LiquoGuard® 7

Enhancing patient outcomes with automated CSF management

LiquoGuard® 7 by MÖLLER Medical is an advanced, fully automated system for managing cerebrospinal fluid (CSF) drainage. It offers critical advantages over traditional gravity devices for external ventricular (EVD) and lumbar drain (LD) patients, where precise control of intracranial pressure (ICP) and reduced infection risks are critically important. LiquoGuard® 7 enhances patient safety, improves outcomes, and streamlines workflows in the neurocritical care setting.

Improved patient safety

Minimizes accidental over- or underdrainage and significantly reduces the incidence of postdural puncture headache.

Fully automated

Regulates drainage by pressure, volume, or both – ensuring positive outcomes.

Get patients moving

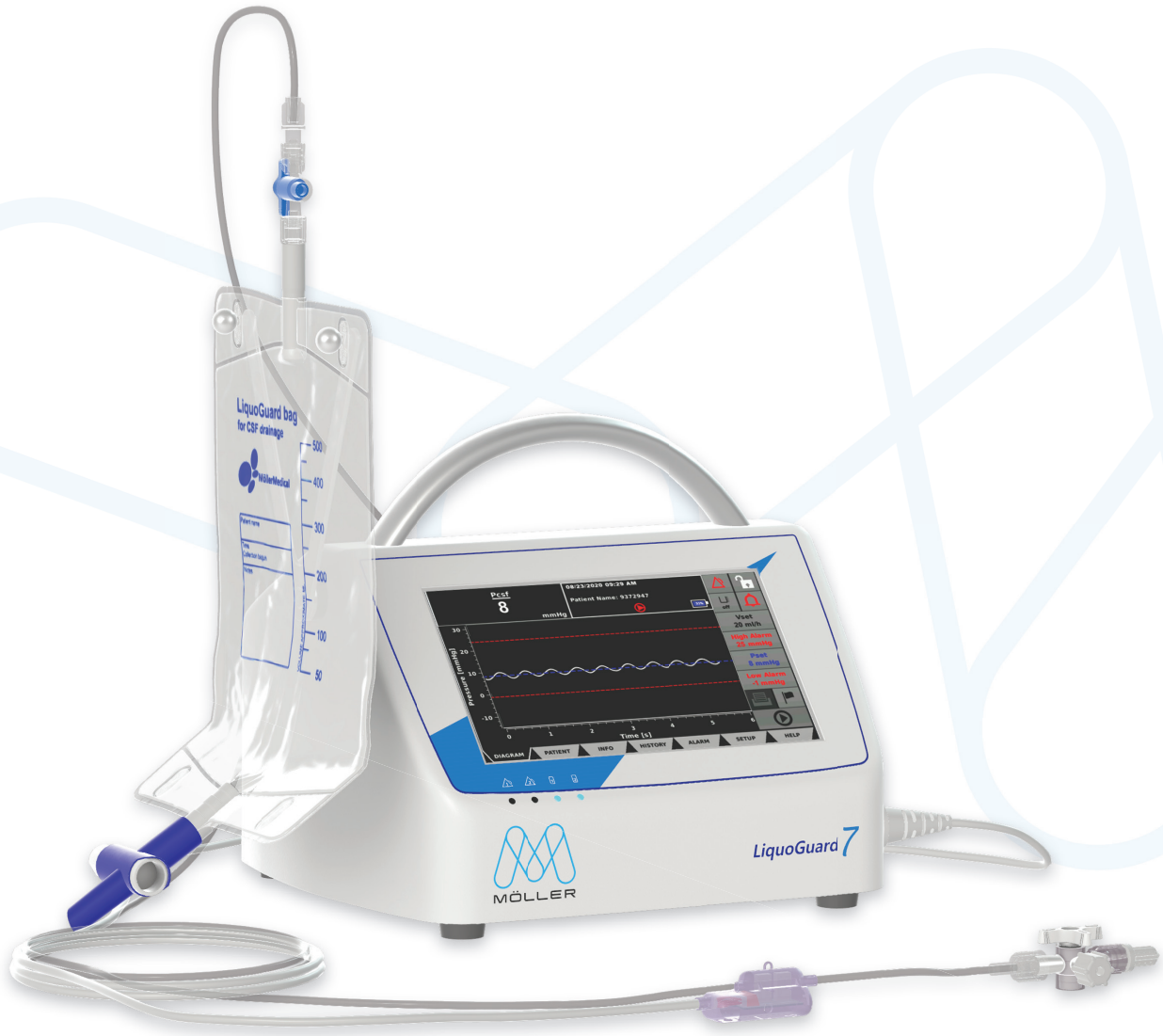
Allows for early ambulation leading to quicker recovery times and increased patient satisfaction.

Reduce hospital costs

Reduces nursing time by up to 90% and permits patient care outside the ICU.

Documented care

Continuously monitors drainage statistics with one-touch access.



LiquoGuard® 7
The smart solution for EVD management

Reduced infection risk

LiquoGuard® 7 reduces the need for manual intervention, which minimizes contamination risks and lowers the incidence of infections such as ventriculitis[1], thus enhancing patient safety and providing greater peace of mind for the clinical team.

Better patient outcomes

Consistent CSF pressure management with LiquoGuard® 7 prevents dangerous intracranial pressure (ICP) spikes, supporting neurological recovery and minimizing the risk of complications during EVD treatment. This contributes to faster recovery times and better long-term outcomes for patients.

Improved ICU efficiency

LiquoGuard® 7 supports early patient mobility by automatically maintaining a safe and stable intracranial pressure[4]. This important feature frees up valuable nursing resources by minimizing the time spent manually adjusting a gravity-based drain.

Minimized complications

LiquoGuard® 7 precisely controls intracranial pressure, significantly reducing the risk of over- or underdrainage and protecting patients from serious complications[2]. LiquoGuard® 7's integrated alarm system detects a catheter or drain line occlusion ensuring prompt intervention and improved patient safety[3].

Cost savings

LiquoGuard® 7 reduces the need for additional interventions, which lowers complication rates and leads to a substantial cost savings for the hospital. Research shows an automated system like LiquoGuard® 7 requires less intensive monitoring, which ultimately reducers overall treatment cost[5].

LiquoGuard® 7 offers significant advantages when managing external ventricular and lumbar drains by reducing the risk of infection, minimizing complications, and improving patient safety and outcomes. Automated CSF drainage with LiquoGuard® 7 enhances ICU efficiency, translating into cost savings for the hospital and making it the ideal choice for medical centers looking optimize patient care and nursing resources while staying at the forefront of medical innovation.

References

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[4] *Khan, D., et al. (2023). Patient-specific automated cerebrospinal fluid pressure control to augment spinal wound closure: a case series using LiquoGuard®. British Journal of Surgery.*

[5] *Lieberson, R., et al. (2017). An Automated, Gravity-driven CSF Drainage System Decreases Complications and Lowers Costs. Cureus.*

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