8. Supplementary material

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Complete table: All doses in cGy** | | | | | | |
|  | Plan | D5% (cGy) | D50%(cGy) | D75%(cGy) | D90%(cGy) | Mean dose(cGy) | Max dose (cGy) |
| Thyroid | Sy-3DCRT | 1940±217.5 | 1952.8±965.3 | 1428.6±1156.5 | 1463.5±218.5 | 2044.8±671.7 | 3115.2±287.6 |
| AG-3F | 1389.8±120.6 | 920.4±245.8 | 755.4±261.5 | 629±120.6 | 947.5±206.9 | 1644.6±124.1 |
| AG PL | 1418.2±209.8 | 968±235.3 | 742.1±243.6 | 620.8±209.8 | 972.4±229.5 | 1617.8±171.5 |
| AG-BR 3F SP PL | 1391±172.4 | 974.8±232.4 | 793.9±231.1 | 699.7±172.4 | 982.2±218.1 | 1634.7±136.4 |
| AG-BR PL SP 3F | 1439.3±101.8 | 1007.2±233 | 821.6±269.2 | 676.6±101.8 | 1008.4±192.7 | 1658.8±85.5 |
| Sy-PL | 1427.2±119.3 | 1026.8±227.8 | 859.6±238.2 | 746.6±119.3 | 1033.6±204.1 | 1644.2±155.2 |
| Sy-3DCRT | 3450.6±56 | 94.4±24.4 | 37.5±13.2 | 13.2±1.9 | 775.7±194.1 | 4817.7±676.8 |
| NIPD | AG-3F | 2548.5±382.1 | 221.8±76.7 | 45.1±23.5 | 10.8±0.8 | 598.8±117.5 | 3952.2±179 |
| AG PL | 2593.8±388.9 | 232.2±114.4 | 42.2±19.3 | 10.8±0.9 | 597.6±119 | 3882.4±179 |
| AG-BR 3F SP PL | 2556.9±358.8 | 236.7±109.2 | 42.9±18.6 | 9.9±0.9 | 595.5±113.5 | 3951.2±52.3 |
| AG-BR PL SP 3F | 2571.4±371.4 | 203.9±61.3 | 44.8±22.8 | 10.8±0.8 | 596.9±111.7 | 3957.8±128.8 |
| Sy-PL | 2589.2±337.6 | 201.1±109.6 | 32.9±13.7 | 10.5±0.9 | 589.5±118.1 | 3858.8±58.2 |
| Sy-3DCRT | 3160.8±349.1 | 1916.7±1328.7 | 1084.5±1032.6 | 485±455.9 | 1865.7±796.1 | 3372±251 |
| Left and right ovary | AG-3F | 1796.5±604.5 | 672.2±444.1 | 195±122 | 111.3±49.3 | 780.8±315.6 | 2235±516 |
| AG PL | 1763.7±693.1 | 616.7±493.1 | 209.8±133.9 | 129.6±63 | 748.3±377.1 | 2268.2±560.4 |
| AG-BR 3F SP PL | 1725.6±718.9 | 712.5±488.1 | 222±132 | 137.2±64.7 | 778±371.7 | 2197±665.8 |
| AG-BR PL SP 3F | 1920.7±758.8 | 755.7±524.3 | 204.9±139.7 | 116.3±54 | 845.1±400.7 | 2378.9±632.7 |
| Sy-PL | 1778.5±934.6 | 712±665.4 | 199.8±133.9 | 122±58 | 768.4±490.8 | 2313±878.4 |
| Sy-3DCRT | 2737.4±407.4 | 941.1±646.7 | 319±67.4 | 254.7±43.2 | 1222.7±497.5 | 3429.7±240.8 |
| Pharynx | AG-3F | 2028.9±264 | 1357.5±191.5 | 1099.2±251.1 | 883±334.1 | 1384.5±213.8 | 2707.6±438.9 |
| AG PL | 2053.2±189 | 1335.3±224.1 | 1061.7±216.4 | 868.9±211.2 | 1372.8±176.8 | 2843.3±404.7 |
| AG-BR 3F SP PL | 1900.9±293 | 1349.3±208.6 | 1105±169.3 | 920.8±152.8 | 1372.9±203.7 | 2647.2±379.1 |
| AG-BR PL SP 3F | 2167.4±49.5 | 1310.1±108.4 | 1042±190.6 | 844.9±281.6 | 1361±135 | 2916.7±251 |
| Sy-PL | 2186.4±165.8 | 1480.5±114.1 | 1242.5±120.3 | 1047.4±126.4 | 1514±83.4 | 2850.4±229.8 |
| Left Cochlea | Sy-3DCRT | 3534.8±74.5 | 3481.1±45.5 | 3461±38.5 | 3444.8±36.9 | 3455.4±62.5 | 3519.1±65.2 |
| AG-3F | 3272.3±177.9 | 2959.6±426.6 | 2879.4±476.5 | 2845.2±497.9 | 3079.7±354 | 3356.2±166.2 |
| AG PL | 3282.3±186.2 | 2945±420.4 | 2870.4±462.8 | 2822.6±469.4 | 3098.7±372.6 | 3366.8±181.9 |
| AG-BR 3F SP PL | 3314.1±219 | 2958.2±439.7 | 2868.9±478.4 | 2815.6±490 | 3135.1±421.9 | 3452.5±260.4 |
| AG-BR PL SP 3F | 3310.5±202.9 | 3012.8±408 | 2938.3±450.8 | 2877.7±488.9 | 3107±333.4 | 3401.3175.2 |
| Sy-PL | 3184±262.9 | 2975±422.6 | 2915.4±475.1 | 2870.7±511.8 | 3131.6±425.3 | 3354.1±302.8 |
| Right Cochlea | Sy-3DCRT | 3496.4±98.6 | 3440.8±73.7 | 3440±70.6 | 3407.8±67 | 3438.3±75.3 | 3500.4±107.5 |
| AG-3F | 3202.2±351.1 | 2885.6±384.3 | 2802.4±512.3 | 2758.9±442.8 | 2921.9±358.5 | 3263.9±358.4 |
| AG PL | 3108.8±303.8 | 2843.5±342.2 | 2760.1±463.4 | 2728.8±392.7 | 2868.6±322.6 | 3135.7±316.3 |
| AG-BR 3F SP PL | 3133±341.5 | 2874.8±339 | 2819.1±446.7 | 2769.5±378.2 | 3021.8±390.1 | 3160.2±358 |
| AG-BR PL SP 3F | 3211.1±399.9 | 2920.4±371.1 | 2848.8±495.1 | 2814.1±424.2 | 2956.7±342.6 | 3208.7±362 |
| Sy-PL | 3418.3±225.2 | 2868.3±403.1 | 2787.6±513.5 | 2796.2±434.9 | 2883.1±394.5 | 3129.1±324.2 |
| Right eye | Sy-3DCRT | 3554.9±168.9 | 2020.6±749.2 | 1141.9±750.7 | 677.9±544.6 | 2022±544.1 | 3681.4±80.7 |
| AG-3F | 2318.1±196.7 | 1579.3±313.5 | 1323.2±302.2 | 1126.7±285.1 | 1608.2±258.7 | 2685.5±179.1 |
| AG PL | 2369±208 | 1657.9±146.6 | 1415.5±153.9 | 1255.9±139.4 | 1692±128.8 | 2676.6±136 |
| AG-BR 3F SP PL | 2376.7±266.4 | 1449±188.6 | 1169±74.2 | 998.5±57.1 | 1517±178 | 2848.6±116.5 |
| AG-BR PL SP 3F | 2341.7±203.4 | 1705.6±178.4 | 1423.2±172.2 | 1247.2±173.3 | 1705.8±168 | 2681.1±192.1 |
| Sy-PL | 2307.2±184.1 | 1698.9±200.6 | 1473.3±201.2 | 1293.4±161.9 | 1716.2±179.9 | 2644.4±177.1 |
| Left eye | Sy-3DCRT | 3576±181.6 | 1952.5±744.7 | 1012.2±743.7 | 630.5±615.5 | 2006.6±540.9 | 3711.6±120.6 |
| AG-3F | 2282.2±152.5 | 1721.1±285.7 | 1543.9±346.6 | 1418.1±365.3 | 1748.9±268 | 2638.9±97.4 |
| AG PL | 2288.9±133.7 | 1720±249.3 | 1593.2±263.2 | 1475±254.8 | 1756.9±225.7 | 2660.6±101.7 |
| AG-BR 3F SP PL | 2415.7±135.4 | 1660±252.1 | 1484.3±277.5 | 1344.6±267.9 | 1714.9±218.5 | 2760.1±114.4 |
| AG-BR PL SP 3F | 2284±162.3 | 1708.8±270 | 1562±300.9 | 1438.5±304.6 | 1742±250.7 | 2685.3±141.6 |
| Sy-PL | 2288.8±144.8 | 1848.3±187.1 | 1695.2±207.8 | 1571.1±217.8 | 1859.6±182.5 | 2634.4±161.1 |
| Left optic Nerve | Sy-3DCRT | 3696±44.8 | 3654±47.9 | 3524.7±203.8 | 3245.9±560.1 | 3548.8±159.2 | 3697.3±45.8 |
| AG-3F | 3433±188.9 | 2958.8±457.7 | 2574.7±469.1 | 2285.8±363.6 | 2879.8±379 | 3490.2±146.2 |
| AG PL | 3407.5±228 | 3036.9±466.4 | 2645±502.3 | 2329.4±406.6 | 2931±401 | 3478.3±173.4 |
| AG-BR 3F SP PL | 3443.5±254.7 | 3036.2±574.4 | 2653.5±570.1 | 2394.3±495.9 | 2946±468.5 | 3518.9±166.7 |
| AG-BR PL SP 3F | 3461.4±280.5 | 3416.7±140.7 | 2698.6±398.3 | 2378.5±333.3 | 2990.2±382.1 | 3559.4±224.8 |
| Sy-PL | 3408.8±347.8 | 3290±210.8 | 2607.8±395.8 | 2341.8±354.4 | 2911.9±380.6 | 3473.9±328 |
| Right optic Nerve | Sy-3DCRT | 3659±31.9 | 3562.4±103.5 | 3398.3±247.5 | 3128.7±376.9 | 3513.1±157.2 | 3672.2±35.7 |
| AG-3F | 3434.6±104.5 | 3082.5±246.3 | 2702.9±235.9 | 2362.2±267.1 | 3056.3±244.5 | 3572.5±153.6 |
| AG PL | 3483.9±111.1 | 3141.3±195.7 | 2751.7±177 | 2471.9±190.4 | 3110±199.7 | 3556.1±133 |
| AG-BR 3F SP PL | 3501.7±211.8 | 3015.6±595.3 | 2605.4±720.7 | 2351.8±690.5 | 3037.4±470.3 | 3605.3±145.1 |
| AG-BR PL SP 3F | 3511.5±248.6 | 2939.6±379.6 | 2822.9±335.1 | 2446.2±230.3 | 3134.4±271.1 | 3573.7±200.1 |
| Sy-PL | 3474.1±135.5 | 2838.8±293.8 | 2641.3±219.5 | 2376±181.3 | 3064.3±247.2 | 3569.6±126.6 |
| Esophagus | Sy-3DCRT | 2870.4±286.1 | 2858.3±527 | 2395.9±1346.5 | 2254.5±1341.8 | 2775±663.6 | 3541±281.7 |
| AG-3F | 2832±365.6 | 1800.1±433.2 | 1344.6±315.9 | 1048.9±203.7 | 1847.4±311.8 | 3352.5±273.9 |
| AG PL | 2716.4±394.2 | 1902.7±305.6 | 1342.2±107.5 | 1038.5±60.9 | 1853.1±249.6 | 3298.7±504.9 |
| AG-BR 3F SP PL | 3344±178.8 | 1783±356.2 | 1366.9±234.6 | 1139.4±252.2 | 1795.3±313.1 | 3189.5±423.3 |
| AG-BR PL SP 3F | 2871.8±264.2 | 1848.2±397.7 | 1421.4±341.8 | 1084±231 | 1882.3±304.6 | 3346.2±162.6 |
| Sy-PL | 2719.5±354.9 | 1755.9±312.2 | 1483.7±346.8 | 1239.8±256.5 | 1871.4±397 | 3098.6±301 |
| Genties | Sy-3DCRT | 427.9±675.2 | 79.5±30.1 | 62±15.6 | 51±8.9 | 126±131.2 | 476.7±756.4 |
| AG-3F | 28.5±5.2 | 18.2±4.2 | 14.4±4 | 10.5±3.2 | 13.4±3.5 | 27.9±4.4 |
| AG PL | 30.7±5.3 | 18.5±4.6 | 14.2±4.1 | 10.3±3.8 | 14±4.1 | 31.8±7.2 |
| AG-BR 3F SP PL | 31.4±5.9 | 19.3±4.9 | 14.9±4.3 | 11.1±3.8 | 14.6±4.3 | 32.1±7 |
| AG-BR PL SP 3F | 28.6±5.3 | 18.3±4.2 | 14.4±4 | 10.5±3.7 | 13.4±3.6 | 30.8±8.4 |
| Sy-PL | 30.8±5.3 | 19±5 | 14.7±4.3 | 10.8±3.6 | 14.3±4.4 | 30.7±5.4 |
| Heart | Sy-3DCRT | 2986.7±115 | 2352.6±211.4 | 1050.5±712.7 | 198.8±32.1 | 1920.1±188.2 | 3251.8±82.5 |
| AG-3F | 1817.4±262.8 | 940±187.2 | 635.2±174.3 | 450.1±118.6 | 984.8±174 | 2681.6±340.2 |
| AG PL | 1667.3±250.2 | 881.6±181.4 | 626.7±128.1 | 470.1±94.3 | 929.7±145.4 | 2532.3±396.7 |
| AG-BR 3F SP PL | 1629.2±286.4 | 893.2±180.4 | 654.8±171.5 | 500.1±123.3 | 936±174 | 2552.1±516.2 |
| AG-BR PL SP 3F | 1799.8±261.5 | 962.8±197.6 | 655±147.3 | 461.3±96.5 | 999.1±168.9 | 2659.2±337.6 |
| Sy-PL | 1649.8±314.5 | 951.5±179.4 | 670.5±91.8 | 495.2±67.4 | 968.6±160 | 2712.3±541.3 |
| Left kidney | Sy-3DCRT | 2509.7±1310.2 | 295.9±199.5 | 122.4±19.8 | 96.3±12.4 | 740.7±519.1 | 3686.5±281.8 |
| AG-3F | 1137.4±720.8 | 280.4±77.4 | 204.9±10.7 | 181.7±11.4 | 429.5±233.1 | 2040.3±589.5 |
| AG PL | 1054.1±493.6 | 257.8±71.8 | 166.8±22.5 | 139.2±18.1 | 385.9±160.1 | 2031.8±472.3 |
| AG-BR 3F SP PL | 1126.4±570.6 | 261.2±80.8 | 168.9±26 | 140.7±21.6 | 404.3±190 | 2047.9±534.4 |
| AG-BR PL SP 3F | 1160.2±681.4 | 273.7±49 | 207±16 | 184.2±16 | 422.3±182.1 | 2145.6±634.2 |
| Sy-PL | 1071.3±567.6 | 231.5±78.2 | 148.9±24.5 | 118.7±20.6 | 361.9±186.9 | 2026±464.1 |
| Right Kidney | Sy-3DCRT | 2658.2±1097.6 | 879.9±1395.6 | 514±859.3 | 183.9±174.7 | 1031.8±1014.9 | 3741.1±278.5 |
| AG-3F | 1288.6±329 | 301±43.1 | 213.5±23.4 | 187.5±22.9 | 461.3±103.3 | 2155.9±199.6 |
| AG PL | 1222.8±355.3 | 314.2±130.3 | 189.5±48.2 | 148.9±23.4 | 455.3±141 | 2079.2±239.1 |
| AG-BR 3F SP PL | 1224.8±414.5 | 322±130.1 | 196.4±56.5 | 152±27.7 | 461±151.4 | 2135.5±451.5 |
| AG-BR PL SP 3F | 1289.1±358.6 | 302±60.2 | 217.5±31.1 | 191.1±26.8 | 468.4±109 | 2092.7±309.5 |
| Sy-PL | 1216.5±370.8 | 307±117.9 | 179.7±44.7 | 134.9±23.7 | 450.8±135.6 | 2057.7±300 |
| Right lung | Sy-3DCRT | 3297.2±179.1 | 177.3±38.4 | 106.1±8.5 | 83.9±5.4 | 869.6±263 | 3724.1±64.1 |
| AG-3F | 1893.8±372.9 | 589.3±185.7 | 270.6±67.2 | 177±25 | 732.2±162.7 | 3198.1±411.9 |
| AG PL | 1835.6±301.2 | 534.1±237.4 | 303±149 | 175.8±62.3 | 724.5±152.8 | 3209.8±365.5 |
| AG-BR 3F SP PL | 1863.1±318.6 | 438.5±196.8 | 307.2±144.9 | 178.5±65 | 735.9±152.3 | 3204.9±394.4 |
| AG-BR PL SP 3F | 1897.4±462.5 | 525±123.1 | 228.9±35.51 | 168.9±24.6 | 699.4±160 | 3161.9±451.6 |
| Sy-PL | 1913.5±359.1 | 584.4±181.4 | 287.9±133.6 | 149±59.3 | 733.6±165.4 | 3119.9±432.2 |
| Left lung | Sy-3DCRT | 2955.2±563.5 | 123±12.3 | 91.6±7.8 | 100.9±51.2 | 462.9±186.9 | 3643.4±61.1 |
| AG-3F | 1641.9±375 | 353.8±89.8 | 204.7±33.8 | 143.7±44.6 | 533.7±94.7 | 3034.3±380.6 |
| AG PL | 1596.1±335.6 | 475.7±170.7 | 225.6±100.4 | 138.1±29.3 | 572.3±151.7 | 3074.3±310 |
| AG-BR 3F SP PL | 1568±335 | 595.5±167.6 | 233.8±112.4 | 141.3±33.5 | 584.3±171.4 | 3108.6±453.3 |
| AG-BR PL SP 3F | 1550.9±201.7 | 321.5±66.1 | 194.7±21.1 | 162.7±20 | 522.1±84.2 | 3038.6±405.7 |
| Sy-PL | 1612.8±333.4 | 343.2±151.6 | 175.9±84.2 | 106±23.6 | 539.3±142.3 | 3114.8±374.8 |
| Sy-3DCRT | 1346.6±1919.4 | 222.4±56.2 | 191.1±26.4 | 176.6±17.8 | 440.2±435.8 | 1447.1±2024.9 |
| oral cavity | AG-3F | 1670.5±1047.8 | 876.2±509.9 | 690.4±386.1 | 568.8±306 | 957±564.2 | 2114.3±1281.6 |
| AG PL | 1633.2±1354.3 | 948±722.1 | 727.9±547.4 | 576.8±397 | 994±777 | 1893.7±1503.9 |
| AG-BR 3F SP PL | 1511.1±1011.6 | 913.8±489 | 701.5±354.5 | 569.4±251.6 | 941.8±533.8 | 1889.1±1392.4 |
| AG-BR PL SP 3F | 1606.5±1118.3 | 883.6±567.7 | 693.1±435.4 | 556.2±317.7 | 932.9±608.3 | 2044.8±1349.9 |
| Sy-PL | 2133.4±1360 | 1022±705.4 | 802.6±571.2 | 643.7±444.4 | 1300.8±876.2 | 2534.7±1672 |