



- Safety, Tolerability and Pharmacokinetics of BI 1015550 in Healthy Adult Males American Thoracic Society (ATS) International Conference May 13-18, 2022
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# Safety, tolerability and pharmacokinetics of BI 1015550 in healthy adult males

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## INTRODUCTION

- There is an unmet need for additional treatments for patients with idiopathic pulmonary fibrosis.<sup>1</sup>
- BI 1015550 is an oral preferential inhibitor of PDE4B that has shown anti-inflammatory and antifibrotic effects in preclinical studies.<sup>2</sup>

## AIM

• To investigate the safety, tolerability and pharmacokinetics of single (SRD) and multiple (MRD) rising doses of BI 1015550 in healthy males.

# METHODS

- This was a Phase I trial with a partially randomized, parallel-group design (NCT03230487) conducted between August 2017 and January 2018 in Mannheim, Germany.
- Healthy males aged 18–45 years received BI 1015550 or placebo:
- as a single dose of 36 mg or 48 mg under fasted conditions (SRD part, single-blind); or
- BID at a dose of 6 mg or 12 mg under fed conditions over 14 days\* (MRD part, double-blind).
- Participants were partially randomized within each dose group.
- The first block of each dose group was treated in a fixed sequence, whereas the other block was randomized in a 2:1 ratio reflecting the ratio of subjects receiving BI 1015550 to placebo.
- The primary endpoint was the number of participants with drug-related AEs.
- Secondary endpoints were pharmacokinetic parameters.

## CONCLUSIONS

- All AEs were mild or moderate in intensity, providing preliminary evidence that BI 1015550 has an acceptable safety and tolerability profile in healthy adult males.
- Based on the results from this trial, a Phase Ic trial investigated the safety, tolerability and pharmacokinetics of BI 1015550 in patients with IPF: see ATS P5220.

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## REFERENCES

. Sisson TH, et al. Physiol Rep 2018; 6:e13753;



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## ABBREVIATIONS

AE, adverse event; AUC, area under the curve; BID, twice daily; BMI, body mass index; IPF, idiopathic pulmonary fibrosis; MRD, multiple rising dose; PDE4B, phosphodiesterase 4B; SD, standard deviation; SRD, single rising dose. \*Participants were treated over 14 days and received a single morning dose on Day 1, followed by 11 days of treatment (i.e. 6 mg BID, 12 mg BID or matching placebo on Days 3 to 13), and a single morning dose on Day 14. No treatments were administered on Day 2 to allow 34-hour pharmacokinetic sampling after a single dose.

## DISCLOSURES

CS, DL, and CC are employees of Boehringer Ingelheim International GmbH. AS is an employee of Clinical Research Services Mannheim GmbH.

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