Bringing the Lab to the Patient









The Problem



Hematology tests depend on traditional laboratory infrastructure, which involves specialized, heavy, and expensive equipment, trained personnel, and controlled environments. This setup can be slow, costly, and less accessible, especially in remote, at-home or resource-limited areas.

Late treatment

Prolonged suffering

Higher healthcare costs



Our Technology: RevDx[™] Portable System for Essential Hematologic tests at the Point-of-Care



Clinical use-cases for first application: Complete Blood Count with 5D



Infection

Differentiating suspected bacterial from viral infection Avoiding antibiotic overuse and antimicrobial resistance (AMR)



Bleeding

Early identification of blood clotting disorders (Thrombocytopenia) Pre-op routine bloodwork

Anemia

4

Diagnosing anemia – A global health problem Affecting 9-16% of young women in the USA and up to 42% of children worldwide



Blood Dyscrasia

Oncology, early detection of drug induced leukopenia Prophylactic monitoring of the WBC count and differential.

Because of its wide-reaching potential for disease diagnosis, the complete blood count (CBC) and complete blood count with differential (CBC w/diff) tests are, respectively, **the FIRST and SECOND most performed tests in the clinical hematology laboratory**.[8]



Join us!

RevDx

EFA Where you live should not determine whether you live

RevDx[™] — How it works?



Test & learning platform Leveraging Advanced Proprietary Technologies



Result in minutes

Very easy to use

Single unifying Platform

Multiple Applications

Test. Treat. Track.

Our RevDx[™] Platform

The Only Fully Autonomous and Portable Platform for Hematology Diagnostic Tests



RevDx[™] RevDx Reibr 5.5lb 14cm 2.5kg 5.5 in 21cm 14cm 8.3 in

✓ Portable

- ✓ Battery operated
- Fully Automated
- \checkmark No need for connectivity
- ✓ Cutting-edge technologies

RevDx[™] How it is assembled



Military technology to medical device

Automated robotic microscopy process in a fully portable device



Test. Treat. Track.

RevDx[™] Platform – Working Principles







RevDx[™] Algorithm – ML and Real-Time Control

DCNN – Cells differentiation









Output







18Mpx|RGB|8-bit

Production lines



RevDx device – Production and assembly line



RevDx Test Chip- Production and automation line











Design Practices and Dilemmas



- System optimization Approach
- What to do In-House/Out-Sourcing
- Choosing your long-term partners
- Physician's advisory role in early stage
- Early Users and business partners
- Early commercialization as a push and a risk Brazil as an example

Our Partners – It is all about the People



Design and Engineering

- 1. lotChefs Electronics board design and real-time SW
- 2. FIBO & Galgash Optics, Mechanics
- 3. Intovision Product Design
- 4. BioT Medical
- 5. HAMADA QA&RA
- 6. Ouli Advanced Engineering https://www.youtube.com/watch?v=rWRhb8qi9ZU
- 7. Mondeo Studio UI https://www.mondeostudio.com/projects/revdx
- 8. Occasional Experts

Our Partners – It is all about the People

Manufacturers

- 1. DigitalCut RevDx Test Chip manufacturing line
- 2. Medimor RevDx Device assembly line
- 3. KAST Silicon Silicon Molding
- 4. PlastArt Medical Automated Machines for mass production
- 5. ShahakTec Plastic Molding

Main Providers

- 1. Olympus
- 2. IDS (sensors)
- 3. NVIDEA



Lessons learned



- Push for early user's experience => Halt a 'non-product' concept earlier
- Value the insights of experienced providers and manufacturing partners.
- Start early with manufacturing process =>DFM
- Bring in-house experts earlier => move from outsourcing to inhouse
- Push to market by balancing critical factors: Expenses, Focus, and MVP.