Dr. Arrigo and his team added important knowledge thanks to their recently published review about atrial fibrillation (AF) in critically ill patients [1]. I would like to address several issues in the light of most recent literature. Critically ill patients do have increased risk of cardiac embolism despite short exposure time of AF, especially septic patients [2]. This can be best assessed by past stroke, CHADS2 (or CHA2DS2-VASc) score [3]. However, best anticoagulation is not known in critically ill patients with increased bleeding risk. In their review, Dr. Arrigo and colleagues state that unfractionated heparin (short half-life and easy to antagonize) is their first choice [1]. First, the dosage used may not be adequate and recommended posology may reach biological target more often. Even with strict protocollization, unfractionated heparin has significant inter- and intraindividual variability and short therapeutic interval. Second, bridging with heparin has been associated with more haemorrhage (and as much thrombosis) compared with procedures under oral anticoagulants by vitamin K antagonists [4]. Thus, best anticoagulation is not mandatory, the more logical choice, and is not known for critically ill patients.

The first risk that comes to intensive care physicians mind is hemodynamic compromise, as opposed to ambulatory setting patients whose major risk is cardioembolic. Rhythm control is recommended for poorly tolerated AF by means of antiarrhythmic drugs and/or direct current cardioversion [5]. Though, variable conversion rates are reported in the literature. We were surprised by the very infrequent conversion rates of direct current cardioversion about 30% reported in series without drug enhancement [6, 7]. We reported 80% immediate success rate of direct current cardioversion, mostly with drug enhancement [3]. However, side effects of antiarrhythmic drugs (amiodarone and/or magnesium, without vernakalant) were common, 19% [3]. We still consider direct current cardioversion as first line treatment for poorly tolerated AF; even in critically ill patients, provided obvious triggering factor is controlled [5].

Conflict of Interests

The author declares that there is no conflict of interests regarding the publication of this paper.

References


