**Section 370.TABLE A Mammography Dose Evaluation Table**

This Table is used to determine the mean glandular dose in milligrays delivered by 25.8 mC/kg (or millirad) delivered by 1 R in air incident on a 4.2 centimeter thickness compressed breast of average density (50 percent adipose and 50 percent glandular tissue). Values listed are for the first half-value layer (HVL) in millimeters of aluminum (mm Al), for x-ray tube target-filter combinations of molybdenum/molybdenum (Mo/Mo) and tungsten/ aluminum (W/Al). Linear extrapolation or interpolation shall be made for any HVL not listed.

Mean Glandular Dose in milligrays for 25.8 mC/kg (or millirad for 1 R) Entrance Exposure for a 4.2 Centimeter Compressed Breast of Average Density

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HVL | Mo/Mo Target-Filter X-Ray Tube Voltage (kVp) | | | | | | | | | | | W-A1 Target- |
| (mm AL) | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | Filter Combination |
| 0.23 | 116 |  |  |  |  |  |  |  |  |  |  |  |
| 0.24 | 121 | 124 |  |  |  |  |  |  |  |  |  |  |
| 0.25 | 126 | 129 | 131 |  |  |  |  |  |  |  |  |  |
| 0.26 | 130 | 133 | 135 | 138 |  |  |  |  |  |  |  |  |
| 0.27 | 135 | 138 | 140 | 142 | 143 |  |  |  |  |  |  |  |
| 0.28 | 140 | 142 | 144 | 146 | 147 | 149 |  |  |  |  |  |  |
| 0.29 | 144 | 146 | 148 | 150 | 151 | 153 | 154 |  |  |  |  |  |
| 0.30 | 149 | 151 | 153 | 155 | 156 | 157 | 158 | 159 |  |  |  | 170 |
| 0.31 | 154 | 156 | 157 | 159 | 160 | 161 | 162 | 163 | 164 |  |  | 175 |
| 0.32 | 158 | 160 | 162 | 163 | 164 | 166 | 167 | 168 | 168 | 170 | 171 | 180 |
| 0.33 | 163 | 165 | 166 | 168 | 169 | 170 | 171 | 173 | 173 | 174 | 175 | 185 |
| 0.34 | 168 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 190 |
| 0.35 |  | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 194 |
| 0.36 |  |  | 179 | 181 | 182 | 183 | 184 | 185 | 185 | 186 | 187 | 199 |
| 0.37 |  |  |  | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 191 | 204 |
| 0.38 |  |  |  |  | 190 | 191 | 192 | 193 | 194 | 195 | 195 | 208 |
| 0.39 |  |  |  |  |  | 196 | 197 | 198 | 198 | 199 | 200 | 213 |
| 0.40 |  |  |  |  |  |  | 201 | 202 | 203 | 204 | 204 | 217 |
| 0.41 |  |  |  |  |  |  |  | 206 | 207 | 208 | 208 | 221 |
| 0.42 |  |  |  |  |  |  |  |  | 211 | 212 | 212 | 225 |
| 0.43 |  |  |  |  |  |  |  |  |  | 215 | 216 | 230 |
| 0.44 |  |  |  |  |  |  |  |  |  |  | 220 | 234 |
| 0.45 |  |  |  |  |  |  |  |  |  |  |  | 238 |

AGENCY NOTE: Adapted from: Mammography Quality Control Manual: Medical Physicist's Section, Revised Edition, 1999.

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