

## Appendix 1

### Full inclusion and exclusion criteria of NETT

#### *Inclusion criteria*

- ❖ History and physical examination consistent with emphysema.
- ❖ CT scan evidence of bilateral emphysema.
- ❖ Completed 6 to 10 weeks of supervised pulmonary rehabilitation.
- ❖ BMI <31 males, <32 female.
- ❖ FEV1 <45%.
- ❖ PaCO<sub>2</sub> <60 mmHg.
- ❖ PAo<sub>2</sub> >45 mmHg.
- ❖ 6MWT >140 m.
- ❖ No smoking for at least 4 months before initial screening.

#### *Exclusion criteria*

- ❖ CT evidence of diffuse emphysema judged unsuitable for LVRS.
- ❖ Previous LVRS.
- ❖ Pleural or interstitial disease that precludes surgery.
- ❖ Giant bulla (≥one third of lung volume).
- ❖ Clinically significant bronchiectasis.
- ❖ Pulmonary nodule requiring surgery.
- ❖ Previous sternotomy or lobectomy.
- ❖ Myocardial infarction within 6 months of interview and ejection fraction <45%.

- ❖ CHF within 6 months and EF <45%.
- ❖ Uncontrolled hypertension.
- ❖ Pulmonary hypertension mean P<sub>PA</sub> on RHC ≥35 mmHg or peak systolic P<sub>PA</sub> 45 mmHg.
- ❖ Unplanned, unexplained weight loss >10% usual weight within 90 days.
- ❖ History of recurrent infections with daily sputum production judged significant.
- ❖ Daily use of ≥20 mg of prednisolone.
- ❖ History of exercise induced syncope.
- ❖ Resting bradycardia <50 bpm, frequent multifocal PVC's, complex ventricular arrhythmia or sustained SVT.
- ❖ Cardiac dysrhythmia that poses a risk to the patient during exercise or training.
- ❖ Oxygen requirement during resting or oxygen titration >6 L/min to keep sats ≥90%.
- ❖ Evidence of systemic disease or neoplasia that is expected to compromise survival.
- ❖ Any disease or condition that may interfere with completion of tests, therapy or follow up.
- ❖ 6MWD ≤140 m post rehabilitation.
- ❖ Inability to complete successful any of the screening or baseline data.
- ❖ High risk patients were excluded including FEV1 <20% and either homogenous emphysema or a carbon monoxide diffusing capacity that was 20% below predicted.