**Table S1: Bone Marrow Dose (mGy) attributed to each conventional x-ray examinations**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Conventional x-ray** | **1930-1939** | **1940-1949** | **1950-1959** | **1960-1969** | **1970-1979** | **1980-1989** | **1990-1999** | **2000-2010** |
| Thorax | See (1), Table 3 for dose values | | | | | | | |
| Abdomena |
| Face- skull |
| Boneb | 1.77 | 1.89 | 1.74 | 0.57 | 0.55 | 0.57 | 0.16 | 0.16 |
| Kidney with contrastc | 6.5 | 6.5 | 6.5 | 1.25 | 0.95 | 1.65 | 1 | 1 |
| * a\_ We sum together abdomen with and without contrast * b\_ According to the % of the body part scanned over the total number of bone x-ray performed in general population, we calculated the dose as a weighted average of thoracic-cervical spine, thoracic spine, thoracic-lumbar spine, lumbar spine, lumbosacral spine, sacrum, pelvis (dose based on Melo 2016 (1)), extremities (where dose=0) (for the distribution in general population: “UNSCEAR 2000 Report-Vol II, Annex D” 2000 (2), Table 13 , Average value between Health Care level I Country). * c \_ This examination is basically an abdominal x-ray, but different films are taken on average for each examination (two conventional abdomen projections plus images at different times depending on the contrast washout). We found that on average 10 films are taken (3), 5 for each projection (anteroposterior, lateral). We therefore multiply by 5 the dose from the abdomen x-ray as reported by Melo 2016 (1). | | | | | | | | |

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3. Contento G, Malisan MR, Padovani R, Maccia C, Wall BF, Shrimpton PC. A comparison of diagnostic radiology practice and patient exposure in Britain, France and Italy. Br J Radiol. 1988 Feb;61(722):143–52.