**Supplemental Digital Content 4.** Modified RTOG Delayed Radiation Toxicity Grading

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|  | Grade 1 | Grade 2 | Grade 3 | Grade 4 |
| Lower Gastrointestinal | Excess bowel movementstwice baseline. Slight rectal discharge or blood. | Less than or equal to 2 antidiarrheals/week. Two or fewer coagulations for bleeding. Occasional steroids for ulceration. Occasional dilatation. Intermittent use of incontinence pads. Regular non-narcotic or occasional narcotic for pain. | More than two antidiarrheals/day. At least one blood transfusion or more than two coagulations for bleeding. Steroids per enema. Hyperbaric oxygen for ulceration. Regular dilatation. Persistent use of incontinence pads. Regular narcotic for pain. | Dysfunction requiring surgery. Perforation. Life-threatening bleeding. |
| Urinary | Nocturia twice baseline. Microscopic hematuria. Light muscosal atrophy and minor telanglectasia. | Moderate frequency/ Nocturia more than twice baseline. Generalized telanglectasia. Intermittent macroscopic hematuria. Occasional blood transfusions. Two or fewer coagulations. Regular non-narcotics for pain. | Severe frequency and dysuria. Nocturia more frequent than once every hour. Reduction in bladder capacity (150cc). Frequent hematuria. Frequent transfusions. More than one coagulation for hematuria. Regular narcotic for pain. | Severe hemorrhagic cystitis. Ulceration. Requirement for urinary diversion and/or cystectomy. |