SPIRIT figure showing time points for enrollment, interventions and assessment. *Basic characteristics include demographic information collection, pulmonary function assessed by spirometry, dyspnea assessed by the Modified Medical Research Council Dyspnea Scale. *Global
cognitive function will be assessed by Montreal Cognitive Assessment (MoCA) and auditory event-related potential P300. *Specific cognitive function includes attention function assessed by Attention subtest of MoCA, memory function assessed by Rivermead Behavioral Memory Test-II, executive function assessed by Trail Making Test, verbal fluency assessed by Verbal Fluency Test, and processing speed assessed by Digit Symbol Coding. *Psychological functions will be assessed by Hamilton Anxiety and Depression scale. *Quality of Life will be assessed by St. George's Respiratory Questionnaire. *Inflammatory mediators include Interleukin-6, Interleukin-8, Tumor necrosis factor-α, C-reactive protein, and brain-derived neurotrophic factor.