

## MÉCANISMES PHYSIOPATHOLOGIQUES ET CONSÉQUENCES DES CALCIFICATIONS CARDIOVASCULAIRES

### Cardiovascular Research

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# Aortic valve calcification is promoted by interleukin-8 and restricted through antagonizing CXC motif chemokine receptor 2

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Kawthar Dhayni, Yuthiline Chabry, Lucie Hénaut, Carine Avondo, Cedric Boudot, Hakim Ouled-Haddou, Edith Bigot-Corbel, Gilles Touati, Thierry Caus, Hind Messaoudi ...  
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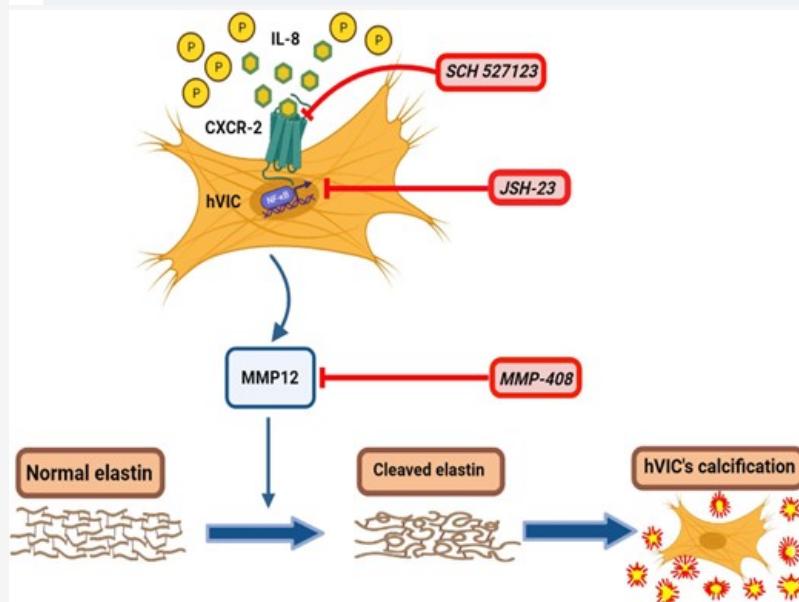
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## Abstract

### Aims

Inflammatory cytokines play a critical role in the progression of calcific aortic valve disease (CAVD), for which there is currently no pharmacological treatment. The aim of this study was to test the hypothesis that interleukin-8 (IL-8), known to be involved in arterial calcification, also promotes aortic valve calcification (AVC) and to evaluate whether pharmacologically blocking the IL-8 receptor, CXC motif chemokine receptor 2 (CXCR2), could be effective in preventing AVC progression.





Original Investigations

# Kidney Function Decline and Serious Adverse Drug Reactions in Patients With CKD

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CKD-REIN Study Group

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## Abstract

### Rationale & Objective

Adverse drug reactions (ADRs) are common in patients with chronic kidney disease (CKD). The impact of kidney function decline on serious ADR risk has been poorly investigated. We sought to comprehensively describe ADRs and assess the relationship between eGFR and serious ADR risk.

Journal of American College of Cardiology : cardiovascular Imaging



Original Research

# Additive Prognostic Value of Left Ventricular Dispersion and Deformation in Patients With Severe Aortic Stenosis

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JACC: Cardiovascular Imaging, Available online 29 November 2023, Pages  
Bernard Cosyns, Kristina H. Haugaa

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## Abstract

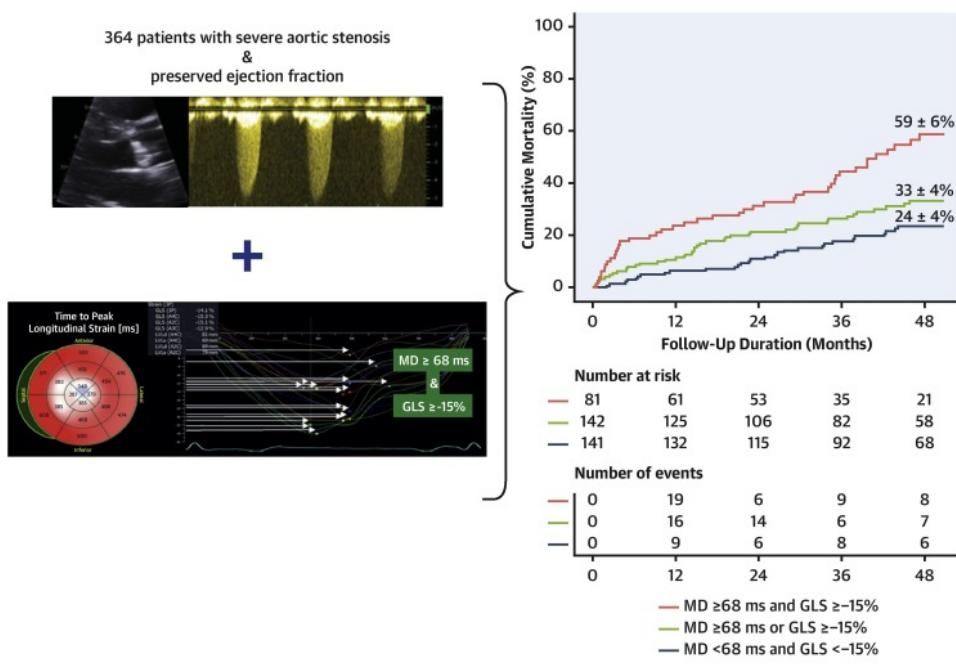
## Background

Speckle tracking strain echocardiography allows one to visualize the timing of maximum regional strain and quantifies left ventricular-mechanical dispersion (LV-MD). Whether LV-MD and LV-global longitudinal strain (LV-GLS) provide similar or complementary information in mortality risk stratification in patients with severe aortic stenosis (SAS) remains unknown.

## Objectives

We hypothesized that LV mechanical dyssynchrony assessed by LV-MD is associated with an increased risk of mortality and provides additional prognostic information on top of LV-GLS in patients with SAS.

**CENTRAL ILLUSTRATION: Prognostic Implications of Left Ventricular Mechanical Dispersion in Severe Aortic Stenosis, Preserved Left Ventricular Ejection and Without Severe Symptoms**



Thellier N, et al. J Am Coll Cardiol Img. 2023;■(■):■-■.

## Journal of Molecular and Cellular Cardiology

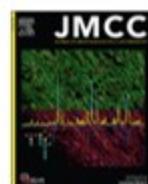
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### Indoxyl-sulfate activation of the AhR- NF- $\kappa$ B pathway promotes interleukin-6 secretion and the subsequent osteogenic differentiation of human valvular interstitial cells from the aortic valve

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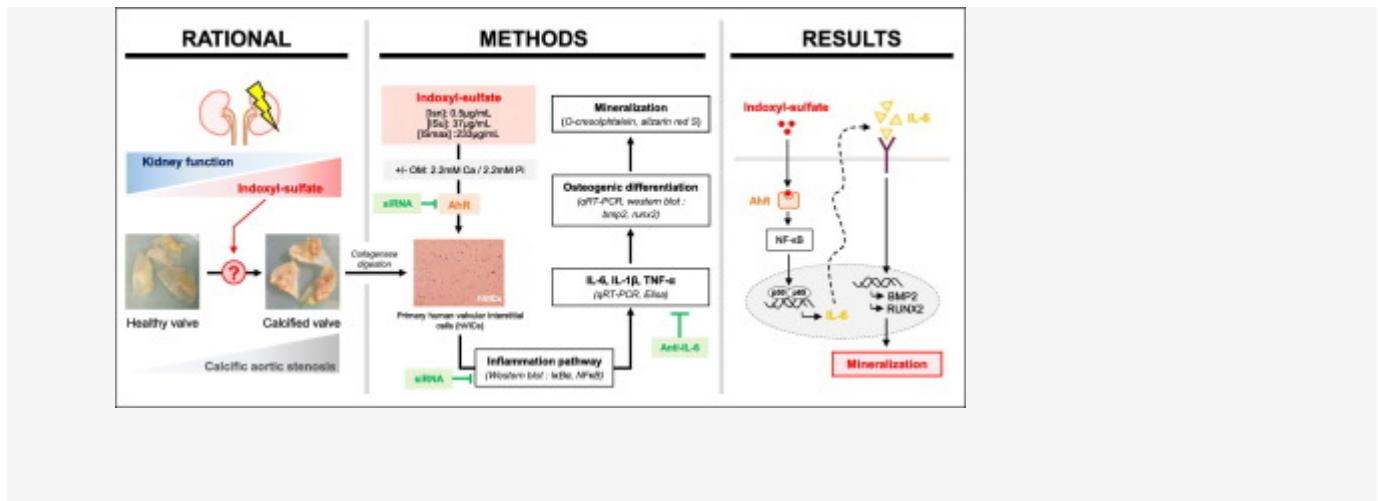
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Hébergé au sein du CURS (le Centre Universitaire de Recherche en Santé) de l'Université de Picardie Jules Verne, sur le site du CHU Amiens-Picardie, le laboratoire Mécanismes Physiopathologiques et Conséquences des Calcifications Cardiovasculaires travaille sur les calcifications vasculaires, leurs mécanismes physiopathologiques et leurs conséquences.

Projet de recherche :

1. Les mécanismes moléculaires impliqués dans les processus de calcifications et les facteurs/marqueurs associés.
2. Les conséquences hémodynamiques et structurales des calcifications cardiovasculaires chez l'animal et chez l'homme.
3. Les stratégies thérapeutiques pour prévenir et traiter ces calcifications.

## ARCHIVES

