

Supplementary Table S1. Search strategies adopted in each database

Database	Search strategy
MEDLINE Ovid MEDLINE(R) ALL 1946 to Aug 01, 2024	1. radiography, dental/ or radiography, bitewing/ or radiography, dental, digital/ or radiography, panoramic/ 2. (dental radiograph* or dental radiolog*).mp. 3. ((intraoral or intra-oral or periapical) adj (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*)).mp. 4. ((bitewing or bite-wing) adj (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*)).mp. 5. ((digital or panoramic) adj (radiograph* or radiology or radiologic* or x-ray* or xray*)).mp. 6. or/1-5 7. exp Periodontal Diseases/di, dg, th [Diagnosis, Diagnostic Imaging, Therapy] 8. periodont*.tw,kf. 9. paradont*.mp. 10. (gingivitis or gingiva*).mp. 11. exp Alveolar Bone Loss/ 12. ((dental or alveolar) adj3 bone loss).mp. 13. or/7-12 14. 6 and 13 15. exp Artificial Intelligence/ or (AI or "artificial intelligence" or AIVI or "classification algorithm*" or "computer heuristic*" or "convolutional network*" or DALL-E or "decision support system*" or "decision tree" or DeepAI or "deep learning" or "data science" or "feature detection" or "generative pre-trained transformer" or "generative pretrained transformer" or Invideo or "language learning model*" or "large language model*" or "learning algorithm*" or "machine learning" or (Markov adj3 model*) or Midjourney or ((multifactor* or multicriteria) adj3 ("decision analysis" or "decision making")) or "natural language process*" or "nearest neighbo*" or "neural network*" or "outlier detection" or "pattern recognition" or Perplexity or "probability tree" or "random forest" or "representation learning" or Runway AI or Runway Gen-1 or "Stable Diffusion" or "support vector machine*" or "transfer learning" or "Bing chat" or ChatGPT* or "Chat GPT" or "Google* Bard" or "Google* Gemini" or "IBM Watson" or "Microsoft* Bing" or "Microsoft* Copilot" or OpenAI or "Open AI" or PathAI or "Path AI").mp. 16. animals/ not (animals/ and humans/) 17. exp models animal/ 18. (veterinary or rabbit or rabbits or animal or animals or mouse or mice or rodent or rodents or rat or rats or murine or hamster* or pig or pigs or piglets or swine or porcine or horse* or equine or cow or cows or cattle or bovine or goat or goats or sheep or lambs or ovine or monkey or monkeys or trout or marmoset\$1 or canine or dog or dogs or feline or cat or cats or zebrafish or case report or case series).ti. 19. limit 14 to (case reports or clinical conference or clinical trial, veterinary or clinical trial protocol or comment or congress or editorial or letter) 20. limit 14 to "books and documents" 21. or/15-20 [Exclude] 22. 14 not 21 23. limit 22 to english language

Continued...

Database	Search strategy
Embase Ovid Embase 1974 to 2024 Aug 01	1. tooth radiography/ or panoramic radiography/ 2. (dental radiograph* or dental radiolog*).mp. 3. ((intraoral or intra-oral or periapical) adj (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*)).mp. 4. ((bitewing or bite-wing) adj (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*)).mp. 5. ((digital or panoramic) adj (radiograph* or radiology or radiologic* or x-ray* or xray*)).mp. 6. or/1-5 7. exp periodontal disease/di, rt, th [Diagnosis, Radiotherapy, Therapy] 8. periodont*.tw,kw. 9. paradont*.mp. 10. (gingivitis or gingiva*).mp. 11. exp Alveolar Bone Loss/ 12. ((dental or alveolar) adj3 bone loss).mp. 13. or/7-12 14. 6 and 13 15. exp artificial intelligence/ or exp deep learning/ or exp machine learning/ or (AI or "artificial intelligence" or AI/ML or "classification algorithm*" or "computer heuristic*" or "convolutional network*" or DALL-E or "decision support system*" or "decision tree" or DeepAI or "deep learning" or "data science" or "feature detection" or "generative pre-trained transformer" or "generative pretrained transformer" or Invideo or "language learning model*" or "large language model*" or "learning algorithm*" or "machine learning" or (Markov adj3 model*) or Midjourney or ((multifactor* or multicriteria) adj3 ("decision analysis" or "decision making")) or "natural language process*" or "nearest neighbo*" or "neural network*" or "outlier detection" or "pattern recognition" or Perplexity or "probability tree" or "random forest" or "representation learning" or Runway AI or Runway Gen-1 or "Stable Diffusion" or "support vector machine*" or "transfer learning" or "Bing chat" or ChatGPT* or "Chat GPT" or "Google* Bard" or "Google* Gemini" or "IBM Watson" or "Microsoft* Bing" or "Microsoft* Copilot" or OpenAI or "Open AI" or PathAI or "Path AI").mp. 16. animal/ not (animal/ and human/) 17. exp animal model/ 18. (veterinary or rabbit or rabbits or animal or animals or mouse or mice or rodent or rodents or rat or rats or murine or hamster* or pig or pigs or piglets or swine or porcine or horse* or equine or cow or cows or cattle or bovine or goat or goats or sheep or lambs or ovine or monkey or monkeys or trout or marmoset\$1 or canine or dog or dogs or feline or cat or cats or zebrafish or case report or case series).ti. 19. limit 14 to (books or chapter or conference abstract or conference paper or editorial or letter or note) 20. limit 14 to (book or book series or conference proceeding) 21. limit 14 to conference abstracts 22. or/15-21 [Exclude] 23. 14 not 22 24. limit 23 to english language

Continued...

Database	Search strategy
Cochrane Library via Wiley	1. [mh "radiography, dental"] or [mh "radiography, bitewing"] or [mh "radiography, dental, digital"] or [mh "radiography, panoramic"]
	2. dental NEXT radiograph* or dental NEXT radiolog*
	3. ((intraoral or intra-oral or periapical) NEAR/1 (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*))
	4. ((bitewing or bite-wing) NEAR/1 (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*))
	5. ((digital or panoramic) NEAR/1 (radiograph* or radiology or radiologic* or x-ray* or xray*))
	6. 12-5
	7. MeSH descriptor: [Periodontal Diseases] explode all trees and with qualifier(s): [therapy - TH, diagnostic imaging - DG, diagnosis - DI]
	8. periodont*
	9. paradont*
	10. gingivitis or gingiva*
	11. [mh "Alveolar Bone Loss"]
	12. ((dental or alveolar) NEAR/3 bone loss)
	13. 5-12
	14. 6 AND 13
	15. [mh "Artificial Intelligence"] or (AI or "artificial intelligence" or AIVI or (classification NEXT algorithm*) or (computer NEXT heuristic*) or (convolutional NEXT network*) or DALL-E or (decision support NEXT system*) or "decision tree" or DeepAI or "deep learning" or "data science" or "feature detection" or (pre-trained NEXT transformer*) or (pretrained NEXT transformer*) or (hybrid NEXT protocol*) or Invideo or (language learning NEXT model*) or (large language NEXT model*) or (learning NEXT algorithm*) or "machine learning" or (Markov NEAR/3 model*) or Midjourney or ((multifactor* or multicriteria) NEAR/3 ("decision analysis" or "decision making")) or (natural language NEXT process*) or (nearest NEXT neighbo*) or (neural NEXT network*) or "outlier detection" or "pattern recognition" or Perplexity or "probability tree" or "random forest" or "representation learning" or "Runway AI" or "Runway Gen-1" or "Stable Diffusion" or (support vector NEXT machine*) or "transfer learning" or "Bing chat" or ChatGPT* or "Chat GPT" or (Google* NEXT Bard) or (Google* NEXT Gemini) or "IBM Watson" or (Microsoft* NEXT Bing) or (Microsoft* NEXT Copilot) or OpenAI or "Open AI" or PathAI or "Path AI")
	16. [mh animals] NOT ([mh animals] AND [mh humans])
	17. (veterinary or rabbit or rabbits or animal or animals or mouse or mice or rodent or rodents or rat or rats or murine or hamster* or pig or pigs or piglets or swine or porcine or horse* or equine or cow or cows or cattle or bovine or goat or goats or sheep or lambs or ovine or monkey or monkeys or trout or marmoset* or canine or dog or dogs or feline or cat or cats or zebrafish or case report or case series):ti
	18. {OR 15-17}
	19. 14 NOT 18
	Limit: English Language

Continued...

Almeida, Compton, Pratt, et al.

Database	Search strategy
Web of Science Core Collection	(TS=(“dental radiograph*” or “dental radiolog*” or ((intraoral or intra-oral or periapical) NEAR/1 (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*)) or ((bitewing or bite-wing) NEAR/1 (digital or radiograph* or radiology or radiologic* or imag* or x-ray* or xray*)) or ((digital or panoramic) NEAR/1 (radiograph* or radiology or radiologic* or x-ray* or xray*))) AND TS=(periodont* or paradont* or gingivitis or gingiva* or ((dental or alveolar) NEAR/3 bone loss))) NOT (TS=(AI or “artificial intelligence” or AI* or “classification algorithm*” or “computer heuristic*” or “convolutional network*” or DALL-E or “decision support system*” or “decision tree” or DeepAI or “deep learning” or “data science” or “feature detection” or “generative pre-trained transformer” or “generative pretrained transformer” or Invideo or “language learning model*” or “large language model*” or “learning algorithm*” or “machine learning” or (Markov NEAR/3 model*) or Midjourney or ((multifactor* or multicriteria) NEAR/3 (“decision analysis” or “decision making”)) or “natural language process*” or “nearest neighbo*” or “neural network*” or “outlier detection” or “pattern recognition” or Perplexity or “probability tree” or “random forest” or “representation learning” or Runway AI or Runway Gen-1 or “Stable Diffusion” or “support vector machine*” or “transfer learning” or “Bing chat” or ChatGPT* or “Chat GPT” or “Google* Bard” or “Google* Gemini” or “IBM Watson” or “Microsoft* Bing” or “Microsoft* Copilot” or OpenAI or “Open AI” or PathAI or “Path AI”) OR TI=(veterinary or rabbit or rabbits or animal or animals or mouse or mice or rodent or rodents or rat or rats or murine or hamster* or pig or pigs or piglets or swine or porcine or horse* or equine or cow or cows or cattle or bovine or goat or goats or sheep or lambs or ovine or monkey or monkeys or trout or marmoset* or canine or dog or dogs or feline or cat or cats or zebrafish or case report or case series) Refined by: English language Exclude: Document Types – Proceeding Paper, Meeting Abstract, Editorial Material, Letter, Note
Google Scholar (sorted “by relevance”) Without filters	(“dental radiography” OR “dental radiological” OR intraoral imaging OR intra-oral x-rays OR bitewing radiographs OR panoramic radiology) AND (periodontal OR paradontal OR gingivitis OR gingiva OR alveolar bone loss) –artificial intelligence –deep learning –AI

CITATION

Almeida FT, Compton SM, Pratt R, Kung JY, Senior A, Pacheco-Pereira C. Intraoral radiographs for the diagnosis, treatment, and follow-up of periodontal disease: Position paper from the Canadian Dental Hygienists Association. *Can J Dent Hyg.* 2026;60(1):46–63.