Supplementary

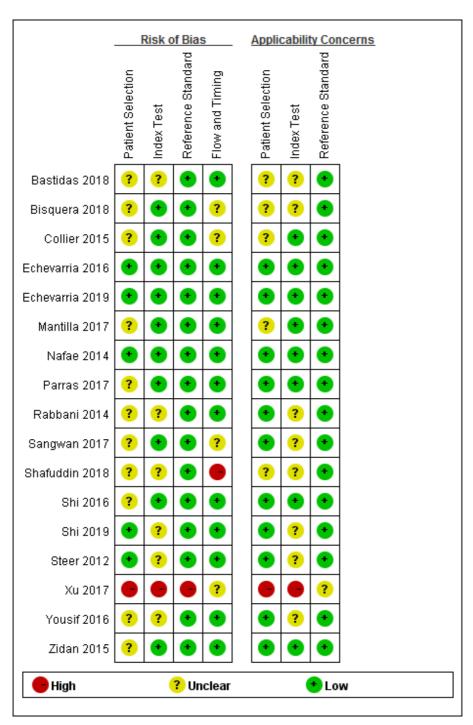


Figure S1: The quality evaluation and risk of bias in included studies.

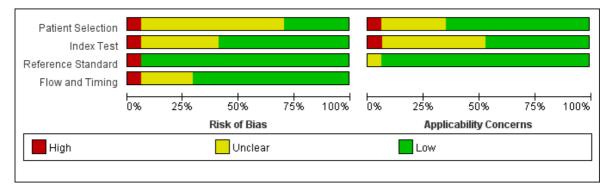


Figure S2: Methodological quality graph in included studies.

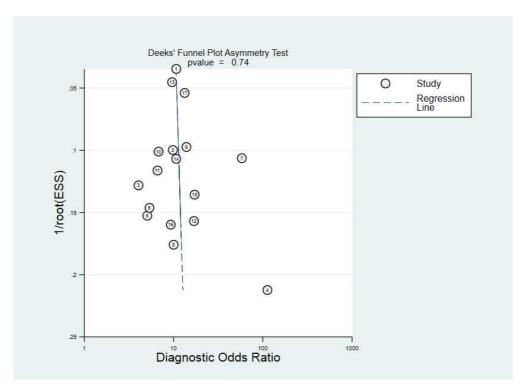


Figure S3: Deek's funnel plot asymmetry test for publication bias of studies evaluating the value of DECAF for the prognosis of AECOPD

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Search Strategies

1. Pubmed

2. The Cochrane Library

- #1 MeSH descriptor: [undefined] explode all trees
- #2 (Chronic Obstructive Lung Disease):ti,ab,kw
- #3 (Chronic Obstructive Pulmonary Disease):ti,ab,kw
- #4 (COPD):ti,ab,kw
- #5 (COAD):ti,ab,kw
- #6 (Chronic Obstructive Airway Disease):ti,ab,kw
- #7 (Airflow Obstruction, Chronic):ti,ab,kw
- #8 (Chronic Airflow Obstruction):ti,ab,kw
- #9 (Airflow Obstructions, Chronic):ti,ab,kw
- #10 (Chronic Airflow Obstructions):ti,ab,kw
- #11 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10
- #12 MeSH descriptor: [Lung Diseases, Obstructive] explode all trees
- #13 (Pulmonary Disease, Obstructive):ti,ab,kw
- #14 (Obstructive Pulmonary Diseases):ti,ab,kw
- #15 (Obstructive Lung Diseases):ti,ab,kw
- #16 (Obstructive Lung Disease):ti,ab,kw
- #17 (Lung Disease, Obstructive):ti,ab,kw
- #18 (Pulmonary Diseases, Obstructive):ti,ab,kw
- #19 (Obstructive Pulmonary Disease):ti,ab,kw
- #20 #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19
- #21 MeSH descriptor: [Pulmonary Emphysema] explode all trees
- #22 (Emphysema, Centrilobular):ti,ab,kw
- #23 (Centrilobular Emphysema):ti,ab,kw
- #24 (Emphysemas, Pulmonary):ti,ab,kw
- #25 (Emphysema, Pulmonary):ti,ab,kw
- #26 (Pulmonary Emphysemas):ti,ab,kw
- #27 (Emphysema, Panlobular):ti,ab,kw

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#28 (Panlobular Emphysema):ti,ab,kw
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- #29 (Focal Emphysema):ti,ab,kw
- #30 (Emphysema, Focal):ti,ab,kw
- #31 #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30
- #32 MeSH descriptor: [Bronchitis, Chronic] explode all trees
- #33 (Chronic Bronchitis):ti,ab,kw
- #34 #32 or #33
- #35 #11 or #20 or #31 or #34
- #36 MeSH descriptor: [Pulmonary Disease, Chronic Obstructive] explode all trees
- #37 #35 or #36
- #38 (DECAF):ti,ab,kw
- #39 (DECAF score):ti,ab,kw
- #40 #38 or #39
- #41 #37 and #40

3. Web of Science (WOS)

1 TOPIC: (Pulmonary Disease, Chronic Obstructive) OR TOPIC: (COPD) OR TOPIC: (Chronic Obstructive Pulmonary Disease) OR TOPIC: (COAD) OR TOPIC: (Chronic Obstructive Airway Disease) OR TOPIC: (Chronic Obstructive Lung Disease) OR TOPIC: (Airflow Obstruction, Chronic) OR TOPIC: (Airflow Obstructions, Chronic) OR TOPIC: (Chronic Airflow Obstructions) OR TOPIC: (Chronic Airflow Obstruction) OR TOPIC: (Lung Diseases, Obstructive) OR TOPIC: (Lung Disease) OR TOPIC: (Obstructive Lung Disease) OR TOPIC: (Obstructive Pulmonary Disease) OR TOPIC: (Obstructive Pulmonary Disease) OR TOPIC: (Pulmonary Disease, Obstructive) OR TOPIC: (Pulmonary Disease, Obstructive) OR TOPIC: (Pulmonary Disease) OR TOPIC: (Chronic Bronchitis) OR TOPIC: (Pulmonary Emphysema) OR TOPIC: (Emphysema)

#2 TOPIC: (DECAF) OR TOPIC: (DECAF score) OR TOPIC: (decaf score)

#3 #2 AND #1

4. Embase

- #5 #3 AND #4
- #4 decaf:ab,ti OR 'decaf score':ab,ti
- #3 #1 OR #2
- #2 'chronic airflow obstruction':ab,ti OR 'chronic airway obstruction':ab,ti OR 'chronic obstructive bronchopulmonary disease':ab,ti OR 'chronic obstructive bronchopulmonary disease':ab,ti OR 'chronic obstructive pulmonary disease':ab,ti OR 'chronic obstructive pulmonary disease':ab,ti OR copd:ab,ti OR 'lung chronic obstructive disease':ab,ti OR 'lung disease, chronic obstructive':ab,ti OR 'lung disease, chronic obstructive':ab,ti OR 'lung disease':ab,ti OR 'obstructive lung disease':ab,ti OR 'obstructive pulmonary disease':ab,ti OR 'obstructive respiratory disease':ab,ti OR 'obstructive respiratory disease':ab,ti OR 'pulmonary disease':ab,ti OR 'pulmonary disease, chronic obstructive':ab,ti OR 'pulmonary disease':ab,ti OR 'pulmonary disease'.ab,ti OR 'pulmonary

obstructive':ab,ti

#1 'chronic obstructive lung disease'/exp