

1. Record Nr.	UNINA9910878796503321
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Titolo	Carolingian Medical Knowledge and Practice, C. 775-900 : New Approaches to Recipe Literature
Pubbl/distr/stampa	Boston : , : BRILL, , 2024 ©2024
ISBN	9789004466173 9004466177
Edizione	[1st ed.]
Descrizione fisica	1 online resource (436 pages)
Collana	Nuncius Series ; ; v.14
Soggetti	Medicine, Medieval Carolingians
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Front Cover -- Half Title -- Series Information -- Title Page -- Copyright Page -- Contents -- Acknowledgements -- Illustrations -- Abbreviations -- Note on Transcription and Translation -- Note on Weights, Measures, and Their Symbols -- Map -- Introduction -- Chapter 1 Practicality and Applicability: A Dual Approach to Carolingian Medical Knowledge and Practice -- 1 Introduction: The Case of Terenti (an)us -- 2 Definitions -- 3 Foundations -- 3.1 A Philological Underpinning -- 3.2 Histories of Early Medieval Medicine: From Negative Stereotypes to Revisionist Approaches -- 3.3 New Directions in Early Medieval Medical Research -- 3.4 Summary -- 4 The Carolingian Context -- 5 Structuring the Dual Approach -- Part 1 Practicality -- Chapter 2 Setting the Scene: The Texts, Their Contexts, and the Need for a Re-examination of Practicality -- 1 Introduction: a Mixed Picture of (Im)practicality -- 2 Contextualising Medicine's Place in Early Medieval Europe and the Question of Practicality -- 2.1 Summary -- 3 Outlining the Recipe Literature -- 3.1 Recipes and Recipe Collections -- 3.2 The Manuscript Sample -- Chapter 3 Impossible Imports or Available Exotics?: A Study of Non-local Materia Medica -- 1 Introduction: the Exotic Ingredients of an Antidote -- 2 Evidence for the Movement of Non-local Materia Medica -- 3 Exotic Materia Medica -- 3.1 What's in a Name? The Challenge of Identifying

Ingredients and Their Origins -- 3.2 From Ambergris to Zedoary -- 3.3 The Confectio Timiame: Camphor, Ambergris, and Other Non-local Materia Medica -- 3.4 The Recurrent Cluster: Parallels Among Incense Recipes -- 3.5 Moving Beyond Incense: the Spread of Knowledge -- 4 The Practicality of Non-local Materia Medica: Putting the Case Study in Perspective -- 5 Conclusion.

Chapter 4 Medicine and the Mead Hall?: Using Alcoholic Beverages to Explore Potentially Local Materia Medica -- 1 Introduction: a Snapshot From Cod. Sang. 752 -- 2 Wine, Beer, and Mead in the Classical Mediterranean -- 3 Changing Tastes in Late Antiquity? -- 4 The Rise of Beer and Medus in the Early Middle Ages -- 4.1 Beer -- 4.2 Mead and Medus -- 4.3 Summary -- 5 Contextualising Beer and Mead in Early Medieval Europe -- 6 Beer, Mead, and the Question of Practicality -- 7 Conclusion -- Chapter 5 Evidence for Practicality Beyond Materia Medica -- 1 Introduction: the Importance of Investigating Additional Elements Within Recipes -- 2 Staupus: a Vernacular 'Intrusion' -- 2.1 Past Studies on Staupus -- 2.2 The Appearance of Staupus in the Recipe Sample -- 2.3 The Absence of Staupus in Texts on Weights and Measures -- 2.4 The Practicality of the Unit Staupus -- 3 Wild Versus Cultivated Rue: the Inclusion of an Ingredient Substitution -- 3.1 Instructions for Ingredient Substitutions in the Recipe Sample -- 3.2 Ingredient Substitution in Earlier Sources -- 3.3 The Practicality of Substitution Instructions in Recipes -- 4 Conclusion -- Part 2 Applicability -- Chapter 6 Reading Recipes in the Light of Skeletal Remains: An Introduction to the Integration of Osteological Evidence -- 1 Introduction: Moving From Practicality to Practice, an Investigation Into Applicability -- 2 Establishing the Framework of Part 2 -- 2.1 Why Question the Relevance of Recipes? -- 2.2 Working With the Available Evidence -- 3 The Challenges of Using Osteological Evidence to Inform Textual Analysis -- 3.1 Intrinsic Issues With Archaeological Evidence -- 3.2 Theoretical Challenges Related to the Integration of Skeletal Evidence -- 3.2.1 Retrospective Diagnosis -- 3.2.2 The Osteological Paradox -- 3.2.3 Selection of Conditions -- 3.2.4 Absence of Evidence as Evidence of Absence?.

4 Outlining the Analytical Approach to Chapters 7-9 -- 4.1 Overview of Sites -- 4.2 The Spectrum of Specificity -- Chapter 7 Dental Disease: From Caries to Cosmetics -- 1 Introduction: a Monk From Lorsch -- 2 Oral Health in the Skeletal Evidence -- 2.1 Dental Disease in the Archaeological Record: an Overview -- 2.2 Skeletal Evidence for Oral Pathologies in Early Medieval Europe -- 3 Recipes to Treat Dental Disease -- 3.1 Category 1: Toothache -- 3.2 Categories 2-6: the Other Half of the Recipes Concerning Oral Health -- 3.2.1 Category 2: Ulcers, Sores, Wounds, and Burns -- 3.2.2 Category 3: Cavities and Tooth Loss -- 3.2.3 Category 4: Putridity and Cosmetics -- 3.2.4 Category 5: General, Unspecified Mouth Complaints -- 3.2.5 Category 6: Gum Problems -- 3.3 Summary -- 4 The Applicability of the Recipe Sample to Early Medieval People -- 4.1 Specific Types of Teeth -- 4.2 Specific Types of People -- 4.3 Cosmetics -- 4.4 Possible Sources for Dental Recipes -- 5 Conclusion -- Chapter 8 Joint Disease: Problematising Podagra -- 1 Introduction: the Pains of Gout-and the Problems of Translation -- 2 The Appearance of Podagra in Medical Recipes -- 3 The Absence of Gout in Archaeological Contexts -- 4 Moving Beyond Gout: Evidence for Other Arthropathies in the Osteological Record -- 4.1 The Spine -- 4.2 Large Joints and Limbs: Shoulders, Elbows, Hips, and Knees -- 4.3 Small Joints: Hands and Feet -- 4.4 Summary -- 5 Textual Evidence for Joint Pain Beyond Podagra -- 5.1 General Afflictions of the Joints -- 5.2 Named Joints and Joint Areas: the Back, Neck, Shoulders, Hips, Knees, and Hands -- 6 Integrating the Evidence:

a Return to the Gout-Podagra Paradox and the Question of Applicability -- 6.1 Gout Versus Podagra: Conflicting Evidence or a Modern Misnomer? -- 6.2 The Question of Applicability -- 7 Conclusion. Chapter 9 Trauma and Surgery: Evidence of Undocumented Medical Practices? -- 1 Introduction: Interventions 'Without Iron' -- 2 Textual Evidence for Invasive Surgery and Trauma -- 2.1 Surgery -- 2.2 Trauma -- 3 Osteological Evidence for Trauma and Surgery -- 3.1 Identifying and Understanding Trauma in the Osteological Record -- 3.2 Evidence for Trauma in Early Medieval Skeletal Remains -- 4 Reading Recipes in the Light of Osteological Evidence for Trauma and Surgery -- 4.1 Type of Injury: Conflicting Evidence? -- 4.2 The Question of Surgery -- 4.3 Evidence for Trauma Beyond Medical Texts -- 5 Conclusion -- Conclusion -- Chapter 10 Putting Knowledge Into Practice -- 1 Introduction: Revisiting the Case of Terenti(an)us -- 2 Bringing Together the Case Studies -- 3 Moving Forward: Final Remarks and Future Directions -- Appendices -- Appendix 1 The Manuscript Sample -- Appendix 2 Recipe Transcriptions -- Bibliography -- List of Manuscripts -- Bamberg -- Bern -- Cambridge -- Glasgow -- Karlsruhe -- Laon -- London -- Modena -- Paris -- St Gall -- Vatican City -- Vienna -- Printed Sources -- Secondary Scholarship -- Index -- Back Cover.

Sommario/riassunto

Carolingian Medical Knowledge and Practice casts fresh light the practicality and applicability of medical knowledge recorded in early medieval manuscripts, considering not only the written record but also the skeletal remains of individuals from the period.

2. Record Nr.	UNIORUON00523088
Autore	Trendafilov, Nickolay
Titolo	Multivariate data analysis on matrix manifolds (with Manopt) / Nickolay Trendafilov, Michele Gallo
Pubbl/distr/stampa	Cham (CH), : Springer, 2021
ISBN	978-30-307-6976-5
Descrizione fisica	XX, 450 p. ; 23 cm.
Altri autori (Persone)	Gallo, Michele
Disciplina	310
Soggetti	Analisi multivariata - Metodi Analisi statistica multivariata Statistica matematica
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>This graduate-level textbook aims to give a unified presentation and solution of several commonly used techniques for multivariate data analysis (MDA). Unlike similar texts, it treats the MDA problems as optimization problems on matrix manifolds defined by the MDA model parameters, allowing them to be solved using (free) optimization software Manopt. The book includes numerous in-text examples as well as Manopt codes and software guides, which can be applied directly or used as templates for solving similar and new problems. The first two chapters provide an overview and essential background for studying MDA, giving basic information and notations. Next, it considers several sets of matrices routinely used in MDA as parameter spaces, along with their basic topological properties. A brief introduction to matrix (Riemannian) manifolds and optimization methods on them with Manopt complete the MDA prerequisite. The remaining chapters study individual MDA techniques in depth. The number of exercises complement the main text with additional information and occasionally involve open and/or challenging research questions. Suitable fields include computational statistics, data analysis, data mining and data science, as well as theoretical computer science, machine learning and optimization. It is assumed that the</p>

readers have some familiarity with MDA and some experience with matrix analysis, computing, and optimization.
