Outline

Rationale for Sodium Bicarbonate Use

Current Guidelines

Adoption of Guidelines in North America

Basic Overview of Current Evidence

Early 1976 Study in Dog Model

 Bishop & Weisfeldt looked at arterial pH and PCO₂ with and without sodium bicarbonate administration after inducing Vfib

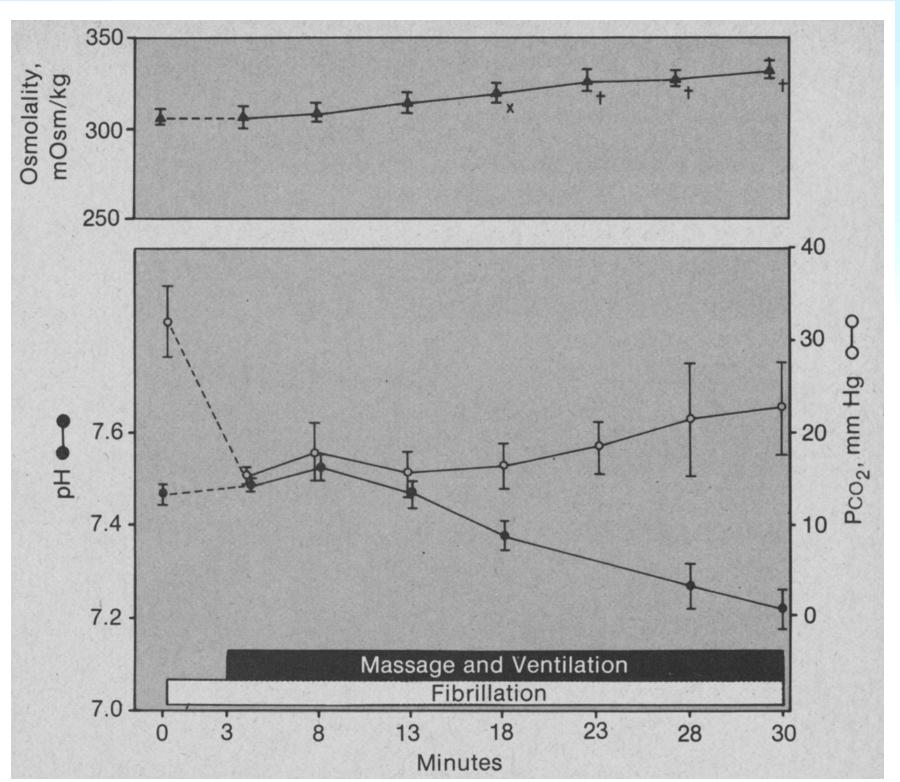


Fig 1.—Arterial pH, Pco₂, and osmolality in seven dogs prior to and during arrest and resuscitation without bicarbonate administration. Ventilatory rate and volume were constant throughout. Pco₂ fell with onset of resuscitation despite constant ventilation. Progressive rise in osmolality throughout is statistically significant (x's indicate P < .05; †P < .01). Bars indicate standard error of mean.

