Cardiac Surgery for Infective Endocarditis, Complicated by Septic Cardioembolic Stroke
Jeroen Schouten, Alexander Bindels, Peter Pickkers and Hans G. van der Hoeven

Stroke. 2007;38:e31; originally published online April 19, 2007;
doi: 10.1161/STROKEAHA.106.475848
Stroke is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231
Copyright © 2007 American Heart Association, Inc. All rights reserved.
Print ISSN: 0039-2499. Online ISSN: 1524-4628

The online version of this article, along with updated information and services, is located on the
World Wide Web at:
http://stroke.ahajournals.org/content/38/6/e31

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published
in Stroke can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office.
Once the online version of the published article for which permission is being requested is located, click
Request Permissions in the middle column of the Web page under Services. Further information about this
process is available in the Permissions and Rights Question and Answer document.

Reprints: Information about reprints can be found online at:
http://www.lww.com/reprints

Subscriptions: Information about subscribing to Stroke is online at:
http://stroke.ahajournals.org/subscriptions/
Letters to the Editor

Cardiac Surgery for Infective Endocarditis, Complicated by Septic Cardioembolic Stroke

To the Editor:

We would like to comment on the recent article written by Dr Ruttmann et al on neurological outcome of cardiac surgery for infective endocarditis complicated by septic cardioembolic stroke.1 We congratulate the authors on their extensive and thorough research, which demonstrates that early surgical intervention appears to be safer than was previously thought. There is, nonetheless, an important question that remains unanswered, and we hope the authors will be able to respond.

In our view, the results of the study of Ruttmann do not answer the question whether surgery is always indicated in patients with infective endocarditis complicated by cerebral embolism. Performing cardiac surgery in every patient with infective endocarditis with an episode of cerebral embolism but without cardiac failure is—in many countries—not the first choice of therapy and is certainly not supported by a lot of evidence.2 Moreover, in their introduction, Dr Ruttmann et al state that the risk of septic cerebral embolism affecting the course of infective endocarditis is ~40% and the recurrence rate is >50% and even up to 80% in patients with a short duration of clinical symptoms.1

In the referenced study3 performed in 288 patients, in 17.4% of the patients the clinical course was complicated by one and in 20.2% by recurrent embolism of which 71% was cerebral. To our knowledge, this study in 288 patients is the only one that retrospectively compares surgical (n=22) and nonsurgical (n=27) treatment in patients with recurrent cerebral embolism during infective endocarditis. Because less than half of the patients was operated on in this study, it appears plausible that also in the hospital of Dr Ruttmann not every patient with cerebral embolism during infective endocarditis was operated on during the study period 1985 to 2004. The clinical course of this nonsurgical patient group is not reported. It is of evident clinical importance to compare outcomes between patients who were operated purely on the indication of cerebral embolism (rather than cardiac failure) and those who were treated conservatively with antibiotic and supportive therapy. We wonder whether the authors could provide us with data about this nonsurgical group and possibly compare the outcome of these patients with the operated study group.

Thus, with the study of Ruttmann, it has become more clear that when a decision is made to operate, early surgery is safe. However, additional data of nonoperated patients could help to answer the essential question of whether the patient should be operated on or not.

Disclosures

None.

Jeroen Schouten, MD, PhD
Department of Intensive Care
University College of London Hospital
London, UK

Alexander Bindels, MD, PhD
Department of Intensive Care
Catharina Hospital
Eindhoven, The Netherlands

Peter Pickkers, MD, PhD
Hans G. van der Hoeven, MD, PhD
Department of Intensive Care
Radboud University Nijmegen Medical Centre
Nijmegen, The Netherlands

