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INPLASY

CBCT diagnostic applicability in the identification of foramen Vesalius: Qualitative systematic review

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ADMINISTRATIVE INFORMATION

Support - King Khaklid University.

Review Stage at time of this submission - The review has not yet started.

Conflicts of interest - None declared.

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Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 11 October 2025 and was last updated on 11 October 2025.

INTRODUCTION

Review question / Objective What is the application of CBCT in the identification of foramen Vesalius (FV)?

Condition being studied The review is intended to search the databases to find the application and usefulness of CBCT in the foramen Vesalius. This anatomic foramen is of major clinical significance, as it carries the emissary veins, which connect the pterygoid plexus and cavernous sinus.

METHODS

Participant or population Population imaged with CBCT and have the foramen.

Intervention CBCT.

Comparator Other imaging modalities or meaurements on dry skulls.

Study designs to be included Original studies.

Eligibility criteria Original studies, including observational cross-sectional studies, performed the imaging of the foramen on dry skulls and published in the English language.

Information sources PubMed, Scopus, and Web of Science.

Main outcome(s) The accuracy of CBCT and its rule.

Quality assessment / Risk of bias analysis Based on the retrieved studies, different tools can be used. For example, Quadas 2 for the accuracy studies and Joanna Brigg Institute for observational ones.

Strategy of data synthesis Data will be extracted and imported into a table according to several criteria, including author and year, imaging

modality, comparator, population, sample, outcomes, and CBCT criteria.

Subgroup analysis No.

Sensitivity analysis In case of diagnostic accuracy studies.

Country(ies) involved Saudi Arabia.

Keywords Cone beam computed tomography, foramen Vesalius, diagnostic imaging.

Contributions of each author

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