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LIST OF ABBREVATIONS

Symbol	Abbreviation
AAT	Alpha-1 antitrypsin
ATS	American thoracic society
BAL	Bronchoalveolar lavage
BMD	Bone mineral density
BMI	Body mass index
BTS	British thoracic society
CD	Cluster of differentiation
COPD	Chronic obstructive pulmonary disease
CT	Computed tomography
CTGF	Collagen tissue growth factor
CXCR	CXC chemokine receptors
DALYS	Disability-Adjusted LifeYears
DEXA	Dual energy X-ray absorptiometry
ECG	Electrocardiography
EGFR	Epidermal growth factor receptor
ERS	European respiratory society
ETS	Environmental tobacco smoke
FEF	Forced expiratory flow
FEV1	Forced expiratory volume in first second
FFM	Fat-free mass
fig	Figure
FM	Fat mass
FVC	Forced vital capacity
GOLD	Global initiative for chronic obstructive lung disease
GRO	Growth related onchogen
HIV	Human immunodeficiency virus
HRCT	High resolution computed tomography
HS	Highly significant
IGF-1	Insulin like growth factor-1
IGFBP	Insulin like growth factor binding protein
IL	Interleukine
JVP	Jagular venous pressure
Kg	Kilogramm
KPa	Kilo Pascal
LT	Leukotrien
MDI	Metered dose inhaler
mEPHX	Microsomal Epoxide Hydrolase
Mg	Milligram
ml	Milliliter
mm	Millimeter
mm Hg	Millimeter mercury

MMP	Matrix metalloproteinase
mRNA	Messenger ribonucleic acid
NHANES	National health and nutrition examination survey
NO	Nitric oxide
no	Number
NS	Non-significant
O2	Oxygen
PaCO2	Partial arterial carbon dioxide pressure
Pao2	Partial arterial oxygen pressure
PEFR	Peak expiratory flow rate
PICP	Procollagen type I carboxyl terminal propeptide
ROS	Reactive oxygen species
S	Significant
SDs	Standard deviations
SVC	Slow vital capacity
SLPI	Secretory leukoproteinase inhibitor
tab	table
TCTP	Type I collagen carboxyl terminal telopeptide
TGF	Transforming growth factor
TNF	Tumor necrosis factor
UK	United Kingdom
VA/Q	Ventilation –Perfusion ratio
WHO	World health organisation
Yrs	Years