

# UROLOGY

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**Cover Photo:** Markov diagram. In our Markov model, hypothetical patients began in active surveillance (AS) vs undergoing immediate treatment. Arrows in the diagram represent transitions between disease states. Patients undergoing AS then remained in AS, proceeded to treatment, or progressed to the distant recurrence state. Following treatment, patients then remained in the post-treatment no evidence of disease (NED) state or proceeded to the biochemical failure state, with chance to return to the post-treatment NED state with salvage therapy. From the biochemical failure state, patients could remain in the biochemical failure state or proceed to the distant recurrence state. Patients in the distant recurrence state then cycled in that state until death. At each cycle, patients could proceed to the death state from other causes based on Social Security actuarial life tables. Initial treatment options included radical prostatectomy, intensity modulated radiation therapy (IMRT), or brachytherapy. Salvage therapy options included prostatectomy for patients previously treated with radiation therapy and IMRT for patients previously treated with prostatectomy.

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