**Supplemental Digital Content 3.** Comparison of the outcomes between 2D-RT and IMRTa

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| Characteristics |  |  |  |
| **Type of childhood cancer** | Nasopharyngeal carcinoma | | |
| **Treated** | 2003-2013 | | |
| **Age (years)** | 7–20 | | |
| **Follow-up (years)** |  | | |
| Median [range] | 4.3 [0.3-11.3] | | |
| **Chemotherapy** | 166 (94.3%) | | |
|  | **2D-RT** | **IMRT** | **P**b |  |  |
| **Number of patients** | 74 | 102 |  |
| **Radiotherapy** |  | | |
| Dose (Gy) | 70 | 68 |  |
| Range (Gy) | 66-80 | 62-70 |  |
| Fraction dose (Gy/day) | 2 | NM |  |
| Number of fractions | NM | 28–33 |  |
| **Chemotherapy** |  |  |  |
| No | 7 | 3 | 0.130 |
| Yes | 67 | 99 |  |
| **Outcome** |  | | |
| Xerostomiac | 39 | 35 | 0.015 |
| Hearing lossc | 30 | 23 | 0.010 |
| Skin dystrophy | 29 | 30 | 0.175 |
| Neck fibrosis | 25 | 22 | 0.071 |
| Trismus | 11 | 8 | 0.138 |
| Radiation encephalopathy | 6 | 4 | 0.236 |
| Cranial nerve palsy | 7 | 4 | 0.134 |
| Growth retardation | 3 | 2 | 0.409 |
| 2D-RT: two-dimensional conventional radiotherapy; IMRT: intensity-modulated radiotherapy; NM: not mentioned;  a: patients were not random allocated  b: Pearson’s χ2 tests  c: grade 2-4 toxicities | | | |