

InfanDx AG

Company Overview

Dr. Achim Plum | CEO | July 2021

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The Company

InfanDx AG Lean Organization with Strong Partner Network



- Focus on diagnostic innovation for newborns
- Founded 2010 in Cologne/Germany by neonatologists, metabolomics scientists, and industry experts
- Headquartered at Biocampus Cologne
- Lead Product in R&D: HypoxE-Test[®] for Hypoxic-Ischemic Encephalopathy (HIE)



Tübingen



MZD -

InfanDx AG Management Team

Dr. Achim Plum

20+ years of industry experience with focus on diagnostic innovation. Former companies include Epigenomics, Schering, Siemens, Curetis, Ares Genetics, SphingoTec





Wolfgang Kintzel *Chairman of the Supervsiory Board*

20+ years track record in life science innovation and business leadership with companies like Schering, Tyco Healthcare, amaxa, Cellbox Solutions



Dr. Andreas Lischka Head of Finance



Dr. Carola Steins Rang Head of Clinical, Quality & Regulatory



Dr. Mostafa Mahmoud Senior Scientist R&D



InfanDx AG

Key Advisors - Leaders in Neonatology, Metabolomics, and Biostatistics



Prof. Dr. Peter Bartmann

Former Chief Medical Officer, Children's Hospital at University Hospital Bonn, Germany

Neonatology, Clinical Trial Management



Prof. Dr. Axel Franz

Senior Neonatologist Head of Center for Pediatric Clinical Studies, University Hospital Tübingen, Germany

Neonatology, Clinical Trial Management



Prof. Dr. Dr. Matthias Keller Chief Medical Officer, Children's Hospital Dritter Orden, Passau Germany

Neonatology, Pediatrics



Prof. Lena Hellström-Westas

Professor for Perinatal Medicine, Upsala University, Sweden

Neonatology, Pediatrics

Prof. Dr. Hans-Peter Deigner Dean, Faculty of Medical and Life Sciences, University Furtwangen,



Metabolomics & Biomarker Expert

Prof. Dr. Matthias Kohl

Head of Institute of Precision Medicine, University Furtwangen, Germany



Biostatistics

of Oslo, Norway

Germany

Prof. Ola Saugstad Professor Emeritus of Paediatrics, Director Dept. of Paediatric Research, University



Neonatology, Pediatrics



Medical Need

Hypoxic-Ischemic Encephalopathy (HIE) Causes & Consequences



Hypoxia

Perinatal Asphyxia - birth complication leading to oxygen depriviation around the time of birth



Ischemia

Shortage of blood supply to the infant's brain



Hypoxic-Ischemic Encephalopathy (HIE) Brain damage as a result of asphyxia and ischemia



Permanent Brain Damage

Lifelong disabilities including cerebral palsy (CP), cognitive disabilities, epilepsy, hearing & vision impairments



Perinatal Asphyxia and Hypoxic-Ischemic Encephalopathy Facts & Figures

Brain injury (hypoxic ischemic encephalopathy, HIE) is the most prevalent outcome from perinatal asphyxia.

Most common cause of death and disability in newborns – 23 % of infant mortality worldwide

Often associated with persistent motor, sensory, cognitive impairment

Perinatal asphyxia is the major cause for infantile cerebral palsy (e.g. spasticity) worldwide

Source: Millar LJ et al. 2017: Frontiers in Cellular Neuroscience; doi: 10.3389/fncel.2017.00078

Out of 125 million newborns, 5 - 10% are at risk





Hypoxic-Ischemic Encephalopathy (HIE) Therapy by Therapeutic Hypothermia



Neonatal Therapeutic Hypothermia Indications to treat (today)





Umbilical cord arterial

Need for delivery room intubation or cardiopulmonary resuscitation

- Therapeutic intervention to prevent or alleviate permanent brain damage resulting from HIE
- Reduced metabolic rate allows brain to recover.
- Most accepted therapy for HIE in newborns
- Cost-effective provided eligble newborns can be identified
- Reimbursed in many healthcare systems





32.5-34.5 °C

72 hours

But:

Therapeutic Hypothermia needs to be initiated within 6 hours of birth to be effective



Decision-Making in HIE Today Diagnostic Dilemma – No Conclusive HIE Diagnosis within 6-Hour Window





The HypoxE-Test®

InfanDx HypoxE-Test® Our Solution to Solve the Diagnostic Dilemma in HIE



Very small blood sample, taken right after birth Indicates brain damage reliably Results within therapeutic time window < 6 h after birth



Biomarkers obtained from Metabolomics Research

5 patent families (4 granted)





InfanDx HypoxyE-Test Value proposition

Parents

- Best care for their baby
- Minimize uncertainty
- Affordable in case of non-reimbursement
- Corresponds to the recommendations of parent organizations (e.g. EFCNI)

Neonatologists

- Urgent medical need
- Certainty about therapy decision
- Avoid legal liability

Hospitals

- "Best care" reputation boosts marketing
- Exclude uncertainty, justify reimbursement
- Affordable in case of non-reimbursement
- Avoid legal liability

Insurances

- Save on decreased morbidity
- Avoid unnecessary treatments

Regulatory

- Clear socio-economic benefit
- > US\$ 2 bn savings p.a. in the US alone
- Solve urgent medical need
- Existing therapy aids regulatory assessment



InfanDx HypoxE-Test® Market Potential Comparable to Top-Selling Current Diagnostic Tests



15 - **20** million newborns as intended use population

- Critical births (risk group defined according to clinical guidelines)
- Hospital deliveries
- US, EU and most developed emerging countries
- Total annual births worldwide: 140 million in 2019

Up to € 2 billion Total Addressable Market (TAM)

- Test ASP < €100
- Instruments as upside

€ 500+ million initial Servicable Addressable Market (SAM)

- With targeted IVD platforms in EU, USA, RoW (w/o LMICs)
- Distribution based sales channel targeting hospitals
- KOL support in key regions



Product Development

InfanDx HypoxE-Test® Product Concept – Rapid Near-Patient Testing for Any Setting

- Fully automated
 - w/o plasma prep for lab
 - w/ plasma prep for POC
- Low- to mid-throughput
- Small benchtop or portable
- Random access (or STAT port)
- TAT < 1 h
- Platform-independent data interpretation
- Optional: Availability of other parameters relevant for newborns





 Routine blood draw at birth
 Fully automated test on standard
 Cloud-based result interpretation & reporting clinical chemistry analyzers

 < 1 Hour Turnaround Time (TAT) – Actual Test: 15-20 min</td>





InfanDx HypoxE-Test® Product Strategy – Market Introduction Starting in Mid-2022





InfanDx HypoxE-Test® Candidate Biomarkers – Excellent Single Biomarker Performance



Interim analysis using hypothermal treatment (yes/no) as surrogate endpoint yielded AUCs of >0.95, 92% sensitivity, and 91% specificity.



Combination of up to 4 biomarkers further increases performance

Design freeze of final panel and algorthim in Q2-2021 (Endpoint: 2 year HIE outcome)



2021/22 Product Development & Launch Milestones Numerous Key Value Drivers Can be Achieved in Near-term





10-Year Business Plan EBIT Break Even USA **Revenue Streams & EBIT** G2NDLab G3NDPoc GALDY Product Sales by Distributors & Licensees 100€ Revenue to InfanDx (millions) 80€ 60€ 40€ 20€ - € -20€ **Total SAM Value:** 2026 2028 2030 2021 2022 2023 2024 2025 2027 2029

SaaS

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Instrument Sales

InfanDx AG - 10-Year Business Plan - May 27, 2021 - V1.0R - CONFIDENTIAL

Reagent Sales

€ 535 million

-EBIT

Licensing

Equivalent to ± € 150 Million

10-Year Business Plan Cash Flow – 10 Years

€ 5.2 M

€15 M

Series A Series B Series B Use of Proceeds

- €7.5 M for IVD Development & Launch EU/RoW
- €7.5 M for US Clinical Study & FDA Approval



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Milestones & Exit

Industry-typic value-inflection points and de-risking leading to exits

VALIDATION BY	2021	2022	2023	2024	2025	2026
SCIENCE	Final Biomarker Panel	Biomarkers validated				
PATENTS	4 Patent Families	Further IP to be filed				
CE-IVD Approvals			G2 IVD LAB	G ₃ IVD POC		
USA-FDA Approval						G2 IVD LAB
LICENSING					1st Deal	
MARKET					Commercial PoC	EBIT Break Even
		Exit Option: (US) IPO with US market entry & growth story				
		Exit Option: M&A based on de-risking by commercial PoC				





InfanDx' Equity Story Summary

- Founded by leading clinicians and industry experts with the mission to improve outcomes in neonatal critical care through better diagnostics
- Lead product HypoxE-Test[®] for early assessment of severity and prognosis of Hypoxic-Ischemic Encephalopathy (HIE) to prevent or alleviate lifelong disabilities through timely therapy
- With 5% to 10% of all newborns at risk, the HypoxE-Test[®] is a unique € 2 billion market opportunity, of which € 500 million are serviceable initially
- Candidate biomarkers with excellent performance potential in advanced clinical validation – final biomarker selection in Q2-2021, final biomarker panel validation in Q2-2022
- Partnering-based strategy leveraging existing diagnostics platforms for laboratories and the point-of-care for rapid commercial deployment
- Launch of a G 1 early adopter test and cloud-based interpretation software expected for mid-2022
- Launch of G2 clinical chemistry test for broad commercialization expected for Q4-2023
- Lean and effective organization leveraging a strong scientific and clinical network



Thank You

InfanDx AG

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