



Optimising your Regulatory Strategy to gain FDA and EU Approval

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Drug-Device and Biologic Combination Products, 2005

IIR Conferences, Strand Hotel, London
November 22-23, 2005

Outline

- **Introductory Comments**
- **European Regulatory Strategy**
 - Medicinal Product or Medicinal Device
 - Interaction with the Notified Body and Competent Authority
- **US Regulatory Strategy**
 - Interaction with the Office of Combination Products
 - Product Designation
- **Future Directions and Conclusions**

Simplistic Success Formula

- Know the regulations and guidelines
- Develop quality data using appropriate GMP, GCP, GLP, and QSR requirements
- Have well trained staff at all levels
- Build and maintain strong communication links with the regulatory authority before and during the review process
- Submit a well written dossier
- Plan for all post-approval commitments

European ● Requirements and Company Strategy



European Union General Principles

- A product is regulated through the Medical Device Directive 93/42/EEC or the Medicinal Products Directive 2004/27/EC
- Which directive is applied depends on
 - The intended purpose of the product taking into account the way the product is presented
 - The method by which the principal intended action is achieved
- Be sure which Directive applies – if in doubt look at precedence and discuss.
- Be well aware that products cannot be regulated as both a device and medicinal product



Medical Devices

- Typically **medical devices** function by a physical means which could include
 - Mechanical action
 - Physical barrier
 - Replacement of, or support to, organs or body functions
- The action of a **medicinal product** is generally achieved by pharmacological, immunological, or metabolic means
- The **claims** made for a product also represent an important factor for product classification



Claims

- Claims must be supported by data
- Company should be willing to consider reducing/amending claims if intent on a particular designation or if challenged
- Reducing claims is a company decision and consequences on review and approval need to be weighed



Know the Guidance Documents

- **Drug Device MEDDEV 2.1/3 Rev 2**
 - Definitions
 - Consultation Process
 - Document requirements
 - Notified Body activities
 - Adverse event reporting
- **MEDDEV lists devices, drugs and combinations**



General classification

- A device which is intended to deliver a medicinal product is regulated as a device
- The medicinal product in the device must be approved as a medicinal product
- If the device and medicinal product form a single integrated system, and is not reusable, the single product is regulated as a medicinal product (pre-filled syringes, asthma inhalers, transdermal patches)



What do we do if we remain uncertain?

- Borderline products can be discussed with a Notified Body or a Competent Authority
- Getting the classification wrong can be a very costly mistake! (that is, the company develops the product as a medical device but the Review Body has a different view)



Medicinal Product or Device?

- Intrauterine contraceptive containing copper and silver **or** intrauterine contraceptive releasing progestogens
- Wound dressing with antimicrobial agent **or** wound treatment product for delivery of an antimicrobial agent

Assessment Procedure for Medicinal Product/Device Combination where Product is Classified as a Medical Device

- Company identifies appropriate Notified Body (NB)
- NB completes Summary Evaluation Report
- NB provides Evaluation Report to National Competent Authority (CA) who may also link with CAs of other Member States
- CAs should complete their reviews in 9 weeks and respond to Coordinating CA
- Coordinating CA will collate opinions including those of National Authorities and respond to NB
- NB will document final decision on the certification for the product and notify the manufacturer and National Competent Authority. Opinion made available to other CAs on request
- EMEA will likely be consulted if the medicinal product was previously evaluated by them



Key decision – Which Notified Body?

- Previous experience with company
- No language/communication barriers
- Reputation
- Compliance to applicable standards
- Company preferred Competent Authority



Which Notified Body – Notified Bodies per Directive

Directive	Title	Number of NBs
93/42/EEC	Medical Devices	60
98/79/EC	In vitro diagnostic Medical Devices	14
90/385/EEC	Active Implantable Medical Devices	18



Choose an NB that complies with Applicable Standards

- Some Member States nominate NBs without ensuring compliance with
 - EN 45001 (Test laboratories)
 - EN 45011 (Product certification)
 - EN 45012 (Certification quality systems)
- Some Member States audit NBs against EN 45001 and 45011
- Few NBs have been accredited to all three standards

Company can solicit proposals from potential NBs and choose based on responsiveness and quality of proposal



Company and NB responsibilities

- **The company must have followed the declared procedures and those required by the Directive**
- **The company's system for producing the declaration of conformity must be established (the company has ultimate responsibility for product safety and liability through this declaration)**
- **The company's product must conform to relevant provisions of Directive (MEDDEV 2.1/3 Essential Requirements - ERs) with regard to:**
 - Risk analysis
 - Relevant standards
 - Clinical conclusions
- **The Notified Body will:**
 - Ensure conformity with the above
 - Consult with a Drug CA and is unlikely to ignore a negative opinion



Clinical Data Requirements

- NB will work with MEDDEV 2.7.1 “Evaluation of Clinical Data; A guide for Manufacturers and Notified Bodies”
- Represents current state of the art and choices available to companies
- Key decisions for company
 - Literature route
 - Clinical route
 - Combination of the above



Clinical Requirements

- Clinical Studies will be required when
 - Completely new device is proposed for marketing
 - Where a current device is significantly modified in a way that could affect safety and performance
 - For a new indication with an existing device
 - Where new contact materials are used in an existing device
 - Where the device will be used for substantially longer periods



Which CA to use?

- Selected NB will work with its own National CA
- Considerations for the Company with regard to CA:
 - Likely agreement of designation as a drug/device combination under 93/42
 - Knowledge of the drug
 - Access to DMF/reviewed the drug
 - Available resources that understand devices
 - Commitment to timelines
 - Flexibility around claims and openness to discussion



Examples of Competent Authorities

● MHRA (UK)

- Combined agency for drugs and devices
- Pragmatic but conservative
- Uncertain timelines

● MEB (The Netherlands)

- Require 2 months notice for submission
- Structured review and predictable timing

● MPA (Sweden)

- Simple process
- Open to dialogue
- Experienced
- Not accepting new submissions in remainder of 2005

● IMB (Ireland)

- Highly committed but currently some resource limitations



Additional Factors

- Do not approach CA directly without pre-discussion and agreement of NB
- Answer all questions in a timely manner (responses to questions from CA should go via NB)
- Be prepared to adopt CA suggestions to gain approval
- After receiving EC Design Exam Certification generate Declaration of Conformity and apply CE mark
- Enact Post-marketing surveillance plan



EC Declaration of Conformity

- Once the company has obtained full Quality System Registration (QSR), including the applicable EN46000 standard, it is entitled to self-declare
 - Manufacturer quality system must be registered to applicable ISO9000 and EN46000 standards
 - Will be subject to routine surveillance
 - Requires application for assessment of quality system by NB and obligation to notify CA of serious events
 - Any substantial changes to quality system must be notified to NB
 - Manufacturer is required to maintain declaration of conformity for 5 years after last product manufactured



Issues requiring attention

- How should new Medicinal Products in a device be managed – national or EMEA
- Adverse event follow up
- Review of changes after product introduction
- Long term follow up
- Consistency of clinical requirements
- Uncertainty on timing for the review and approval process





USA Requirements and Company Strategy



Definition of a Drug

- Articles intended for use in the diagnosis, cure, mitigation, treatment or prevention of disease in man or other animals
- Articles other than food intended to affect the structure or any function of the body of man or other animals



Definition of a Device

- Instrument, apparatus, implement, machine, contrivance, implant, in vitro reagent, or similar or related article, including any component, part or accessory which is:
 - Intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment or prevention of disease....
 - Intended to affect the structure or any function of the body.....
 - Which does not accomplish its primary intended purpose through chemical action within the bodyand which is not dependent on being metabolized for achievement of its primary intended purposes



Definition of a Combination Product

- **Until 2002 combination products not defined in CFR**
- **Now defined in 21CFR § 3.2(e)**
 - **A product comprised of two or more regulated components (drug/device, drug/biologic, drug/device/biologic)**
 - **Two or more separate products packaged in a single package and comprised of drug and device products, drug and biological products, or biological and drug products**
 - **A drug, device or biological product packaged separately but where both are required to achieve the intended effect**
 - **Any investigational drug, device, or biological packaged separately but for use only with another specified drug, device or biological**



US Regulatory Approaches

Device (CDRH)	Drug (CDER)	Biologic (CBER)
IDE	IND	IND
510(k)	NDA	BLA
PMA		



Office of Combination Products- Useful Contacts

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Office of Combination Products (OCP)

- **Created 2002**
- **Assignment of combination product reviews to a center and coordinating timely premarket reviews involving more than one center**
- **Development of rules and guidance documents**



Primary Mode of Action – an Illustration

- **Drug Eluting Stent**
 - Primary mode of action – stent opens artery
 - Secondary action – drug prevents restenosis and inflammation of artery
- **Regulated as a device (PMA)**
- **Drug Eluting Disc**
 - Primary mode of action – cancer chemotherapy
 - Secondary action – local drug delivery by device
- **Regulated as a drug (NDA)**



Company and the OCP

- **Company Opportunities**
 - Early communication with the OCP
 - Meeting to discuss issues and frame strategy
 - Request for designation (but OCP will decide)
- **OCP will determine what are the issues that create potential risk to patient and assign primary review**
 - To CDER if risk of drug outweighs device
 - To CBER if risk of device outweighs those of drug



Company Responsibilities

- Determine primary mode of action and be able to explain effectively
- Consider most likely regulatory pathway and questions that will need to be addressed
- Understand approaches typically taken by lead center
- Review precedence
- Review guidance documents
- Consult with the Agency



Summary

- Combination Products are an increasingly important sector
- Critical need to understand current guidelines and regulations
- Opportunities for discussion are available
- Guidelines and regulations are continuing to evolve
- Guesses can be expensive mistakes!