Fully integrated Dosimeter Module for easy and accurate bronchial provocation test protocols



- Controlled and more accurate management of bronchial challenge
- High quality Philips Respironics
 Nebulizer
- ► Easy to clean and disinfect
- Multi-step protocol with a single drug concentration
- Choice between standard (ATS and Lofarma) or custom protocols
- ► Full compliance with ATS/ERS Guidelines

Bronchial challenges can be used to confirm or rule out a diagnosis of hyperreactive airways.

A dosimeter is particularly useful as it allows to perform and control automatically the different steps of the bronchial challenge and the accurate delivery of incremental doses of bronchial stimulants.

The testing procedure involves executing repeated FVC manoeuvres following the inhalation of pharmacologic agents according to an established protocol.

The dosimeter consists of an ampulla (to fill up with drug before test starts) connected to a flowmeter monitoring the ventilation and the amount of drug inhaled, then a cylinder of medical air is used for the nebulization of the medicine.

A pressure transducer is set to monitor the pressure at the ampulla level, during every single dose delivery, and guarantee that the correct amount of drug is delivered or stop the delivery.

The OMNIA software automatically controls the dosimeter according to a pre-defined Bronco challenge protocol.

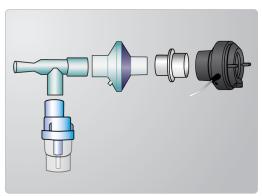
An easy-to-use protocol editor in OMNIA software allows to select protocols among a predefined list or to create new ones.



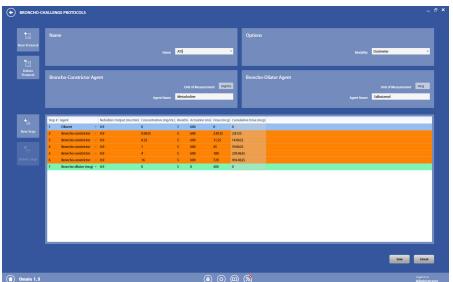
References:

- Hallstrand TS et al. "ERS technical standard on bronchial challenge testing: general considerations and performance of methacholine challenge tests" Eur Respir J . 2018 Nov 15;52(5):1801033
- Crapo RO et al. "ATS 1999: Guidelines for Methacholine and Exercise Challenge Testing". Am J Respir Crit Care Med Vol 161, pp 309-329, 2000

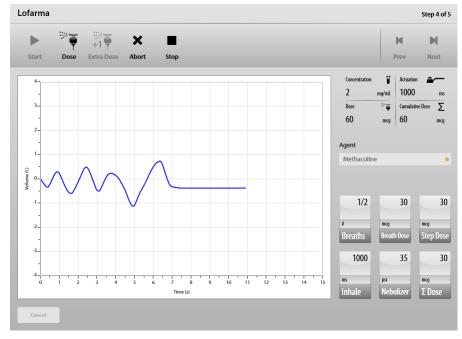
Technical Specifications		
Product	Description	REF
Dosimeter Module	Fully integrated dosimeter	C03250-01-11
Standard packaging	Dosimeter Assembly, Dosimeter Tube, Handle for Dosimeter Adapter (2 pcs), Nebulizer (3 pcs), Nebulizer	
Nebulizer		
Туре	Philips Respironics, SideStream	
Nebulizer @37 PSI	0.35 mL/min	
Ampolla volume	2-10 mL	
Safety tools	Yes (2 electro-valves connected in series)	
Power	100-240 Vac +/-10%, 50-60Hz	
Pressure transducer		
Туре	Piezo-resistive compensated in temperature	
Range	3 – 58 PSI	
Accuracy	+/-1.5%Vfss	



Dosimeter Module setup.



Broncho-challenge protocol editor.



Dosimeter dialog box in real time.



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