Standards of Practice



IONIZING RADIATION

Dental hygienists on the general and courtesy registers are authorized to **order** and/or **apply** any form of ionizing radiation in medical radiography. Authorization to perform this **restricted activity** is for the purpose of ordering **dental X-ray imaging procedures** and/or applying ionizing radiation for dental X-ray imaging procedures as a part of the practice of dental hygiene. This does not include the ordering and/or applying ionizing radiation for any other medical diagnostic purpose or for any form of dental or medical radiation therapy.

STANDARD STATEMENT

The dental hygienist orders and/or applies ionizing radiation safely and appropriately for the purposes of dental X-ray imaging procedures.

PERFORMANCE EXPECTATIONS

The dental hygienist who orders ionizing radiation must...

- Protect the client from excessive radiation exposure in accordance with applicable legislation, policies, and guidelines, including <u>Safety Code 30</u>.
- 2. Base the order on the clinical history and clinical assessment of the client, professional judgment, and consideration of current, **evidence-informed** prescribing guidelines.
- 3. Justify that the results of the ordered procedure could inform their dental hygiene treatment decision to a degree that the benefits outweigh any risks.
- 4. Confirm that there are no previous images available which would avoid the need for additional dental X-ray imaging procedures.
- 5. Document the clinical rationale for the order and specify the information required from the dental X-ray imaging procedure (clinical objective).
- Keep the number of ordered dental X-ray imaging procedures to a minimum, consistent with the clinical objective for the order.
- Only prescribe a higher X-ray dose imaging procedure if the clinical objective cannot be satisfactorily met by other lower dose dental X-ray modalities.
- 8. Provide the client with enough information regarding the procedure to provide **informed consent**, including but not limited to:
 - a) Clinical rationale for the selection of the procedure;
 - b) How the results will be used by the dental hygienist;
 - c) Risks and benefits;
 - d) Cost; and
 - e) Possible consequences of not proceeding with the procedure.
- 9. Interpret ordered images and document all radiographic findings. If the dental hygienist does not fully interpret the image, they must consult with or refer to another health professional to obtain a complete imaging report that includes all abnormal, atypical, or unhealthy findings.
- 10. Explain the relevant radiographic findings to the client, provide the necessary follow-up, and refer the client to an appropriate health professional when required.

The dental hygienist who applies ionizing radiation must...

- 11. Only apply ionizing radiation when there is a client-specific order from an authorized health professional.
- 12. Consult with the ordering health professional and take reasonable steps if an order is unclear, incomplete, outdated, illegible, inappropriate, or unsafe.
- 13. Protect the client and others from radiation in accordance with applicable legislation, policies, and guidelines, including <u>Safety Code 30</u>.
- 14. Maintain records of retakes to facilitate a radiation quality assurance program.

The dental hygienist who owns ionizing radiation equipment must...

- 15. Ensure radiation equipment is inspected and registered according to applicable legislation and provide evidence of current registration to the College.
- 16. Ensure that a radiation protection program is developed, implemented, and maintained for the facility.
- 17. Fulfill the responsibilities of a dental X-ray equipment owner as described in Safety Code 30.

CLIENT EXPECTATION

The **client** can expect that the dental hygienist discusses the risks and benefits of dental X-ray imaging procedures and safely takes x-ray images only when necessary for detecting or diagnosing oral health conditions.

GLOSSARY

APPIY

To expose a client to ionizing radiation for the purpose of a dental X-ray imaging procedure.

DENTAL X-RAY IMAGING PROCEDURE

A technique that uses dental X-ray equipment in dental radiography, including the use of intra-oral (conventional, transportable, and hand-held) or extra-oral (panoramic, cephalometric and cone-beam computed tomography) modalities.

EVIDENCE-INFORMED

A formalized process which involves identifying, searching for, and interpreting the result of the best available evidence to inform decision-making processes.

INFORMED CONSENT

Receiving the client's permission to proceed with a proposed service following a process of decision-making leading to an informed choice. Informed consent involves ongoing communication between the parties involved. In the case of a minor or others who do not have the capacity to provide informed consent, the agreement must come from a legal guardian or substitute decisionmaker legally authorised to act on behalf of a client.

LEGISLATION

Federal or provincial acts, regulations or codes.

ORDER

To prescribe a dental X-ray imaging procedure for a client.

RESTRICTED ACTIVITY

An activity named as a restricted activity in Schedule 7.1 to the *Government Organization Act* [will be updated with Bill 46 amendments].