LETTERS TO THE EDITOR

European Association of Echocardiography recommendations for assessment of valvular regurgitation: a correction

The new recommendations of the European Association of Echocardiography for the assessment of mitral and tricuspid regurgitation are timely and useful. We would like to correct a minor mistake in Figure 13, part 3C, which illustrates estimation of the posterolateral mitral valve angle in systole, a parameter of local remodelling in functional mitral regurgitation. This angle in the apical four-chamber view is formed by the posterior mitral leaflet and a line connecting the insertion of both mitral leaflets. The image contains a misstated formula $PLA = \sin^{-1}(CD/PLL)$ for calculating the posterolateral angle (PLL, in degrees) from the sides CD and PLL of a right triangle by looking up the arcsine of their ratio. This formula correctly should read:

$$PLA = \arcsin(CD/PLL) \text{ or, alternatively, } PLA = \sin^{-1}(CD/PLL).$$

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As mentioned, there is a minor mistake in Figure 13, part 3C, of the recommendations of the European Association of Echocardiography for the assessment of mitral and tricuspid regurgitation. Indeed, the correct formula to calculate the posterolateral angle (PLA) is the following: $PLA = \sin^{-1}(CD/PLL)$ where CD is the coaptation distance and PLL is the posterior leaflet length. PLL is then expressed in centimetres or millimetres as for CD.

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Figure 13  Echo morphologic parameters that are measured in ischaemic mitral regurgitation. (A) Global left ventricle remodelling [diameter, left ventricle (LV) volumes, sphericity index (SI = L/l; L, major axis; l, minor axis)]. (B) Local LV remodelling (1, apical displacement of the posteromedial papillary muscle; 2, second order chordate; 3, interpapillary muscle distance). (C) Mitral valve deformation [1, systolic tenting area (TA); 2, coaptation distance (CD); 3, posterolateral angle (PLA)].