

*ERS School Course*  
**“Medical Aerosols: Ins and outs of inhalation therapy”**  
*Amsterdam, the Netherlands*

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**Thursday, November 12<sup>th</sup> 2009**

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**08.00 – 08.30** Registration  
**08.30 – 09.00** Welcome & by the course leaders  
Intake test by the participants

**Session I**  
*Chair: TBC*

**09.00 – 09.45** Basic aerosol science – B. Laube  
**09.45 – 10.30** Current devices (pMDI, Autohaler, holding chambers, DPI, nebulizers) – H. Janssens

**10.30 – 11.00** *Coffee Break*

**Workshop round I**

**11.00 – 12.30** Measurement of aerosol particles (cascade impactor, breathing simulation, Malvern?)  
– F. de Jongh, G. Horn  
Devices pMDI/pMDI spacers/DPI & selection issues – E. Derom, H.M. Janssens  
Device nebulizers & selection issues – M. Everard, J. Dennis

**12.30 – 14.00** *Lunch*

**Workshop round II**

**14.00 – 15.30** Measurement of aerosol particles (cascade impactor, breathing simulation, Malvern?)  
– F. de Jongh, G. Horn  
Devices pMDI/pMDI spacers/DPI & selection issues – E. Derom, H.M. Janssens  
Device nebulizers & selection issues – M. Everard, J. Dennis

**15.30 – 16.00** *Coffee Break*

**Workshop round III**

**16.00 – 17.30** Measurement of aerosol particles (cascade impactor, breathing simulation, Malvern?)  
– F. de Jongh, G. Horn  
Devices pMDI/pMDI spacers/DPI & selection issues – E. Derom, H.M. Janssens  
Device nebulizers & selection issues – M. Everard, J. Dennis

**18.00** *Welcome drink*

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Friday, November 13<sup>th</sup> 2009

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**Session II**

Chair: TBC

- 08.30 – 09.15 Aerosol therapy & pharmacology – H. Chrystyn  
09.15 – 10.00 Lung disease & medical aerosols, antibiotics & Dnase – E. Derom  
10.00 – 10.45 New nebulizer technologies: how it can be used in practice? – J. Dennis

10.45 – 11.15 *Coffee Break*

- 11.15 – 12.00 Patient device interaction & adherence issues – M. Everard  
12.00 – 12.45 Regulatory – H. Chrystyn

12.45 – 14.00 *Lunch*

**Workshop round IV (Parallel workshops)**

- 14.00 – 15.15 Group 1) Pediatrics: **The art of instruction** (Video's & devices available) – H.M. Janssens, B. Laube  
Group 2) Nurses: **The art of instruction** (Video's & devices available) – F. de Jongh, G. South  
Group 3) Pulmonologists, pharmacists & others: **Nebuliser therapy in hospital** (what nebulisers are on the market, who selects the nebulasier, importance of airflow, options to deliver an aerosol to intubated and ventilated patients, severe airflow obstruction) – J. Dennis, E. Derom

15.15 – 15.45 *Coffee Break*

**Workshop round IV (Parallel workshops)**

- 15.45 – 17.00 Group 1) Pediatrics: **The art of instruction** (Video's & devices available) – H.M. Janssens, B. Laube  
Group 2) Nurses: **The art of instruction** (Video's & devices available) – F. de Jongh, G. South  
Group 3) Pulmonologists, pharmacists & others: **Nebuliser therapy in hospital** (what nebulisers are on the market, who selects the nebulasier, importance of airflow, options to deliver an aerosol to intubated and ventilated patients, severe airflow obstruction) – J. Dennis, E. Derom

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**Saturday, November 14<sup>th</sup> 2009**

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**Session III**

Chair: TBC

- 08.30 – 09.15** The role of the respiratory therapist & nurse in aerosol therapy – G. South  
**09.15 – 10.00** Aerosols in systemic drug delivery, gene therapy & vaccines – B. Laube  
**10.00 – 10.45** Environmental aerosols – F. de Jongh
- 10.45 – 11.15** *Coffee Break*
- 11.15 – 12.30** Case discussion by participants: Adult Session – E. Derom, F. de Jongh, G. South  
**11.15 – 12.30** Case discussion by participants: Paediatric Session – M. Everard, H.M. Janssens
- 12:30 – 13.00** Final remarks by organisers  
Final test by participants
- 14.00** End of the course