Reference List of

Ventilator Weaning Assistant System (VWAS)

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Team Name: VWAS

Xu Shi, Xiaoyang Xia, Xingdan Wang, Kunming Zhu, Chen Hu, Manfred Chan
xshi307@gatech.edu, xxia44@gatech.edu, xwang3010@gatech.edu,

kzhu81@gatech.edu, chu93@gatech.edu, mchan83@gatech.edu

Project: Ventilator Weaning Assistant System

1. Boles, J.-M., Bion, J., Connors, A., Herridge, M., Marsh, B., Melot, C., Pearl, R., Silverman, H., Stanchina, M., Vieillard-Baron, A., & Welte, T. (2007). Weaning from mechanical ventilation. European Respiratory Journal, 29(5), 1033–1056. https://doi.org/10.1183/09031936.00010206

2. Chang, Y.-J., Hung, K.-C., Wang, L.-K., Yu, C.-H., Chen, C.-K., Tay, H.-T., Wang, J.-J., & Liu, C.-F. (2021). A Real-Time Artificial Intelligence-Assisted System to Predict Weaning from Ventilator Immediately after Lung Resection Surgery. International Journal of Environmental Research and Public Health, 18(5), 2713. https://doi.org/10.3390/ijerph18052713

3. Google Colaboratory. (n.d.). Retrieved March 20, 2021, from https://colab.research.google.com/notebooks/intro.ipynb

4. Hsieh, M. H., Hsieh, M. J., Cheng, A.-C., Chen, C.-M., Hsieh, C.-C., Chao, C.-M., Lai, C.-C., Cheng, K.-C., & Chou, W. (2019). Predicting weaning difficulty for planned extubation patients with an artificial neural network. Medicine, 98(40). https://doi.org/10.1097/MD.0000000000017392

5. Krishnan, J., Moore, D., Robeson, C., Rand, C. S., & Fessler, H. E. (2004). A Prospective, Controlled Trial of a Protocol-based Strategy to Discontinue Mechanical Ventilation | American Journal of Respiratory and Critical Care Medicine. 169, 673–678.

6. Mokhlesi, B., Tulaimat, A., Gluckman, T. J., Wang, Y., Evans, A. T., & Corbridge, T. C. (2007). Predicting extubation failure after successful

completion of a spontaneous breathing trial. Respiratory Care, 52(12), 1710–1717.

7. Navalesi, P., Frigerio, P., Moretti, M. P., Sommariva, M., Vesconi, S., Baiardi, P., & Levati, A. (2008). Rate of reintubation in mechanically ventilated neurosurgical and neurologic patients: Evaluation of a systematic approach to weaning and extubation. Critical Care Medicine, 36(11), 2986–2992. https://doi.org/10.1097/CCM.0b013e31818b35f2

8. NumPy. (n.d.). Retrieved March 20, 2021, from https://numpy.org/

9. Pal, S. (2018, November 15). Scikit-learn Tutorial: Machine Learning in Python. Dataquest. https://www.dataquest.io/blog/sci-kit-learn-tutorial/

10. Peñuelas, O., Frutos-Vivar, F., Fernández, C., Anzueto, A., Epstein, S. K., Apezteguía, C., González, M., Nin, N., Raymondos, K., Tomicic, V., Desmery, P., Arabi, Y., Pelosi, P., Kuiper, M., Jibaja, M., Matamis, D., Ferguson, N. D., & Esteban, A. (2011). Characteristics and Outcomes of Ventilated Patients According to Time to Liberation from Mechanical Ventilation. American Journal of Respiratory and Critical Care Medicine, 184(4), 430–437. https://doi.org/10.1164/rccm.201011-1887OC

11. Qian, S.-Z., Hong, W., Lingjie-mao, Chenfeng-lin, Zhendong-fang, & Pan, J.-Y. (2020). Clinical Characteristics and Outcomes of Severe and Critical Patients With 2019 Novel Coronavirus Disease (COVID-19) in Wenzhou: A Retrospective Study. Frontiers in Medicine, 7. https://doi.org/10.3389/fmed.2020.552002

12. The Web framework for perfectionists with deadlines | Django. (n.d.). Retrieved March 21, 2021, from https://www.djangoproject.com/

13. Thille, A. W., Harrois, A., Schortgen, F., Brun-Buisson, C., & Brochard, L. (2011). Outcomes of extubation failure in medical intensive care unit patients*. Critical Care Medicine, 39(12), 2612–2618. https://doi.org/10.1097/CCM.0b013e3182282a5a

14. Welcome to Flask—Flask Documentation (1.1.x). (n.d.). Retrieved March 21, 2021, from https://flask.palletsprojects.com/en/1.1.x/

15. Welcome to Python.org. (n.d.). Python.Org. Retrieved March 20, 2021, from https://www.python.org/about/

16. Yang, H., Hsu, J., Chen, Y., Jiang, X., & Chen, T. (2008). Using support vector machine to construct a predictive model for clinical decision-making of ventilation weaning. 2008 IEEE International Joint Conference on Neural Networks (IEEE World Congress on Computational Intelligence), 3981–3986. https://doi.org/10.1109/IJCNN.2008.4634370