



BabyCO™

Improving the health of our future generations

Smoking and Pregnancy . . . Helping to break the link

It is never too late to stop smoking. Every cigarette you decide not to smoke will help you and your baby's health. A baby in the womb receives everything from its mother. Nutrients and oxygen come via the placenta and umbilical cord. Smoking not only exposes the foetus to toxins in tobacco smoke, but it also damages placental function.

When a person smokes, some of the oxygen in their blood is replaced by carbon monoxide. If a pregnant woman smokes, her blood and therefore her child's blood will contain less oxygen than normal. This can cause the foetal heart rate to rise as the baby struggles to get enough oxygen.

Measuring breath carbon monoxide is an established technique used in smoking cessation. The BabyCO™ (Cat. No. 36-BC02) is the latest addition to the CO family and is a powerful diagnostic tool for measuring alveolar Carbon Monoxide in PPM concentrations. This is measured simply from the mother's expired breath. From this measurement the amount of Carbon Monoxide in the foetus is derived and is represented as foetal Carboxyhaemoglobin (%FCOHB). The mother's CO concentration in PPM will then be displayed, along with the foetal %COHB.



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Smoking and pregnancy related health problems¹:

- Complications during labour

Increased risk of:

- Miscarriage
- Premature birth
- Still birth
- Sudden unexpected death in infancy

1. How to stop smoking in pregnancy and following childbirth. NICE June 2010



Design Innovation

An ergonomically designed unit of distinctive appearance, the textured handgrip encourages easy and reassuring use. The BabyCO™ is small, lightweight and is moulded from high impact ABS for durability.

Complete with all accessories

The BabyCO™ comes complete with a hard shell carry case, sample cardboard mouthpieces, one-way plastic mouthpiece adaptor, calibration adaptor, calibration tool, 9V PP3 battery and operating manual.

Customer Benefits and Features of the BabyCO™

A single breath from the mother will immediately show the percentage of carbon monoxide attached to the baby's red blood cells (%FCOHb).

Ease of Use

Measurements are easily obtained from a single expiration and are aided by an auto-zero function when the unit is turned on. These results are then instantly displayed on the large liquid crystal display.

Calibration Gases

In order to keep your BabyCO™ in pristine working condition, and always have at your disposal reproducible results, the BabyCO™ will require calibration at six monthly intervals. Calibration can easily and safely be carried out by the end user with our Medican, 1 litre size calibration cylinder. Alternatively, a calibration service is available by returning your BabyCO™ to CareFusion or an authorised CareFusion agent.



Babies born to mothers who smoke¹:

- Are more likely to be born prematurely and with a low birth weight
- Have poorer lung function and increased prevalence of asthma.
- Are twice as likely to die from cot death.
- Increased risk of sudden death in infancy
- Problems of the ear, nose and throat
- More likely to suffer from bronchitis and pneumonia

BabyCO™

Gas Detected	Carbon Monoxide
Concentration range	0–100ppm
Sensitivity	1ppm
Operating range	0 ... +40°C
Operating pressure	Atmospheric ± 10%
Hydrogen cross-sensitivity	<5%
Sensor life	2-5 years
Sensor drift	<2% per month

Display	3 1/2 digit custom LCD
Power supply	Single 9V PP3
Weight (Nett)	160g
Weight (Packed)	1kg
Dimensions	170 x 60 x 26mm
Indicator levels	green - 0 - 6ppm; amber - 7-10ppm; red - >11 - 20ppm Flash red and audio alarm 20ppm and over

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