List of Supplemental Digital Content (SDC)

 Technical Parameters of Radiographic Projections Used in Dose Calculations

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SDC 1. Technical parameters for skull radiography.

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| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screens** | **Grid** | **Reference** |
| 2000-2010 | AP axial (Towne)PA axial (15o)PA (0o)Lateral | 110110110110 | 24x30 24x3024x3024x30 | 80808080 | 2018188 | 2.52.52.52.5 | -d-d-d-d | FastFastFastFast | GridGridGrid Grid | Bontrager, 2010; 2005 |
| 1990-1999 | AP axial (Towne)PA axial (15o)PA (0o)Lateral | 110110110110 | 24x30 24x3024x3024x30 | 80808080 | 2018188 | 2.52.52.52.5 | -d-d-d-d | FastFastFastFast | GridGridGrid Grid | Bontrager, 1997; 2001 |
| 1980-1989 | Fronto-occipital (Towne)Occipito-frontal (PA axial 20o)Occipito-frontal (PA axial 0o) LateralSubmento-vertex | 100100100100100 | 24x30 24x3024x3024x3024x30 | 8075756585 | 4050404050 | 2.52.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | StandardStandardStandardStandardStandard | GridGridGridGridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | Fronto-occipital (Towne)Occipito-frontal (PA axial 20o)Occipito-frontal (PA axial 0o) LateralSubmento-vertex | 90909090 | 24x30 24x3024x3024x3024x30 | 7575706580 | 4045403050 | 2.52.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFastFast | GridGridGridGridGrid | McInnes, 1973  |
| 1960-1969 | Fronto-occipital (Towne)Occipito-frontal (PA axial 20o)Occipito-frontal (PA axial 0o) LateralSubmento-vertex | 9090909090 | 24x30 24x3024x3024x3024x30 | 7070706580 | 5040303050 | 2.52.52.52.52.5 | Ilford Red SealIlford Red SealIlford Red SealIlford Red Seal Ilford Red Seal | FastFastFastFastFast | StationaryGridGridGridGrid | Clark, 1964 |
| 1950 – 1959 | Fronto-occipital (Towne)Occipito-frontal (PA axial 20o)Occipito-frontal (PA axial 0o) LateralSubmento-vertex | 76767676767690909090 | 24x30 24 x 3024x3024 x 3024x3024 x 3024x3024 x 3024x3024 x 30 | 707070706565606080 | 16080140140701001407014070 | 0.50.50.50.50.50.50.50.50.50.5 | Ilford StandardRed SealIlford StandardRed SealIlford StandardRed SealIlford StandardRed SealIlford StandardRed Seal | StandardStandardStandardStandardStandardStandardStandardStandardStandardStandard | GridGridGridGridGridGridGridGridGridGrid | Clark, 1956 |
| 1940 – 1949 | Fronto-occipital (Towne)Occipito-frontal (PA axial 20o)Occipito-frontal (PA axial 0o) LateralSubmento-vertex | 7676767676 | 24x30 24x3024x3024x3024x30 | 6560656080 | 924610080200 | 0.50.50.50.50.5 | IlfordIlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstateTungstate | --Potter-BuckyPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930 – 1939 | Fronto-occipital (Towne)Occipito-frontal (PA axial 20o)Occipito-frontal (PA axial 0o) LateralSubmento-vertex | 7676767676 | 24x30 24x3024x3024x3024x30 | 6060656080 | 6054610080200 | 0.50.50.50.50.5 | IlfordIlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstateTungstate | --Potter-BuckyPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC2. Technical parameters for paranasal sinuses radiography.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | Lateral rightParietoacanthial (Waters)~~Parietoacanthia~~lPA axial  | 110110110 | 18x24 18x2418x24 | 707575 | 82824 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 2010; 2005 |
| 1990-1999  | Lateral rightOccipitomental (Waters)PA axial  | 110110110 | 18x2418x2418x24 | 707575 | 82824 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | Occipito-frontalOccipito-frontal 15oLateral rightSubmento-vertexObliques | 100100100100100 | 18x2418x2418x2418x2418x24 | 7575658570 | 4040205020 | 2.52.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | StandardStandardStandardStandardStandard | Potter-BuckyPotter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | Occipito-frontalOccipito-frontal 15oLateral rightSubmento-vertexObliques | 9090909090 | 18x24 18x24 18x2418x2418x24 | 7070758070 | 253055030 | 2.52.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | Fast Fast FastFastFast | GridGridGridGridGrid | McInnes, 1973 |
| 1960-1969 | Occipito-frontalOccipito-frontal 15oLateral rightSubmento-vertexObliques | 9090909090 | 20x2520x2518x2418x2418x24 | 7070758070 | 253055030 | 2.52.52.52.52.5 | Ilford Red SealIlford Red SealIlford Red SealIlford Red Seal Ilford Red Seal | Fast Fast FastFastFast | GridGridGridGridGrid | Clark, 1964 |
| 1950-1959 | Occipito-frontalOccipito-frontal 15oLateral rightSubmento-vertexObliques | 7676767676 | 16x2216x2216x2216x2216x22 | 6570758568 | 3636103636 | 0.50.50.50.50.5 | Ilford StandardIlford StandardIlford StandardIlford StandardIlford Standard | StandardStandardStandardStandardStandard | Grid-Grid-- | Clark, 1956 |
| 1940-1949 | Occipito-frontalOccipito-frontal 15oLateral rightSubmento-vertexObliques | 7676767676 | 16x2216x2216x2216x2216x22 | 6575638267 | 4040162340 | 0.50.50.50.50.5 | IlfordIlford Ilford IlfordIlford | TungstateTungstate TungstateTungstateTungstate | Potter-BuckPotter-BuckyPotter-BuckPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1940-1949 | Occipito-frontalOccipito-frontal 15oLateral rightSubmento-vertexObliques | 7676767676 | 16x2216x2216x2216x2216x22 | 6575638267 | 4040164640 | 0.50.50.50.50.5 | IlfordIlford Ilford IlfordIlford | TungstateTungstate TungstateTungstateTungstate | Potter-BuckPotter-BuckyPotter-BuckPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC3. Technical parameters for neck (soft tissue) radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Period | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | AP axial 20oLateral | 110160 | 18x24 24x30  | 7575 | 1028 | 2.52.5 | -d-d | FastFast | Grid- | Bontrager, 2010; 2005 |
| 1990-1999  | AP axial 20oLateral  | 110160 | 18x24 24x30  | 7575 | 1028 | 2.52.5 | -d-d | FastFast | Grid- | Bontrager, 1997; 2001 |
| 1980-1989 | AP axial 20oLateral  | 100180 | 18x2424x30  | 8065 | 4040 | 2.52.5 | Ilford Rapid RIlford Rapid R | FastFast | Grid- | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | AP axialLateral | 9090 | 18x2424x30 | 6060 | 258 | 2.52.5 | Ilford Rapid RIlford Rapid R | FastFast | Grid- | McInnes, 1973 |
| 1960-1969 | AP axialLateral  | 90150 | 18x2424x30 | 6070 | 2520 | 2.52.5 | Ilford Red SealIlford Red Seal | FastFast | Grid- | Clark, 1964 |
| 1950-1959 | APLAT | 120152 | 20x2420x24 | 6560 | 6030 | 0.50.5 | Ilford StandardIlford Standard | StandardStandard | Grid- | Clark, 1956 |
| 1940-1949 | APLAT | 120152 | 20x2420x24 | 6565 | 66100 | 0.50.5 | IlfordIlford | TungstateTungstate | Potter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | APLAT | 120152 | 20x2420x24 | 6565 | 65100 | 0.50.5 | IlfordIlford | TungstateTungstate | Potter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC4. Technical parameters for cervical spine radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | AP axial 20oAP-open mouthRAOLPOLateral | 110110160160160 | 18x24 18x24 18x24 18x24 24x30  | 7575757575 | 1015101028 | 2.52.52.52.52.5 | -d-d-d-d-d | FastFastFastFastFast | GridGridGridGrid- | Bontrager, 2010; 2005 |
| 1990-1999  | AP axial 20oAP-open mouthRAOLPOLateral  | 110110160160160 | 18x24 18x2418x2418x2424x30  | 7575757575 | 1015101028 | 2.52.52.52.52.5 | -d-d-d-d-d | FastFastFastFastFast | GridGridGridGrid- | Bontrager, 1997; 2001 |
| 1980-1989 | APAP-open mouthOBLLateral  | 100100180180 | 18x2418x24 18x24 24x30  | 80657065 | 40304040 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGrid-- | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | AP AP-open mouthOBLLateral | 90909090 | 18x2418x24 18x24 24x30 | 60607060 | 2530408 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGrid-- | McInnes, 1973 |
| 1960-1969 | APAP-open mouthOBLLateral  | 9090150150 | 18x2418x24 18x24 24x30 | 60807570 | 25402020 | 2.52.52.52.5 | Ilford Red SealIlford Red SealIlford Red SealIlford Red Seal | FastFastFastFast | GridGrid-- | Clark, 1964 |
| 1950-1959 | APAP-open mouthOBLLateral | 9076120150 | 20x2413x1820x2420x24 | 65558060 | 60403530 | 0.50.50.50.5 | Ilford StandardIlford standardIlford standardIlford standard | StandardStandardStandardStandard | Grid--- | Clark, 1956 |
| 1940-1949 | APAP-open mouthOBLLateral | 12076120152 | 20x2413x1820x2420x24 | 65658065 | 6665234100 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | APAP-open mouthOBLLateral | 12076120152 | 20x2413x1820x2420x24 | 65658065 | 6665234100 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC5. Technical parameters for ribs radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | PARAOgLPOg | 110110110 | 35x4335x43 35x43 | 707070 | 323232 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 2010; 2005 |
| 1990-1999  | PARAOgLPOg | 110110110 | 35x4335x43 35x43 | 707070 | 323232 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | AP 1st to 10th AP 9th to 12th OBLLateral 1st to 12th | 100100100100 | 35x4335x43 35x4335x43 | 75757580 | 50806010 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | StandardStandardStandardStandard | GridGridGridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | AP 1st to 10th PA 1st to 10thAP 9th to 12th OBLLateral 1st to 10thLateral 9th to 12th | 909090909090 | 35x4335x43 35x4335x4335x4335x43 | 758065808080 | 201570158080 | 2.52.52.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFast FastFastFast | GridGridGridGridGridGrid | McInnes, 1973 |
| 1960-1969 | AP 1st to 10th PA 1st to 10thAP 9th to 12th OBLLateral 1st to 10thLateral 9th to 12th | 909090909090 | 35x4335x43 35x4335x4335x4335x43 | 757565808080 | 101070158080 | 2.52.52.52.52.52.5 | Ilford Red SealIlford Red SealIlford Red SealIlford Red Seal Ilford Red SealIlford Red Seal | FastFastFast FastFastFast | GridGridGridGridGridGrid | Clark, 1964 |
| 1950-1959 | AP 1st to 10th AP 9th to 12th OBLLateral 9th to 12th | 9090909090909090 | 35x4335 x 4335x4335 x 4335x4335x4335 x 4335 x 43 | 7070708070808085 | 1681605516832080 | 0.50.50.50.50.50.50.50.5 | Ilford StandardRed SealIlford StandardRed SealIlford StandardRed SealIlford StandardRed Seal | StandardStandardStandardStandardStandardStandardStandardHV | ---Grid--GridGrid | Clark, 1956 |
| 1940-1949 | APPAOBL | 7615076 | 35x4335x43 35x43 | 656565 | 833 16 | 0.50.50.5 | IlfordIlfordIlford | TungstateTungstateTungstate | --- | Clark, 1949 |
| 1930-1939 | APPAOBL | 7615076 | 35x4335x43 35x43 | 656565 | 833 16 | 0.50.50.5 | IlfordIlfordIlford | TungstateTungstateTungstate | --- | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC6. Technical parameters for chest radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | PALateral | 180180 | 35x4335x43  | 110125 | 36 | 2.52.5 | -d-d | FastFast | GridGrid | Bontrager, 2010; 2005 |
| 1990-1999 | PALateral | 180180 | 35x4335x43  | 110 125 | 3 8 | 2.52.5 | -d-d | FastFast | GridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | PALateral | 150150 | 35x4335x43 | 6580 | 1240 | 2.52.5 | Ilford Rapid RIlford Rapid R | FastFast | -Grid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | PALateral | 150150 | 35x4335x43 | 6585 | 820 | 2.52.5 | Ilford Rapid RIlford Rapid R | FastFast | -Gride | McInnes, 1973 |
| 1960-1969 | PALateral | 150150 | 35x4335x43 | 6585 | 820 | 2.52.5 | Ilford Red SealIlford Red Seal | FastFast | -Gride | Clark, 1964 |
| 1950-1959 | PAlateral | 150150  | 35x4335x43 | 5375 | 2525 | 0.50.5 | Ilford standardIlford standard | StandardStandard | -- | Clark, 1956 |
| 1940-1949 | PAlateral | 150150  | 35x4335x43 | 5375 | 2525 | 0.50.5 | IlfordIlford | TungstateTungstate | -- | Clark, 1949 |
| 1930-1939 | PALateral | 150150  | 35x4335x43 | 5375 | 2020 | 0.50.5 | IlfordIlford | TungstateTungstate | -- | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided; egird for lateral projection

SDC7. Technical parameters for thoracic spine radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | APLateral | 110110 | 35x4335x43 | 8080 | 1250 | 2.52.5 | -d-d | FastFast | GridGrid | Bontrager, 2010; 2005 |
| 1990-1999 | APLateral | 110110 | 35x4335x43 | 8080 | 1250 | 2.52.5 | -d-d | FastFast | GridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | APLateral | 100100 | 35x4335x43 | 8070 | 4060 | 2.52.5 | Ilford Rapid RIlford Rapid R | FastFast | GridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | APLaterale | 9090 | 35x4335x43  | 8575 | 3060 | 2.52.5 | Ilford Rapid RIlford Rapid R | FastFast | GridGrid | McInnes, 1973 |
| 1960-1969 | APLateral | 9090 | 35x4335x43 | 8575 | 2530 | 2.52.5 | Ilford Red SealIlford Red Seal | FastFast | GridGrid | Clark, 1964 |
| 1950-1959 | APLateral | 9090 | 35x4335x43 | 8585 | 7070 | 0.50.5 | Ilford StandardIlford Standard | StandardStandard | GridGrid | Clark, 1956 |
| 1940-1949 | APLateral | 120120 | 35x4335x43 | 6580 | 120200 | 0.50.5 | IlfordIlford | TungstateTungstate | Potter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | APLateral | 120120 | 35x4335x43 | 6580 | 200200 | 0.50.5 | IlfordIlford | TungstateTungstate | Potter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided; einformation not

provided in the textbook, it was assumed the same as decade 1980-1989

SDC8. Technical parameters for thoracic/cervical spine radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | AP ThoracicLateral ThoracicAP CervicalLateral Cervical | 110110110160 | 35x4335x4318x2424x30 | 80807575 | 12501528 | 2.52.52.52.5 | -d-d-d-d | FastFastFastFast | GridGridGridGrid | Bontrager, 2010; 2005 |
| 1990-1999 | AP ThoracicLateral ThoracicAP CervicalLateral Cervical | 110110110160 | 35x4335x4318x2424x30 | 80807575 | 12501528 | 2.52.52.52.5 | -d-d-d-d | FastFastFastFast | GridGridGridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | AP ThoracicLateral ThoracicAP CervicalLateral Cervical | 100100100180 | 35x4335x4318x2424x30 | 80706565 | 40603040 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGridGrid- | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | AP ThoracicLateral ThoraciceAP CervicalLateral Cervical | 90909090 | 35x4335x43 18x2424x30 | 85756060 | 306088 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGridGrid- | McInnes, 1973 |
| 1960-1969 | AP ThoracicLateral ThoracicAP CervicalLateral Cervical | 90909090 | 35x4335x43 18x2424x30 | 85758070 | 25304020 | 2.52.52.52.5 | Ilford Red SealIlford Red SealIlford Red SealIlford Red Seal | FastFastFastFast | GridGridGrid- | Clark, 1964 |
| 1950-1959 | AP ThoracicLateral ThoracicAP CervicalLateral Cervical | 909090150 | 35x4335x43 13x1820x24 | 85856060 | 70704030 | 0.50.50.50.5 | Ilford StandardIlford StandardIlford StandardIlford Standard | StandardStandardStandardStandard | GridGridGrid- | Clark, 1956 |
| 1940-1949 | AP ThoracicLateral ThoracicAP CervicalLateral Cervical | 12012076150 | 35x4335x43 20x2420x24 | 65806565 | 12020065100 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | AP ThoracicLateral ThoracicAP CervicalLateral Cervical | 120120120152 | 35x4335x43 18x2424x30 | 65806565 | 20020065100 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided; einformation not

provided in the textbook, it was assumed the same as decade 1980-1989

SDC9. Technical parameters for thoracic/lumbar spine radiography.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | AP ThoracicLateral ThoracicAP LumbarLateral Lumbar | 110110110110 | 35x4335x4335x4335x43 | 80808090 | 12501550 | 2.52.52.52.5 | -d-d-d-d | FastFastFastFast | GridGridGridGrid | Bontrager, 2010; 2005 |
| 1990-1999 | AP ThoracicLateral ThoracicAP LumbarLateral Lumbar | 110110110110 | 35x4335x4335x4335x43 | 80808090 | 12501550 | 2.52.52.52.5 | -d-d-d-d | FastFastFastFast | GridGridGridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | AP ThoracicLateral ThoracicAP LumbarLateral Lumbar | 100100100100 | 35x4335x4335x4335x43 | 80707090 | 406080100 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGridGridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | AP ThoracicLateral ThoraciceAP LumbarLateral Lumbar | 90909090 | 35x4335x4335x4335x43 | 85756585 | 306080100 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGridGridGrid | McInnes, 1973 |
| 1960-1969 | AP ThoracicLateral ThoracicAP LumbarLateral Lumbar | 90909090 | 35x4335x4335x4335x43 | 85756585 | 253080100 | 2.52.52.52.5 | Ilford Red sealIlford Red sealIlford Red sealIlford Red seal | FastFastFastFast | GridGridGridGrid | Clark, 1964 |
| 1950-1959 | AP ThoracicLateral ThoracicAP LumbarLateral Lumbar | 90909090 | 35x4335x4335x4335x43 | 85857085 | 7070160320 | 0.50.50.50.5 | Ilford StandardIlford StandardIlford StandardIlford Standard | StandardStandardStandardStandard | GridGridGridGrid | Clark, 1956 |
| 1940-1949 | AP ThoracicLateral ThoracicAP LumbarLateral Lumbar | 120120120120 | 35x4335x4335x4335x43 | 65806580 | 120200264460 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | AP ThoracicLateral ThoracicAP LumbarLateral Lumbar | 120120120120 | 35x4335x4335x4335x43 | 65806580 | 200200264460 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided; einformation not

provided in the textbook, it was assumed the same as decade 1980-1989

SDC10. Technical parameters for lumbar spine radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | APLateralLPORPOLat L5-S1 | 110110110110110 | 35x4335x4335x43 35x43 18x24  | 80 908585100 | 1550151550 | 2.52.52.52.52.5 | -d-d-d-d-d | FastFastFastFastFast | GridGridGridGridGrid | Bontrager, 2010; 2005(NEXT) |
| 1990-1999 | APLateralLPORPOLat L5-S1 | 110110110110110 | 35x4335x4335x43 35x43 18x24 | 80 908585100 | 1550151550 | 2.52.52.52.52.5 | -d-d-d-d-d | FastFastFastFastFast | GridGridGridGridGrid | Bontrager, 1997; 2001(NEXT) |
| 1980-1989 | APLateralOBLLat L5-S1 | 100100100100 | 35x4335x4335x43 18x24 | 70907575 | 801008080 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGridGridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | APLateralOBL Lat L5-S1 | 90909090 | 35x4335x4335x43 18x24 | 65857570 | 801007580 | 2.52.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid RIlford Rapid R | FastFastFastFast | GridGridGridGrid | McInnes, 1973 |
| 1960-1969 | APLateralOBL Lat L5-S1 | 90929284 | 30x38 30x38 30x38 18x24  | 65857590 | 8010075150 | 2.52.52.52.5 | Ilford Red SealIlford Red SealIlford Red SealIlford Red Seal | FastFastFastFast | GridGridGridGrid | Clark, 1964 |
| 1950-1959 | AP Lateral OBLLat L5-S1 | 90909090 | 30x38 30x38 30x38 18x24  | 70857586 | 160320160220 | 0.50.50.50.5 | Ilford StandardIlford StandardIlford StandardIlford Standard | StandardStandardStandardStandard | GridGridGridGrid | Clark, 1956 |
| 1940-1949 | AP Lateral OBLLat L5-S1 | 12012012090 | 30x38 30x38 30x38 18x24  | 65807686 | 264460264264 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | AP Lateral OBLLat L5-S1 | 12012012090 | 30x38 30x38 30x38 18x24  | 65807065 | 264460264165 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC11. Technical parameters for lumbosacral spine radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | AP LumbarLat L5-S1AP Sacrum | 110110110 | 35x4318x24 24x30 | 80 10080 | 155015 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 2010; 2005 |
| 1990-1999 | AP LumbarLat L5-S1AP Sacrum | 110110110 | 35x4318x24 24x30 | 80 10080 | 155015 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | AP LumbarLat L5-S1AP Sacrum | 100180100 | 35x4324x3024x30 | 806575 | 404080 | 2.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid R | FastFastFast | GridGridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | AP LumbarLat L5-S1AP Sacrum | 909090 | 35x4324x3024x30 | 856070 | 30880 | 2.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid R | FastFastFast | GridGridGrid | McInnes, 1973 |
| 1960-1969 | AP LumbarLat L5-S1AP Sacrum | 909090 | 35x4324x3024x30 | 857070 | 252080 | 2.52.52.5 | Ilford Red SealIlford Red SealIlford Red Seal | FastFastFast | GridGridGrid | Clark, 1964 |
| 1950-1959 | AP LumbarLat L5-S1AP Sacrum | 9015090 | 35x4320x2424x30 | 856070 | 7030160 | 0.50.50.5 | Ilford StandardIlford StandardIlford Standard | StandardStandardStandard | GridGridGrid | Clark, 1956 |
| 1940-1949 | AP LumbarLat L5-S1AP Sacrum | 12015090 | 35x4320x2424x30 | 656565 | 120100150 | 0.50.50.5 | IlfordIlfordIlford | TungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | AP LumbarLat L5-S1AP Sacrum | 12015090 | 35x4320x2424x30 | 656565 | 120100150 | 0.50.50.5 | IlfordIlfordIlford | TungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC12. Technical parameters for sacrum/coccyx radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2000-2010 | AP axial sacrumAP axial coccyxLateral | 110110110 | 24x3018x2424x30 | 808090 | 151555 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 2010; 2005 |
| 1990-1999 | AP sacrumAP coccyxLateral | 110110110 | 24x3018x2424x30 | 808090 | 151555 | 2.52.52.5 | -d-d-d | FastFastFast | GridGridGrid | Bontrager, 1997; 2001 |
| 1980-1989 | AP sacrumAP coccyxLateral | 100100100 | 24x3018x2424x30 | 7565120  | 806080 | 2.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid R | FastFastFast | GridGridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1970-1979 | AP sacrumAP coccyxLateral | 909090 | 24x3018x2424x30 | 7065100 | 8050120 | 2.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid R | FastFastFast | GridGridGrid | McInnes, 1973 |
| 1960-1969 | AP sacrumAP coccyxLateral | 909090 | 24x3018x2424x30 | 706590 | 8050150 | 2.52.52.5 | Ilford Red SealIlford Red SealIlford Red Seal | FastFastFast | GridGridGrid | Clark, 1964 |
| 1950-1959 | APLateralAP | 90909090 | 24x3018x2424x3024 x 30 | 70857070 | 16040010050 | 0.50.50.50.5 | Ilford StandardIlford StandardIlford StandardRed Seal | StandardStandardStandardStandard | GridGridGridGrid | Clark, 1956 |
| 1940-1949 | APLateralAP | 909090 | 24x3018x2424x30 | 658665 | 150400115 | 0.50.50.5 | IlfordIlfordIlford | TungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | APLateralAP | 909090 | 24x3018x2424x30 | 658665 | 150400115 | 0.50.50.5 | IlfordIlfordIlford | TungstateTungstateTungstate | Potter-BuckyPotter-BuckyPotter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC13. Technical parameters for abdomen radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2010-2000 | AP  | 110 | 35x43 | 80 | 22 | 2.5 | -d | Fast | Grid | Bontrager, 2010; 2005 |
| 1999-1990 | AP  | 110 | 35x43 | 80  | 22 | 2.5 | -d | Fast | Grid | Bontrager, 1997; 2001 |
| 1989-1980 | AP  | 100 | 35x43 | 70 | 50 | 2.5 | Ilford rapid R | Fast | Grid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1979-1970 | AP  | 90 | 35x43 | 65 | 30 | 2.5 | Ilford rapid R | Fast | Grid | McInnes, 1973 |
| 1960-1969 | AP  | 90 | 35x43 | 70 | 30 | 2.5 | Ilford Red Seal | Fast | Grid | Clark, 1964 |
| 1950-1959 | AP  | 90 | 35x43 | 70 | 100 | 0.5 | Ilford Standard | Standard | Grid | Clark, 1956 |
| 1940-1949 | AP  | 90 | 35x43 | 70 | 100 | 0.5 | Ilford | Tungstate | Potter-Bucky | Clark, 1949 |
| 1930-1939 | AP  | 90 | 35x43 | 70 | 100 | 0.5 | Ilford | Tungstate | Potter-Bucky | Clark, 1939 |

asource-to-image receptor distance (cm); bpeak kilovoltage (kV) ; cmilliampere-seconds (mAs); dinformation not provided

SDC14. Technical parameters for pelvis radiography.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period** | **Projections** | **SIDa****(cm)** | **Film dimensions****(cm)** | **kVb** | **mAsc** | **Total****Filtration****(mm Al)** | **Film** | **Screen** | **Grid** | **Reference** |
| 2010-2000 | APFrog-leg | 110110 | 35x4335x43 | 8080 | 1212 | 2.52.5 | -d-d | FastFast | GridGrid | Bontrager, 2010; 2005 |
| 1999-1990 | APFrog-leg | 110110 | 35x4335x43 | 8080 | 1515 | 2.52.5 | -d-d | FastFast | GridGrid | Bontrager, 1997; 2001 |
| 1989-1980 | APLateral OBL | 100100100 | 35x4335x4335x43 | 7012070 | 6010050 | 2.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid R | FastFast Fast | GridGridGrid | Swallow and Naylor, 1986;Kreel and Paris, 1979 |
| 1979-1970 | APLateral OBL | 909090 | 35x4335x4335x43 | 709075 | 6012050 | 2.52.52.5 | Ilford Rapid RIlford Rapid RIlford Rapid R | FastFast Fast | GridGridGrid | McInnes, 1973 |
| 1960-1969 | APLateralOBL | 909090 | 35x4335x4335x43 | 709075 | 6012050 | 2.52.52.5 | Ilford Red SealIlford Red SealIlford Red Seal | FastFast Fast | GridGridGrid | Clark, 1964 |
| 1950-1959 | APLateralOBL | 909090909090 | 35x4335 x 4335x4335 x 4335x4335 x 43 | 707085857070 | 100334801609030 | 0.50.50.50.50.50.5 | Ilford StandardRed SealIlford StandardRed SealIlford StandardRed Seal | StandardHVStandardHVStandardHV | GridGridGridGridGridGrid | Clark, 1956 |
| 1940-1949 | APLateralOBL | 907076120 | 35x4335 x 4335x4335x43 | 65708665 | 13290274313 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyStationaryPotter-BuckyPotter-Bucky | Clark, 1949 |
| 1930-1939 | APLateralOBL | 907076120 | 35x4335 x 4335x4335x43 | 65708665 | 132 90274313 | 0.50.50.50.5 | IlfordIlfordIlfordIlford | TungstateTungstateTungstateTungstate | Potter-BuckyStationaryPotter-BuckyPotter-Bucky | Clark, 1939 |

a – source-to-image receptor distance (cm); b – peak kilovoltage (kV); c - milliampere-seconds (mAs); d- information not provided