for transfusion in our clinical setting. The benefit of using the lactate level and ScvO2 to initiate and guide early resuscitation, including transfusion, in patients with septic shock may be questioned after the results of recent randomized trials. As compared with the high-quality data from these trials, the results of any post hoc subgroup analyses that we may do are less valid.

Gordillo-Escobar et al. speculate that the age of blood and storage lesion could bias the results of our trial. Transfusion practice in patients with septic shock was not based on the age of blood at the TRISS trial sites. These factors may be important, and data from ongoing randomized trials will help us to understand whether the age of blood affects the outcome of critically ill patients (Standard Issue Transfusion versus Fresher Red Blood Cell Use in Intensive Care [TRANSFUSE] trial [ClinicalTrials.gov number, NCT01638416] and the Age of Blood Evaluation [ABLE] trial [Current Controlled Trials number, ISRCTN44878718]).

Inhaled Glucocorticoids and COPD Exacerbations

TO THE EDITOR: In the Withdrawal of Inhaled Steroids during Optimized Bronchodilator Management (WISDOM) study, Magnussen et al. (Oct. 2 issue) report that the withdrawal of inhaled glucocorticoids had no significant effect on exacerbations in patients with severe chronic obstructive pulmonary disease (COPD), a finding that prompted them to cast doubts about the use of these drugs in such patients. We are concerned about this conclusion because the follow-up of less than 1 year was probably not long enough to assess exacerbations, given that such events occur with an average frequency of 1.3 to 2 per year. In addition, there was a definite trend toward an increase in severe exacerbations after glucocorticoid withdrawal (P=0.08), which we think conveys an important warning. Perhaps, patients with stage 3 disease (according to the Global Initiative for Chronic Obstructive Lung Disease [GOLD] criteria) should be analyzed separately from those with stage 4 disease to see whether they have different responses. The most worrisome findings were the significant dose- and time-dependent loss of forced expiratory volume in 1 second (FEV1) and deterioration in quality of life after the withdrawal of inhaled corticosteroids.

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No potential conflict of interest relevant to this letter was reported.


DOI: 10.1056/NEJMc143308

TO THE EDITOR: Magnussen and colleagues report that stepwise withdrawal of inhaled glucocorticoids had no adverse effect on exacerbation frequency in patients with severe COPD. The decision to exclude from this study patients with no...
TO THE EDITOR: We are concerned that a readily identifiable subgroup of patients with COPD who participated in the WISDOM study were put at risk when their inhaled glucocorticoid was withdrawn. Sputum evidence of eosinophilic airway inflammation is present in 20 to 30% of patients with COPD during stable periods and acute exacerbations. These patients have a good short-term and long-term response to glucocorticoids, and a raised blood eosinophil count has been shown to be a good biomarker of this pattern of airway inflammation. An increased peripheral-blood eosinophil count is associated with an increased risk of death from COPD and with a better response to oral prednisolone in patients with a moderate or severe exacerbation. Patients with a raised blood or sputum eosinophil count may therefore have a poor response to the withdrawal of inhaled glucocorticoids. The authors measured full blood counts and sputum inflammatory-cell counts in a subgroup of patients. We suggest that assessing the outcome of inhaled glucocorticoid withdrawal in patients who are stratified according to the baseline blood or sputum eosinophil count is an important priority.

THE AUTHORS REPLY: Cosio et al. are concerned that our study follow-up may not have been long enough to assess an increased risk of exacerbations because of a low annual frequency of such events. Our study was powered to show noninferiority on the basis of an estimated number of exacerbations because of a low annual frequency of such events. These patients have a good short-term and long-term response to glucocorticoids, and a raised blood eosinophil count has been shown to be a good biomarker of this pattern of airway inflammation. An increased peripheral-blood eosinophil count is associated with an increased risk of death from COPD and with a better response to oral prednisolone in patients with a moderate or severe exacerbation. Patients with a raised blood or sputum eosinophil count may therefore have a poor response to the withdrawal of inhaled glucocorticoids. The authors measured full blood counts and sputum inflammatory-cell counts in a subgroup of patients. We suggest that assessing the outcome of inhaled glucocorticoid withdrawal in patients who are stratified according to the baseline blood or sputum eosinophil count is an important priority.

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Dr. Bafadhel reports receiving grants from Novartis, Roche, GlaxoSmithKline, MedImmune, AstraZeneca, and Chiesi and through his institution receiving consulting fees from Novartis, Roche, GlaxoSmithKline, MedImmune, AstraZeneca, Almirall, Boehringer Ingelheim, and Chiesi; Dr. Pavord, receiving personal fees from GlaxoSmithKline, AstraZeneca, Novartis, Boehringer Ingelheim, and Aerocrine; and Dr. Bafadhel, receiving travel fees from Almirall, Boehringer Ingelheim, and GlaxoSmithKline. No other potential conflict of interest relevant to this letter was reported.


DOI: 10.1056/NEJMc1413308
To the Editor:

De Bruyne et al. (Sept. 25 issue)\(^1\) conclude that the high rate of death within 7 days after randomization in the percutaneous coronary intervention (PCI) group in their study was due to benign periprocedural infarctions, but there were more myocardial infarctions in the medical-therapy group after the initial 7 days following randomization. However, after 7 days, there were more revascularizations in the medical-therapy group; this suggests that there were more periprocedural infarctions.\(^2\) Thus, the high rate of myocardial infarctions after the initial 7 days following randomization in the medical-therapy group could also be caused by the same benign periprocedural infarctions, since there was no difference in overall mortality.\(^2\) Unfortunately, the percentage of late myocardial infarctions caused by periprocedural infarctions was not reported.

Singanayagam et al. point out that we included only patients receiving maintenance therapy with inhaled glucocorticoids who had a history of exacerbation in the previous year. This reflects current treatment recommendations. In the recent Indacaterol: Switching Nonexacerbating Patients with Moderate COPD from Salmeterol/Fluticasone to Indacaterol (INSTEAD) trial involving patients with moderate COPD who had no exacerbations during the previous year, switching patients from a combination of a long-acting β-agonist (LABA) and an inhaled glucocorticoid to an ultra-long-acting LABA did not increase the exacerbation rate during 26 weeks of treatment.\(^3\) We agree that clinicians prescribe inhaled glucocorticoids because they see value in their use, but there may be reasons other than the prevention of exacerbations for this practice, such as the convenience of combination inhalers.\(^2\)

Brightling et al. suggest that we stratify our results according to the baseline blood eosinophil count. A major objective of the WISDOM trial was to identify a subgroup of patients who have a response to inhaled glucocorticoids,\(^3\) but so far we have not been able to identify a responsive phenotype on the basis of data from our prespecified subgroups.

Furthermore, the primary outcome in this study was driven mainly by urgent revascularization, which could have been confounded by the open-label nature of the study. Since patients in the medical-therapy group knew that they had untreated stenosis, they were more likely to report symptoms.\(^3\) Coupled with bias from treating physicians, this would lead to a higher incidence of hospitalization, cardiac catheterization, and ultimately revascularization.\(^4\) Therefore, a double-blind, controlled trial is required to determine the true effect of fractional flow reserve–guided PCI on urgent revascularization.\(^5\)

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No potential conflict of interest relevant to this letter was reported.

Fractional Flow Reserve–Guided PCI

To the Editor: De Bruyne et al. (Sept. 25 issue)\(^1\) conclude that the high rate of death within 7 days after randomization in the percutaneous coronary intervention (PCI) group in their study was due to benign periprocedural infarctions, but there were more myocardial infarctions in the medical-therapy group after the initial 7 days following randomization. However, after 7 days, there were more revascularizations in the medical-therapy group; this suggests that there were more periprocedural infarctions.\(^2\) Thus, the high rate of myocardial infarctions after the initial 7 days following randomization in the medical-therapy group could also be caused by the same benign periprocedural infarctions, since there was no difference in overall mortality.\(^2\) Unfortunately, the percentage of late myocardial infarctions caused by periprocedural infarctions was not reported.

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