



Information / BA-TUBE:

Target:

Lung-physicians, Physiotherapist involved amongst COPD = Chronic Obstructive Lung Disease.

PEP-Area / Treatment-Area:

Asthma, Cystic Fibrosis, Emphysema, Chronic Bronchitis plus Pre and Post-operatively training of breathing in order to prevent pneumonia after different kind of surgical treatments shall use PEP = Positive Expiratory Pressure.

Why is PEP-Treatment Essential / Necessary:

Studies has proof that PEP together with medicine-treatment gives the best result of treatment and might even **can reduce** emergency exacerbations (Asthma-Attacks). The emergency costs for hospital with such diagnosis per 24h treatment are roughly **EURO: 426.00: -**.

When decision has been taken = When Doctor / Physiotherapist has decided that PEP shall be done, there is of **essential** value that PEP-breathing can be used regularly without limits wherever the Patient are in the society (Train, Buss, Taxis, Car etc). As soon as the Patient feels a growing thickness from his chest, is it important that He / She can use the PEP device immediately.

Studies have proof that Doctors who prescribe both medicine and PEP in combination receive a better result of the treatment (see Danish study).

PEP-Treatment:

From the early beginning of this kind of treatment, Physicians respectively Physiotherapist instructed theirs Patients to practise PEP by using as so-called "closed Lips ". Based on that fact, that the major part of this category of COPD Patients is elderly people, the Clinics staff realized quit soon that " closed Lips technique " did not achieve expected or wanted quality in the treatment of reason as follows;

1. The Major part of the Patients has difficulties to held exact tense of their Lips during the out blowing period.
2. Irregularly periods of out blowing some short some long etc.
3. Some out blowing was done to hard (with risks for Alveolar damage) respectively to soft (no therapeutic effect).

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Based on experience and received knowledge from above mentioned, the Clinic Staff, started to use different kind of PEP-equipment in order to eliminate above mentioned negative effects respectively to achieve the same pressure during the out blowing period and thereby increase the quality of the PEP-treatment for this category of Patients and thereby automatically decrease the costs of treatment for Hospital, Institutions etc. **Sources: M.D. Professor Olle Zetterström Dept. Lung Medicine, Asthma and Allergy Centrum University Hospital of Linköping Sweden.**

PEP-equipment that is used today:

Bottle of water with a plastic tubing cut of into a suitable length and PEP-mask in rubber material.

Economy PEP-equipment:

Bottle of water with plastic tubing; The bottle is for the hospital free of charge but they must buy the plastic tubing. The cost for each piece of plastic tubing is roughly EURO: 0.10 – 0.15: - per piece. In order to prevent the risk of bacterial growing in the plastic tubing, the hygienic dept. recommends the use of the plastic tubing max 24h and shall thereafter be replaced with a new one. This is equal with a PEP-treatment-cost of roughly **EURO: 36.50 – 419,75 per year.** Freedom for the Patient strictly limited, or have you seen Patient with Bottle and Tubing at the Bus, Train etc.?

PEP-mask; Material rubber is used mostly in clinics. Price is roughly EURO: 117.00: - exclusive Gauge. After several disinfections – 10 – 15 times - of the mask the material will start to lose the tightness around the face of Patient.

BA-TUBE:

Gives the Patient great freedom of PEP-treatment were ever the Patient are in the society = Allows frequently use = Better result of treatment.

Product Guaranty; CAS AB grants the material of BA-TUBE under normal handling up to one year / 365 days from the date of buying. Products with defects based on fault from material or production will be replaced free of charge within this period. This guaranty **is not valid** for the text printed on the Tube, which can disappear after several cleanings in the dish up machinery.

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PEP-Treatment costs BA-TUBE:

Hospital as well as Patients buys the BA-TUBE from their local pharmacy (In Sweden).

The price from pharmacy is EURO: 13.30: - per piece inclusive VAT. Guaranty one year from the date printed on receipt.

This is equal with a PEP-treatment-cost of 365 days / EURO: 13,30: - = EURO: **0.04: - per day.**

Freedom for the Patient unlimited.

Hygienic aspects BA-TUBE:

BA-TUBE is highly recommended by Lung-physicians, Physiotherapists and Hygienic-Nurses.

Market:

Amongst each countries population 6 – 8 % have the diagnosis COPD, 10% of those Patients needs more or less regularly PEP-breathing each day. A country with large number of smokers from cigarettes etc. is the estimated number roughly 8 – 10 %.

Summary:

PEP-Aid of quality allows treatment as soon as the Patient feel growing thickness from his chest were ever the Patient are in the society without making attentions.

PEP-Aid of quality is easy to cleanse after daily use.

PEP-Aid of quality decreases the cost of treatment for the society.

PEP-Aid of quality has a low daily cost of use.

PEP-Aid of quality is highly recommended by Physicians, Physiotherapist and Hygienic Nurses.

BA-TUBE meet above mentioned qualifications.

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