

## Validation of the COPD Assessment Test (CAT) as an Outcome Measure in Bronchiectasis

*Simon Finch, MBChB; Irena F. Laska, MBBS; Hani Abo-Leyah, MBChB; Thomas C. Fardon, MD; and James D. Chalmers, MBChB, PhD*

CHEST 2020; 157(4):815-823

*Online supplements are not copyedited prior to posting and the author(s) take full responsibility for the accuracy of all data.*

© 2019 AMERICAN COLLEGE OF CHEST PHYSICIANS. Reproduction of this article is prohibited without written permission from the American College of Chest Physicians. See online for more details. DOI: 10.1016/j.chest.2019.10.030

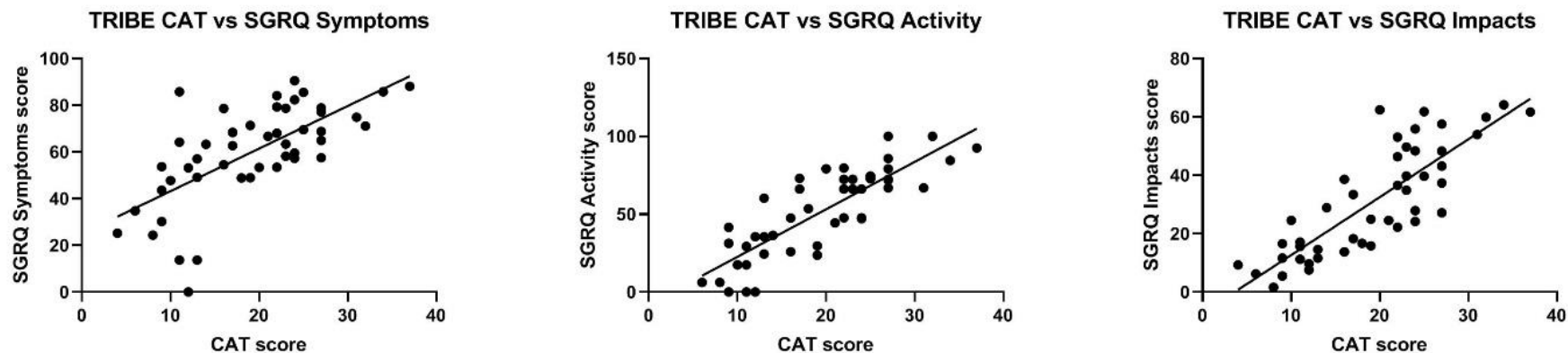
**e-Table 1. Characteristics of the patients in the TRIBE cohort**

<b>Variable</b>	<b>N (%) or median (IQR)</b>
N	48
Age (years)	68 (63-72)
Sex (% female)	31 (64.6%)
FEV <sub>1</sub> L	1.80 (1.19-2.11)
FEV <sub>1</sub> % predicted	81.5 (53.3-102.0)
FVC L	2.76 (2.25-3.74)
6 minute walk distance (m)	432.5 (333.8-496.8)
Exacerbations per year	3 (1-4)
<b>Smoking status</b>	
Never	31 (64.6%)
History of smoking	17 (35.4%)
<b>BSI</b>	
Mild	9 (18.7%)
Moderate	27 (56.3%)
Severe	12 (25.0%)
<b>Chronic infection status</b>	
<i>Haemophilus influenzae</i>	18 (37.5%)
<i>Pseudomonas aeruginosa</i>	6 (12.5%)
<i>Moraxella catarrhalis</i>	3 (6.3%)
<i>Staphylococcus aureus</i>	2 (4.2%)
<i>Enterobacteriaceae</i>	4 (8.3%)
No organism isolated at baseline	15 (31.3%)
<b>Quality of life/symptom scores</b>	
CAT score	21 (12-25)
SGRQ score	42.5 (27.6-56.9)

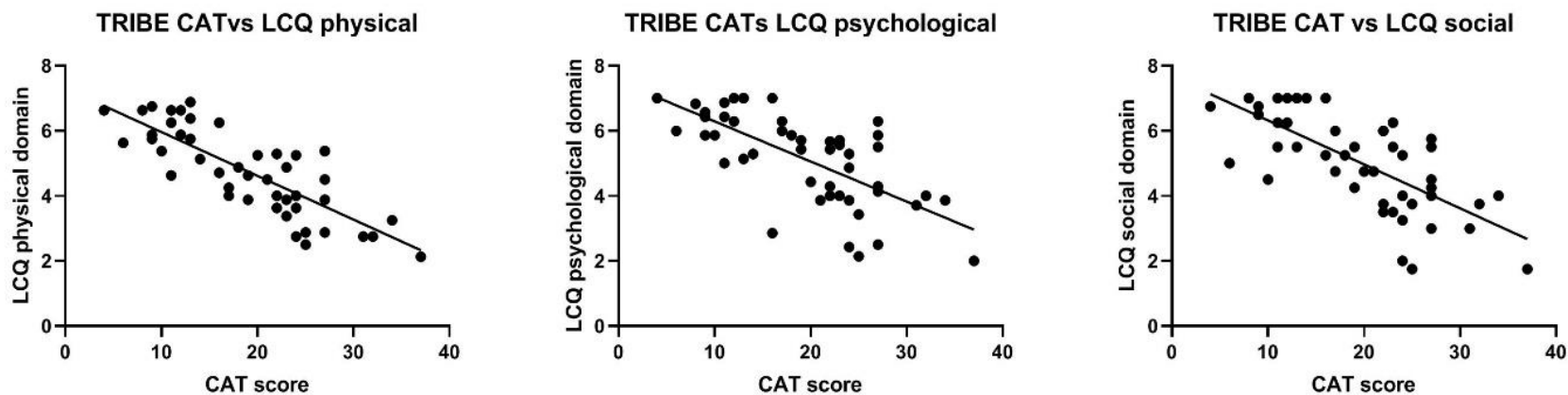
**e-Table 2. Baseline characteristics of the validation cohort.**

<b>Variable</b>	<b>N (%) or median (IQR)</b>
N	83
Age (years)	71 (67-78)
Sex (% female)	45 (54.2%)
FEV <sub>1</sub> L	1.26 (0.89-1.67)
FEV <sub>1</sub> % predicted	52 (43-62%)
FVC L	2.56 (1.96-3.19)
Sputum volume (ml/day)	20 (5-50)
Exacerbations per year	2 (0-3)
Hospitalised in the previous year	22 (26.5%)
<b>Smoking status</b>	
Never smoker	61 (73.5%)
History of smoking	22 (26.5%)
<b>BSI</b>	
Mild	12 (14.5%)
Moderate	24 (28.9%)
Severe	47 (56.6%)
<b>Chronic infection status</b>	
<i>Haemophilus influenzae</i>	28 (33.7%)
<i>Pseudomonas aeruginosa</i>	15 (18.1%)
<i>Moraxella catarrhalis</i>	7 (8.4%)
<i>Staphylococcus aureus</i>	6 (7.2%)
<i>Enterobacteriaceae</i>	10 (12.0%)
No organism isolated at baseline	17 (20.5%)
<b>Quality of life scores</b>	
QOL-B score	54 (40.7-66.6)
CAT score	22 (17-27)

**e-Figure 1. Comparison of CAT score with SGRQ component scores.**



**e-Figure 2. Linear regression of the CAT score with LCQ domains (physical, psychological and social). P<0.0001 for all relationships.**



**e-Figure 3. Bland Altman plot examining two CAT measurements four weeks apart while clinically stable.**

