

The motion

“That this House believes disease staging should replace categorical grading of valve lesions.”

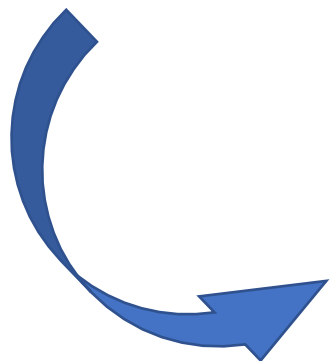
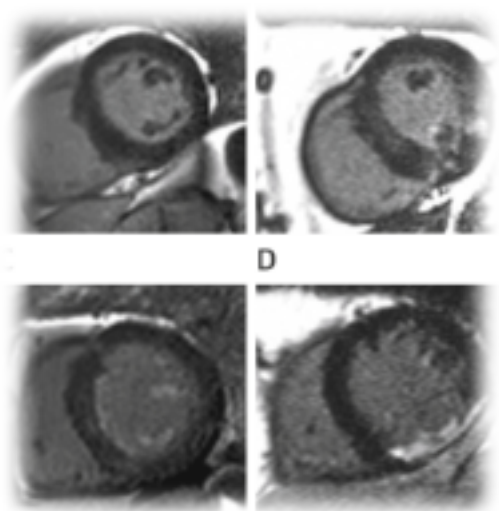
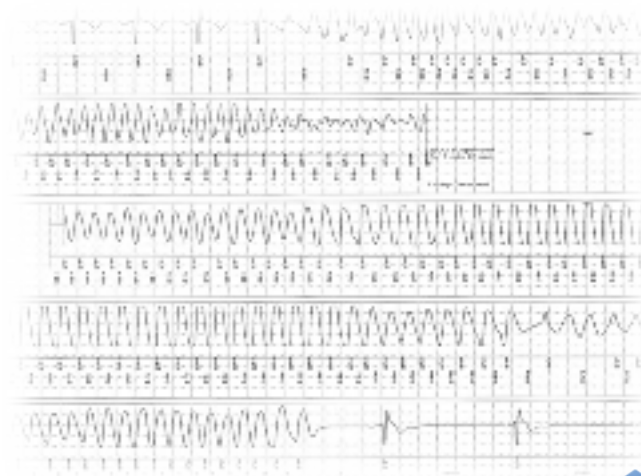
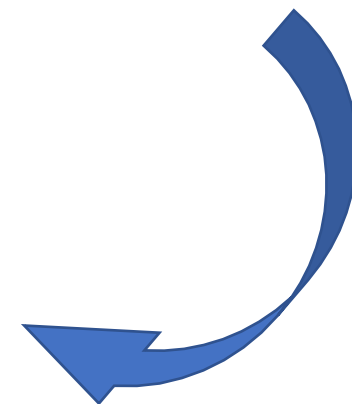
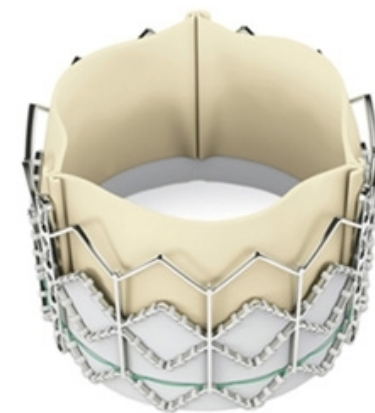
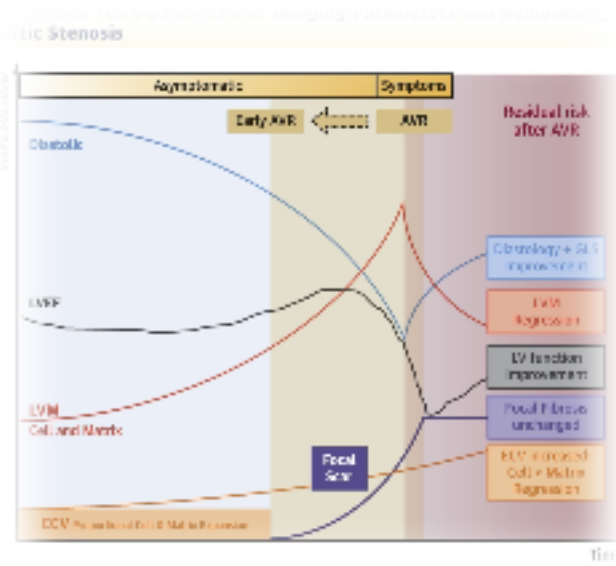
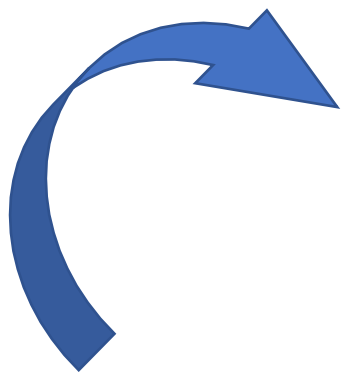
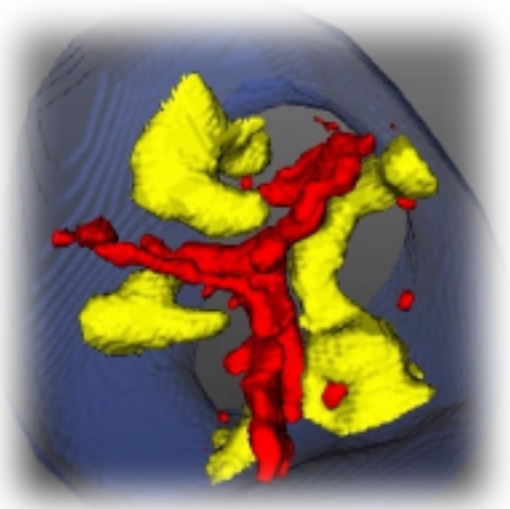
Opposition

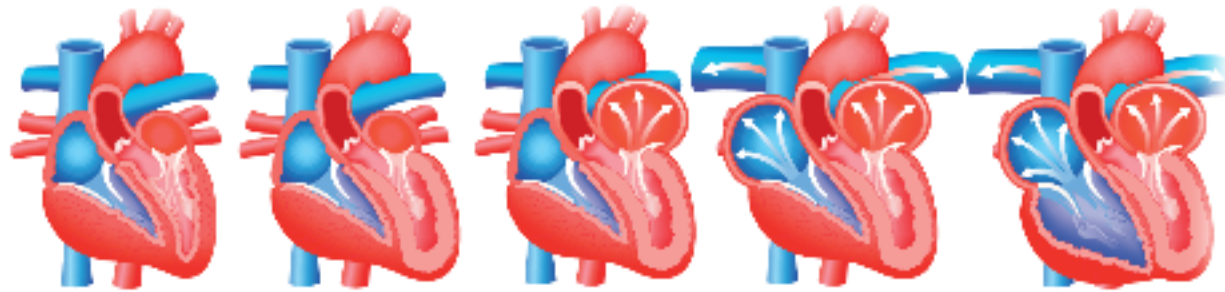
Guy Lloyd MD FESC FBSE FRCP

Clinical Director for Cardiovascular Diagnostics

Barts Heart Centre







Staging classification of aortic stenosis based on the extent of cardiac damage

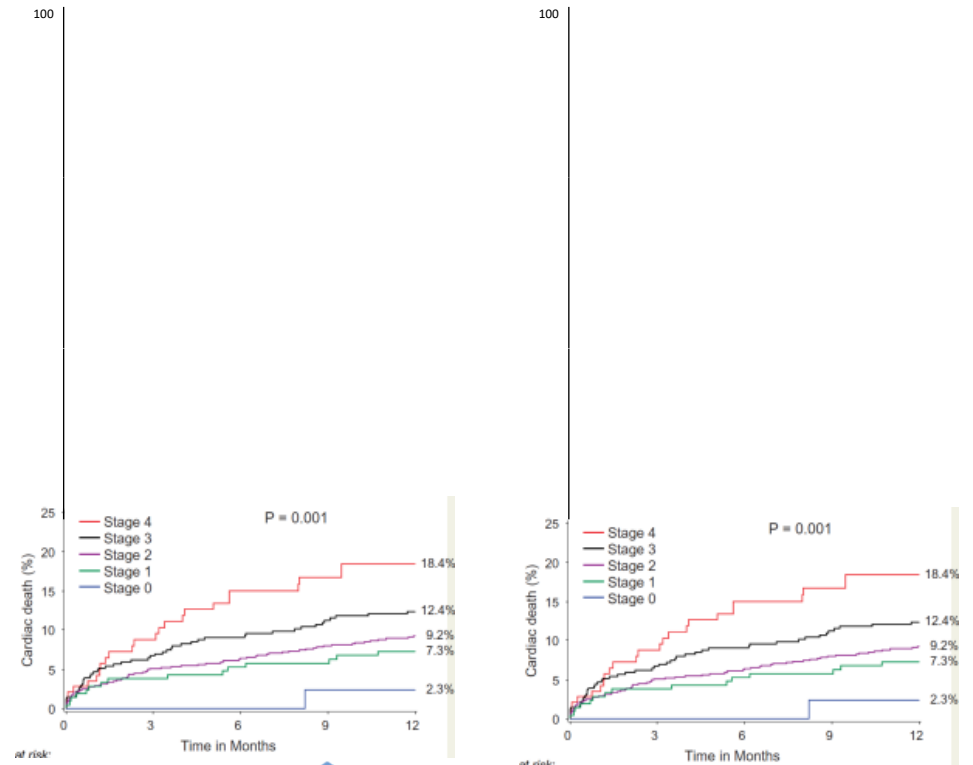
Philippe G en ereux^{1,2,3}, Philippe Pibarot⁴, Bj orn Redfors^{1,5}, Michael J. Mack⁶, Raj R. Makkar⁷, Wael A. Jaber⁸, Lars G. Svensson⁸, Samir Kapadia⁸, E. Murat Tuzcu⁸, Vinod H. Thourani⁹, Vasilis Babaliaros⁹, Howard C. Herrmann¹⁰, Wilson Y. Szeto¹⁰, David J. Cohen¹¹, Brian R. Lindman¹², Thomas McAndrew¹, Maria C. Alu¹³, Pamela S. Douglas¹⁴, Rebecca T. Hahn^{1,13}, Susheel K. Kodali^{1,13}, Craig R. Smith¹³, D. Craig Miller¹⁵, John G. Webb¹⁶, and Martin B. Leon^{1,13*}

Stages/Criteria	Stage 0	Stage 1	Stage 2	Stage 3	Stage 4
	No Cardiac Damage	LV Damage	LA or Mitral Damage	Pulmonary Vasculature or Tricuspid Damage	RV Damage
Echocardiogram		Increased LV Mass Index >115 g/m ² (Male) >95 g/m ² (Female)	Increased left atrial volume >34 mL/m ²	Systolic Pulmonary hypertension ≥80 mmHg	Moderate-Severe right ventricular dysfunction
		Ea/EA >14	Moderate-Severe mitral regurgitation	Moderate-Severe tricuspid regurgitation	
		LV Ejection Fraction <50%	Atrial Fibrillation		

The Proposition

Aortic Stenosis Grading and Staging Classification

Grade/Stage	Stage 0	Stage 1	Stage 2	Stage 3	Stage 4
	No cardiac damage	LV damage	LA-Mitral damage	PA-Tricuspid damage	RV damage
Grade 0 (V _{max} <2 m/s)	Red	Red	Red	Red	Red
Grade 1 (V _{max} 2.0-2.9 m/s; MG <20 mm Hg)	Red	Red	Red	Red	Red
Grade 2 (V _{max} 3.0-3.9 m/s; MG 20-39 mm Hg)	Yellow	Yellow	Yellow	Yellow	Yellow
Grade 3 (AVA ≤1.0 cm ² or AVA/BSA ≤0.6 cm ² /m ² ; V _{max} ≥4.0 m/s; MG ≥40 mm Hg)	Yellow	Green	Green	Green	Green



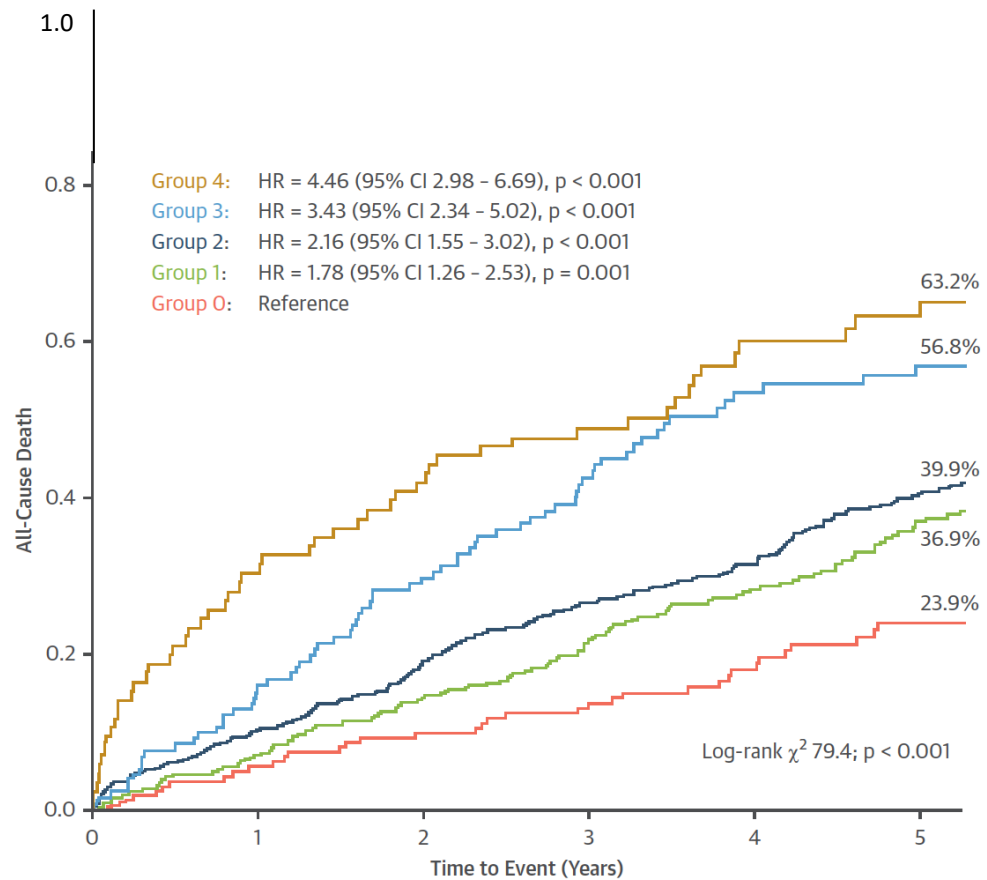
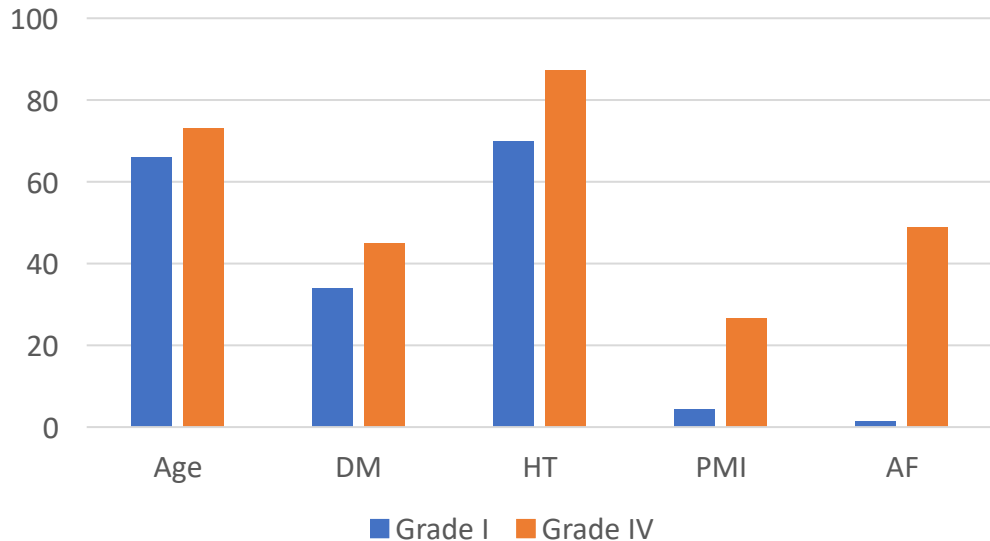
ORIGINAL RESEARCH

Prognostic Implications of Associated Cardiac Abnormalities Detected on Echocardiography in Patients With Moderate Aortic Stenosis



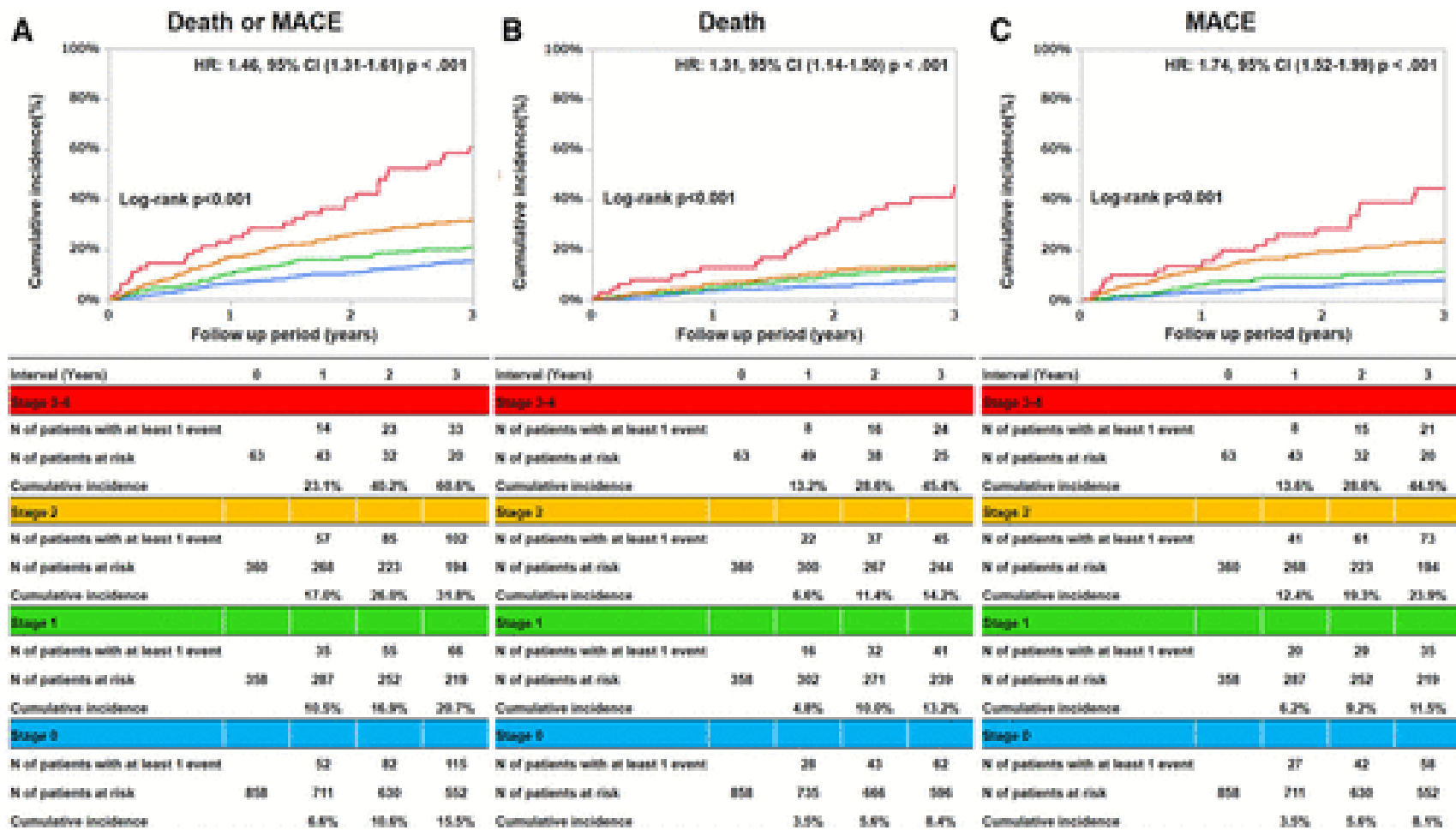
Mohammed Rizwan Amanullah, MBBS,^{a,*} Stephan Milhorini Pio, MD,^{b,*} Arnold C.T. Ng, MBBS, PhD,^c
Kenny Y.K. Sin, MBBS,^d Nina Ajmone Marsan, MD, PhD,^b Zee Pin Ding, MBBS,^a Martin B. Leon, MD,^e
Philippe Généreux, MD,^f Victoria Delgado, MD, PhD,^b See Hooi Ewe, MBBS, PhD,^a Jeroen J. Bax, MD, PhD^b

Unequal comorbidities



Aortic stenosis stage 4 and some stuff?







Staging Cardiac Damage in Patients With Hypertension

Yuta Seko, Takao Kato , Masayuki Shiba, Yusuke Morita, Yuhei Yamaji, Yoshizumi Haruna, Eisaku Nakane, Tetsuya Haruna and Moriaki Inoko

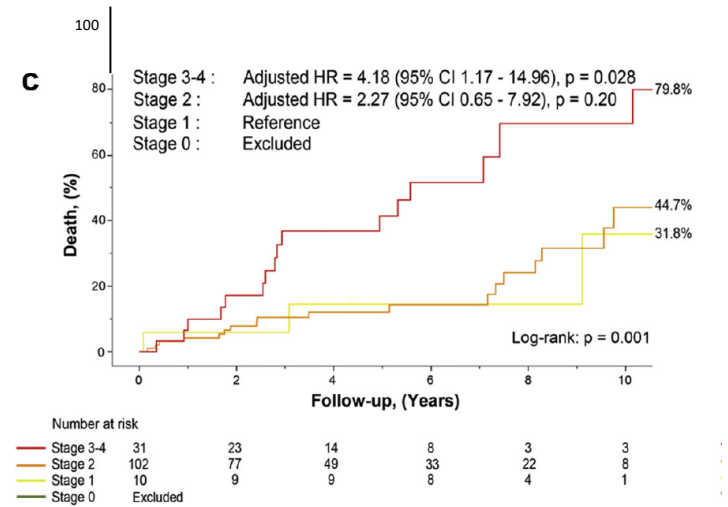
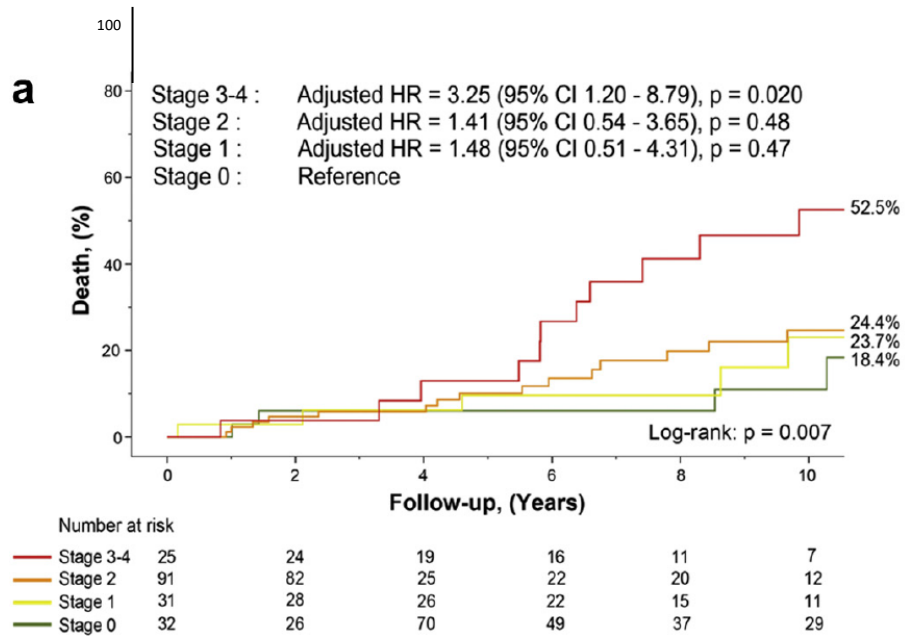


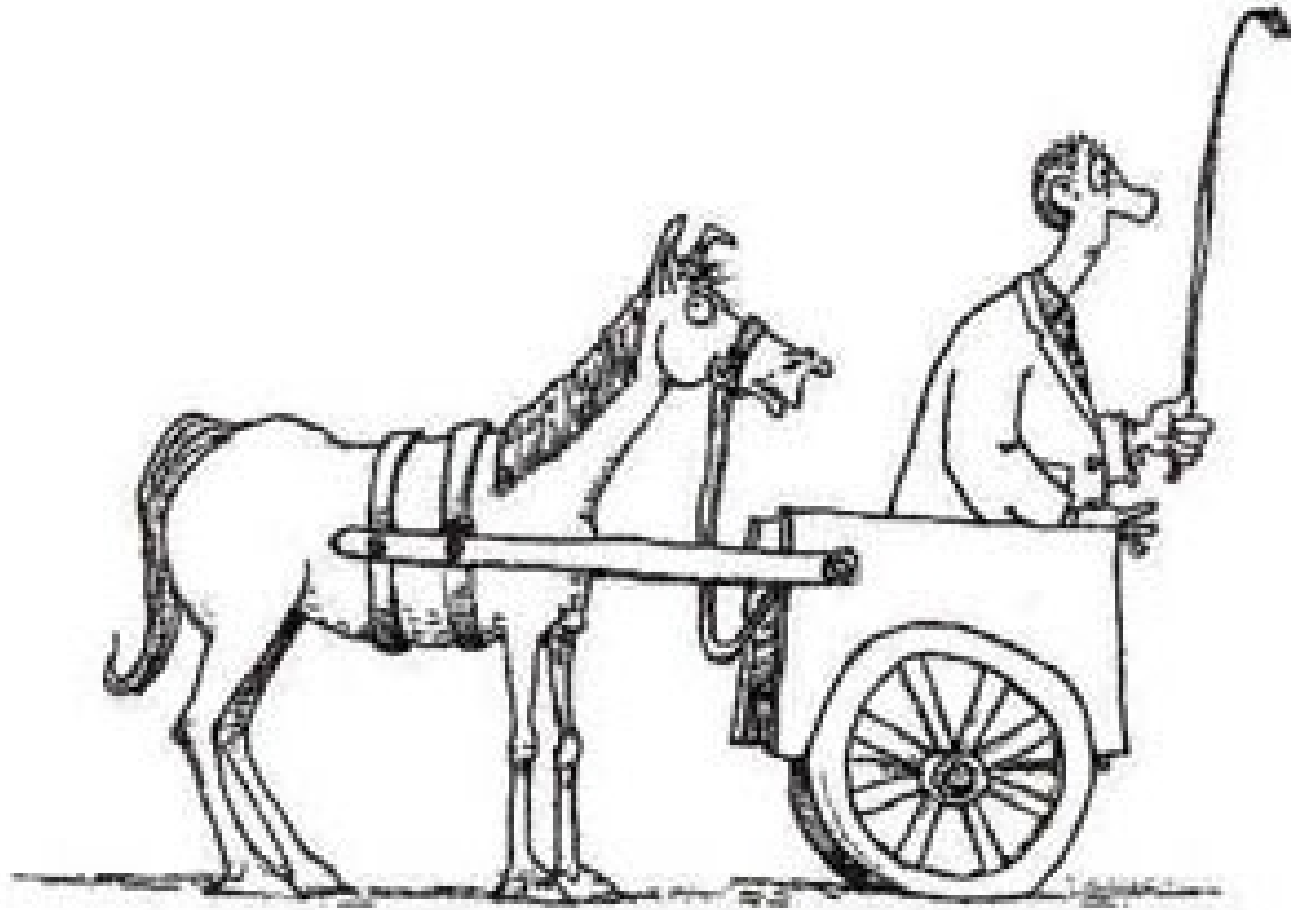
Cardiac Damage Staging Classification in Asymptomatic Moderate or Severe Primary Mitral Regurgitation

Jérémy Bernard, MSc ^{a,1} , Alexandre Altes, MD ^{b,1}, Marlène Dupuis, MSc ^a, Oumhani Toubal, MD ^a, Haïfa Mahjoub, MD, PhD ^a, Lionel Tastet, MSc ^a, Nancy Côté, PhD ^a, Marie-Annick Clavel, DVM, PhD ^a, Hélène Dumortier, MD ^b, Jean Tartar, MD ^b, Kim O'Connor, MD ^a, Mathieu Bernier, MD ^a, Jonathan Beaudoin, MD ^a, Sylvestre Maréchaux, MD, PhD ^{b,*}, Philippe Pibarot, DVM, PhD ^{a,*} 

^a Institut universitaire de cardiologie et de pneumologie de Québec/Québec Heart & Lung Institute, Université Laval / Laval University, Québec City, Québec, Canada

^b Department of Cardiology, Institut Catholique de Lille / Catholic Institute of Lille, Université Catholique de Lille / Catholic University of Lille, Lille France





Guy.lloyd1@nhs.net

