

pharmacoeconomic

Lec 8

perspective

- Point of view from which the study is taken
- Determine what will be measured what are the costs and benefits, and how they will be valued
- It will affect the types of costs (resource expenditure) and benefits that will be considered relevant to the analysis
- Determine which costs and outcomes are included in the analysis

Types of perspective

- Societal
- Provider
- Payer
- Patient

Societal perspective

- The broadest of all perspective that comprehensively evaluates all costs and consequences
- Considers the benefits to society at a whole
- Include costs:
 - Direct overall cost of providing care
 - Indirect: loss of productivity

Provider perspective

- Concerned with the expenses of providing products or services
- Included cost
- Direct cost only

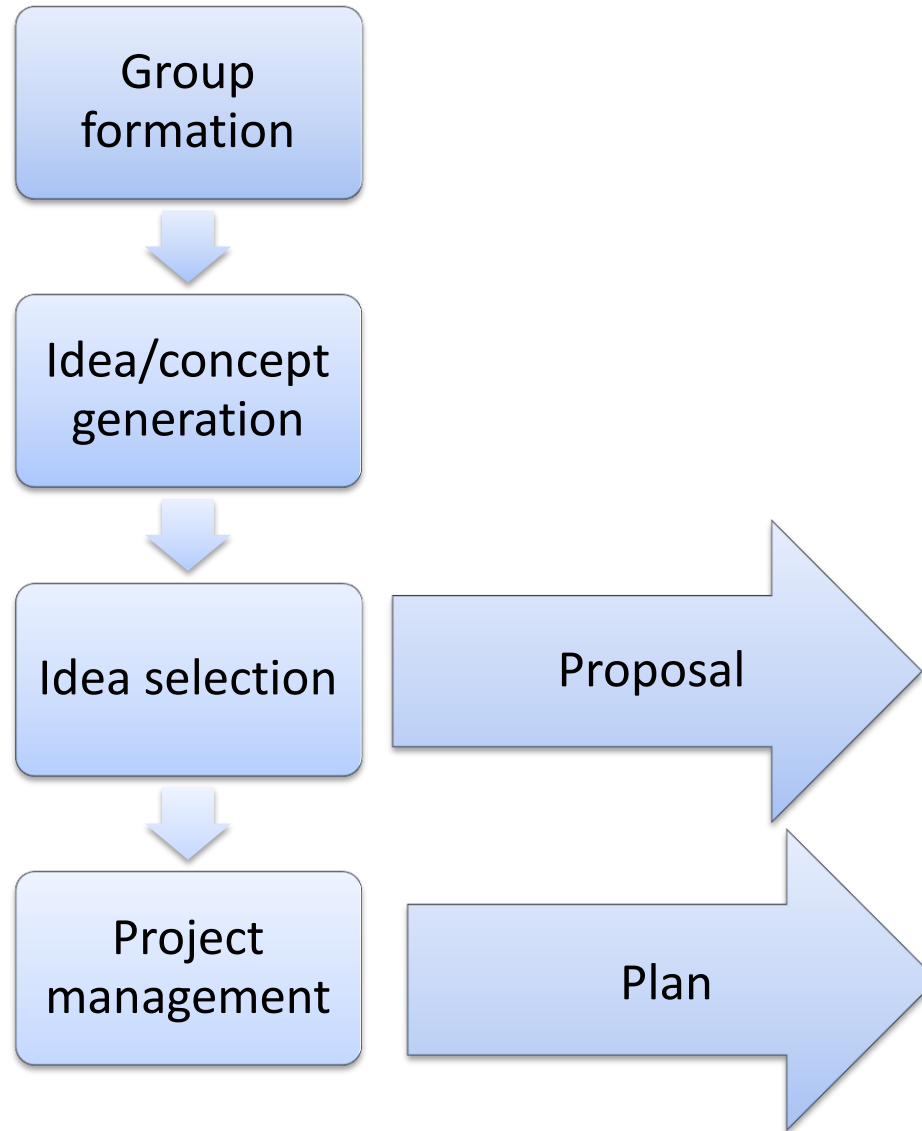
Payer perspective

- Social/government, third part payers
- E.g: private insurance companies
- Included cost:
 - Direct cost
 - Indirect costs
- Relevant to employers
- Lost workdays
- Lost productivity at work

Patient perspective

- All the relevant cost and consequences experienced by the patient
- Included cost:
 - Direct
 - Indirect
 - Intangible

A framework of business Development



Filtering or Selection Criteria

- Following criteria can be employed while selecting an idea
 - Market Factors
 - Competitive advantage
 - Management Capability

Stages of Biobusiness evolution

Idea generation and validation

- IP from University/parent body
- Technology validation – “Proof of Concept”
- Commercial prototype and early pre – clinical trials.

Early Stage – Start up

- Technology platform and IP broadening
- Management team & Scientific group hiring
- Partnership and building company infrastructure

Late stage – Expansion/public offering

- Continue with clinical development (Launching of product) and prepare exit
- Aim for cash flow, break – even and lastly profit

Funding Process

- **Idea development and validation** – typically £50,000 - £1 Million
 - University challenge seed funds, family, friends and angel funding; small business initiatives and grants
- **Early Stage Start – up** – typically £1 M – 10 Million
 - Start-up focused on broader. Very high net worth angels, smart grants
- **Later stage** – typically - £10 – 50 Million per round
 - Institutions willing to invest
 - Pharma/biotech partners

Difficulties involved in biosciences start – up 1

- Long lead time. Concept to market may take 10 – 15 yrs
- High cost (some pharmaceuticals cost up to \$1 Bn/year)
- High risk. Failure rates are high (10% success!)
- Low cash inflow in early years & problems accessing funds

Difficulties involved in biosciences start – up 2

- A complex regulatory framework
 - FDA approval, patent protection..
- A highly competitive market
 - E.g., Mergers, take – overs, alliance, new competitors
- Negative public sentiments towards some products and testing processes
 - E.g., animal testing..
- Lack of management and business expertise in scientists

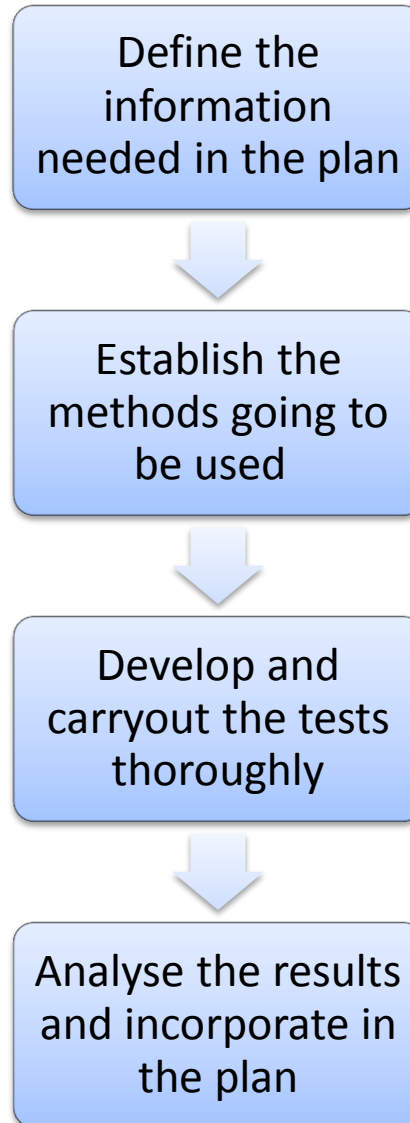
Business plan and its objectives

- A plan that explains and justifies the business concept
 - It provides information on the nature and context of the business opportunity
 - Approach taken to exploit the opportunity
 - Recognise factors that will play a role in the success of the venture (also looks at obstacles and ways to overcome it)

Analysing Competitors

- Competition can be analysed based on certain key factors
 - Market share
 - Distribution
 - Brand Image
 - Product Quality
 - Product Variety
 - Patents and other IPs
 - Research and Development
 - Financial Resources

Market Research Plan



Sources for Market Research

- Primary : Non – published current market and competitor data.
 - Focus groups
 - Observations
 - Surveys
 - Test marketing
 - Web based new groups
- Secondary: Published data from libraries, discs and online
 - Biotechnology handbooks
 - Euromonitor
 - Bioindustry association website
 - Jordans Ltd
 - MSI marketing research for Industries

Start-up: 'shopping list'

Five elements for a start – up

- Premises
 - Size, location, rateable value, security, servicing, utility costs
- Operational needs
 - Laboratory, safety equipments, marketing costs, monitoring equipments, tools and other consumables
- Administrative needs
 - Office equipment, Communications hardware, stationery and consumables
- Intangible needs
 - Critical breakdown cover, insurance, licenses and permissions, legal, accountancy etc.
- Working capital