

Eucapnic voluntary hyperventilation

3x Measurement of FEV1:
highest value = baseline value → Calculation of MVV

↓
Hyperventilation of dry air mixture containing 5% CO₂
for six minutes at $\geq 65\%$ of MVV

↓
Measurement of FEV1 immediately after hyperventilation

↓
Measurement of FEV 1: 5 min after hyperventilation

↓
Measurement of FEV 1: 10 min after hyperventilation

↓
Measurement of FEV 1: 15 min after hyperventilation

↓
Measurement of FEV 1: 20 min after hyperventilation

**Positive test:
Fall in FEV1 $\geq 10\%$
to baseline**

Mannitol Challenge Test

Inhalation of dry mannitol powder

Mannitol 0 mg → Measurement of FEV 1 = baseline value

← Mannitol 5 mg → Measurement of FEV1

← Mannitol 10 mg → Measurement of FEV1

← Mannitol 15 mg → Measurement of FEV1

← Mannitol 20 mg → Measurement of FEV1

← Mannitol 40 mg → Measurement of FEV1

← Mannitol 80 mg → Measurement of FEV1

← Mannitol 160 mg → Measurement of FEV1

← Mannitol 160 mg → Measurement of FEV1

← Mannitol 160 mg → Measurement of FEV1

**Positive test:
Fall in FEV1 $\geq 10\%$
to baseline**