| Canary PASS | 2008 | Retrospective analysis of non-randomized cohort | 905 | 28 months | 0 (0) | 0 (0) | 19 (170) |