



INTRODUCING HIGH FLOW OXYGEN THERAPY TO OUR CLINICAL ROUTINE

AquaVENT® FD140i Dual Therapy Gas Flow Driver

BACKGROUND

Every year, the Clinic for Internal Medicine treats over 2,600 patients with conditions covering the full spectrum of general medicine, including critically ill and high-risk patients requiring respiratory support during procedures.

PROBLEM OR CHALLENGE

Before we started using the AquaVENT® FD140i, oxygen delivery in our Intensive Care Unit and during endoscopic procedures was limited to low-flow oxygen therapy. This caused real challenges, particularly for high-risk patients and during longer procedures performed under sedation. In these situations, patients were more prone to hypoxemia and often required higher oxygen concentrations to maintain adequate oxygenation. At the same time, relying on low-flow oxygen therapy at high application rates increased the risk of hypercapnia. These limitations made it more difficult for us to maintain stable respiratory conditions for patients throughout procedures.

SOLUTION

Introducing the AquaVENT® FD140i has made a big difference. The system can deliver oxygen flows of up to 80 L/min, and its single unit incremental controls for both flow and oxygen concentration allow us to adjust therapy precisely for each patient. This level of control helps us manage hypoxemia more effectively during procedures and maintain optimal humidification. At the same time, the improved CO₂ washout provided by high-flow oxygen therapy significantly reduces the risk of hypercapnia compared with conventional low-flow oxygen therapy. In addition, we found the AquaVENT® FD140i quick and simple to set up, and straightforward to operate. The device has multiple uses, including the delivery of effective CPAP therapy, which makes it a versatile machine in both endoscopy and intensive care settings.

BENEFITS AND OUTCOMES

Since introducing the AquaVENT® FD140i to our Intensive Care Unit, we've experienced notable improvements in patient safety and quality of care. We've observed fewer episodes of hypoxemia during procedures and a lower risk of hypercapnia. The humidified oxygen delivery also helps prevent the drying of mucous membranes, which reduces irritation and improves patient comfort. Overall, the AquaVENT® FD140i allows us to provide more stable respiratory support with precise, adjustable therapy, while fitting seamlessly into our daily clinical routine.



PROFILE

MSZ UCKERMARK HOSPITAL ANGERMÜNDE

Dr Med. Christoph G Arntzen,
Chief Physician & Medical Director

Mr Andreas Talkowsky,
Respiratory Therapist (DGP)

INTENSIVE CARE UNIT/ ENDOSCOPY UNIT

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