

Medication Route in Cardiac Arrest

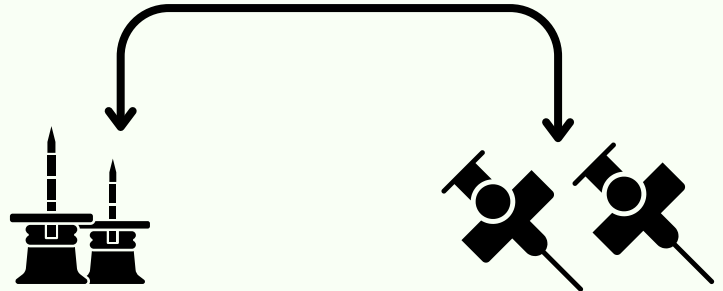
The PARAMEDIC-3 randomised trial compared an intraosseous (IO)-first strategy with an intravenous (IV)-first strategy for vascular access in adult out-of-hospital cardiac arrest.

Out-of-hospital cardiac arrest



Over 30,000 cardiac arrests in the UK each year.
Less than 1-in-10 survive

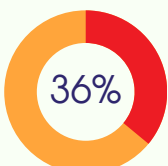
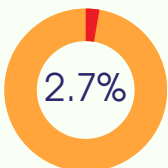
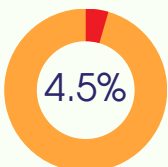
10 ambulance services and 1 air ambulance (England and Wales)



IO- first strategy-
3040 patients

IV- first strategy-
3042 patients

IO



Survival at 30-days

Odds ratio 0.94 (95% CI 0.68 to 1.32)

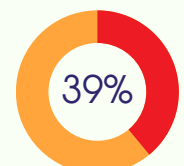
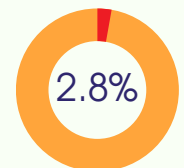
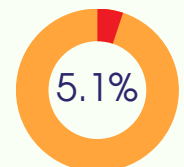
Favourable neurological outcome

Odds ratio 0.91 (95% CI 0.57 to 1.47)

Any ROSC

Odds ratio 0.86 (95% CI 0.76 to 0.97)

IV



An Intraosseous first strategy did not improve 30-day survival, but did reduce the proportion of patients achieving a return of spontaneous circulation.