INTRODUCTION

Review question / Objective: Since the development of risk prediction models, many more prediction models for IPF have been built with more complex statistical learning algorithms have been published. The Transparent Reporting of a multivariable prediction model for Individual Prognosis Or Diagnosis (TRIPOD) statement was published in 2015 in response to the rapid growth of clinical prediction models as well as the incomplete reporting of model development validation studies. The aim of the study is to evaluate the quality of risk prediction models for idiopathic pulmonary fibrosis.

Condition being studied: We have developed a clear implementation procedure. First, we will systematically search electronic database to search risk models for IPF, and reference of all included article were assessed for relevant articles to ensure the comprehensiveness of the search; Second, we carried out basic data extraction of the included studies. Third, the TRIPOD statement was applied to analysis the reporting quality of IPF production models.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 24 November 2020 and was last updated on 24 November 2020 (registration number INPLASY2020110105).
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METHODS

Search strategy: We performed a systematic literature search of PubMed, Embase, and Web of Science from January 1, 2015 to November 2, 2020 to search risk models for IPF. The database search strategy combined the following terms: Nomograms, ROC Curve, Clinical prediction, Prognostic score, Net reclassification index, Calibration; Idiopathic pulmonary fibrosis, Pulmonary fibroses, idiopathic.

Participant or population: Patients with idiopathic pulmonary fibrosis.

Intervention: None.

Comparator: None.

Study designs to be included: The diagnosis or prognostic multivariable prediction models of idiopathic pulmonary fibrosis.

Eligibility criteria: Studies should predict diagnosis or prognosis of idiopathic pulmonary fibrosis.


Main outcome(s): The report quality of risk prediction models of IPF.

Data management: Using Microsoft Excel to manage data.

Quality assessment / Risk of bias analysis: Assessment the report quality of idiopathic pulmonary fibrosis models based on Transparent Reporting of a multivariable prediction model for Individual Prognosis or Diagnosis (TRIPOD) statement.

Strategy of data synthesis: Calculate the Kappa value of internal consistency with SPSS.

Subgroup analysis: None.

Sensibility analysis: None.

Language: English.

Country(ies) involved: China.

Keywords: TRIPOD; Prediction model; Idiopathic pulmonary fibrosis; Development; Validation.

Contributions of each author:
Author 1 - Jiaqi Di.
Author 2 - Xuanlin Li.
Author 3 - Jingjing Yang.
Author 4 - Luguang Li.
Author 5 - Xueqing Yu.