

Chronic Obstructive Lung Disease COPD.



Roughly 5% of the population in Sweden, have problems caused from COPD disease.

In Sweden, roughly 2000 persons die of COPD disease yearly.

35000 Swedes, is yearly placed into hospital, for treatment of heavy breathing problems, caused by asthma, chronic bronchitis etc.

A lots more, must visit Doctors at hospital GP etc for emergency breathing problems.

Treatment of COPD Disease.

This group of Patients is given different sort of medicine, combined with **PEP** treatment, Positive Expiratory Pressure.

In Scandinavia, roughly 10% of the COPD Patients, receive regularly **PEP** treatment each 24/h.

When Doctors or Physiotherapist Have decide that PEP treatment Shall be done, it's important that PEP can be done regularly.

Studies have proof that regularly **PEP** gives the best result of treatment for the Patient.

Society Costs Caused Of COPD Disease.



In Scandinavia, the most complete study of of this costs, was made in Finland.

This investigation was made by the Finish Health Care Ministry.

The result was presented in Finish language **1998** and in Swedish language **1999:1**. The population in Finland is 5 million habitants.

The yearly cost for the Finish society is roughly **1 milliard Euro**.

References Of Studies Regards PEP-Treatment.

Sutton PP, Pavia D, Bateman JRM, Clarke W. Chest Physiotherapy: A review. **Published, Eur. J. Respir. Dis. 1982;63:188-201.**

Falk M, et al. Improving the Ketchup Bottle Method with Positive Expiratory Pressure PEP In Cystic Fibrosis. **Published, Eur.J. Respir. Dis. 65, 423-32, 1984.**

Ricksten S E, Bengtsson A, Söderberg C, Thorden H, Kvist H. Effects of Periodic Positive Airway Pressure by Mask on Postoperative Pulmonary Function. **Published, Chest 1986; 89: 774-81.**

References Of Studies Regards PEP-Treatment.

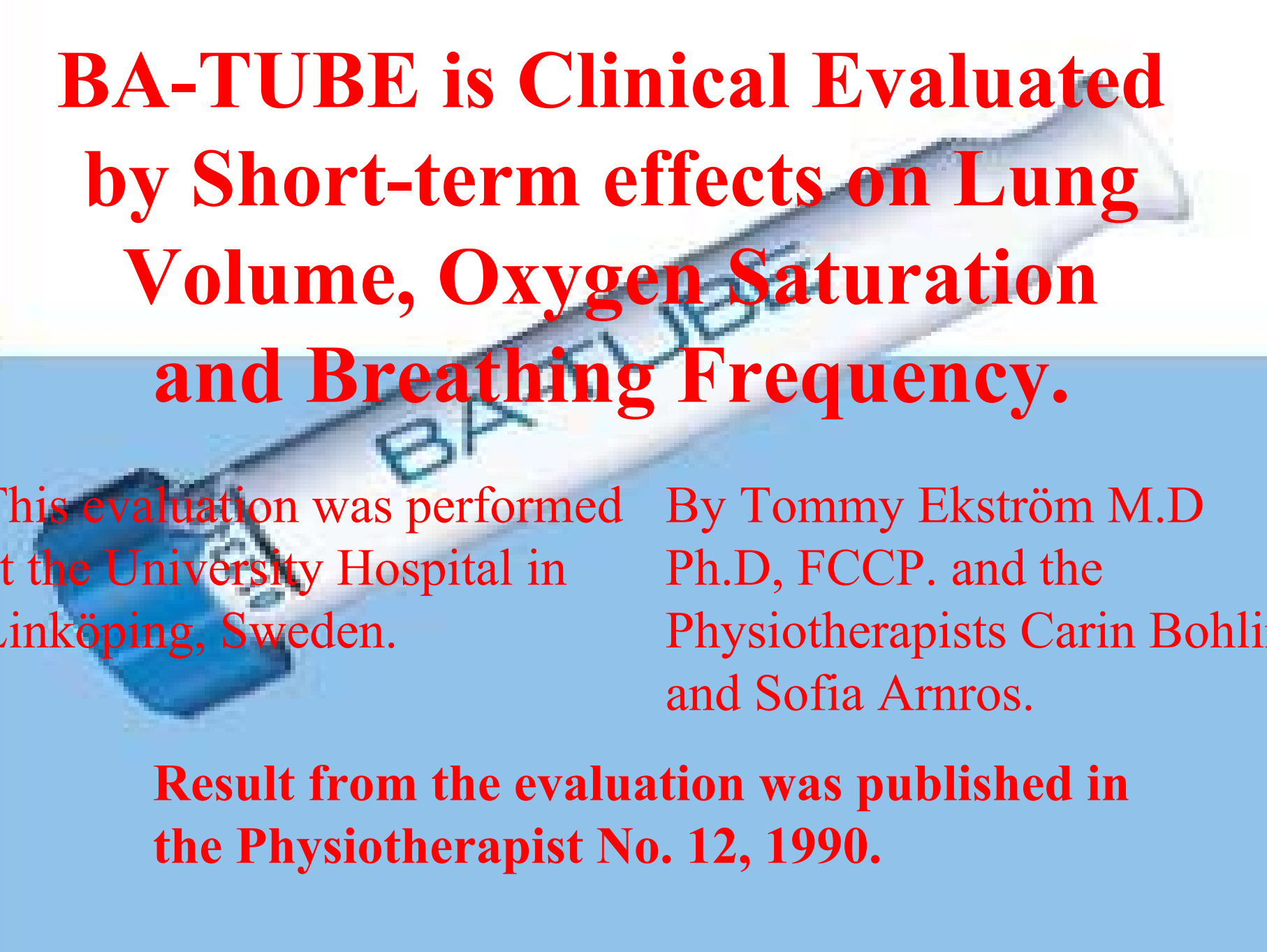


Frischknecht Christensen E,
Nedergaard T, Ronald Dahl.
Long Term Treatment of Chronic
Bronchitis with Positive Expiratory
Pressure Mask and Chest Physiotherapy.

Published in Chest
/97/ March 1990.

Frischknecht Christensen E, Nørregard
O, Winter L, Ronald Dahl. Terbutaline
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Abstract XVII Nordic
Congress in Allergy
19.5 1990 side 141.



BA-TUBE is Clinical Evaluated by Short-term effects on Lung Volume, Oxygen Saturation and Breathing Frequency.

This evaluation was performed
at the University Hospital in
Linköping, Sweden.

By Tommy Ekström M.D
Ph.D, FCCP. and the
Physiotherapists Carin Bohli
and Sofia Arnros.

**Result from the evaluation was published in
the Physiotherapist No. 12, 1990.**

BA-TUBE



**Allows Regularly PEP-
Treatment.**

Field of Application

COPD Disease as:

- Chronic Bronchitis
- Emphysema
- Asthma



- Cystic Fibrosis
- Pre-Operatively
- Post-Operatively

Target



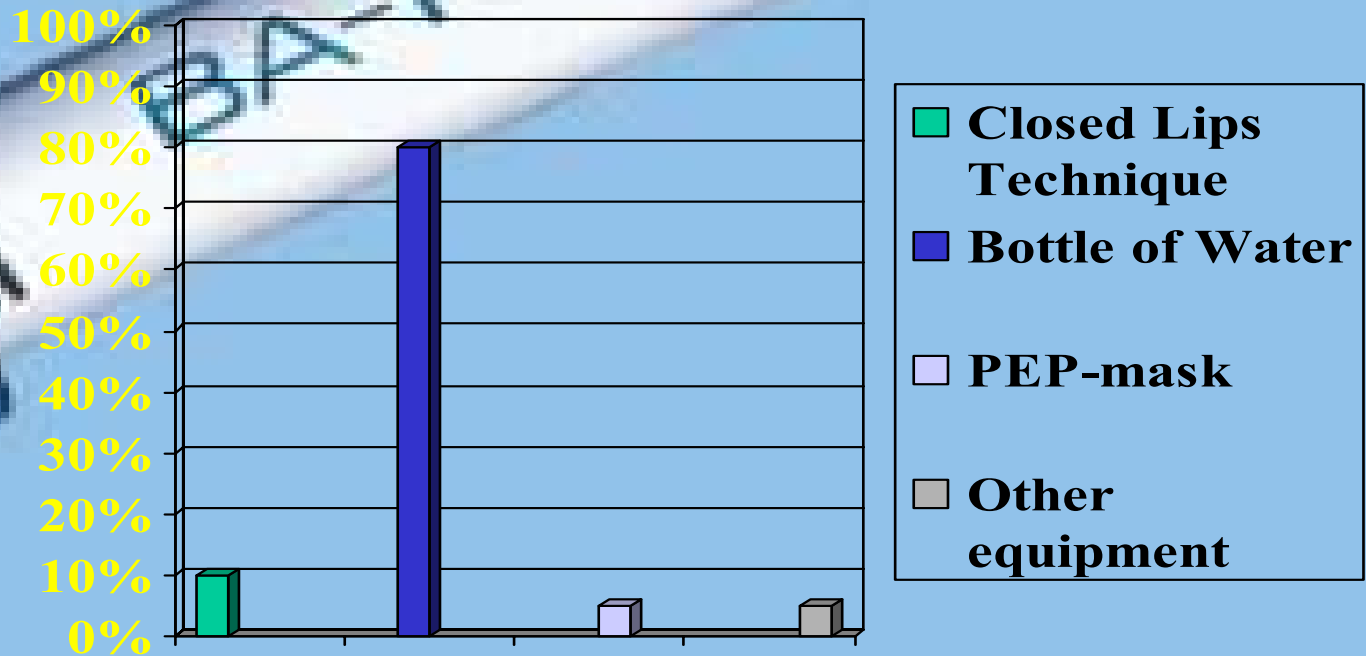
- Lung-physicians
- Physiotherapist
- Or other Personal involved in COPD

Why is PEP-Treatment Essential / Necessary



- Studies has proof that PEP together with medicine-treatment gives the best result.
- When Doctor / Physiotherapist has decide for PEP-treatment, is it important that the PEP-aid allows regularly practise.
- Studies has proof that regularly PEP, might **reduce** emergency exacerbations (Asthma-Attacks).
- The costs for hospital to treat such diagnosis is roughly **Euro; 450.00 / 24h.**

PEP-Equipment / Methods Used Today



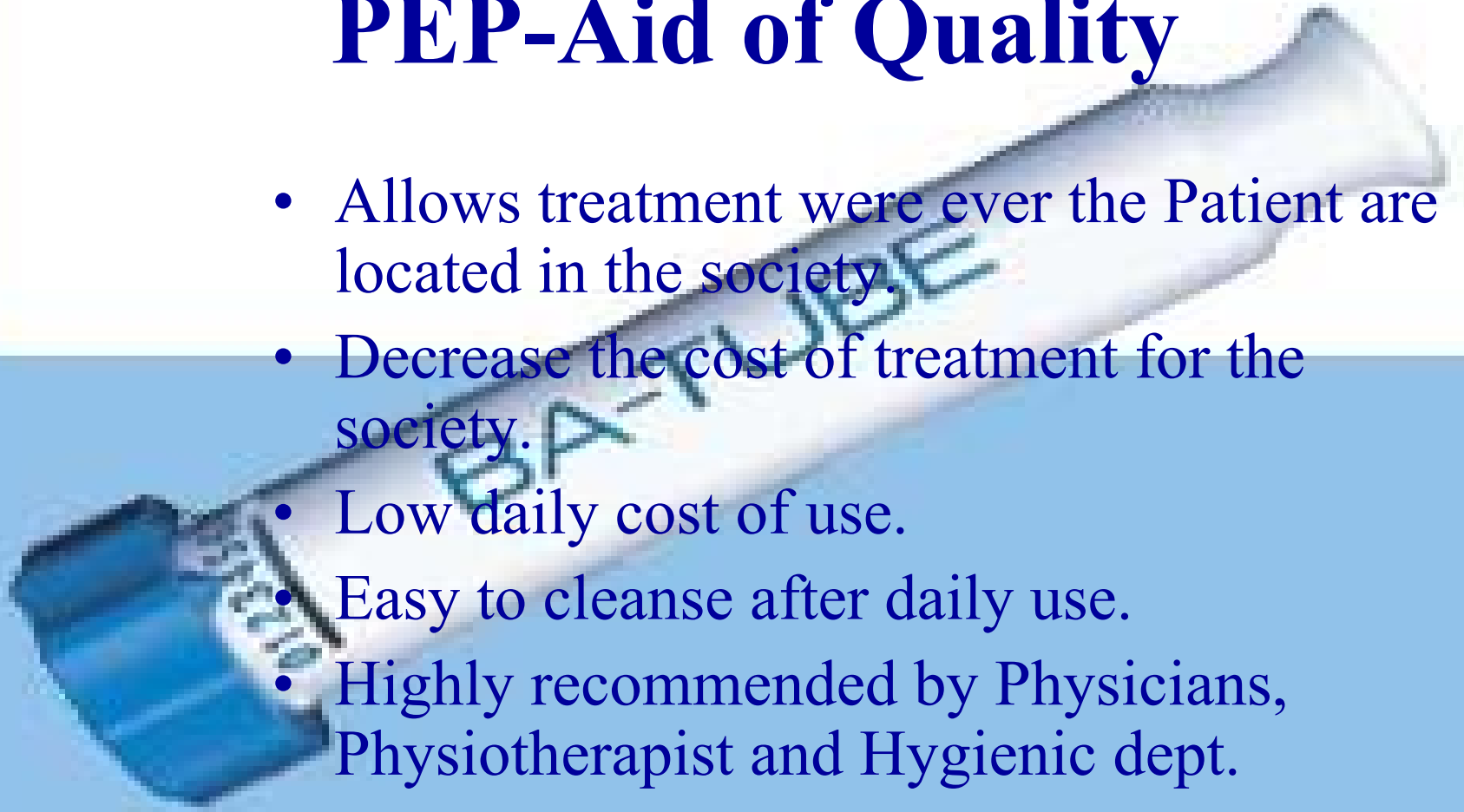
Negative Drawbacks Equipment Used Today



- **Closed Lips**
 - Hard to keep the tension for elderly.
- **Bottle of water with plastic tubing**
 - Risk of infection, expensive.
- **PEP-mask**
 - After several disinfections, lost of tightness expensive.
- **Other equipment**
 - Difficulties to cleanse, expensive.

PEP-Aid of Quality

- Allows treatment were ever the Patient are located in the society.
- Decrease the cost of treatment for the society.
- Low daily cost of use.
- Easy to cleanse after daily use.
- Highly recommended by Physicians, Physiotherapist and Hygienic dept.
- **BA-TUBE meet all this qualifications.**



Gauge For BA-TUBE

- Calibration of Correct PEP-resistance.



Gauge BA-TUBE

- Gauge especially calibrated to fit BA-TUBE.



How to Use the Gauge?

- Remove the Blue top from BA-TUBE by using the black plunger.
- Connect the red top from the gauge.

