CORRESPONDENCE

Il Buono, Il Brutto, Il Cattivo

We appreciate the constructive commentary by Dr Paul Corris and colleagues that highlights the merits and limitations of our manuscript. A recent editorial from Dr Vincent Cottin requested that clinical trials, in the setting of pulmonary fibrosis (PF)-associated pulmonary hypertension (PH), should first be conducted in subjects with disproportionate elevation of pulmonary vascular resistance as compared to the severity of pulmonary fibrosis...in whom PH likely contributes the most to exercise limitation and morbidity.

In this spirit, the purpose of our study is to emphasise the inclusion of a specific, although less common PF-PH phenotype (excluding sarcoidosis and scleroderma) with advanced pulmonary haemodynamics and right heart dysfunction. Indeed, the severity of our cohort's baseline haemodynamics (mean mPA 47 mm Hg) represents only 5% of the PF-PH population. Importantly, the treatment variable in this study was the addition of parenteral treprostinil to either naïve patients or those on stable background PH-targeted therapy. As such, we chose to focus on the complexities of this therapy in the setting of this advanced PF-PH phenotype and attempt to physiologically explain the positive effects (haemodynamic and echocardiographic markers of RV dysfunction) seen, and those negative (systemic oxygenation) not seen.

The Newcastle group correctly emphasised the lack of treatment benefit of bosentan (BUILD-3) and ambrisentan (ARTEMIS-IPF) in the treatment of idiopathic pulmonary fibrosis. However, these studies specifically excluded PH. Moreover, the BUILD-3 and ARTEMIS-IPF studies were completed while our study was actively enrolling. Finally, until recently, there have been no studies evaluating the treatment effect of PH-targeted therapy in patients with PF associated with advanced pulmonary haemodynamics and right heart dysfunction.

The limitations of this manuscript were addressed and included the use of variable background PH-targeted therapy. The posthoc analysis conducted by our colleagues, albeit small numbers and inherently problematic, highlights this limitation. However, and most critically, the central premise of this manuscript remains simply that the advanced PF-PH phenotype may be particularly receptive to PH-targeted therapy, and this PF-PH subset ought to be considered in future clinical studies. As importantly, any analysis into the specific PH-targeted therapies employed (ie, specific combinations or prostanoid-based regimens), while perhaps hypothesis-generating, appears premature, and was deliberately de-emphasised in this manuscript.

The good, the bad, and the ugly (il buono, il brutto, il cattivo) was a 1966 Italian spaghetti Western film that revolutionised cinematography. Similarly, we hope the results (good, bad and ugly) of this small, but important study in 2014, will set the stage for the design of a future clinical trial that hopefully revolutionises the management of patients with PH-PH.

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