



# AESCULAP<sup>®</sup> TOTAL pathway

Turning potential into benefit

# Turning potential into benefit

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## TOTAL pathway

Supports you to bring both together

Quality  
of care



&

Economic  
efficiency



TOTAL pathway is a consultancy concept of B. Braun to enhance the treatment of hip and knee patients. We aligned all working principles according to the ERAS® guidelines (=Enhanced Recovery After Surgery)\* which is nowadays the golden standard (1). Thanks to an excellent multi-disciplinary team work we were able to introduce modern concepts of anaesthesia & analgesia to support an early mobilization, we changed the way how we preeducate our patients and adapted our rehabilitation philosophy. As a nice side effect we were able to reduce our costs, so in fact we save 1,000 € per patient since we introduced TOTAL pathway. In the end TOTAL pathway is really a win-win situation – for the patient and the hospital (1).

**Prof. Dr. Eckart Mayr**

Chief Orthopaedic Surgeon AKH Celle, Germany

Introduced TOTAL pathway 2017



\* Guidelines developed by ERAS® society, Stockholm

# Benefits from TOTAL pathway

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## Preoperative

### Benefits for the hospital

#### » Intensive & individualized patient preeducation

- Efficient processes for patient preparation (1)
- Preoperative involvement of physiotherapy
- Increased patient safety due to antimicrobial washing and ~ 15,000 € potential savings p.a. (2, 3)

### Benefits for the patients

#### » Reduced surgery anxiety (4)

- Mental preparation for early mobilization
- Convenient surgery preparation, i.e. ERAS® adapted fasting guidelines, no need for urinary catheters





## Intraoperative

### Benefits for the hospital

#### » Anaesthesia & Analgesia protocols according to ERAS® guidelines

- Size-specific OR trays allow cost savings up to 390 € per surgery compared to standard trays (5)
- Time savings in OR & CSSD (5)
- Goal of improved changing times

### Benefits for the patients

#### » Decreased pain level & reduced nausea/vomiting (6)

- Minimally-invasive approaches for a fast recovery
- Time-proven implants & navigation for a precise implant positioning







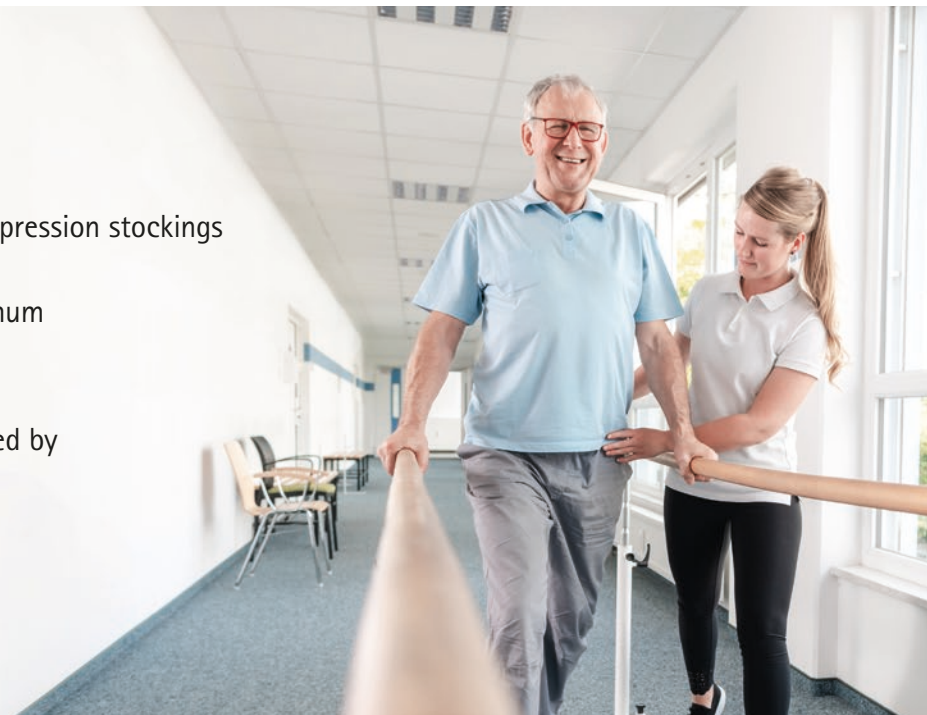
## Postoperative

### Benefits for the hospital

- 3 hours postoperative mobilization & earlier discharge fitness (7, 8)
- Reduced intensity of aftercare due to early mobilization philosophy (1)
- » Up to **50 %** reduced length of stay & cost savings up to 1,000 € per patient (9)

### Benefits for the patients

- Comfortable aftercare, i.e. no drains or compression stockings
- Mobilization on the day of surgery & maximum of independence
- Individual physiotherapy protocols, supported by tele-care solutions
- » **97 %** patient satisfaction after TOTAL pathway implementation (9)



# Optimization of your patient pathway

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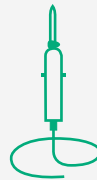
## Our solutions

B. Braun is bringing 25 years of instrument consultancy experience to the table, as well as profound expertise in process consultancy in Orthopaedics thanks to 60 implemented TOTAL pathway projects worldwide. A team of B. Braun experts analyzes your clinical processes in the current status and subsequently offers smart service and product solutions for all relevant pre-, intra-, peri- and postoperative steps (OrthoScan). All solutions follow the evidence-based ERAS® guidelines.



### Patient preeducation & activation

- Patient individual preeducation via Patient App and/or on-site patient preeducation in groups (= patient school)
- Tele-care solutions & physiotherapy exercise parkour to support an early mobilization



### Anaesthesia & analgesia

- Adaptation of Anaesthesia/Analgesia protocols according to ERAS®
- Sharing of best practice examples & exchange with TOTAL pathway reference centers
- Process optimization for Anaesthesia preparation



### Intraoperative workflows

- Reductions of OR trays
- Digital warehouse management & material replenishment for optimized logistic processes
- Customized CSSD consultation



### Infection prevention

- Consultancy in hygienic topics and save wound closure
- Antimicrobial washing

# We guide you to the next level

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## Step 1: Analysis of Status Quo | 2 days

B. Braun analyzes your patient pathways in the current status. Interviews with hospital staff are conducted and observations are done – on site or online (OrthoScan To Go).



## Step 2: ERAS® for improvement | 1 month

In order to fulfill the ERAS guidelines, individual recommendations for further improvements are given and common agreements on focus activities are achieved. Definition of project goals.



## Step 3: Implementation | 2-6 months

We guarantee a close-meshed support: Implementation of new solutions & adaptation of existing working principles; Learn from the experts: Face-to-face/online exchange with TOTAL pathway reference center; Provision of working materials; Training activities



## Step 4: Continuous improvement | 12 months

Start of a pilot phase, continuous review of clinical practice and further improvements (data-driven).



## Share success together

Success of achieved goals are shared between the contract parties

# Your advantages

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## TOTAL pathway – A win-win situation for you and the patient



### Orthopaedic surgeon

- 97 % patient satisfaction after TOTAL pathway (9)
- Efficient workflows for patient preeducation and reduced patients' anxiety
- Infection prevention



### OR care & CSSD

- Reduced tray weight & simplified instrumentation
- Efficient & safe reprocessing of instruments & containers
- Digitalized & optimized logistic workflows



### Management

- Up to 50 % reduced length of stay (9)
- Cost savings up to 1,000 € per patient (9)
- Bed capacities becoming available
- Positive hospitals' image



### Anaesthetist

- Safe & pain reduced Anaesthesia / Analgesia workflows
- ERAS® adapted protocols



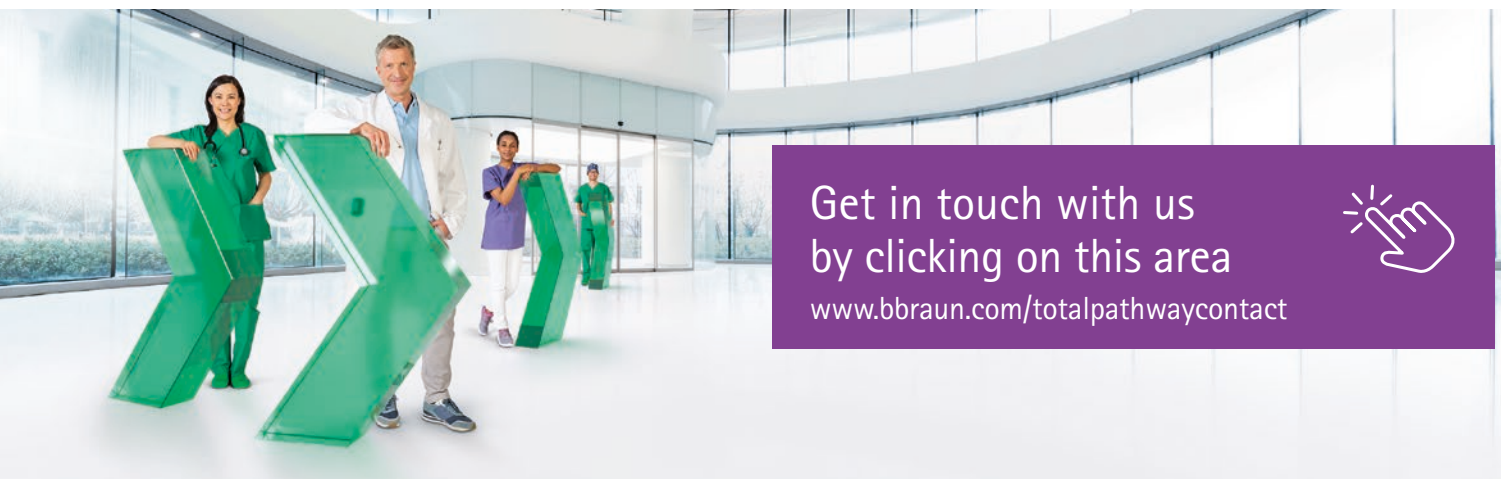
### Physiotherapy

- Digital supported physiotherapy



### Nursing

- Reduced intensity of aftercare due to early mobilization philosophy (9)



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# Literature & evidence

## AESCULAP® TOTAL pathway | B. Braun consulting solutions

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- (9) Mayr E (Allgemeines Krankenhaus Celle), Case Study. Creating added value with TOTAL pathway. ERAS® guidelines at Celle General Hospital. August 2021; Celle, Germany.

# AESCULAP® – a B. Braun brand

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