

Did you know clinical data shows BCV™ can reduce COPD exacerbations, hospitalization rates and medical costs?



Three studies between 2010 and 2018 support that BCV™ is an effective treatment option for those with COPD.

Oxygen desaturation in COPD patients during a 6-minute walk test is associated with increased mortality rates. One study found desaturated and non-desaturated COPD patients using negative pressure ventilation, which can be provided through BCV™'s CNEP option, saw a 8 year survival rate of 63% and 84%, respectively. While desaturated and non-desaturated Control subjects had a 52% and 66% survival rate. (1)

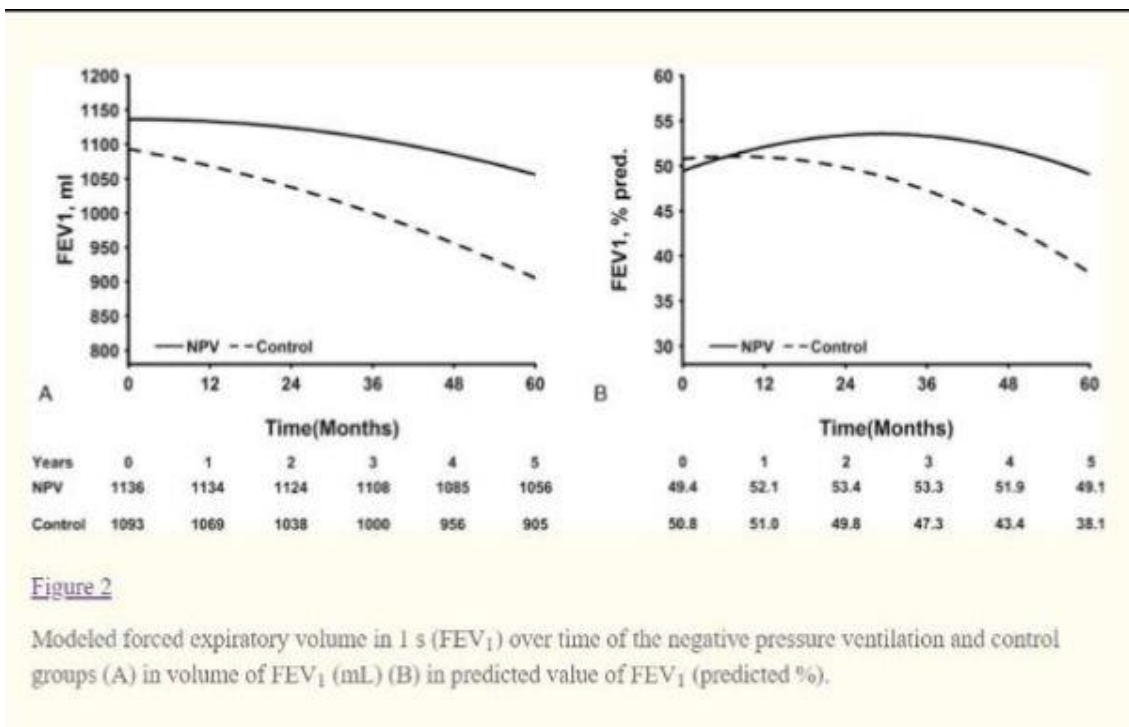
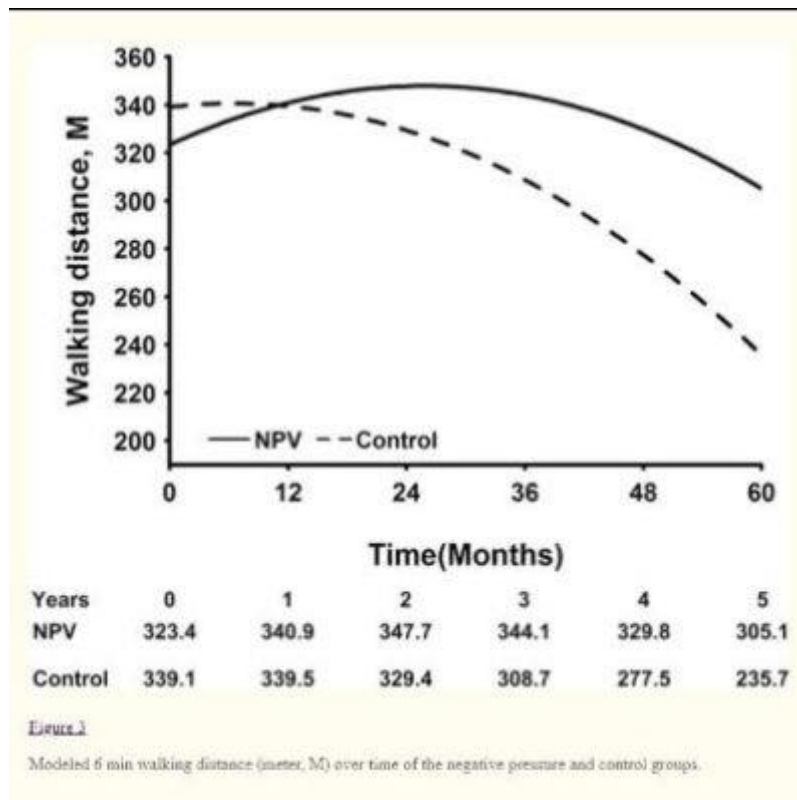


Figure 2

Modeled forced expiratory volume in 1 s (FEV_1) over time of the negative pressure ventilation and control groups (A) in volume of FEV_1 (mL) (B) in predicted value of FEV_1 (predicted %).



Images from Huang, Hung-Yu, et al. "Pulmonary Rehabilitation Coupled with Negative Pressure Ventilation Decreases Decline in Lung Function, Hospitalizations, and Medical Cost in COPD." *Medicine*, vol. 95, no. 41, 2016, doi:10.1097/md.00000000000005119.

In a 2016 study, it showed that COPD patients receiving pulmonary rehab (PR) accompanied by BCV™ "had reduced risk of severe exacerbations needing ER visit by 66% and hospitalization by 54%." (2)

Overall, it found "that maintenance PR coupled with BCV™ could reduce the yearly decline of lung function, improve walking distance, and reduce exacerbation and hospitalization rates and medical costs in patients with COPD during a 5-year observation." (3)

Further research also suggests that BCV™ improves both respiratory and circulatory function of those with pulmonary hypertension secondary to chronic pulmonary diseases. (4)

BCV™ – Good for the lungs. Good for the heart.

****Medical Disclaimer****

The content provided in Hayek Medical's email campaigns, social media posts and website are for informative purposes only and are not intended to serve as a substitute for the consultation, diagnosis, and/or medical treatment of a qualified physician or healthcare provider.

Work Cited: 1. Huang, Hung Yu, et al. "Noninvasive Negative Pressure Ventilation Improves Survival of COPD Patients with Exercise Desaturation." *Clinical Problems*, 2018, doi:10.1183/13993003.congress-2018.pa3347.

2, 3. Huang, Hung-Yu, et al. "Pulmonary Rehabilitation Coupled with Negative Pressure Ventilation Decreases Decline in Lung Function, Hospitalizations, and Medical Cost in COPD." *Medicine*, vol. 95, no. 41, 2016, doi:10.1097/md.0000000000005119.

4. Yoko, Sato, et al. "Biphasic Cuirass Ventilation Improves Respiratory And Circulatory Functions In Patients With Secondary Pulmonary Hypertension Due To Chronic Pulmonary Disease." *ATSJournal*. May, 2018.