



Laboratory Name	Quantitative Methods for Health Research (MQIS)	
Main Goals	<p>The Quantitative Methods for Health Research Unit (MQIS) has been established in October 2015 and it gathers a group of faculty and researchers who coordinate curricular units in the areas of Statistics and Research Methods taught at Egas Moniz. The aim of this research unit is to provide support in such areas, for the design, data analysis and dissemination of results produced by research projects conducted in the thematic areas of CiiEM, as well training of highly qualified personnel enrolled in the PhD program in Biomedical Sciences.</p> <p>The MQIS unit provides the following services:</p> <ul style="list-style-type: none">• Assessment of the adequacy of research methodologies and methods of data analysis to the objectives of a research project.• Sample size determinations in view of specific research objectives.• Supervision of collected data management in a research project.• Selection of appropriate statistical techniques and software tools for specific project needs.• Statistical analysis of research data.• Supervision of graphical representation of research data.• Supervision in the writing of the statistics session of research reports, PhD theses, manuscripts for submission and congress communications.	



Lab Head	José Brito, PhD
Group	Alexandra Bernardo (PhD) Luís Proença (PhD) Rui Martins (PhD)
Senior Researchers	Alexandra Bernardo (PhD) José Brito (PhD) Luís Proença (PhD) Rui Martins (PhD)
PhD Students	

Research Projects	<p>Given its objectives, the MQIS provides support to research projects undertaken by research teams at CiiEM. Some of the projects are:</p> <p>2020: "Violência contra as Mulheres e Violência Doméstica (VMVD) em Tempos de Pandemia: caracterização, desafios e oportunidades no apoio à distância (AaD)". (aprovado pela FCT)</p> <p>2019: "Assessing of mycobiome in hospital intensive care units and in clinical ambulatory services (MSG)" - CiiEM Investiga</p> <p>2019: "Periodontal treatment impact on halitosis and quality of life (PTIoHQ)" - CiiEM Investiga</p> <p>2018: "Effectiveness' assessment of four therapeutic approaches for the reduction of bruxism symptoms (BruxISM)" – CiiEM Investiga</p> <p>2017 – 2020, "Design Molecular para Restauração Dentária" - FCT/P2020 24288. Fundação Ciência e Tecnologia, Portugal.</p>
Publications (10 most relevant, last 5 years)	<p>1. Botelho, J., Machado, V., Proença, L., & Mendes, J. J. (2020). The 2018 periodontitis case definition improves accuracy performance of full-mouth partial diagnostic protocols. Scientific Reports, 10(1) doi:10.1038/s41598-020-63700-6.</p>



2. Machado, V., Botelho, J., Proença, L., & Mendes, J. J. (2020). Self-reported illness perception and oral health-related quality of life predict adherence to initial periodontal treatment. *Journal of Clinical Periodontology*, 47(10), 1209-1218. doi:10.1111/jcpe.13337.
3. Machado, V., Botelho, J., Proença, L., Alves, R., Oliveira, M. J., Amaro, L., . . . Mendes, J. J. (2020). Periodontal status, perceived stress, diabetes mellitus and oral hygiene care on quality of life: A structural equation modelling analysis. *BMC Oral Health*, 20(1) doi:10.1186/s12903-020-01219-y.
4. Botelho, J., MacHado, V., Proença, L., Oliveira, M. J., Cavacas, M. A., Amaro, L., . . . Mendes, J. J. (2020). Perceived xerostomia, stress and periodontal status impact on elderly oral health-related quality of life: Findings from a cross-sectional survey. *BMC Oral Health*, 20(1) doi:10.1186/s12903-020-01183-7.
5. Neves, J. A., Antunes-Ferreira, N., Machado, V., Botelho, J., Proença, L., Quintas, A., . . . Delgado, S. (2020). Sex prediction based on mesiodistalwidth data in the portuguese population. *Applied Sciences*, 10(12) doi:10.3390/app10124156.
6. Pereira, Gonçalo; Pereira, Sofia; Santos, Madalena; Brito, José; Freitas, Diamantino; Carvalho, António; Águas, Artur; Oliveira, Maria; Oliveira, Pedro. (2020), Effects of high-intensity infrasound on liver lipid content of rats. *Heliyon*. 6. e04383. 10.1016/j.heliyon.2020.e04383.
7. Ana Lousinha, Gonçalo Pereira, Gonçalo Borrecho, José Brito, António Oliveira de Carvalho, Diamantino Freitas, Pedro Oliveira, Maria João R. Oliveira, Eduardo Antunes (2020), Atrial fibrosis and decreased connexin 43 in rat hearts after exposure to high-intensity infrasound, *Experimental and Molecular Pathology*, 2020, 104409, ISSN 0014-4800, <https://doi.org/10.1016/j.yexmp.2020.104409>.
8. Telma Catarina Almeida, Catarina Ramos, José Brito, Jorge Cardoso (2020), The juvenile victimization questionnaire: Psychometric properties and poly-victimization among Portuguese youth, *Children and Youth Services Review*, 113, ISSN 0190-7409, <https://doi.org/10.1016/j.childyouth.2020.105001>.
9. Joana Vasconcelos e Cruz, Mário Polido, José Brito and Luisa Gonçalves (2020), Dentin bonding and SEM analysis of a new experimental universal adhesive system containing a dendrimer, *Polymers* 2020, 12, 461; doi:10.3390/polym12020461.
10. Jorge Cardoso, Telma Almeida, Catarina Ramos, Sara Sousa, José Brito, (2020). Bidirectional Relationship between Perceived Stress and Insomnia Symptoms: The Role of Coping and Quality of Life, Sleep and Biological Rhythms, ISSN 1446-9235, <https://doi.org/10.1007/s41105-020-00284-8>.



Equipment/Techniques	General Linear Models, Mixed Linear Models, Time Series Analysis, Structural Analysis, Power Analysis, Applications to biomedical and environmental data.
Announcements	
Some Pictures	
Location	
Links	http://ciem.egasmoniz.edu.pt/pt-pt/research/research-labs.aspx