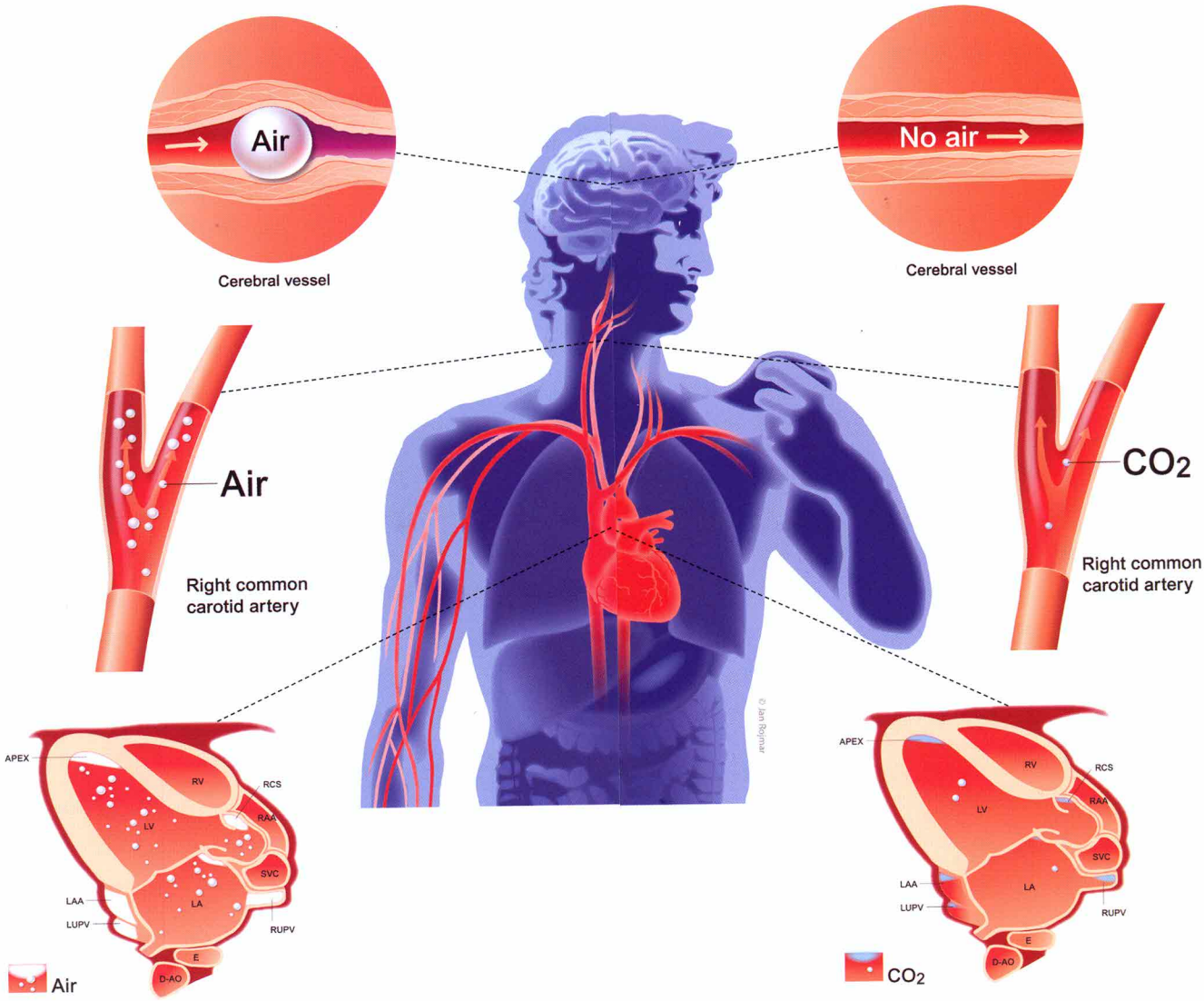
Prevent air embolism during open-heart surgery

Incomplete de-airing

Complete de-airing

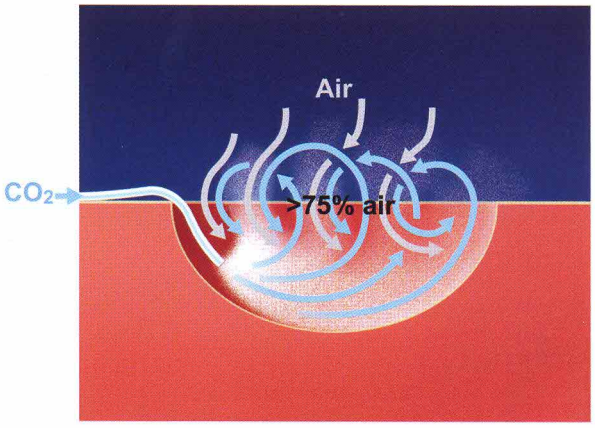


cardia
INNOVATION

CarbonAid®
&
CarbonMini™

Avoid turbulence!

Less effective de-airing devices create turbulence even at low CO_2 flows. This results in a continuous mix with the surrounding atmosphere and a high percentage of air will still be present in the thoracic cavity. Turbulence makes de-airing impossible.



As long as air is present there is a risk for air embolism! Even air bubbles as small as 25 µl obstructing cerebral arterioles for less than 30 seconds cause an impaired cerebral function[9].

Complete de-airing is achieved with

CarbonAid® & CarbonMini™!

The superiority of the Cardia Innovation CO_2 diffuser technology

The **CarbonAid®** and **CarbonMini™** can deliver a high CO_2 gas flow without any turbulence[2,3,6,7] and as a result of this create a 100% CO_2 atmosphere inside the thoracic wound area. This prevents air embolism from occurring.

- When CO_2 is insufflated with a laminar flow a protective cushion is built up[1,5].
- The continuous overflow of CO_2 will repel and transport away small particles, this decreases the rate of airborne contamination[1,5].
- A bacteriostatic effect of CO_2[1].