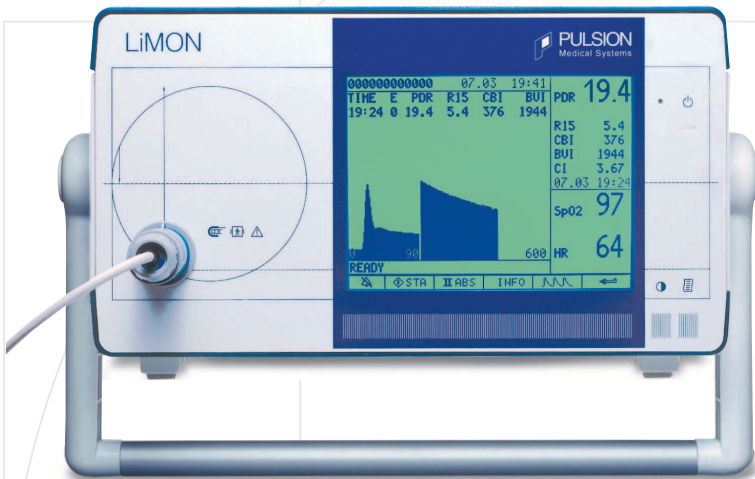


LiMON

Liver function / splanchnic perfusion – non-invasive



- ✓ Global liver function from the elimination of the diagnostic drug ICG-PULSION: Plasma Disappearance Rate (PDR), Retention Rate after 15 min (R15) and Blood Clearance of ICG (CB)
- ✓ Circulating Blood Volume (BV)



Advantages:

- **Non-invasive measurement** Uses a non invasive sensor and any venous access
- **Quick information** Bed-side results are obtained within few minutes
- **Specific parameters** ICG-PULSION elimination is the most sensitive and earliest indicator of liver function and splanchnic perfusion
- **Simple application** Results not user dependent, up to 20 measurements per 24 hours
- **Time and cost saving** due to early diagnosis and therapy
- **High prognostic value** scientifically proven by several publications⁺

Application:



- Start** Attach sensor to the patient and enter patient data
- 2 min** Prepare ICG-PULSION solution for injection
- 2 min** Inject ICG-PULSION solution intravenously
- 6 min** Measurement results available
- 10 min**

Measured parameters:

PULSION LiMON printout (excerpt)					
Pat ID		24.07 22:15			
SpO2	96				
HR	85				
TIME	E	PDR	R15	CB*	BV*
08:34	0	4.8	32.5	136	2840
14:02	0	12.6	25.8	375	2980
22:13	0	24.9	12.8	778	3125

* results related to Body Surface Area

After only 10 minutes you know:

- Plasma Disappearance Rate of ICG-PULSION (PDR)
- Retention Rate of ICG-PULSION extrapolated to 15 minutes (R15)
- Blood Clearance of ICG-PULSION (CB)**
- Circulating Blood Volume (BV)**

** requires to enter cardiac output

Continuously measured parameters:

- Arterial Oxygen Saturation (SpO2)***
- Heart Rate (HR)

*** not available during ICG measurement

→ **Specific, sensitive parameters with reproducible results – no ifs and buts!**

Fields of application:

Monitoring of elimination of ICG-PULSION with the LiMON is indicated

- in all critically ill patients, especially those with sepsis, acute liver or multi-organ failure, and after multiple trauma
- in patients with chronically reduced hepatic function (hepatitis, liver cirrhosis)
- for evaluation of liver function in organ donors and recipients
- for perioperative monitoring of liver function during liver surgery (resection, porto-caval shunt)
- for diagnosis and monitoring of congenital liver failure in children and neonates

For further information on indications, contra-indications, and potential side-effects of ICG-PULSION please refer to the packaging insert of this diagnostic drug.

* Literature

Kimura S, et al: Indocyanine green elimination rate detects hepatocellular dysfunction early in septic shock and correlates with survival. Crit Care Med. 29:1159-63, 2001

Sakka S, et al: Prognostic Value of the Indocyanine Green Plasma Disappearance Rate in Critically Ill Patients. Chest 122: 1715-20, 2002

Further literature on request

Ordering information:

Article no.

PC5000

PC50201

PC50150

PV50100

PV50200

Product description

LiMON Liver Function Monitor (incl. PC50201, 5 pcs. PV50100, 5 pcs. PV50200): HxWxD: 158x260x250 mm, weight: 3.2 kg, mains connection 230/115 V, 50/60 Hz. Results displayed on LCD screen and printer, RS 232 serial interface.

Adapter cable for connection of the sensors to the LiMON

Re-usable finger clip sensor for adults and children > 30 kg BW, latex free

Disposable sensor for adults and children > 30 kg BW, latex free

Disposable Sensor for adult's earlobe and infants/neonates, latex free

Technical specifications are subject to change without further notice



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