

Recherche en Imagerie Médicale

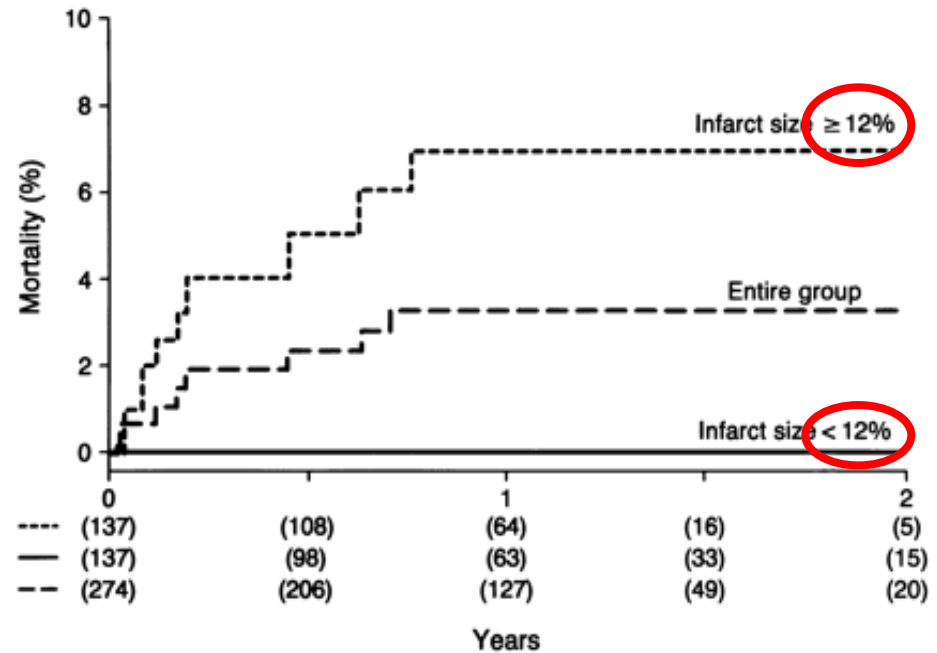
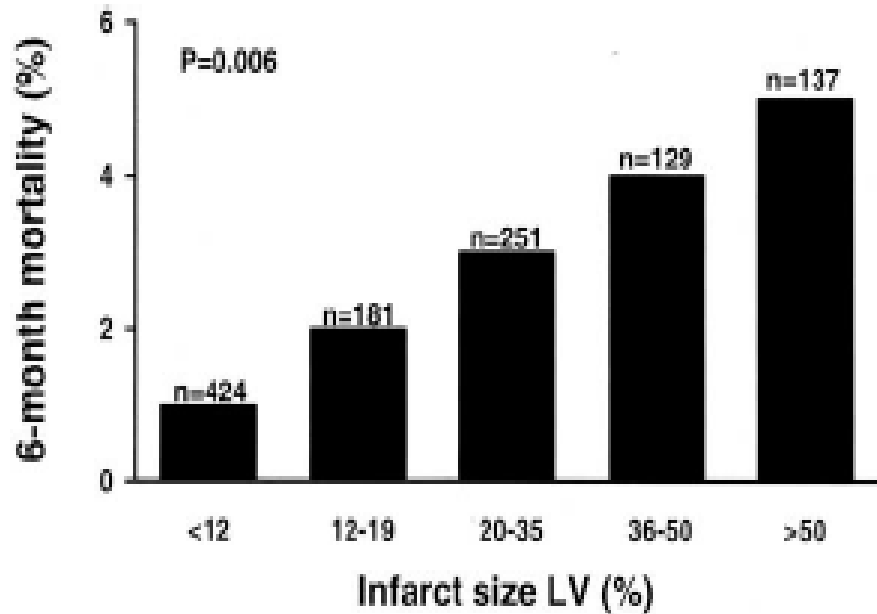
- Une recherche qui s'imagine au lit du malade
- Une recherche qui se construit au laboratoire multidisciplinaire
- Une recherche dont les délivrables doivent bénéficier au patient

« FROM BEDSIDE to BENCH and back to BEDSIDE »

L'infarctus du Myocarde et sa taille

- Une histoire qui paraît simple
- Un problème qui à une longue histoire
- Un sujet de recherche pour quelques années
- Un transfert à la recherche clinique 25 ans après

La taille de l'infarctus est le déterminant de la mortalité



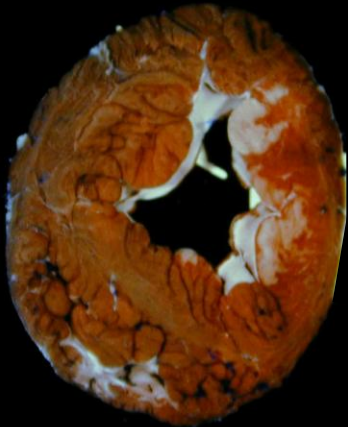
Gibbons et al. JACC 2004;44:1533-1542

Miller et al. Circulation. 1995;92:334-341

By courtesy of M.Ovize

La taille de l'infarctus

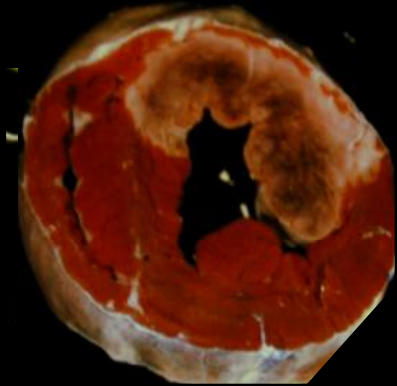
40 min occlusion



90 min occlusion



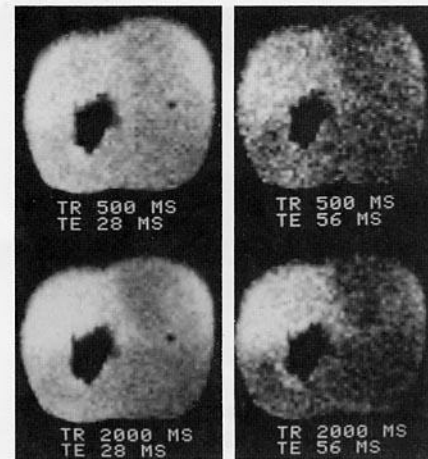
180 min occlusion



MAGNETIC RESONANCE

Michael T. McNamara, M.D.
Charles B. Higgins, M.D.
Richard L. Ehman, M.D.
Didier Revel, M.D.
Richard Sievers, B.S.
Robert C. Brasch, M.D.

Acute Myocardial Ischemia: Magnetic Resonance Contrast Enhancement with Gadolinium- DTPA¹



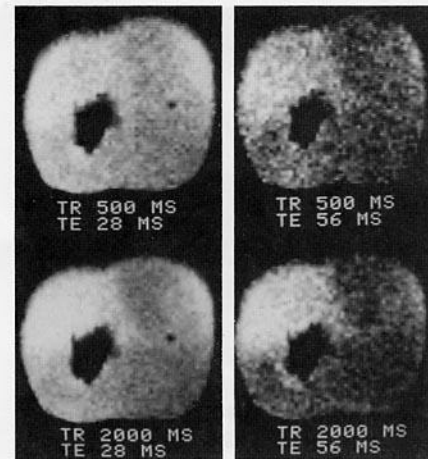
Cross-sectional spin-echo images through the mid-portion of the left ventricle of a dog that received Gd-DTPA one minute after acute occlusion of the left anterior descending coronary artery. The TR and TE imaging parameters are shown with each image. The ischemic anterior wall of the left ventricle appears as a high-intensity region due to negative enhancement of adjacent normal myocardium by Gd-DTPA. Contrast between normal and ischemic myocardium is greatest on the SE 2000/56 image (lower right).

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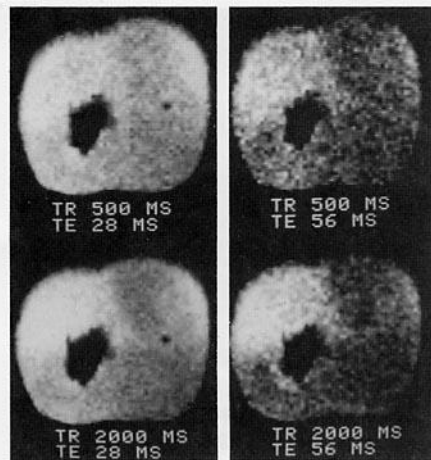
Radiology 1984



Cross-sectional spin-echo images through the mid-portion of the left ventricle of a dog that received Gd-DTPA one minute after acute occlusion of the left anterior descending coronary artery. The TR and TE imaging parameters are shown with each image. The ischemic anterior wall of the left ventricle appears as a high-intensity region due to negative enhancement of adjacent normal myocardium by Gd-DTPA. Contrast between normal and ischemic myocardium is greatest on the SE 2000/56 image (lower right).

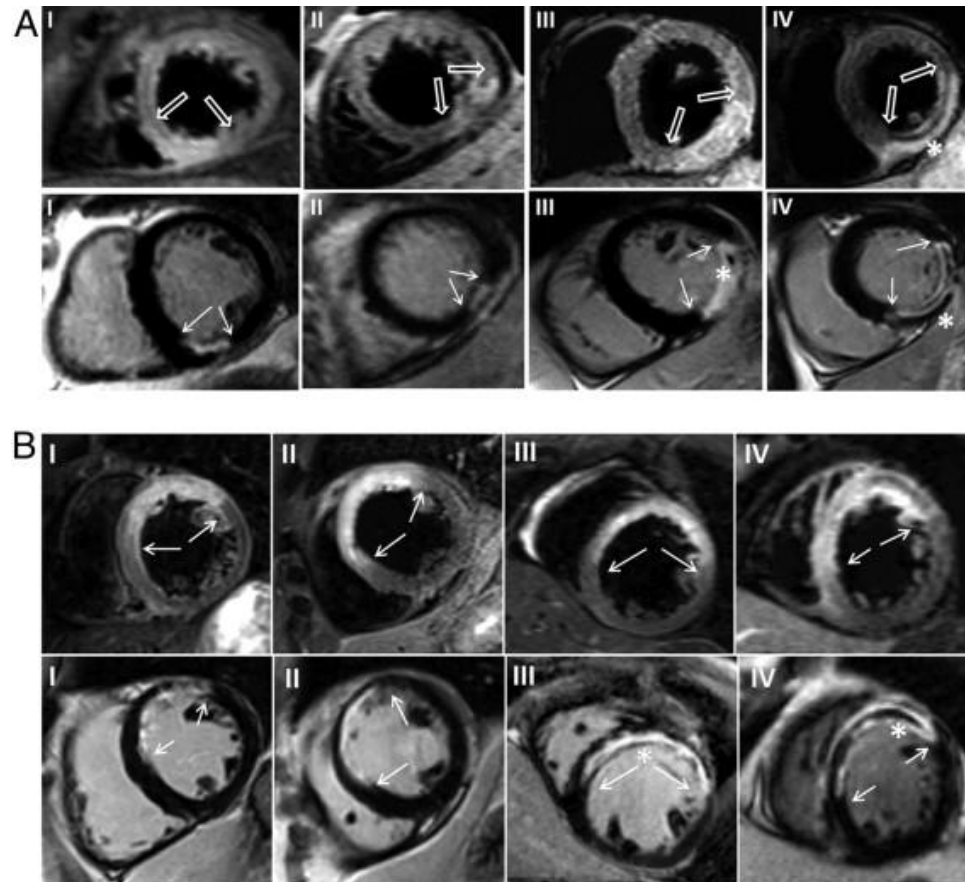
Ces 25 dernières années

1984



Cross-sectional spin-echo images through the mid-portion of the left ventricle of a dog that received Gd-DTPA one minute after acute occlusion of the left anterior descending coronary artery. The TR and TE imaging parameters are shown with each image. The ischemic anterior wall of the left ventricle appears as a high-intensity region due to negative enhancement of adjacent normal myocardium by Gd-DTPA. Contrast between normal and ischemic myocardium is greatest on the SE 2000/56 image (lower right).

2010



Remerciements à Pierre Croisille

The NEW ENGLAND JOURNAL of MEDICINE

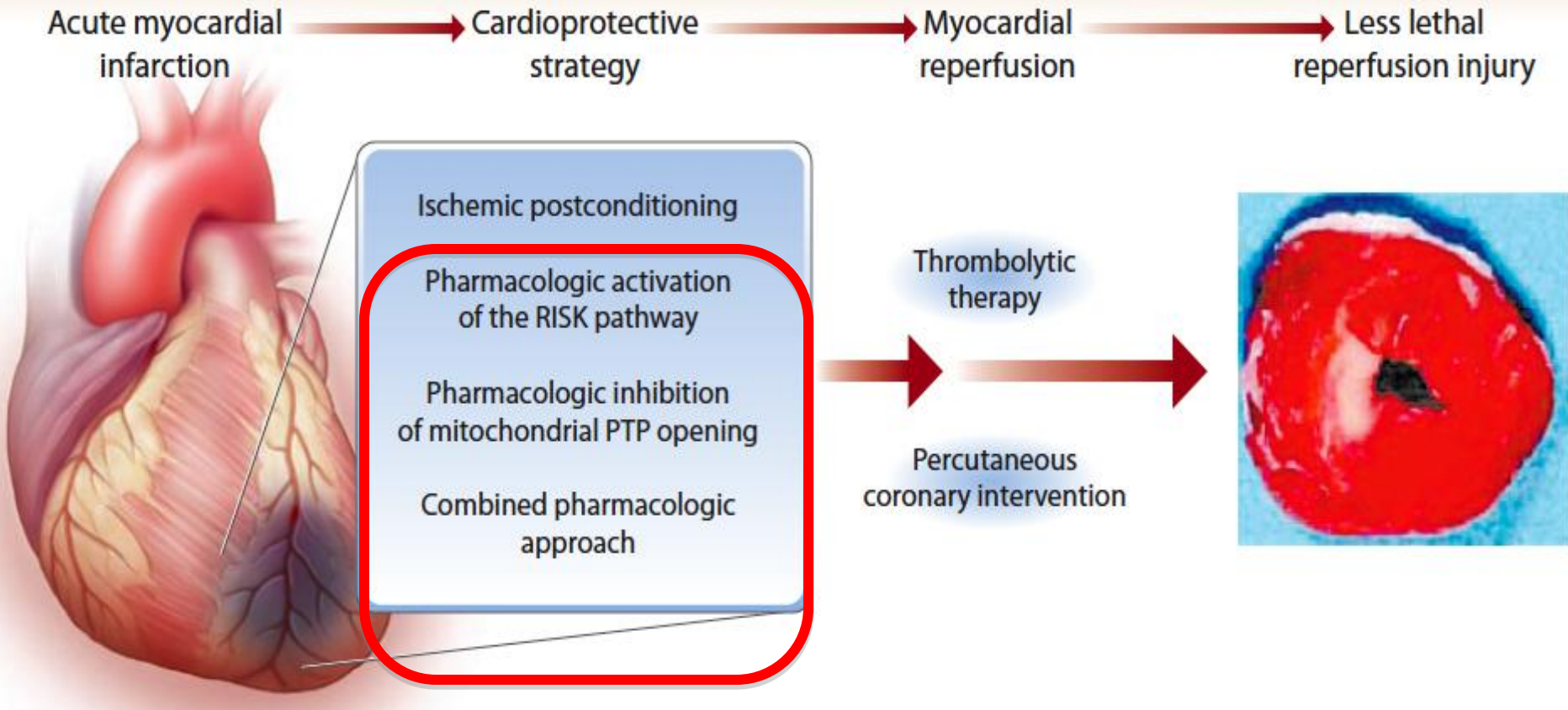
ORIGINAL ARTICLE

Effect of Cyclosporine on Reperfusion Injury in Acute Myocardial Infarction

Christophe Piot, M.D., Ph.D., Pierre Croisille, M.D., Patrick Staat, M.D.,
Hélène Thibault, M.D., Gilles Rioufol, M.D., Ph.D., Nathan Newton, M.D.,
Rachid Elbelghiti, M.D., Thien Tri Cung, M.D., Eric Bonnefoy, M.D., Ph.D.,
Denis Angoulvant, M.D., Christophe Macia, M.D., Franck Raczka, M.D.,
Catherine Sportouch, M.D., Gerald Gahide, M.D., Gérard Finet, M.D., Ph.D.,
Xavier André-Fouët, M.D., Didier Revel, M.D., Ph.D.,
Gilbert Kirkorian, M.D., Ph.D., Jean-Pierre Monassier, M.D.,
Geneviève Derumeaux, M.D., Ph.D., and Michel Ovize, M.D., Ph.D.

ABSTRACT

Cibles Thérapeutiques au cours du post infarctus aigu



(Yellon et al. NEJM, 2007)