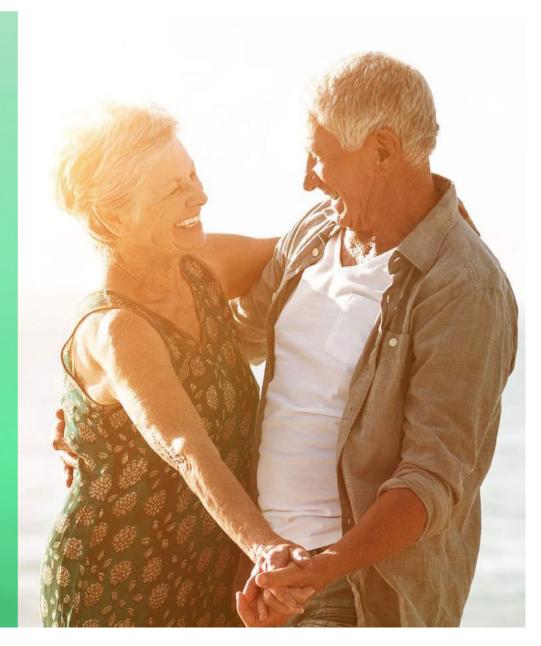


MCG

A digital solution for remote monitoring of chronic motion conditions

Hartmut Voss

25. March 2021



MCG # OSTEOARTHITIS

MCGfast-doc: More Trust In Fast-track TJA Procedures

€ 50 billion – annual healthcare cost of Total Joint Arthroplasty (TJA) in EU and US

EU USA

€ 15,000 Inpatient TJA € 28,000

Outpatient TJA € 8,000 € 19,000



2010 vs. 2017

+17%

operations

average price

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2,700,000 Total Joint Arthroplasty (TJA) in EU and US in 2017





Hip 2010 vs. 2017

- +33%
- operations

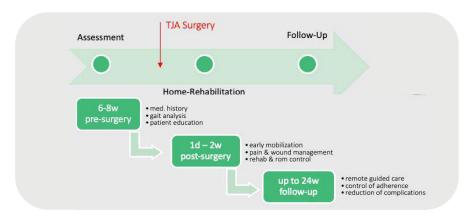
average price

PAIN POINTS

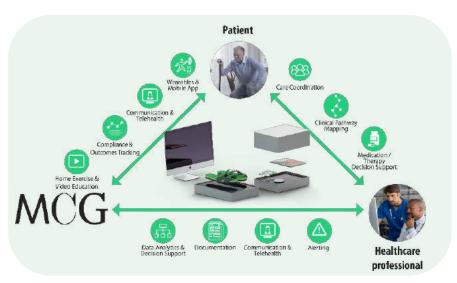
- Unsustainable cost of inpatient TJA
- Low outpatient utilization rate ~10%
- Lack of trust in fast track TJA
- Suboptimal quality assurance of the outpatient TJA and home rehab for clinicians

MCG

MCGfast-doc Reduces Costs By Promotion Utilization Of Outpatient TJA







SOLUTION

Reducing costly inpatient hospital stay.

- Establishing a direct, digital communication between patient and healthcare professional
- Delivering digital support to patients and clinicians

BENEFITS

• Increase outpatient utilization rate to >60% -> cost-reduction per patient of € 5,000 in EU and € 8,000 in US

MCGcare – The Vision

We envision modern health care being more than a video chat between a care provider and a patient

We envision access to patient's objective and subjective real-life data as needed for care without hassle and unnecessary burden, in a secure format

We envision a turn-key digital care concept consisting of i.) a digital therapy plan

- ii.) functional remote outcomes measures and vital signs control iii.) patient-reported outcomes measures
- iv.) embedded in a tele-health communication and alerting environment

#OVERVIEW MCG

MCG*care*



- ✓ Physician/therapist provides care defines therapy and monitors progress
- ✓ Patient can focus on his health follows therapy- and exercise plan from home
- ✓ MCG enables the therapy path through wearables, ML/AI analytics, outcomes tracking and communication tools

MCGcare MCG

Turn-key Solution For Remote Clinical Grade Performance Based Outcomes Monitoring

Health Care Professional

- AI/ML based decision support environment
- Therapy plan builder
- Therapy monitoring
- Disease content libraries:
 Functional outcomes tests, PROMs,
 video exercise, multi-modal treatment,
 educational
- Telemed tools



Patient

- Wearable sensors
- Functional outcomes tests
- PROMs
- Therapy plan and patient diary
- Alerting
- Video exercises and manual
- Telemed tools
- iPad

#WEARABLE IOTS MCG

Sensors & Standardized Outcomes Measures

- ✓ MCG clinical grade wearable motion sensors MCGgait & MCGrom
- Optional: OEM best-in-breed app-based IoT wearables
- ✓ Clinical grade standardized outcomes tests
- ✓ Selected Patient Reported Outcomes (PROMs)





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MCG

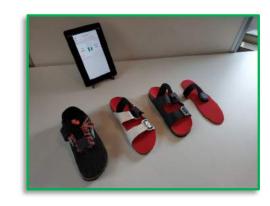




MCGgait* - Functional Outcomes Remote Measures

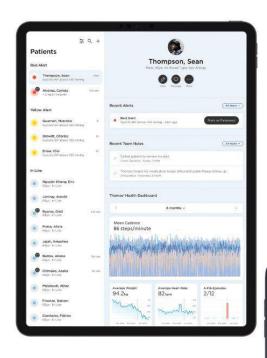


- 2min Walk Test, 6 min Walk Test (2MWT, 6MWT)
- > 10m Walk Test (10mWT)
- > 1 min Sit to Stand Test (1mSTST)
- > 12 step Stair Climb Test (12SCT)
- > Timed Up & Go (TUG)
- Instructions
- Automated analyses
- High speed secure data transfer
- For standardized test& exercises



* We are certified according to ISO EN DIN 13485

Outcomes And Compliance Tracking



- Remote functional outcomes tests and PROMS according to therapy plan
- ✓ For patient:
 - Follow treatment plan, stay motivated and informed.
 - Actionable, individualized insights
- ✓ For provider:
 - Quickly see an overview of all patients currently under care
 - Validated outcomes and novel real-world biomarker qualification
 - All data are securely recorded, evaluated and documented

Thank you!



Hartmut Voss
CBO
hvoss@motioncapturegroup.com
Tel. +49 176 1918 1716



Michael Weber
CEO
mweber@motioncapturegroup.com
Tel. +49 172 3400 814

www.motioncapturegroup.com

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