

歯科放射線学講座
(Department of Oral Radiology)

教育研究原著論文

1) 印刷公表

1. Mori M*, Ariji Y, Fukuda M, Kitano T^{*2}, Funakoshi T^{*2}, Nishiyama W^{*2}, Kohinata K^{*2}, Iida Y^{*2}, Ariji E*, Katsumata A^{*2}. Performance of deep learning technology for evaluation of positioning quality in periapical radiography of the maxillary canine. *Oral Radiol* 2022;38(1):147–154.
2. Nozawa M, Ito H^{*3}, Ariji Y, Fukuda M, Igarashi C^{*3}, Nishiyama M*, Ogi N*, Katsumata A^{*2}, Kobayashi K^{*3}, Ariji E*. Automatic segmentation of the temporomandibular joint disc on magnetic resonance images using a deep learning technique. *Dentomaxillofac Radiol* 2022;51(1):doi:10.1259/dmfr.20210185.
3. Ishibashi K^{*4}, Ariji Y, Kuwada C*, Kimura M^{*5}, Hashimoto K^{*5}, Umemura M^{*5}, Nagao T*, Ariji E*. Efficacy of a deep learning model created with the transfer learning method in detecting sialoliths of the submandibular gland on panoramic radiography. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2022;133(2):238–244.
4. Akiyama H, Yoshida K^{*6}, Tkenaka T^{*7}, Kotsum T^{*8}, Masui K^{*7}, Monzen H^{*9}, Sumida I^{*10}, Tsujimoto Y^{*11}, Miyao M^{*12}, Okumura H^{*13}, Shimbo T^{*12}, Takegawa H^{*6}, Murakami N^{*13}, Inaba K^{*13}, Kashihara T^{*13}, Takácsi-Nagy Z^{*14}, Tselis N^{*15}, Yamazaki H^{*7}, Tanaka E^{*11}, Nihei K^{*12}, Ariji Y. Effect of a lead block on alveolar bone protection in image-guided high-dose-rate interstitial brachytherapy for tongue cancer: using model-based dose calculation algorithms to correct for inhomogeneity. *J Contemp Brachytherapy* 2022;14(1):87–95.
5. Tsuji K, Imai M, Ikenaga H, Nakama H, Kotaki S, Kakudo M, Ishikawa H, Tanaka R, Nakanishi T, Ikeda C, Kishima M, Itoda M, Iseki T. Questionnaire after autotransplantation of teeth at Osaka Dental University Hospital. *J Osaka Dent Univ* 2022;56(1):121–126.
6. Ikeda C, Idogaki J, Isono H, Yamamoto Y, Cui J, Yin J, Hou Y, Kotaki S, Hirai M^{*16}, Okamura T, Takahashi K, Tominaga K. A new concept in event risk management that includes precautions for event organizers during the era of new lifestyles created by COVID-19. *J Osaka Dent Univ* 2022;56(1):131–141.
7. 小滝 真也, 蒲生 祥子^{*17}, 高橋 梢吾, 財家 俊幸, 高石 江里奈, 近藤 淳史, 森勢 里美^{*6}, 秋山 広徳, 有地 淑子. 大阪歯科大学附属病院中央画像検査室における過去10年間の画像検査の変遷および今後の展望. 歯科医学 2022;85(1):14–20.
8. Ariji Y, Kise Y*, Fukuda M, Kuwada C*, Ariji E*. Segmentation of metastatic cervical lymph nodes from CT images of oral cancers using deep-learning technology. *Dentomaxillofac Radiol* 2022;51(4):doi:10.1259/dmfr.20210515.
9. Yamazaki H^{*7}, Masui K^{*7}, Suzuki G^{*7}, Yoshida K^{*6}, Nakamura S^{*6}, Isohashi F^{*10}, Kotsuma T^{*8}, Takaoka Y^{*18}, Tanaka E^{*12}, Akiyama H, Ishibashi N^{*19}. Reirradiation for recurrent head and neck carcinoma using high-dose-rate brachytherapy: A multi-institutional study. *Brachytherapy* 2022;21(3):341–346.

10. Kondo H*, Kondo M*, Hayashi K*, Kusafuka S*, Hamamura K*, Tanaka K*, Kodama D*, Hirai T*, Sato T*, Ariji Y, Miyazawa K*, Ariji E*, Goto S*, Togari A*. Orthodontic tooth movement-activated sensory neurons contribute to enhancing osteoclast activity and tooth movement through sympathetic nervous signalling. *Eur J Orthod* 2022;44(4):404-411.
11. Takácsi-Nagy Z^{*14}, Ferenczi Ö^{*20}, Major T^{*20}, Akiyama H, Fröhlich G^{*20}, Oberna F^{*20}, Révész M^{*20}, Poósz M^{*20}, Polgár C^{*20}. Results of sole postoperative interstitial, high-dose-rate brachytherapy of T1-2 tongue tumours. *Strahlenther Onkol* 2022;198(9):812-819.
12. Ariji Y, Gotoh M*, Fukuda M*, Watanabe S*, Nagao T*, Katumata A^{*2}, Ariji E*. A preliminary deep learning study on automatic segmentation of contrast-enhanced bolus in videofluorography of swallowing. *Sci Rep* 2022;12(1):doi:10.1038/s41598-022-21530-8.
13. Ariji Y, Mori M*, Fukuda M*, Katsumata A^{*2}, Ariji E*. Automatic visualization of the mandibular canal in relation to an impacted mandibular third molar on panoramic radiographs using deep learning segmentation and transfer learning techniques. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2022;134(6):749-757.
14. Akiyama Y*, Minami K*, Niimi T*, Imura H*, Sakuma C*, Akiyama Y*, Akiyama Y*, Furukawa H*, Ariji Y, Ariji E*, Natsume N*. Classification of first and second branchial arch syndrome: study report 1—development of a measurement method using three-dimensional computed tomography data. *Aichi Gakuin Dent Sci* 2022;35:23-31

総説

1. 有地 淑子. 口腔顎顔面疾患診断への人工知能の応用—歯科放射線領域での人工知能—. 歯界展望 2022;特別号:130.
2. 吉田 博昭, 田中 亮太朗, 植村 紳司, 東 佳苗, 小滝 真也, 井関 富雄. 下顎骨矢状分割術8年後に骨体部金属固定板感染で紹介された1例 パノラマエックス線検査でミニプレートを見つけたら. *DENTAL DIAMOND* 2022;47(11):164-167.

著書

1. 有地 淑子, 秋山 広徳. 共著. 必携 視覚で学ぶ歯科放射線学. 東京: 砂書房 2022:1-2, 90-93.

*愛知学院大学

*2朝日大学

*3鶴見大学

*4名古屋市立大学

*5大垣市民病院

*6関西医科大学

*7京都府立医科大学

*8大阪労災病院

*9近畿大学

*10大阪大学

*11大阪医療センター

*12大阪医科大学

*13国立がん研究センター中央病院

*14Semmelweis University, Budapest, Hungary

*15Johann Wolfgang Goethe University Frankfurt

*16兵庫県赤十字血液センター

*17大阪市健康局健康推進部

*18彩都友絃会病院

*19日本大学

*20National Institute of Oncology