

Ekaterina Mitkina

Dentist · Orthodontics resident · early-career researcher

Research interests: orthodontics, paediatric and adolescent dentistry, dental epidemiology, salivary biomarkers, non-carious lesions, traumatic dental injuries and statistics.

LANGUAGES Russian · English

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PORTRAIT / EKATERINA MITKINA

10

publications in peer-reviewed journals

2

invention patents

3

grant-funded innovation projects

FDI 2025

scientific presentation in Shanghai

02 PROFILE

In 2025, Ekaterina graduated with distinction from Northern State Medical University in Arkhangelsk with a degree in Dentistry. She is currently in the second year of an Orthodontics residency at Sechenov University in Moscow.

Her work connects clinical training with research in paediatric and adolescent dentistry, dental epidemiology and salivary biomarkers, applying evidence-based medicine, systematic reviews, meta-analyses and medical statistics. She also develops applied solutions for statistical analysis and the storage and transportation of traumatised teeth.

03 RESEARCH INTERESTS

Orthodontics

- Orthognathic surgery
- Paediatric and adolescent orthodontics
- Adult orthodontics
- Temporomandibular joint dysfunction
- Digital orthodontics

Dental epidemiology

- Salivary biomarkers
- Carious and non-carious lesions of hard dental tissues
- Diseases of the soft tissues of the oral cavity
- General medical conditions

Biostatistics

- Systematic reviews and meta-analyses
- Research methodology
- Clinical dentistry

01 EDUCATION

2020-2025

Northern State Medical University
Arkhangelsk
Dentistry degree with distinction

2025-2027

I.M. Sechenov First Moscow State Medical University
(Sechenov University)
Moscow
Orthodontics residency

04 PUBLICATIONS

Complete publication record

All 10 peer-reviewed journal publications. First-author papers are marked.

2023 / Marine Medicine / FIRST AUTHOR

Reliability analysis of binary outcomes: sample size and calculations of kappa statistic

doi.org/10.22328/2413-5747-2023-9-3-102-112 [open]

2024 / Russian Journal of Dentistry / FIRST AUTHOR

Solutions for the preservation of injured teeth: a systematic review

doi.org/10.17816/dent642127 [open]

2024 / Russian Journal of Dentistry

Dental caries among 12-year-old children in Arctic Russia: a systematic review and meta-analysis

doi.org/10.17816/dent625306 [open]

2025 / Stomatologiya

Associations between salivary melatonin and periodontal disease: a systematic review and meta-analysis

doi.org/10.17116/stomat202510403187 [open]

2025 / International Dental Journal

Salivary Alpha-Amylase, Caries, Bleeding And Calculus In Adolescents

doi.org/10.1016/j.identj.2025.104282 [open]

2024 / Stomatologiya

Dental caries among 15-year-old adolescents in Arctic Russia: a systematic review and meta-analysis

doi.org/10.17116/stomat202410306166 [open]

2025 / Актуальные проблемы медицины

Associations Between Salivary Alpha-Amylase, Dental Caries and Periodontal Disease in Children and Adolescents

doi.org/10.52575/2687-0940-2025-48-3-347-360 [open]

2025 / International Dental Journal

Melatonin And Caries Among Adolescents: A Multicenter Cross-Sectional Study

doi.org/10.1016/j.identj.2025.104364 [open]

2025 / Stomatologiya

Molar-incisor hypomineralization and its association with dental caries among adolescents in the European North of Russia

doi.org/10.17116/stomat202510405148 [open]

2025 / Russian Journal of Dentistry

Fetal programming of molar-incisor hypomineralization: a systematic review

doi.org/10.17816/dent607424 [open]

05 SCIENTIFIC AND INNOVATION PROJECTS

StatExpress service

Project lead

Student Startup, Round III

Problem: Researchers need a specialised digital service for statistical analysis.

Value: Combines medical statistics, research methodology and digital product development.

Portable storage and transportation system for traumatised teeth

Project contributor

Student Startup, Round IV

Problem: An avulsed tooth or fragment must be safely preserved before professional care.

Value: Intended for emergency dentistry, medical stations, first-aid services and adults accompanying children.

Specialised solution for storing and transporting teeth and fragments

Project lead

Young Researchers Competition at NSMU, 2024-2025

Problem: Storage and transportation must preserve cell viability in a damaged tooth or fragment.

Value: A specialised medium may support preservation and subsequent restoration.

06 INTERNATIONAL ACTIVITY

FDI World Dental Congress 2025

Shanghai, China · 9-12 September 2025 · Free Communication

Salivary Alpha-Amylase, Caries, Bleeding And Calculus In Adolescents

07 ACHIEVEMENTS & DEVELOPMENT

Awards

First place in an orthodontics olympiad - photographic protocol category.

First-degree diploma with the Nasledniki team at Students in Priority, Kazan, 2024.

Development

NaukaBiomed Forum (2023); Cochrane systematic reviews training (2024); Build a Company. Sell a Company programme (2023).