

primary studies - published RCT

## Clinical impact of vitamin D treatment in cystic fibrosis: a pilot randomized, controlled trial.

Code: PM27966575

Year: 2016 Date: 2020

Author: Pincikova T

### Study design (if review, criteria of inclusion for studies)

This randomized, double-blind, placebo-controlled Phase 3 study

### Participants

AB - BACKGROUND: Tezacaftor/ivacaftor is a CFTR modulator approved to treat people with cystic fibrosis (pwCF) who are homozygous (F/F) or heterozygous for the F508del-CFTR mutation and a residual function mutation (F/RF).

### Interventions

Participants were randomized 1:1 to receive tezacaftor/ivacaftor or placebo for 12 weeks.

### Outcome measures

The primary endpoint was the absolute change from baseline in percent predicted forced expiratory volume in 1 second (ppFEV(1)) between the tezacaftor/ivacaftor and placebo groups through week 12. Key secondary endpoints included absolute change from baseline in CF Questionnaire-Revised respiratory domain scores and the number of pulmonary exacerbations through week 12 and the absolute change from baseline in body mass index at week 12.

### Main results

At the time of the IA, 83 participants were randomized to tezacaftor/ivacaftor and 85 to placebo; 165 participants completed treatment. The study failed to demonstrate that tezacaftor/ivacaftor significantly improved ppFEV(1) or any of the key secondary endpoints and was terminated for futility. The safety profile and PK parameters of tezacaftor/ivacaftor were similar to those reported in prior studies in participants  $\geq$ 12 years of age with CF.

### Authors' conclusions

Tezacaftor/ivacaftor did not show a clinically meaningful benefit in participants with F/MF genotypes but was generally safe and well tolerated, consistent with the safety profile reported in other Phase 3 studies

<http://dx.doi.org/10.1038/ejcn.2016.259>

### See also

Eur J Clin Nutr. 2016 Dec 14. doi: 10.1038/ejcn.2016.259.

### Keywords

Adult; Aged; CFTR Modulators; Genetic Predisposition to Disease; pharmacological\_intervention; placebo; VX-770; VX-661; ivacaftor; Aminophenols; tezacaftor; Symdeko; Symkevi;