

Symptom Assessment of Patients with Allergic Rhinitis Using an Allergen Exposure Chamber

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jove.com/video/64801

Materials

Name	Company	Catalog Number	Comments
Allergen exposure chamber (AEC)	custom made	---	with the air supply duct (with HEPA filters) and allergen blew into the AEC through a computer-controlled feeder
Acoustic rhinometer	GM Instruments (Irvine, UK)	A1 clinical/ reseach	with reusable plastic tips, contoured for the right and left nostrils
Air humidifier	Ohyama	SHM120D	
Air quality meter	AZ Instrument	Green Eye VZ 7798	termometer, humidity and CO ₂ meter
Air-conditioning	DeLonghi	CKP 20EB	temperature range 18 - 25 °C
Ceiling fans	Argos	Manhattan Ceiling Fan - 432/8317	
Computer-controlled feeder station	custom made	---	with control of "injection length", "break between injections ", "air supply"
Disposable coveralls	VWR (Radnor, Pennsylvania, United States)		with hoodies
Floor fans	AEG	TVL 5537, column	
Graphing program	GraphPad Software Inc.	Graph Pad Prism, v. 9.4.0	
House dust mite (HDM)	Allergopharma (Reinbek, Germany)	customized order	dried, purified <i>Dermatophagoides pteronyssinus</i> (Dp) mite bodies, stored at 4 °C until use
Inspiratory flow meter	Clement Clarke International Ltd. (Harlow, UK)	portable inspiratory flow meter	with the disposable mask (size M), measuring inspiratory flow between 30 - 370 L/ min
Laser particle counter (LPC)	Lighthouse Worldwide Solutions (USA)	SOLAIR Boulder Counte	
Microphone system	Auna	VHF wireless microphone system	
Peak flow matter (PFM)	CareFusion (Basingstoke, UK)	MicroPeak with a standard range of 60 – 900 L/ min	with the disposable paper tips
Remote controls for filling questionnaires	Turning Technologies	Pilot TT ResponseCard LT, SAP: G040602A010	a set of 32 remote controls for TT LT tests
Spirometer	Medizintechnik AG (Zurich, Switzerland)	EasyOne 2001, NDD	with the disposable paper tips; the spirometer should meet the ISO 26

			782: 2009 standard; daily calibration of the spirometer is required
TV screen	Level	Level one 32"	
Vacuum	Siemens	extreme silencePower VSQ5X1230	with the HEPA filters