

Supplementary Table 7. Results Based on Deployment in CRISP-DM (N = 125)

Index	Author (Year)	Research Environment	IRB Approval Status	Deployment
A1	Marketta Hiissa et al. (2006)	Hospital	Yes	No
A2	Manabu Nii et al. (2007)	Hospital	No	No
A3	Laurence G. Moseley et al. (2008)	University	No	No
A4	Alexander Zlotnik et al. (2015)	Hospital	No	No
A5	Manabu Nii et al. (2016)	Web-based nursing care system	No	No
A6	Robert Sherwin et al. (2017)	Hospital	No	No
A7	Shinichiroh Yokota et al. (2017)	Hospital	Yes	No
A8	Jeungok Choi et al. (2018)	Community-based	No	No
A9	Stephen I. Gallant et al. (2018)	Hospital	No	No
A10	Eliezer Bose et al. (2019)	Local public health agency	Yes	No
A11	Gerald C. Gannod et al. (2019)	Nursing Homes	No	No
A12	Steven G. Johnson et al. (2018)	Health care setting	No	No
A13	Zfania Tom Korach et al. (2019)	Hospital	Yes	No
A14	Jae Yung Kwon et al. (2019)	Hospital	Yes	No
A15	Suzanne S. Sullivan et al. (2019)	Home health care setting	No	No
A16	Maxim Topaz et al. (2019)	Home health care setting	Yes	No
A17	Heather Brom et al. (2020)	Hospital	No	No
A18	Roschelle L. Fritz et al. (2020)	Smart home	No	No
A19	Christopher M. Horvat et al. (2020)	Hospital	No	Yes
A20	Renjie Hu et al. (2020)	Hospital	No	No
A21	Mireia Ladios-Martin et al. (2020)	Hospital	Yes	Yes
A22	Soo-Kyoung Lee et al. (2020)	Nursing Homes	Yes	No
A23	Chen Liang et al. (2020)	Hospital	Yes	No
A24	David S. Lindberg et al. (2020)	Hospital	Yes	No
A25	Jung In Park et al. (2020)	Hospital	No	No
A26	Maxim Topaz et al. (2020)	Home health care setting	Yes	No
A27	Dana M. Womack et al. (2020)	Hospital	Yes	No
A28	Ran An et al. (2021)	Hospital	Yes	No
A29	Linyan Chen et al. (2021)	Hospital	Yes	No
A30	Aaron Conway et al. (2021)	Hospital	Yes	No
A31	Alberto Garcés-Jiménez et al. (2021)	Nursing homes	Yes	Yes
A32	Li Hannaford et al. (2021)	College	No	No
A33	Farinaz Havaei et al. (2021)	Hospital	Yes	No
A34	Elizabeth P. Howard et al. (2021)	Home health care setting, Skilled nursing facilities, Inpatient rehabilitation facilities	No	No
A35	Mingyue Hu al. (2021)	Community-based	No	No
A36	Oleksandr Ivanov et al. (2021)	Hospital	Yes	No
A37	Liuqi Jin et al. (2021)	Hospital	No	No
A38	Jisu Kim et al. (2021)	Hospital	Yes	No
A39	Soo-Kyoung Lee et al. (2021)	Nursing Homes	Yes	No
A40	Chia-Hui Liu et al. (2021)	Hospital	Yes	No
A41	Tamara G. R. Macieira et al. (2021)	Hospital	No	No
A42	Takuro Nagata et al. (2021)	Long-term medical facility	Yes	No
A43	Gojiro Nakagami et al. (2021)	Hospital	Yes	No
A44	Wenyu Song et al. (2021)	Hospital	Yes	No

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Index	Author (Year)	Research Environment	IRB Approval Status	Deployment
A45	Rumei Yang et al. (2021)	Community-based	Yes	No
A46	Huaqiong Zhou et al. (2021)	Hospital	Yes	No
A47	Yanhong Dong et al. (2022)	Hospital	Yes	No
A48	Farinaz Havaei et al. (2022)	Hospital	Yes	No
A49	Tingting Hu et al. (2022)	Hospital	Yes	No
A50	Shuai Jin et al. (2022)	Hospital	Yes	No
A51	Mireia Ladios-Martin et al. (2022)	Hospital	Yes	No
A52	Young Ji Lee et al. (2022)	Online	Yes	No
A53	Anup Kumar Mishra et al. (2022)	Aging-in-Place facility	Yes	No
A54	Kyoung Ja Moon et al. (2022)	Long-term care facilities	Yes	Yes
A55	Nikhil Padhye et al. (2022)	Nursing facility	Yes	No
A56	Dongni Qian et al. (2022)	Hospital	Yes	No
A57	Javier Rojo et al. (2022)	Social and healthcare centers	No	No
A58	Jiyoun Song et al. (2022)	Home health care setting	Yes	No
A59	Tobias R. Spiller et al. (2022)	Hospital	Yes	No
A60	Katie Walker et al. (2022)	Hospital	Yes	No
A61	Melyana Nurul Widyawati et al. (2022)	Community Health Centers	Yes	No
A62	Jie Xu et al. (2022)	Hospital	Yes	No
A63	Olga Yakusheva et al. (2022)	Hospital	Yes	No
A64	Ayla İrem Aydın et al. (2023)	Hospital	Yes	No
A65	Rui CHEN et al. (2023)	Hospital	No	No
A66	Ya-Huei Chen et al. (2023)	Hospital	Yes	No
A67	Pei-Yu Dai et al. (2023)	Hospital	Yes	No
A68	Odai Y. Dweekat et al. (2023)	Hospital	Yes	Yes
A69	Juliet Edgcomb et al. (2023)	Hospital	Yes	No
A70	Ajeet Gajra et al. (2023)	Center for Cancer and Blood Disorders	No	Yes
A71	Farinaz Havaei et al. (2023)	Hospital, Healthcare facilities	Yes	No
A72	Sharon Hewner et al. (2023)	Health care setting	No	No
A73	Sunho Im et al. (2023)	Hospital	Yes	No
A74	Junglyun Kim et al. (2023)	Community-based	Yes	No
A75	Seong-Kwang Kim et al. (2023)	Hospital	Yes	No
A76	Hyungbok Lee et al. (2023)	Hospital	Yes	No
A77	Hyungbok Lee et al. (2023)	Hospital	Yes	No
A78	Lin-Lin Lee et al. (2023)	Hospital	Yes	No
A79	Lingjuan Li et al. (2023)	Hospital	Yes	No
A80	Pei-Hung Liao et al. (2023)	Home-based	Yes	No
A81	Sarah R. Martha et al. (2023)	Hospital	Yes	No
A82	Aruna Jothi Shanmugam et al. (2023)	University	Yes	No
A83	Araceli Rodríguez Vico et al. (2023)	Hospital	Yes	No
A84	Zeping Yan et al. (2023)	Hospital	Yes	No
A85	Metin Yildiz et al. (2023)	Hospital	Yes	No
A86	Ying Zhou et al. (2023)	Hospital	Yes	No
A87	Maryam Zolnoori et al. (2023)	Home health care setting	Yes	No
A88	Young-Taek Park et al. (2024)	Hospital	Yes	No
A89	Cynthia ABI KHALIL et al. (2024)	Hospital	No	No
A90	Yaser ALQARRAIN et al. (2024)	Hospital	Yes	No

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Index	Author (Year)	Research Environment	IRB Approval Status	Deployment
A91	Komal Aryal et al. (2024)	Nursing Homes	Yes	No
A92	Ranjana Chavan et al. (2024)	College	No	No
A93	Xiaomei Chen et al. (2024)	Hospital	Yes	No
A94	Colum Crowe et al. (2024)	Hospital	Yes	No
A95	Tian Dai et al. (2024)	Hospital	Yes	No
A96	Martha Duarte et al. (2024)	Primary care clinics	No	No
A97	Yu-Fang Guo et al. (2024)	Hospital	Yes	No
A98	Rui Jin et al. (2024)	Community-based	No	No
A99	Arisa Kawashima et al. (2024)	Cancer center, Hospital	Yes	No
A100	Yeonju Kim et al. (2024)	Hospital	No	No
A101	Ju Hee Lee et al. (2024)	Hospital	Yes	No
A102	Pin-Chieh Lee et al. (2024)	Hospital	Yes	No
A103	Renee C. B. Manworren et al. (2024)	Hospital	Yes	No
A104	Ninon Girardon da Rosa et al. (2024)	Hospital	Yes	No
A105	Jihye Kim Scroggins et al. (2024)	Home health care setting	Yes	No
A106	Lu Shao et al. (2024)	Nursing Homes	Yes	No
A107	Madeleine Stanik et al. (2024)	Skilled nursing facilities	Yes	No
A108	Imam Tahyudin et al. (2024)	Hospital	No	Yes
A109	Metin Yıldız et al. (2024)	Hospital	Yes	No
A110	Cheng Yu et al. (2024)	Hospital	Yes	No
A111	Wei Zhang et al. (2024)	Community-based	Yes	No
A112	Maryam Zolnoori et al. (2024)	Home health care setting	Yes	No
A113	Yunping Zhang et al. (2022)	Nursing homes	Yes	No
A114	Goran Erfani et al. (2024)	Health care setting	Yes	No
A115	Tae Youn Kim et al. (2006)	Hospitals	Yes	No
A116	In Sook Cho et al. (2011)	Hospital	Yes	No
A117	Yoko Setoguchi et al. (2016)	Hospital	No	No
A118	Mikyung Moon et al. (2017)	Long-term care facilities	Yes	No
A119	Pacharmon Kaewprag et al. (2017)	Hospital	Yes	No
A120	Xiaohong Deng et al. (2017)	Hospital	No	No
A121	Hong-Lin Chen et al. (2018)	Hospital	Yes	No
A122	Hsiu-Lan Li et al. (2019)	Hospital	Yes	No
A123	Seul Ki Park (2020)	Hospital	Yes	No
A124	Sookyung Hyun et al. (2021)	Hospital	Yes	No
A125	Ji-Yu CAI et al. (2021)	Hospital	Yes	No

ANN: Artificial Neural Network; AU-PRC: Area Under the Precision-Recall Curve; AUC-ROC: Area Under the Receiver Operating Characteristic Curve; C-statistic: Concordance Statistic; CN2 Rule Inducer: A rule-based machine learning algorithm for classification; DT: Decision Tree; DT-CHAID: Decision Tree using CHAID (Chi-squared Automatic Interaction Detection); ELMs: Extreme Learning Machines; FPR: False Positive Rate; GBM: Gradient Boosting Machine; GLM-Elastic Net regularization: Generalized Linear Model with Elastic Net regularization; ICC: Intraclass Correlation Coefficient; JMIM: Joint Mutual Information Maximization; K-means: Clustering algorithm that partitions data into k clusters; LDA: Latent Dirichlet allocation; LEM2: Learning from Examples Module, version 2; LR: Logistic Regression; LR (L1): Logistic Regression with L1 regularization; LS-SVM: Least Squares Support Vector Machine; M5P tree: M5P regression tree (model tree algorithm for regression); MAE: Mean Absolute Error; MCC: Matthews Correlation Coefficient; MSE: Mean Squared Error; NB: Naive Bayes; NI: No Information; NPV: Negative Predictive Value; PLS Regression: Partial Least Squares Regression; PPV: Positive Predictive Value; PRC: Precision-Recall Curve; Q2(cum): Cumulative Predictive Ability; R2X(cum): Cumulative Explained Variance for X Variables; R2Y(cum): Cumulative Explained Variance for Y Variables; RF: Random Forest; RFE: Recursive Feature Elimination; SHAP: Shapley additive explanations; SOMs: Self-Organizing Maps; SVM: Support Vector Machine; SVM-RBF kernel: Support Vector Machine with Radial Basis Function kernel; XGBoost: Extreme Gradient Boosting.