

Software Platform, Services & Personalized Implants Powered by Al For Radically Improved Spinal Care

# COWEN 39th HEALTH CARE CONFERENCE

March 12, 2019

#### SAFE HARBOR

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### MEDICREA AT A GLANCE



## **KEY FACTS**







## UNID ASI

- Innovative software-driven service-oriented approach to complex spine
- 3,500+ UNiD ASI cases performed WW since launch



## FIRST TO MARKET

- First-to-market patient-specific implants for the spine (2013)
- FDA clearance (2014) & US launch of UNiD® rods (2015)
- UNID HUB software platform (2017)
- 3D-printed patient-specific cages FDA cleared (2018)



- Headquarters and manufacturing facilities in Lyon, France
- 210 employees worldwide including 40 in the USA



### FINANCIAL PERFORMANCE

- 2018 revenue: \$37.1m (+19% vs 2017), with \$18.5m from US market
- 2018 US UNiD cases growth: +70% (+94% in Q4 18)
- EBITDA >0 & Gross Margin in the 75 to 80% range
- \$12 M cash on hand at 12/2018
- Publicly traded in FR on Euronext -ALMED (June 2006) and OTCQX (Aug 2018) - MRNTF

### **U.S. MARKET OPPORTUNITY**

ANNUAL COMPLEX SPINE MARKET (3+ LEVELS)<sup>1,2</sup>

116,000 ANNUAL COMPLEX

SPINE CASES<sup>1</sup>

\$3.48 B

\$3.40 B

\$30,000

AVG

**REVENUE** 

PER

COMPLEX

CASE

ANNUAL DEGEN MARKET (1-2 LEVELS) 1,3

304,000

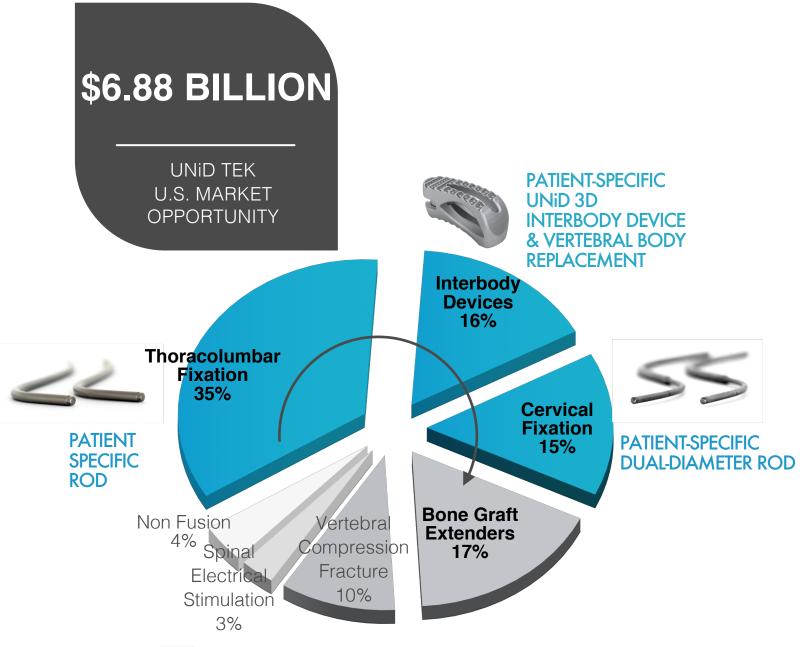
**ANNUAL DEGEN** 

CASES1

AVG

CASE

\$11,200 **REVENUE** PER DEGEN

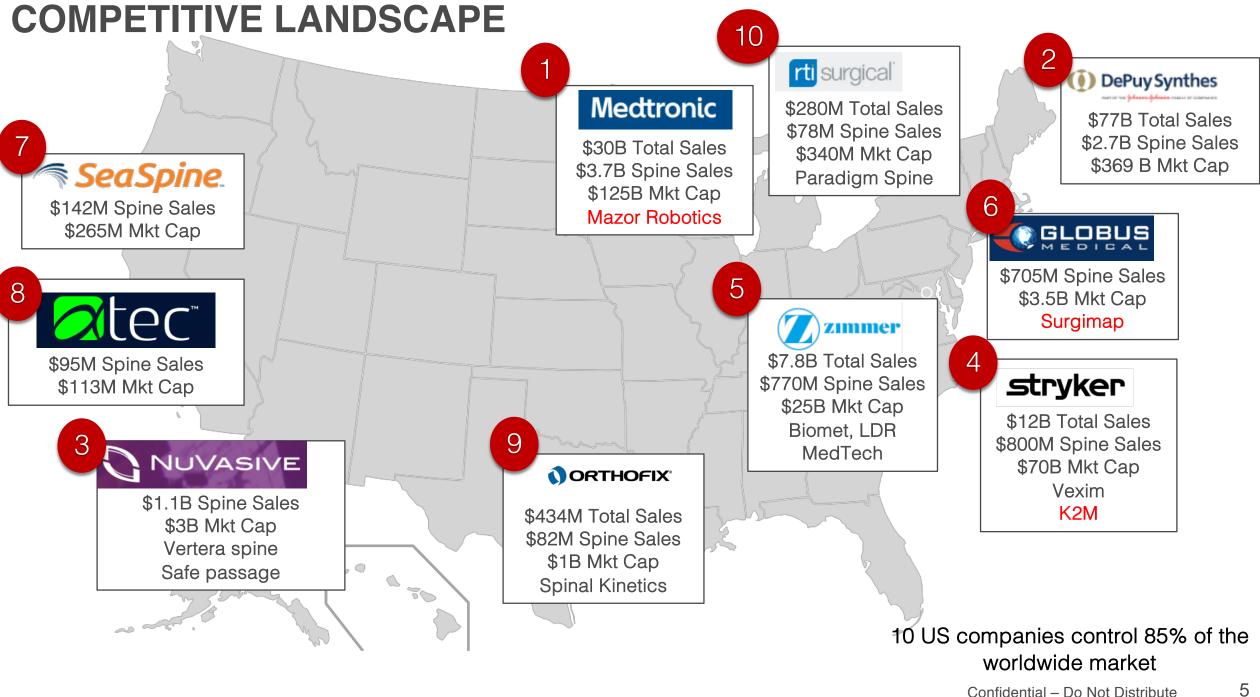




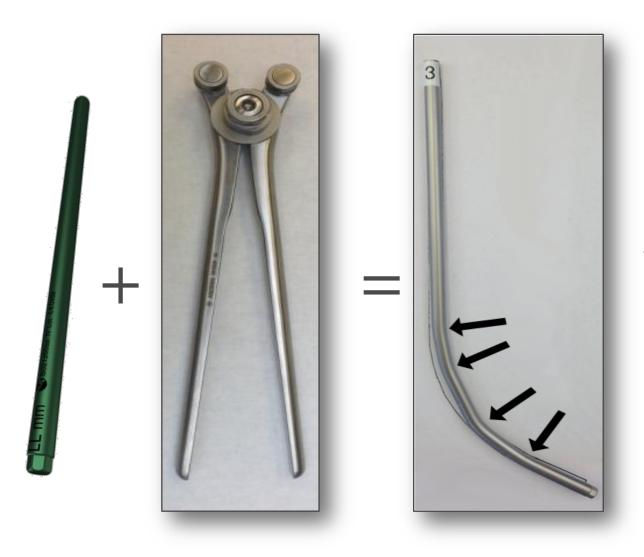
<sup>1.2015</sup> Instrumented Thoracolumbar Procedures annually (409,100). 2013 Millennium Research Group, Inc., Table 87 "Thoracolumbar Fusions, by Indication."

<sup>2. \$30,000</sup> per case. Medicrea estimated implant and BGE revenues per complex spine

<sup>3. \$11,200</sup> per case. Medicrea estimated implant and BGE revenues per 1-2 level degen procedure.



# Traditionnal vs. Al powered Spine surgery







Aligned to case plan

# Sagittal Alignment & UNiD ASI Evidence: 3,500+ cases

### Clinical Issue

UNID ASI Evidence

38%

Sagittal re-alignment and clinical outcomes are directly linked.<sup>1</sup>

Only 38% of historical ASD patients are sagittaly aligned after surgery.<sup>2</sup>

81%

Over 81% of UNiD patients achieved normative
Sagittal Vertical Alignment<sup>5</sup>



10X greater risk of developing adjacent segment disease when post-operative ΔPI-LL ≥10° for 1 to 3 level degenerative constructs.<sup>4</sup>

 $PI-LL < 10^{\circ}$ 

Achieved in 100% UNiD cases All UNiD patients had postoperative PI-LL of less than 10° 5



<sup>2.</sup> Moal B, Schwab F, Ames CP, et al. Radiographic Outcomes of Adult Spinal Deformity Correction: A Critical Analysis of Variability and Failures Across Deformity Patterns. Spine Deform. 2014.

. Solla F, Barrey CY, Burger E, Kleck CJ, Fiere V, Patient-Specific Rods for surgical correction of Sagittal Imbalance in Adults, Clinical Spine Surgery, 20

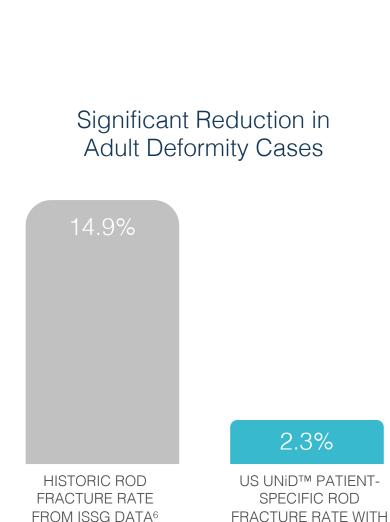


<sup>3.</sup> Jang J-S, Lee S-H, Min J-H, Kim SK, Han K-M, Maeng DH. Surgical treatment of failed back surgery syndrome due to sagittal imbalance. Spine (Phila. Pa. 1976). 2007.

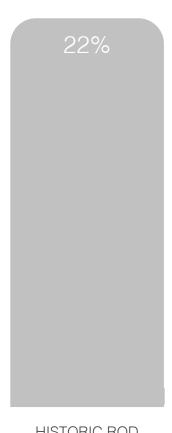
<sup>4.</sup> Rothenfluh DA, Mueller DA, et al. Pelvic incidence-lumbar lordosis mismatch predisposes to adjacent segment disease after lumbar spinal fusion. Eur Spine J (2015) 24:1251-1258

<sup>.</sup> Cameron Barton BA, Andriy Noshchenko PhD, Vikas Patel MD, Christopher Kleck MD, Evalina Burger MD. Early Experience and Initial Outcomes with Patient Specific Spine Rods for Adult Spinal Deformity (ASD). Orthopedics. 2016; 39(2):79-86.

# Fracture rate reduction & UNID ASI Evidence: 3,500+ cases

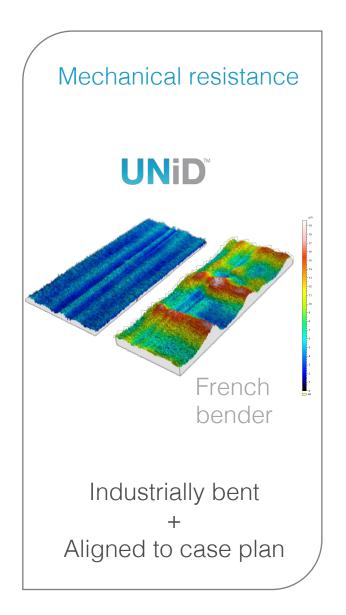


Significant Reduction in Adult Deformity Cases involving a PSO



HISTORIC ROD FRACTURE RATE WITH PSO<sup>6</sup> 4.6%

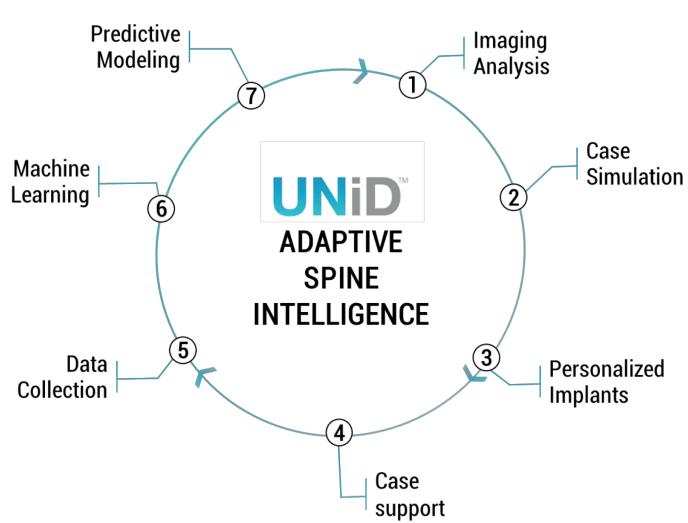
2-YEAR FOLLOW UP WITH US UNID™ PATIENT-SPECIFIC ROD FRACTURE RATE WITH PSO<sup>7</sup>



2-YEAR FOLLOW UP7

# **UNID ASI: Virtuous Cycle**









# Software Centric Platform: proprietary & 510k Cleared



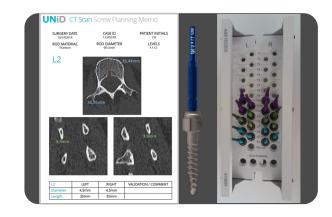
Data Visualization



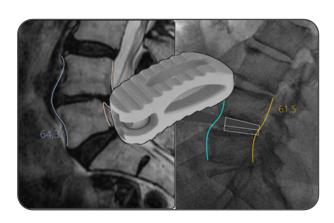
Predictive Modeling



Planning & postop analysis / Patient Specific rods ordering



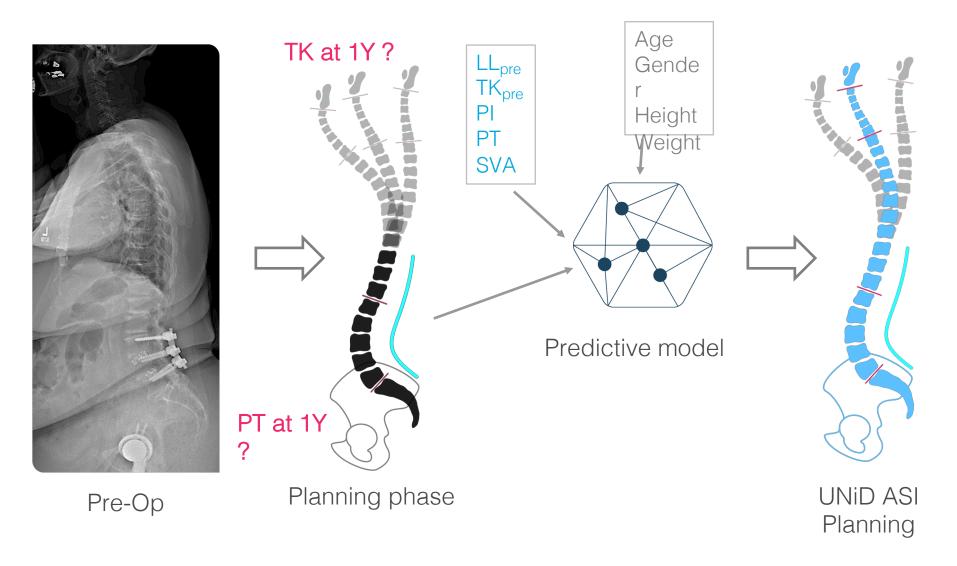
Screw Selection

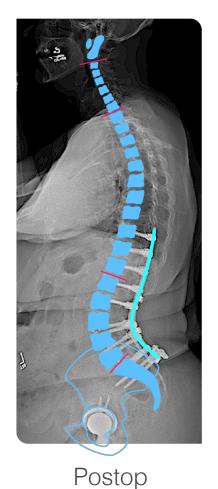


Patient Specific IBD

# Predictive Modeling in action with UNID

What happens above and below the instrumentation?



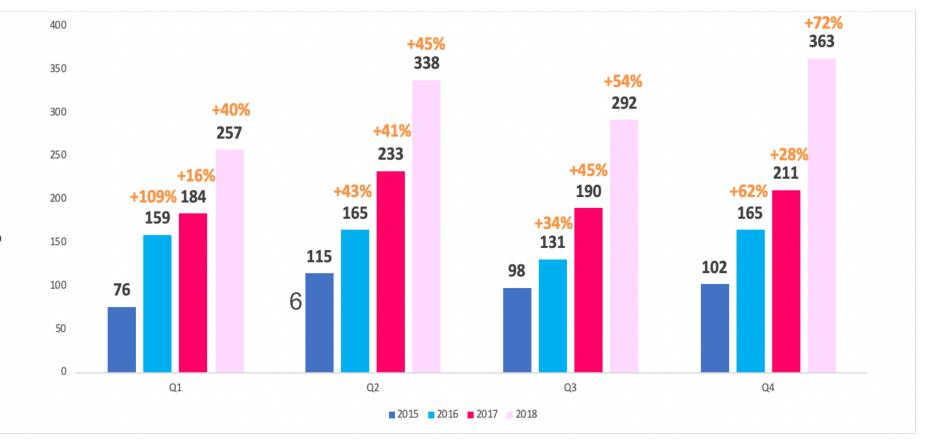


# **UNID** ASI PROCEDURES ADOPTION TREND

30 converted Surgeons in USA since NASS 2017 46 doing cases in last 3 months

**\$2,442** UNiD™ Rod Set ASP in 2018

**\$22,054** for Full UNiD Construct



## **NUMBER OF PROCEDURES: 3,500**

9

80

391

620

818

1,249

2013 PROCEDURES 2014 PROCEDURES 2015 PROCEDURES 2016 PROCEDURES 2017 PROCEDURES 2018 PROCEDURES





### **INVESTMENT HIGHLIGHTS**

**Al-Based** 

Proprietary Software platform and predictive modeling

Full Service Integrated Platform

Innovative serviceoriented approach to complex spine **Outcome-Centered** 

Patient specific implants drive optimal patient outcomes

Virtuous Business Model

Monetizing AI & Predictive modelling built from owned Clinical Database

**First-to-Market** 

Significant global market opportunity
5 Years ahead of competition

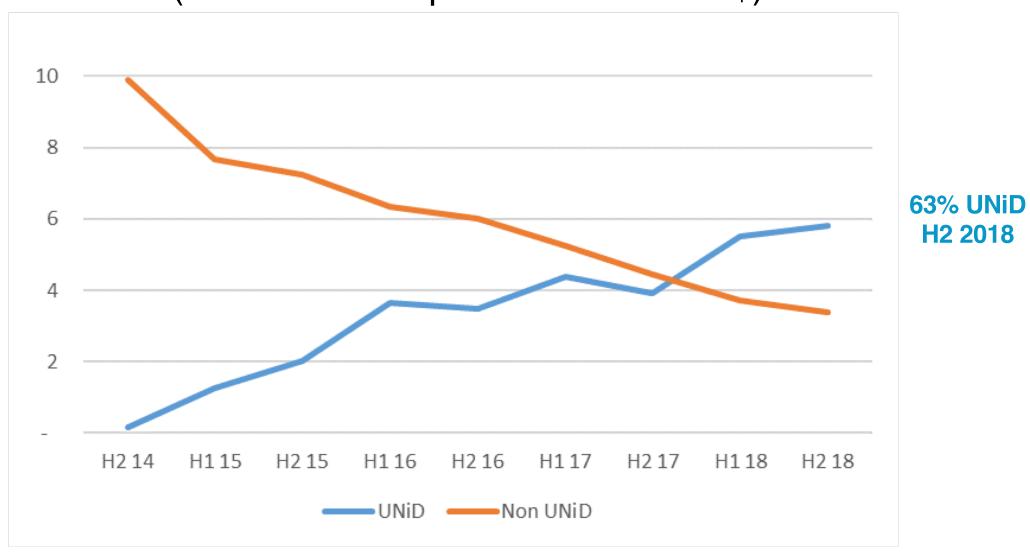
**Financial Model** 

High UNiD adoption rate
Strong margins



## TRADITIONAL VS UNID REVENUE

(USA Revenue per Semester in M\$)



## **UNID Matrix**

### HEALTH SYSTEM STAKEHOLDERS

		PATIENT	SURGEON	HOSPITAL	3 <sup>RD</sup> PARTY PAYER	MEDICREA
BENEFITS	IMPROVED OUTCOMES					
	TIME SAVINGS					
	REDUCED COST					
	INTRA-OP CONFIRMATION					
	OPTIMIZED INVENTORY					
	POSITIVE DIFFERENTIATION					
	PATIENT SELECTION					