Business Success and Learning from Failures

Dawood Parker Melys Diagnostics Ltd

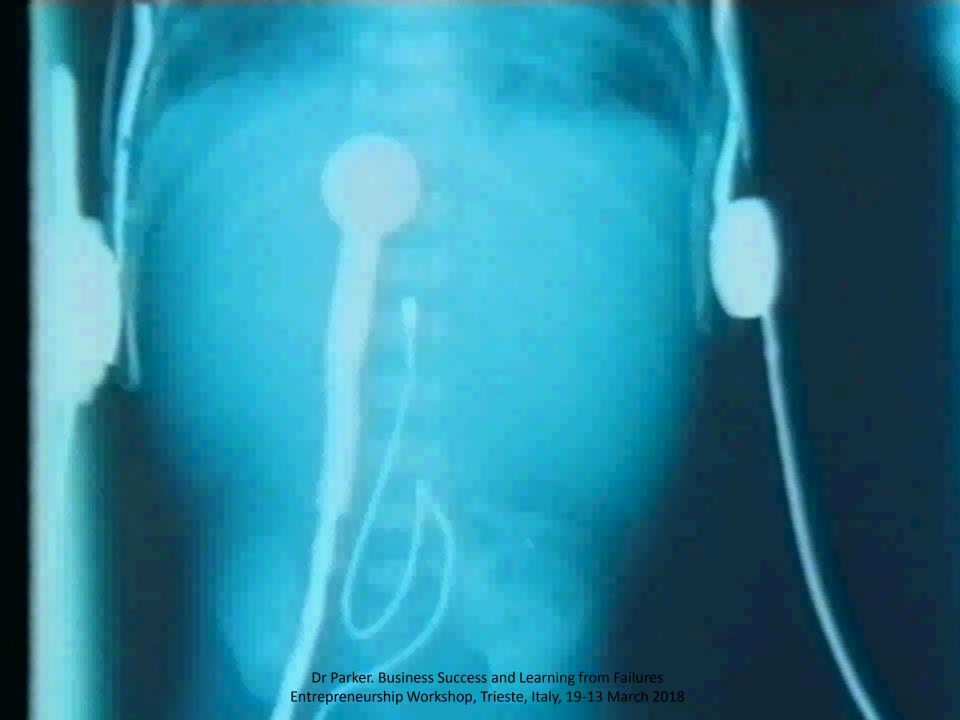


ENTREPRENEURSHIP FOR SCIENTISTS AND ENGINEERS

Trieste, Italy 19th-23rd March 2018







Commercial Decision

Assigned the Intellectual Property to a major pharmaceutical company in return for research support and royalties.

Umbilical Artery Oxygen Monitoring System CONFIDENCE THROUGH EXPERIENCE □ NEOCATH MONITOR - SIMPLE AUTOCALIBRATION FLEXIBLE OPERATION Biomedical Sensors have accumulated over ten years experience working in the field of continuous PaO₂ During its history, the system has been regularly updated. measurement in the neonate, and have established an international reputation with the 1920 Carry 1990 Umbilical provided innovation aimed at improving accuracy, ease and Artery Oxygen Monitoring System. security of use, and above all, levels of patient care, incorporating a Clark oxygen electrode at its tip, allowing direct the introduction of the NEOCATH 1000" monitor. continuous and accurate measurement of PaO₃, (the recognized parameter of oxygenation efficacy), with minimal physical thorough analysis of customer experience to define the disturbance to the baby. This is important as manipulation of the specification, while recognizing the need for easy and logical neonale. "can have a devastating effect on the premature infant's system". "causing fluctuation of PaO₂" and possible For example, a simple autocalibration sequence removes the requirement for calculations when results from the blood gas The catheter is available in 4Fr and 5Fr sizes, to provide analyzer become available. Similarly, L.E.D. displays present uncomplicated access to the aorta in the neonate of less than readings of PaO₂, and user selected alarm limits in separate displays, while individual L.E.D. indicators specify mode of 1500g, typical of 26-30 weeks period of gestation. It is "as easy to An internal rechargeable battery gives approximately 4 hours of provide continuity to the measuring circuit. Not only does this continuous operation, or the monitor can run direct from an A/C supply ensuring universal availability. signal is not affected by electrical interference and muscle The MEDICATIVE 1990" monitor is constructed to conform with the highest international safety standards, and to provide The sampling lumen, with a smooth peripheral eye close to the tip. trouble-free operation. measuring electrode. In addition, this access point permits Confidence in the system, continuous measurement of arterial blood pressure via a suitable allows more attention for provide blood samples

Dr Parker. Business Success and Learning from Failures Entrepreneurship Workshop, Trieste, Italy, 19-13 March 2018

Africa Sir comuni

First Company

SIMPLE CONCEPT

- Immediate Order and Sales
- Company Acquired within 5 months
- Company Valuation Mistake. Take advice (not easy to find)

Second Company

BRAIN OXYGENATION MONTIOR

- Exciting, complex laser physics
- Outcome Neutral, no gain.
- Don't start a company on technology too early stage.

Third Company

REMOTE PATIENT MONITORING

- Invasive → non-invasive → remote
- Pulse, Oxygenation

Commercial Decision

Sold the technology to
the pharmaceutical company
for a significant sum.

Application – not our objective.

Innovation-Driven Start-up

- Main Asset Intellectual Property
- Determine if you have
 FREEDOM TO OPERATE

Who is the Entrepreneur?

- Are you willing to appoint your own boss?
- Get it right

Equity

Equity is:

The ownership of a company, especially the right to share in the future profits or appreciation in value of the company.

Equity Investment

When you raise money for your company, your percentage ownership of the company goes DOWN.

Your objective is to make sure that the value of your company increases by enough so that even though you own a smaller percentage it will be of a much larger business – therefore even though your equity has decreased, it has attained real value which can increase further.

Equity Dilution

Example

You own 20% of a US\$1m company

Your stake is worth US\$200,000

By further developments, you raise the value of your company to US\$3m

You raise capital of US\$1m

This makes the "post-money" valuation of the company US\$4m

Your equity decreases by $\frac{US\$1m}{US\$4m}$ = 25% of your original 20% (i.e. 5%).

You now own 15% of a company with cash of US\$1m 15% of US\$4m = US\$600,000

Value what you know

- Consultancies
- Technical Advisor

Raising Money

- Communicate Clearly
- Be very brief about the technology
- Don't humiliate μgas chromatography
- Realistic claims
- Get audience participation

Your Pitch Deck

- Profile of company
- Management team
- Very brief description of your ovel and unique product and the problem it solves. Show prototype
- Target market, busines opportunity, scaling up
- Competition
- Business strategy
- Route to market, milestones and timesclae
- Risks and your contingency plans
- Restate what you're asking for in a compelling way
- Invite audience participation encourage questions and comments.

Overview

- It's not the idea, it's its execution
 - management team
 - who will be the entrepreneur?
- Value yourself, value your company
- Communicate clearly and appropriately
- Create a business plan
- Become skilled at raising money
- Be single-minded and tenacious