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| **Protocol for Radiography** |

# Equipment type

*Enter equipment type here*

# Patient Protection

A thyroid collar should be used for all patients where the thyroid is likely to be near or in the main beam.

Protective lead aprons should also be available for patient use and should be used whenever the main beam is directed towards the patient's trunk e.g. during vertex occlusal view.

Collars and aprons should not be less than 0.25 mm Pb equivalence and should be properly supported when not in use (i.e. not folded). They should be examined regularly to ensure no cracks have developed and replaced when necessary.

# Equipment film speed setting

It is recommended that the completed exposure chart be displayed alongside the relevant X-ray set

Below is an example of an adult exposure chart that should be completed each time that the machine in question is calibrated by the RPA service. The text in red should be changed as appropriate.

Film speed setting (or equivalent) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Examination | X-ray Machine Settings | kV | mAs | mA | sec | FSD or FFD cms | Ref. Dose | Local DRL | Specific Comments |
| Upper 1-3  4-5  6-8 | Adult and incisor  Adult and premolar  Adult and molar | 70 | 1.4  1.75  2.8 | 7 | 0.2  0.25  0.4 | 20 | 1.4 mGy  1.9 mGy  2.0 mGy | 2.1 mGy | Rectangular collimation should be used whenever clinically possible |
| Lower 1-3  4-5  6-8 | Adult and incisor  Adult and premolar  Adult and molar | 70 | 1.12  1.4  2.24 | 7 | 0.16  0.2  0.32 | 20 | 1.1 mGy  1.4 mGy  1.6 mGy | 1.7 mGy | Rectangular collimation should be used whenever clinically possible |
| Bitewing | Adult and appropriate tooth | 70 | 2.24 | 7 | 0.32 | 20 | 1.6 mGy |  | Rectangular collimation should be used whenever clinically possible |
| Occlusals | Adult and occlusal | 70 | 2.24 | 7 | 0.32 | 20 | 1.6 mGy |  | Rectangular collimation should be used whenever clinically possible |
| Lat Ceph | Standard | 90 | - | 20 | 0.3 | 150 | 40 mGy cm2 | 40 mGy cm2 | If possible, limit field to area of interest |
| Panoramic | Standard jaw | 73 | - | 8 | 10 | - | 80 mGy cm2 | 82 mGy cm2 | If possible, limit field to area of interest with written protocols |

# Technique setting

Set the appropriate view on the timer unit, adjusting the technique switch for child, adult or adult thick jaw as required.

Example procedure produced by:

IRS Limited