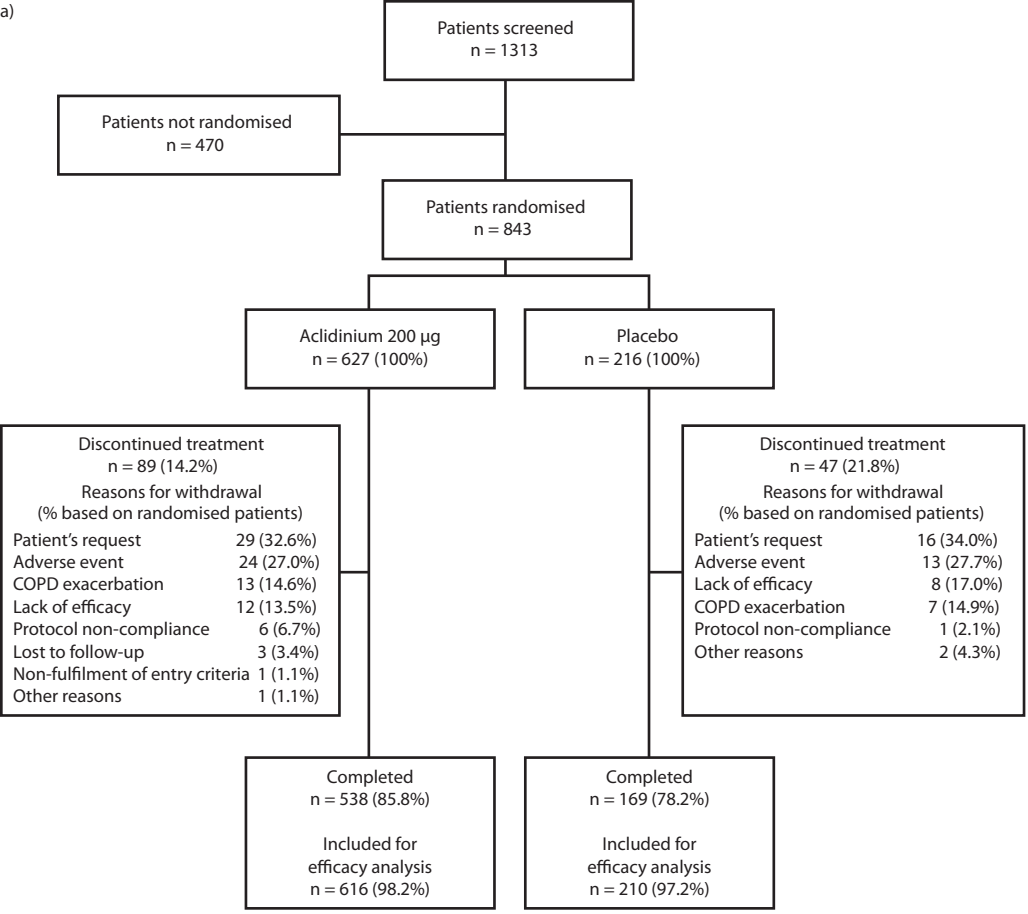
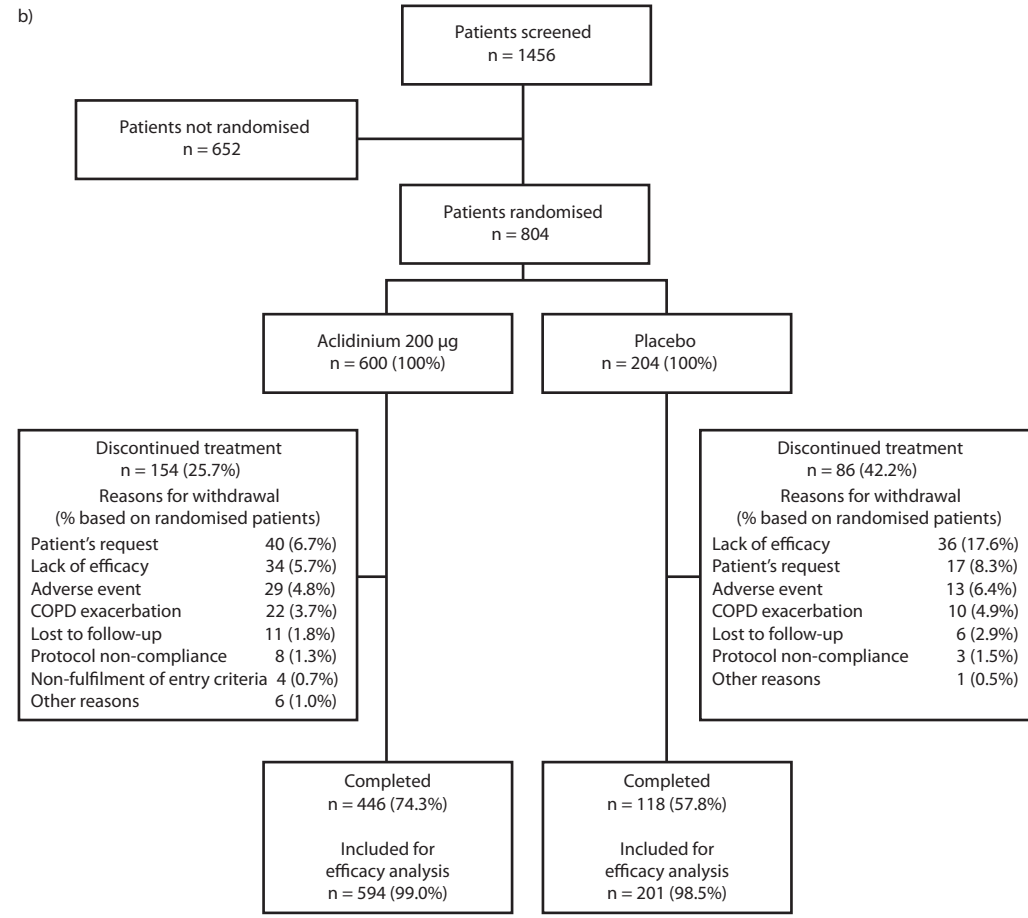
a)




b)




COPD: chronic obstructive pulmonary disease.