**[Name]: A Container-based Reproducible Metabolomics Data Processing Pipeline for Supercomputer**

Xinsong Du1, Luran Manfio1, Alexander Kirpich2, William Hogan1, Timothy J. Garrett3, Dominick J. Lemas1

1 Department of Health Outcomes and Biomedical Informatics, College of Medicine, University of Florida

2 Department of Population Health Sciences, School of Public Health, Georgia State University

3 Department of Pathology, Immunology and Laboratory Medicine, College of Medicine, University of Florida

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Author to whom correspondence should be addressed:

Dominick J. Lemas, Ph.D

Assistant Professor

Department of Health Outcomes and Biomedical Informatics

University of Florida College of Medicine

2004 Mowry Road- Clinical and Translational Research Building

Gainesville, FL 32608

Ph: 352-294-5971

Email: [djlemas@ufl.edu](mailto:djlemas@ufl.edu)

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**ABSTRACT**

***Background:***Febrile neutropenia (FN) has been associated with high mortality among adults with cancer. Current systems for early detection of inpatient FN mortality are based on scoring indexes that require intensive physicians’ subjective evaluation.

***Findings****:* In this study, we leveraged machine learning techniques to build a FN mortality risk evaluation tool focused on FN admissions without physicians’ subjective evaluation.

***Conclusions****:* We developed machine learning models that do not require physicians’ subjective evaluation for FN mortality risk prediction.

**1.1 Background**

**1.2 Findings**

**1.4 Methods**

**1.5 Results**

**1.5 Discussions**

**1.6 Conclusions**

**1.7 Acknowledgements**

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**1.8 Authors’ Contributions**

SC, JM, RB, XD designed the initial study protocol. WRH, DJL, SC, JM provided critical suggestions on the clinical part of study design. WRH, DJL, JM, XD provided critical suggestions on the statistical and machine learning related study design. XD wrote codes for all experiments. DJL, JM, XD double checked correctness of codes and experiment results. WRH, DJL, JM, SC, RB, XD wrote and modified the manuscript.

**1.8 Statement on conflict of interest**

The authors have no financial or personal relationships with other people or organizations that could inappropriately influence (bias) their work.

**1.9 SOURCES CITED**

**FIGURES**

**TABLES**

**SUPPLEMENTARY MATERIAL**