

SenseNC

AccuFRET

A photograph showing the back of two people standing at a wooden railing, looking out over a vast landscape of rolling hills and mountains under a clear sky.

Diagnostic **adalimumab** sensor for Rheumatoid Arthritis (RA)
SensUs Translational Pitch

Key Challenges in treatment of RA



“One-size fits all”

No diagnostic tool to monitor effectiveness of adalimumab



\$38,000

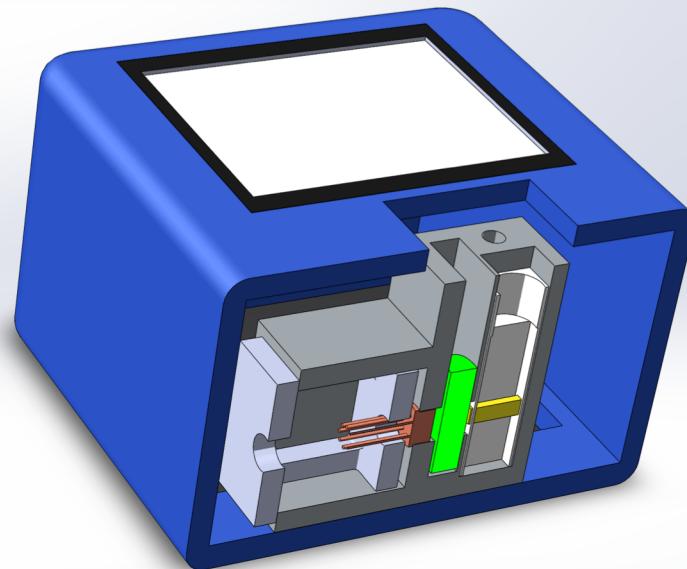
Annual cost of Humira in US (€34,204)¹
\$17,000/€15,302 in UK¹
\$10,000/€9,001 in CH¹



350%

Higher outpatient costs of RA patients versus non-RA patients²

Creating Value using AccuFRET



AccuFRET Sensor Device



Difficulty
measuring
adalimumab



“One size
fits all”



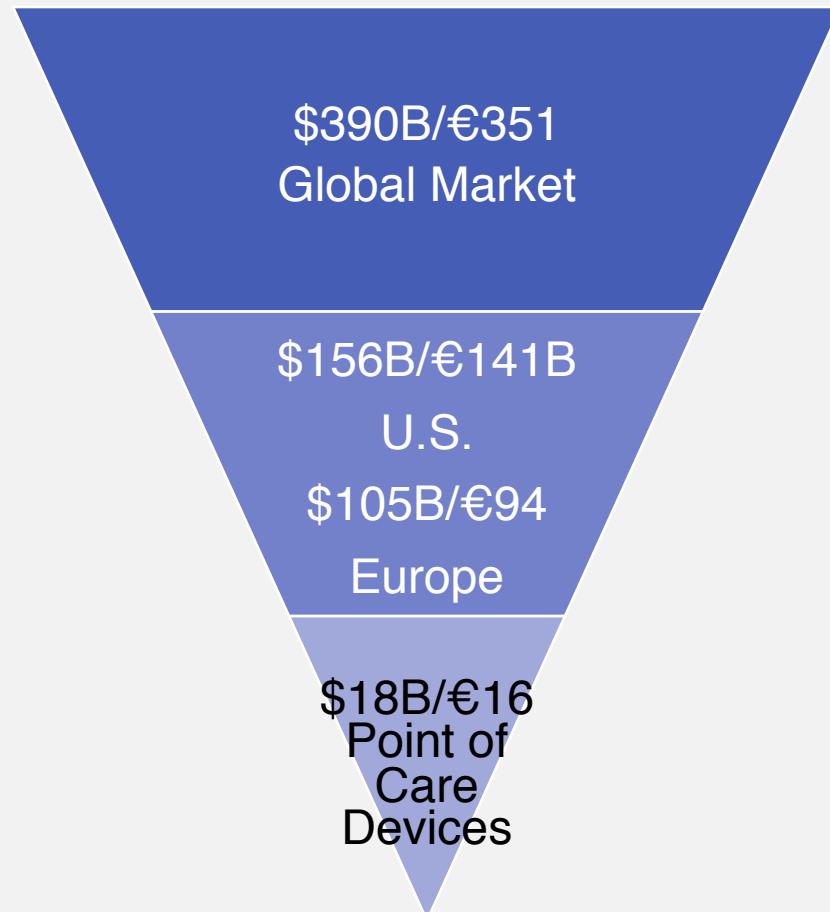
Frequent
outpatient
visits

Rapid
diagnostics

Cost savings
with
measured
dosing

Convenient
remote
monitoring

Entering the Medical Device Market



Revenue & Profit

- \$428/€386 device cost + \$111/€100 monthly cartridge pack
- 1.3M U.S. patients + 2.9M European patients²
- Revenue: **\$148M/€134M**
(assuming 2% penetration of diagnosed patients)
- Profit: **\$14.8M/€13.4M**
(assuming 10% profitability)

Key Opportunities for AccuFRET

Patient



Integrated software with intelligent insights



Sample size reduction for running diagnostic



Address other rheumatic conditions and treatments

Provider



Provider networks and medical groups



Ability to offer telemedicine using insights from device



Improved health analytics and patient interaction

SenseNC

AccuFRET



Easy, Accurate, AccuFRET

Thank You



Components	Unit Price (\$)
CAP CER 0.1UF 50V X7R 0805	\$0.0201
LED GREEN CLEAR 2SMD	\$0.1569
LED YELLOW CLEAR 2SMD	\$0.1008
IC CONTROLLR LI-ION 4.2V SOT23-5	\$0.4326
MOSFET N-CH 60V 0.38A SOT23-3	\$0.0407
CONN HDR 20POS 0.1 GOLD PCB	\$0.7007
IC REG BUCK 3.3V 1.5A SOT23-5	\$0.5408
RES SMD 100K OHM 1% 1/8W 0805	\$0.0076
CAP CER 10UF 10V X5R 0805	\$0.0221
CAP CER 10UF 10V X5R 0805	\$0.0272
CAP CER 4.7UF 16V X5R 0805	\$0.0315
RES SMD 4.7K OHM 0.1% 1/8W 0805	\$0.0495
CONN RCPT USB2.0 MICRO B SMD R/A	\$0.4536
FIXED IND 1UH 800MA 100 MOHM SMD	\$0.0664
IC REG CHARGE PUMP INV 8SOIC	\$0.7045
CAP CER 22UF 6.3V X5R 0805	\$0.0341
RES SMD 2.2K OHM 5% 1/2W 0805	\$0.0197
RES SMD 330 OHM 1% 1/8W 0805	\$0.0076
IC MCU 32BIT 128KB FLASH 32QFN	\$4.2413
470NM TO-18 METAL CAN DOMED	\$5.6030
3.5" EVE2 TFT STD. MODULE CAP TO	\$64.6800
Circuit Board Mfg. and Assembly	\$1.0000
Materials Total	\$78.94
5 Engineers @ \$30/hr	\$6,000/week
100 Devices/Week	\$60/device
Total w/ Labor	\$138.94
Development, Approval, Marketing Costs	\$250.00
Total Cost Per Device	\$388.94
Expected Revenue per Device	\$427.83

Cartridge Components	Unit Price (\$)
Disposable UV Cuvettes	\$0.4000
FITC-Labelled Recombinant Protein L	\$0.0054
NHS Rhodamine (TRITC)	\$0.0001
Recombinant TNF-alpha	\$0.0180
Materials Total	\$0.4234
Development and Approval Costs	\$100
Total w/ Additional Costs	\$101
Expected Revenue per Cartridge	\$110.93