



liana

Seat- and Stand-Stabilizer



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HELPER FOR HELPERS

Professional
early mobilization
on the edge
of the bed



**Professional early mobilization
on the edge of the bed
using our Seat- and Stand-Stabilizer**

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YOUR BENEFITS

Patient

- ❖ Fast HEALING PROCESS
- ❖ Less STRESS / FEAR
- ❖ ACTIVE upright sitting / standing
- ❖ Ground contact
- ❖ Heart- / circulation training
- ❖ Breathing exercise
- ❖ Delirium prophylaxis
- ❖ Muscle development
- ❖ Pneumonia prophylaxis
- ❖ Food intake
- ❖ Encouraging the mobility

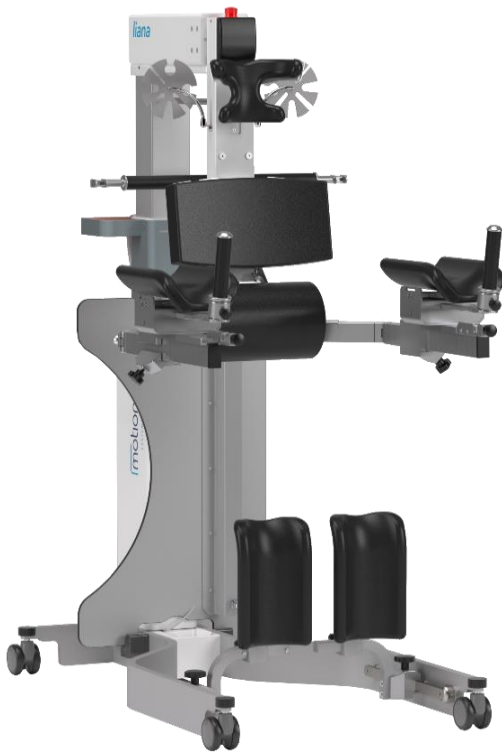
**Nurse /
Physio-
therapist**

- ❖ Low level of physical strain
- ❖ Less Stress
- ❖ Highest safety
- ❖ Low expenses
- ❖ Easy handling
- ❖ Visible improvement of the patient
- ❖ Improve motivation and satisfaction
- ❖ Possibility of minimally invasive and/or endoscopic surgery

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**Health
facility**

- ❖ Less personnel deficit
- ❖ Satisfied personnel
- ❖ Less staff shortages
- ❖ Cost reduction (patient can leave the intensive care unit earlier + time-saving in the process)
- ❖ Low maintenance and service costs
- ❖ Possibility of financing / leasing / rent



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**Developed by
medical professionals
for medical professionals!**

**Relieve your
care staff!**

Using the seat- and stand-stabilizer, easy and effective mobilization on the edge of the bed !

The movement of patients in need of intensive medical care is one of the greatest physical challenges, which a nurse has to master everyday. The transfer of patients out of the bed to start the mobilization process (AEDI's) involves considerable physical stress and is embarrassing - on both sides. With LIANA, a genuine innovation in the care sector, MOTIONCARE® offers the right approach to simplify this work clearly visible in care centers, intensive care units as well as in the home care sector.

The seat- and stand-mobilizer LIANA supports the mobilization process directly on the edge of the bed. The bedridden patient can be mobilised without any physical exertion. For example, to prepare the patient for the therapy, change his visual field or to mobilize him on the edge of the bed.

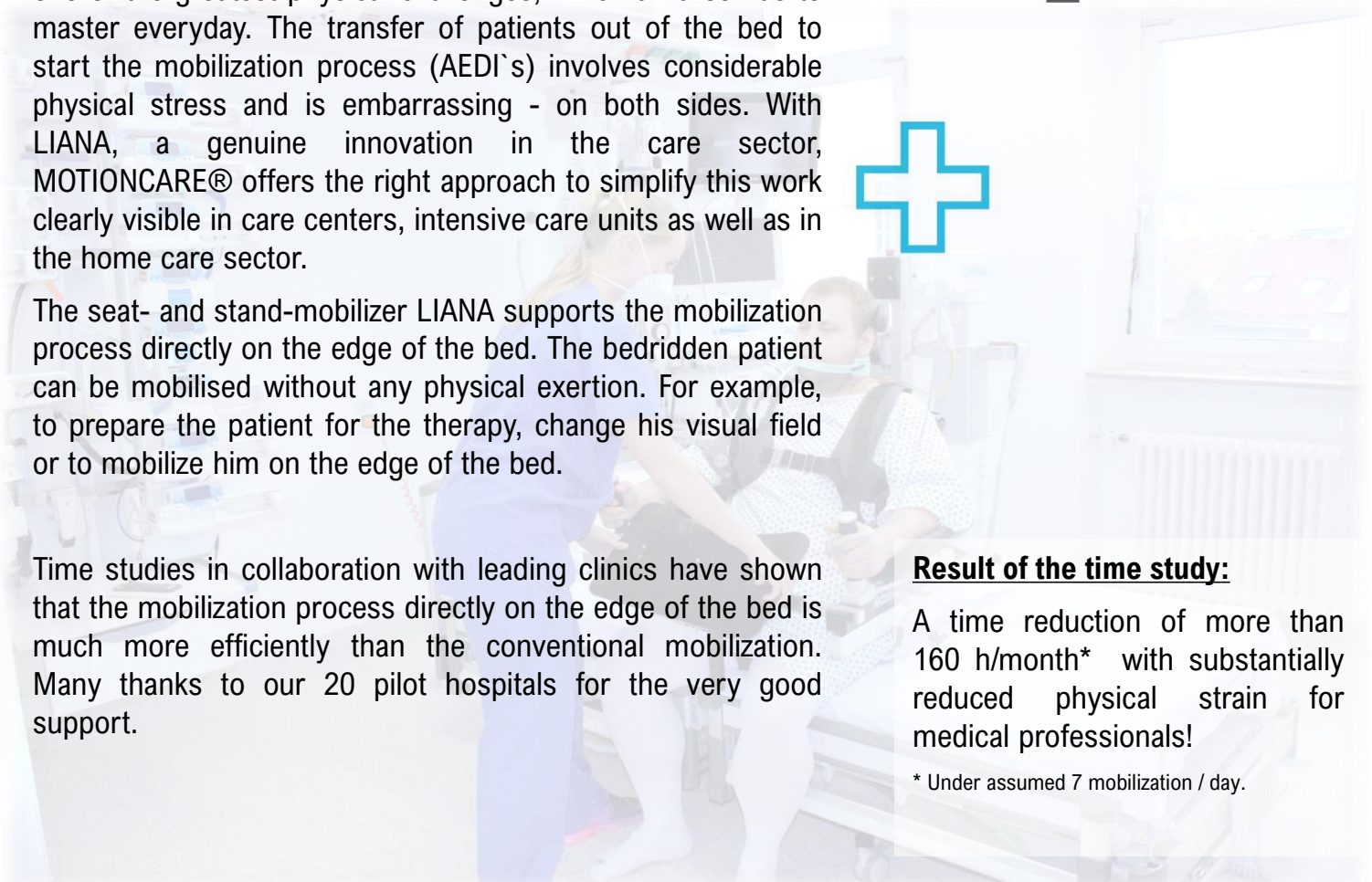
Time studies in collaboration with leading clinics have shown that the mobilization process directly on the edge of the bed is much more efficiently than the conventional mobilization. Many thanks to our 20 pilot hospitals for the very good support.



Result of the time study:

A time reduction of more than 160 h/month* with substantially reduced physical strain for medical professionals!

* Under assumed 7 mobilization / day.



For your patients!

Mobilization with the support of LIANA is effected by the highest quality standards and requirements in patient safety. LIANA represents a facilitation for all sides.

In addition to the purely practical benefits for hospitals and care centers, LIANA from MOTIONCARE® has also a positive effect on patients. The result is a lower delir rate, a reduced delir duration, an improvement in motor symptoms as well as better cognitive functions and a stabilization of pulmonary and cordial functions.

Therapeutic benefits, that goes beyond the basic functions as care aid.

Easy early-mobilization after:

- Heart attack
- Stroke
- Accident
- Multiorgan dysfunction
- Extra-corporal membrane oxygenation (ECMO)
- Dialysis
- Operation such as:
 - Spinal surgery
 - Disc surgery
 - Open-heart sugery
 - Head injury



Additional advantages of early mobilization with LIANA

Earliest possible mobilization directly on the edge of the bed with intubated patients in consideration of **RASS -1,-2,-3** (Richmond Agitation Sedation Scale)

Quicker and easier **return of the patient** into the bed (very important at circulatory instability/ circulatory arrest) **within 5 minutes**

Extensions of tubes/cables will not be required

Lower stress for the patient

Lower risk, katheter or something similar cannot be extracted accidentally

Max. 2 nurses are required

Promotion of patient **mobility**

Physiologically standing / stand up

For all intensive care patients

For all intermediary patients

Aktive / upright sitting on the edge of the bed

Aktives / aufrechtes Stehen direkt vor dem Bett (auf 1m²) / auch bei beatmeten Patienten

No deprivations of liberty of patients

Further viusal stimuli can be setted **several times daily**

Ground contact for the patient

Heart-/cirulatory training / Breathing exercise

Delirium prophylaxis

Muscle development

Pneumonia prophylaxis

Food intake

Process of standing also possible at one-legged patients

AT the seat-mobilization **no trunk stability** of the patient **needed**

"... finally a medical product, that really helps patients and nurses !!!"



Boris Badertdinov
Specialised medical professional
Idea provider and co-developer

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MAKES A HARD
JOB EASIER

Professional
early mobilization
on the edge
of the bed



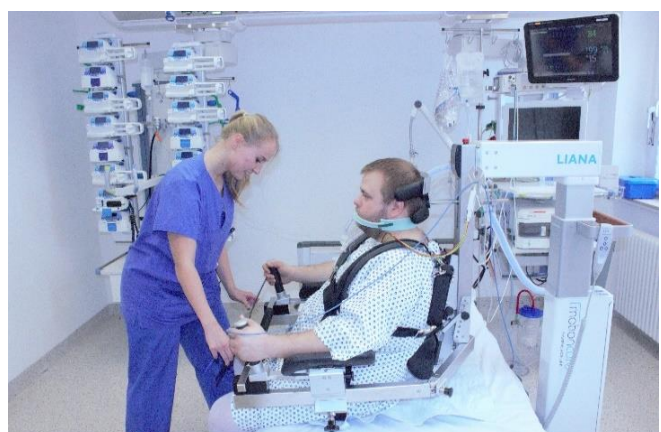
the FIRST SITTING

Also, without trunk stability !

Highest safety for patients and nurses.

Simply raising up the patient in the bed, pushing LIANA from behind to the patient, THAT'S ALL!

Improve life expectancy and quality of life of the patients.



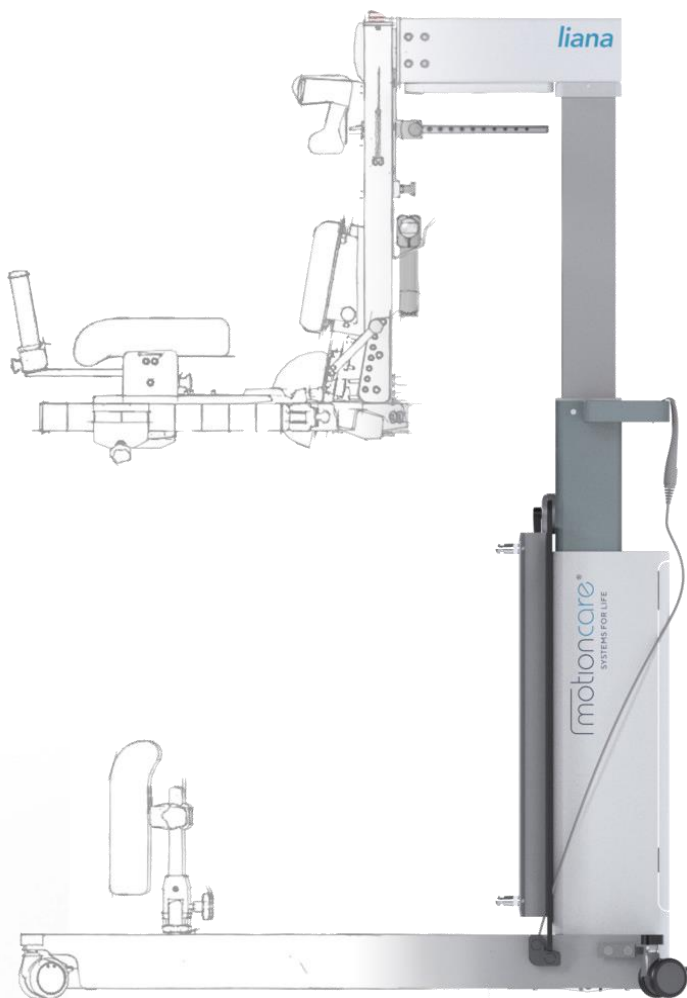
the FIRST STANDING

On only 1m² directly in front of the bed!

Highest safety for patients and nurses

Simply raising up the patient in the bed, pushing LIANA from the front to the patient, raising up the bed and LIANA simultaneous, THAT'S ALL!

Improve life expectancy and quality of life of the patients.



Possible by only 1, max. 2 nurses!

ACCESSORIES

Armrest right/left



Art.-No.: LNA.55.66
incl. foamed upholstery. Manual lengths- and lateral adjustment. Incl. connection for handle (Art.-No.: LNA.70.02), table (Art.-No.: LNA.71.01) and T-element (Art.-No.: LNA.36.00) Material: stainless steel

Headrest



Art.-Nr.: LNA.33.00
incl. foamed head cushion. Manual lengths- and height adjustment. Adjustable via ball joint. Incl. head strap. Material: stainless steel

Legrest right/left



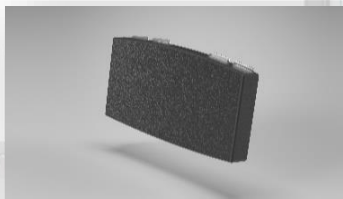
Art.-Nr.: LNA.04.49
incl. foamed leg cushion. Manual lengths- and height adjustment. Incl. holder (Art.-No.: LNA.04.99) and clamp (Art.-No.: LNA.06.01) for attaching to the side rails. Material: stainless steel

Handle right/left



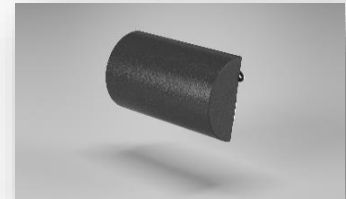
Art.-No.: LNA.70.77
Removable. For attaching to the connection armrest (Art.-No.: LNA..55.00/01) quick lock. Material: aluminium

Backrest cushion



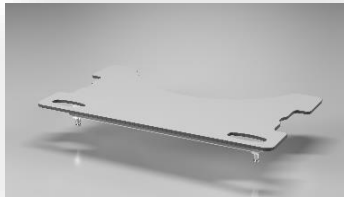
Art.-No.: LNA.99.20
Foamed. For attaching to the integrated backrest

Lumbar support cushion



Art.-No.: LNA.99.23
Anti-decubitus padding. For attaching to the integrated lumbar support

Table



Art.-No.: LNA.71.00
Removable. For attaching to the connection armrest (Art.-No.: LNA..55.00/01) quick lock. For food intake.

T-Element



Art.-No.: LNA.36.00
Fall out protection upholstered to use in conjunction with stabilizing straps (Art.-No.: LNA.00.85). Material: stainless steel

Tubeholder (Ullmer wheel)



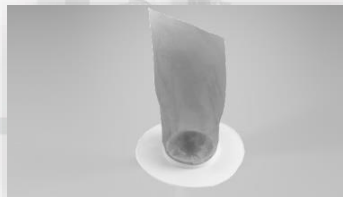
Art.-No.: LNA.00.62
For attaching right and left to the device.

Strap - set



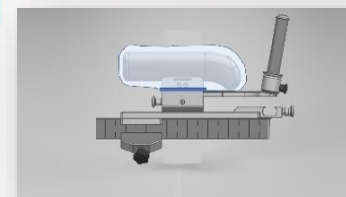
Art.-No.: LNA.00.85
Consisting of body- and lumbar strap / upholstered

Handle cover



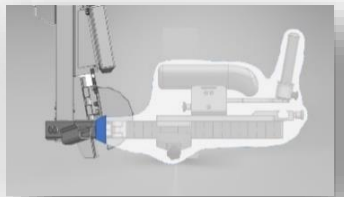
Art.-No.: L-308-02
Disposable material. Steril cover for handle (Art.-No.: LNA.70.02)

Arm-Pad cover



Art.-No.: L-03-KP 14
Disposable material. Steril cover for Arm-Pad

Armüberzug



Art.-No.: L-ND-15070
Disposable material. Steril cover for the complete arm-construction

Ladegerät



Art.-No.: LNA.00.82
Wallmounted charger for charging the battery (Art.-No.:LNA.99.66)

Akku / Batterie



Art.-No.: LNA.99.66
Rechargeable battery PSS LIANA

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FOR
HELPERS

Early mobilization
on the edge of the bed



Therapeutic possibilities with LIANA

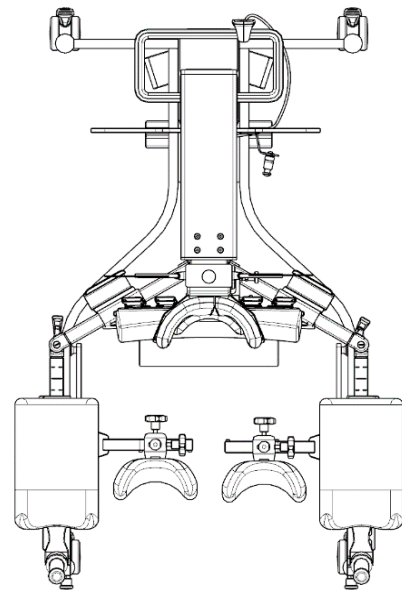
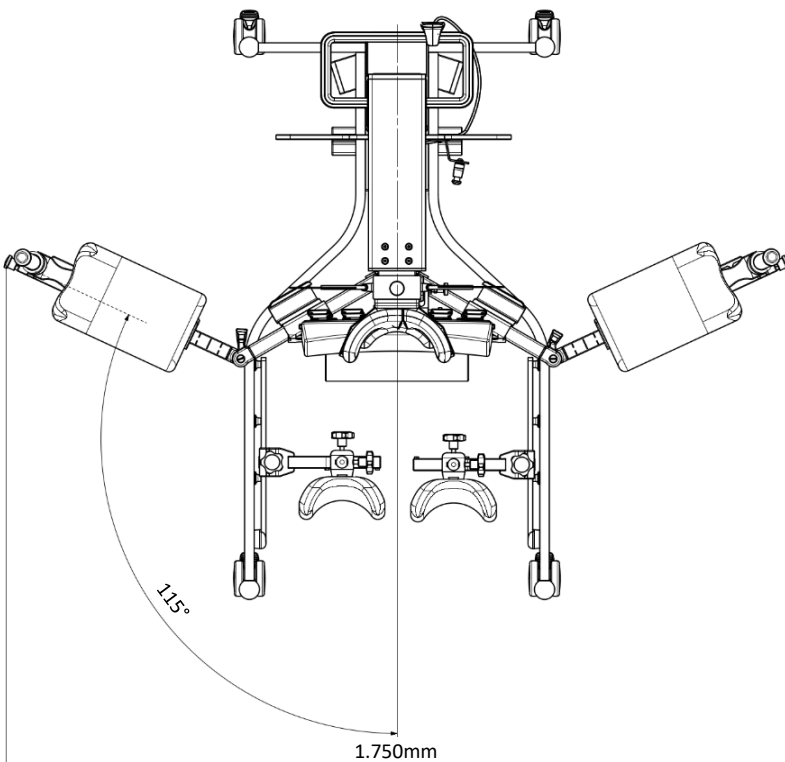
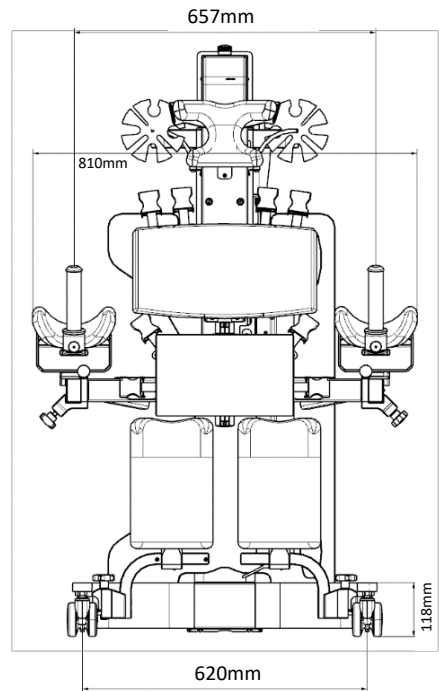
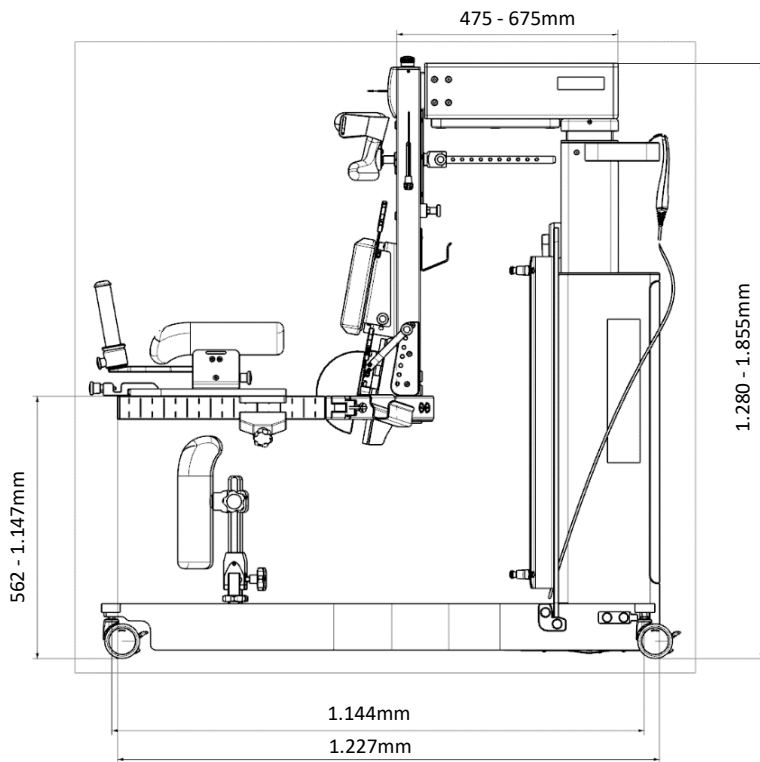
HELPER FOR HELPERS - but **not only** in the field of early mobilization.

The following therapeutic interventions are possible by using LIANA without operation room reservation and without an operation table:

- **Bronchoscopy**
- **Lumbar puncture**
- **Pleura puncture**
- **Weaning**
- **Endoscopic examination**



Dimensions and adjustment



Specification

PARAMETER	CODE MARKING	VALUE	UNIT
Medical device class	1		
Total height	A	1870	[mm]
Min. height	A	1270	[mm]
Total width	n/a	1750	[mm]
Nominal width	C	555-755	[mm]
Total length	B+750	1420	[mm]
Height of elevation	n/a	600	[mm]
Extension length	B	470-670	[mm]
Turning circle	n/a	3000	[mm]
Minimum/ maximum backrest position	n/a	555 - 1750	[mm]
Total weight	n/a	120	kg
Chassis weight with steering column	n/a	approx. 86	kg
Weight of backrest system	n/a	approx. 34	kg
Battery weight	n/a	2,9	kg
Max. load (column stroke)	n/a	250	kg
Voltage of charging station	n/a	100-240 (37-53)	V(VA)
Voltage output	n/a	24 (maks 250)	V(VA)
Max. consumption	n/a	400	VA
Labour productivity	n/a	40	Elevation
Regular work	n/a	10% or 2 min. continuous operation/18 min. break	n/a
Battery capacity	n/a	2,9	Ah
Noise level	n/a	<50	dB
Horizontal linear motor	n/a	LA 24 (900N)	n/a
Vertical linear motor	n/a	LA 34 (7500N)	n/a
Control box	n/a	CBJ2	n/a
Battery	n/a	BAJ1	n/a
Protection class of control box	n/a	IPX4	n/a
Working temperature	n/a	+5 ~ + 40	°C
Air humidity	n/a	20 - 90	%rH
Safety switch	n/a	JA	1

Time study

Comparison - early mobilization of an intensive care patient (test person) with/without LIANA

With the friendly assistance by care professionals of the hospital Barmherzige Brüder, Regensburg - Germany.

Definition intensive/critical care patient:

A patient who needs specialized care basis on life-threatening conditions and requiring comprehensive care and constant monitoring

Definition Early mobilization:

Mobilization within the first 72 hours after sudden restraining traps

The following patient access are possible:

Central venous catheter, direct arterial measuring, dialysis catheters, ECMO-catheter, urinary-catheter, tracheal canula, feeding tube, drainages

Patient-bed:

The bed is a commercially available patientbed without a wheel/motor in the middle of the bed

Description of the situation / time study:

Patient / test-person:

Intensive care patient with access described. A Patient who is in isolation due to germs. A Patient with cardiovascular support medication

Implementing persons:

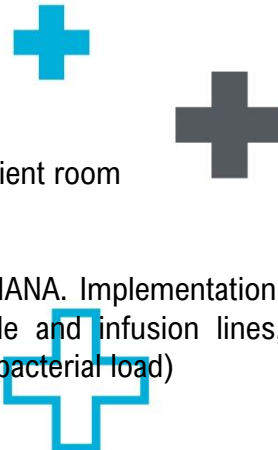
Nurse/nurse / Physiotherapist/nurse

Measurement:

The time measurement started / stopped by entering / leaving the patient room

Implementation / activities:

The patient was mobilized by a conventional mobilizing chair / by LIANA. Implementation of the measures. Patient transfer back into the bed. Placing of all monitoring cable and infusion lines, the patient was supported. Desinfection of all devices (depending on the patient and bacterial load)



Taak	Transferboard + mobilizing chair			LIANA		
	Working time (min)	Num. people	Total	Working time	Num. people	Total
Mobilization according the description above and case study	25	2	50	7	2	14
Tranfer back into the bed	10	2	20	5	2	10
Desinfection of all devices	10	1	10	5	1	5
			80			29

Time saving per application 51 Min

Working hours saved by mobilization with LIANA:								
2	Application	=	102	Min	1,7	h/day	53	h/month
3	Application	=	153	Min	2,55	h/day	79	h/month
4	Application	=	204	Min	3,4	h/day	105	h/month
5	Application	=	255	Min	4,25	h/day	132	h/month
6	Application	=	306	Min	5,1	h/day	158	h/month
7	Application	=	357	Min	5,95	h/day	184	h/month
8	Application	=	408	Min	6,8	h/day	211	h/month
9	Application	=	459	Min	7,65	h/day	237	h/month
10	Application	=	510	Min	8,5	h/day	264	h/month

Example: 6 applications / day results in a time saving of 158 h (situation above).

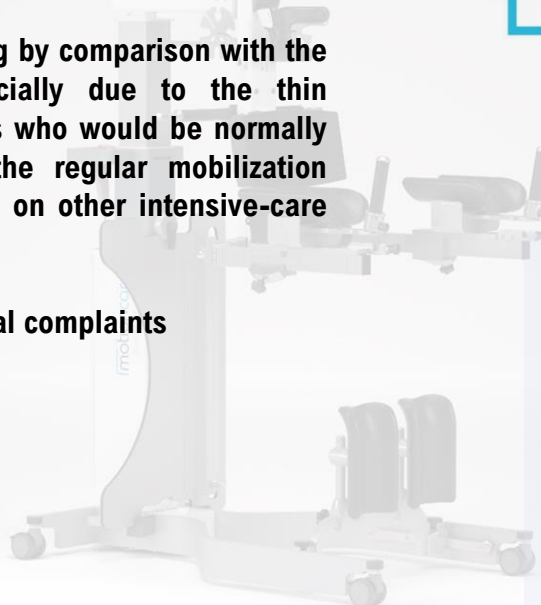


Satisfied nurses in the hospital "barmherzige Brüder Regensburg"



After using LIANA, the intensive-care-unit team of the hospital "barmherzige Brüder Regensburg" concluded that:

- **Possibility to mobilize patients who could not have been mobilized without the use of LIANA**
- **In view of the time saving by comparison with the regular methods, especially due to the thin staffing level, the nurses who would be normally involved additional in the regular mobilization process, could take care on other intensive-care patients.**
- **Fewer physical and mental complaints**



***"HELP
THOSE
WHO
HELP!!!"***

PROTECTS EMPLOYEES PATIENTS COSTS

Early-mobilization
on the edge of the bed
and directly in front of
the bed - on only 1m²





motioncare[®]
SYSTEMS FOR LIFE

A BRAND BY  **asp**
HAI-Group

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