

## Special Issue

# Mathematical Models for Measuring and Improving Healthcare Quality

### Message from the Guest Editors

Quality measurement is a fundamental step in the quality improvement cycle (see [CMS](#)). In healthcare settings, quality measurement is particularly challenging due to its multidimensional nature and the inherent subjectivity of quality observations. Nonetheless, the improvement of healthcare quality is a necessary step and innovative mathematical models are needed to complete the quality improvement cycle. This issue will explore the use of mathematical models to measure and improve the quality of care provided in healthcare settings. The models may employ any mathematical approach, such as optimization, statistics, simulation, and machine learning. The application may be to any healthcare setting, including hospitals, nursing homes, physician offices, clinics, blood collection centers, and others.

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### Guest Editors

Prof. Dr. Thomas R. Sexton  
Prof. Dr. Christine Pitocco  
Dr. Herbert Lewis

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### Deadline for manuscript submissions

closed (31 December 2023)



## Healthcare

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Impact Factor 3.4  
CiteScore 5.5  
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*Healthcare*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[healthcare@mdpi.com](mailto:healthcare@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*Healthcare* is an international, peerreviewed, open access, multidisciplinary journal. Original research articles, short communications, review articles, and symposium highlights are welcomed.

*Healthcare* hopes to influence global health and disease aspects, and hopes to gain high visibility and acceptance by the scientific and healthcare community and will dedicate itself to covering special and specific topics in special issues.

We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Lorraine S. Evangelista

Sue & Bill Gross School of Nursing, University of California, Irvine, CA  
92697, USA

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