



Easy steps to lung recruitment

– with Flow-i and Flow-e in the OR

Because you care about post-op complications



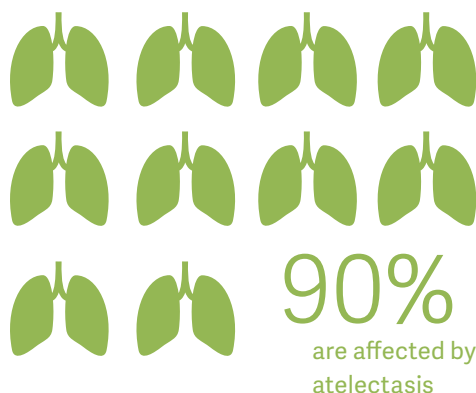
As caregivers, you intend to restore or preserve a patient's health, and you also do your best to avoid possible complications related to the treatment.

Whenever patients are anesthetized, there is a risk for postoperative complications caused by a collapse of the alveoli. Indeed, atelectasis affects over 90%¹ of patients undergoing surgery, regardless of gender, age, health condition or length of surgery.

Far from being only a short-time side effect, atelectasis has been shown to persist in patients' lungs long after they leave the operating room.² While patients risk inflammatory response, this can increase hospitals' costs unnecessarily.

Potential postoperative complications:¹

- hypoxemia
- pneumonia
- local inflammatory response
- ventilator induced lung injury (VILI)

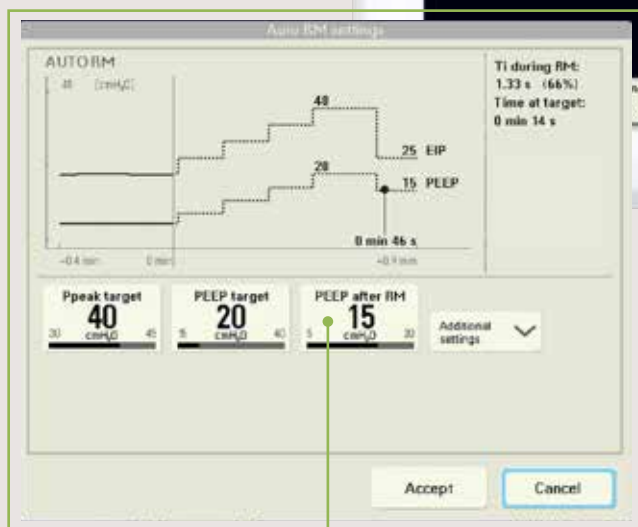


Gentle steps against atelectasis

Lung recruitment maneuvers have become the tool of choice to counter atelectasis. Still, many clinicians find it somewhat complicated and time-consuming to apply lung protective ventilation strategies — but it doesn't have to be.

EIP (End Inspiratory Pressure), PEEP and Cdyn are presented breath by breath in real time for easy assessment of compliance changes in relation to PEEP changes.

Knowing the time to target helps OR workflow planning.



PEEP can be programmed to be applied at the end of the procedure to help sustain open lungs.



The automatic recruitment maneuver starts and stops with the touch of a button.

Automatic and stepwise lung recruitment

Lung recruitment with Getinge's Flow-i and Flow-e allows you to choose between an automatic or manual maneuver. Whichever you choose, the recruitment will be stepwise. This feature aims to gently open the alveoli to make a lasting difference — for you and for your patients.

In the automatic recruitment maneuver (RM), a stepwise increase in pressure is applied for a time period set by

the user. It's designed to reduce the occurrence of hemodynamic compromise. Flow-i and Flow-e measure and display the dynamic compliance in real time, which is used to find the optimal lowest PEEP that keeps the lungs open.

With RM trends, you can tailor the settings for your individual patient and can perform lung recruitment manually.

"It's simple, it's safe and it's efficient, and it gives really good feedback in terms of the advantages conferring on the patient."

Dr. Martin Shields, Belfast, UK



Watch clinicians give feedback on Flow-i's lung recruitment tool.
<https://wi.st/3sJfMBA>

"Flow-i's lung recruitment tool allows me to concentrate on the patient and spend less time focusing on setting up the machine."

Dr. Martin Shields, Belfast, UK



Watch Dr. Ferrando speak about atelectasis in the OR.
<https://wi.st/39y1fkL>

References

1. Tusman G, Böhm SH, Warner DO, et al. Atelectasis and perioperative pulmonary complications in high-risk patients. *Curr Opin Anaesthesiol*. 2012 Feb;25(1):1-10.
2. Lindberg P, Gunnarsson L, Tokics L, et al. Atelectasis and lung function in the postoperative period. *Acta Anaesthesiol Scand* 1992; 36:546-53.



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