



# Orphan Drugs Addressing Patients' Needs Across Europe

## 2000 - 2005

1<sup>st</sup> Eastern European Conference on Rare Diseases and Orphan Drugs  
Plovdiv, Bulgaria, 27 May 2005



# **Drug Therapy in Rare Diseases**

A vertical blue bar with five yellow stars, positioned on the left side of the slide.

**Persons suffering from rare diseases  
have the same rights as their fellow citizens  
to safe and effective therapies**

# What is an Orphan Medicinal Product

## Orphan Medicinal Products

- for rare diseases
- development costs > expected return on investment
- life-threatening or very serious

Lack of sponsors developing orphan medicinal products




# EU Orphan Regulations



- Regulation (EC) No 141/2000 of the European Parliament and of the Council on Orphan Medicinal Products of 16 December 1999
- Commission Regulation (EC) No 847/2000 of 27 April 2000

# Orphan Medicinal Products

## Scope of EU Regulations

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- A vertical blue bar with five yellow stars, positioned on the left side of the slide.
- For medicinal products for human use only
  - Not for medical devices
  - Not for food or food supplements
  - Not for medicinal products for veterinary use

# What are the EU incentives ?

## Protocol Assistance

free scientific advice  
to optimise development

## Market Exclusivity

for 10 years after grant of  
EU marketing authorisation

## Centralised Procedure

direct access to EMEA  
centralised procedure for  
marketing authorisation

## EU-Funded Research

grants from Community  
& Member State programmes

## Fee Reductions

reduction of centralised  
regulatory fees via a special fund  
from EU budgetary authority



# Committee for Orphan Medicinal Products (COMP)

## EMA Committee: 31 members + Chairman

- 1 Member per Member State
- 3 representatives from patients groups
- 3 members proposed by the EMA

## COMP Responsible for:

- opinions on designation
- advising on general EU policies
- international co-operation





# Orphan Medicinal Products

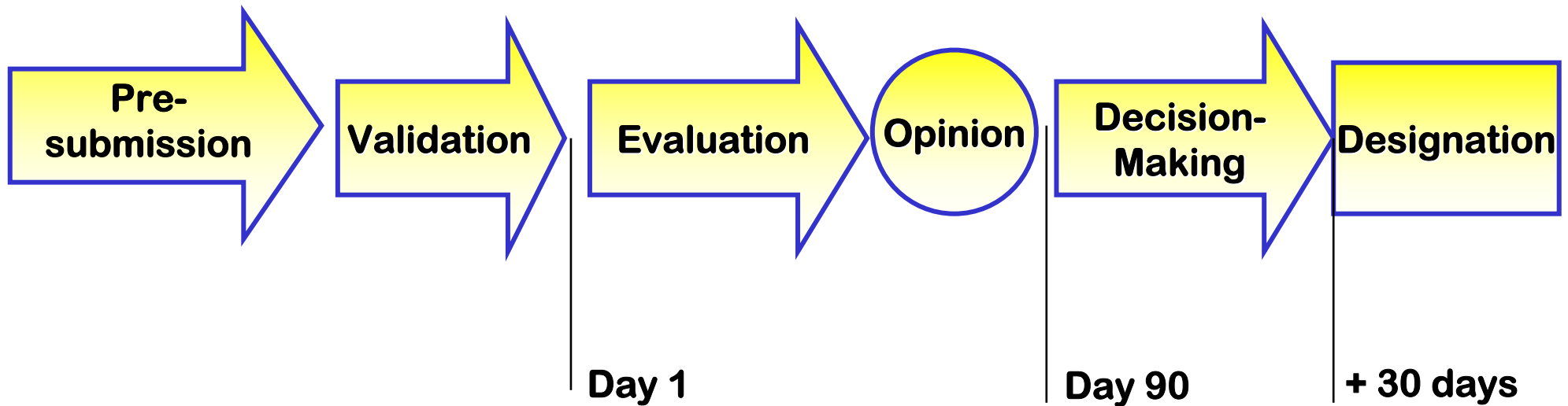
## Role of EMEA

- Administrative & technical secretariat of COMP
- Validation and assessment of requests for designation
- Protocol assistance: regulatory and scientific
- Fee reductions: any fee                      EU special contribution
- EU Register on Orphan Drugs





# Procedure for Orphan Designation




# Application for Orphan Designation

Application should demonstrate orphan criteria have been met:

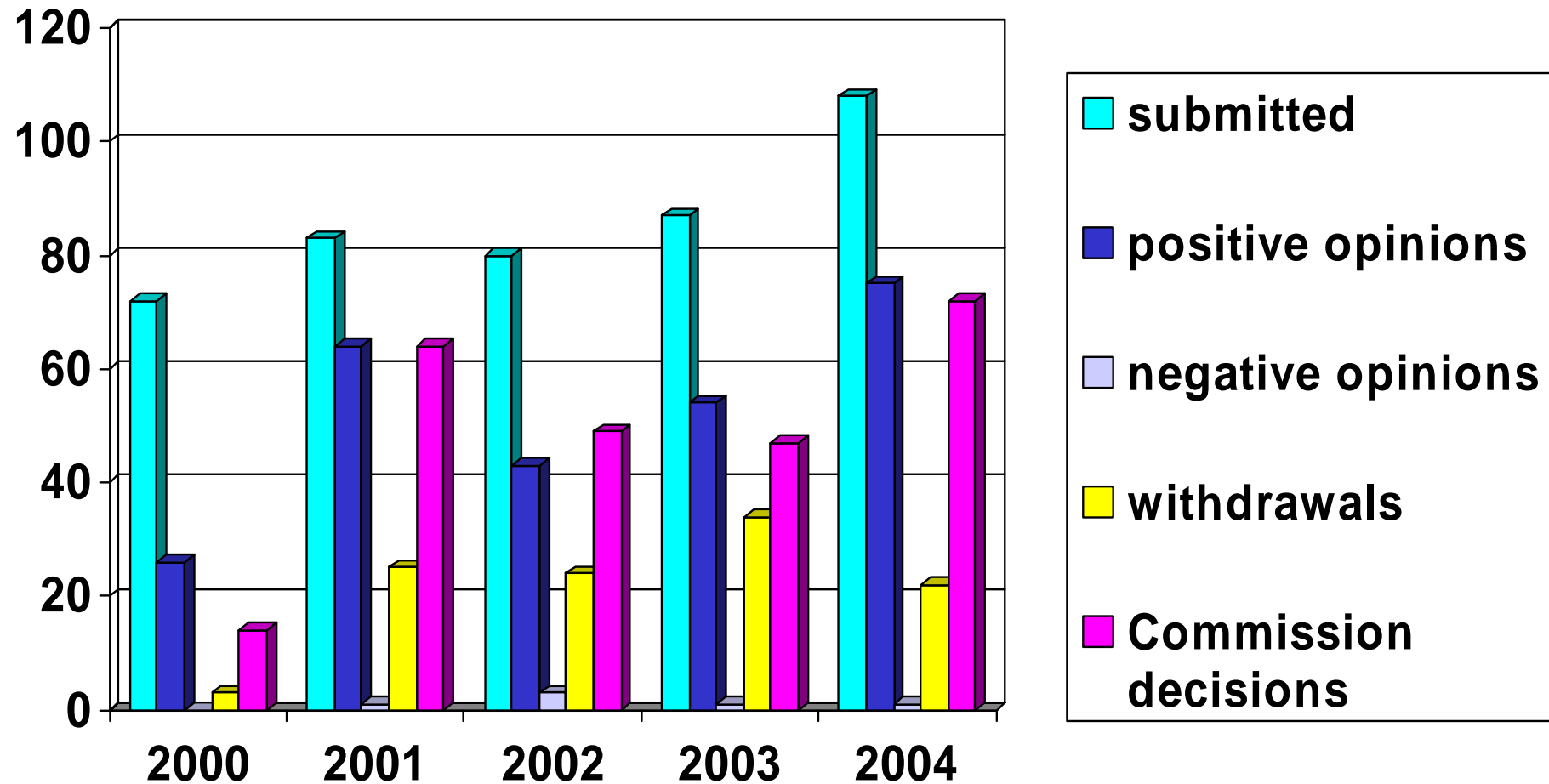
- life-threatening or debilitating nature of condition
- medical plausibility
- prevalence  $< 5$  in 10,000 or unlikely to generate sufficient return on investment
- no satisfactory methods exist or medicinal product will be of significant benefit

All claims should be substantiated by references

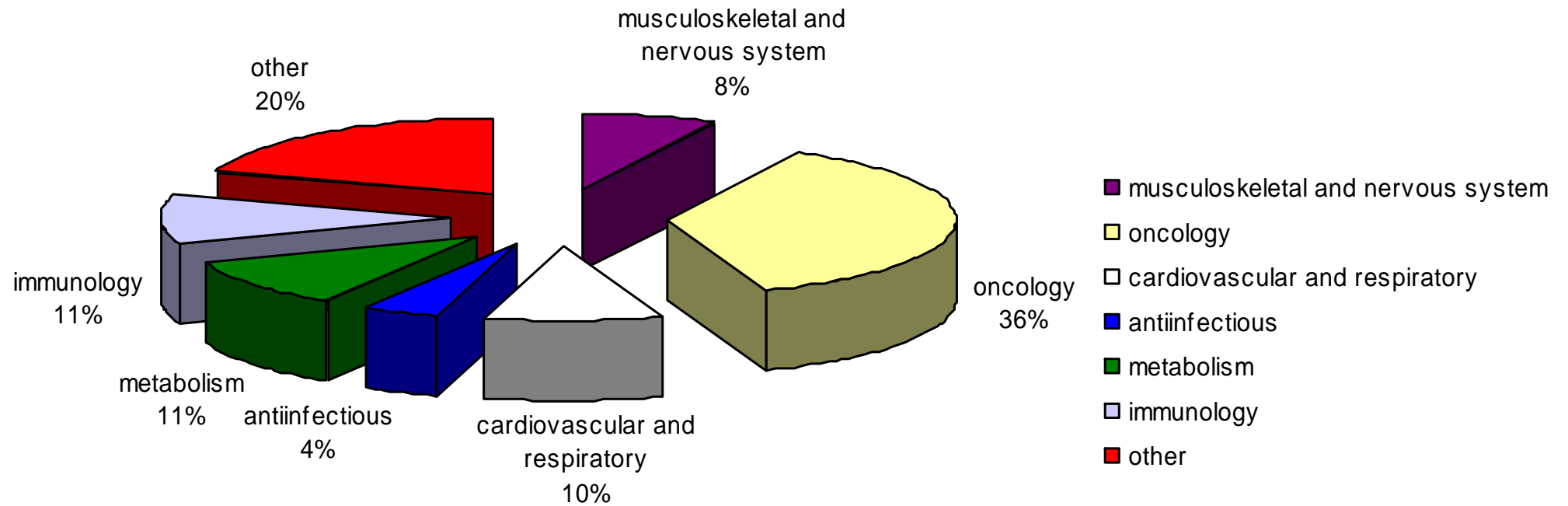
## ...Conditions for achieving orphan drug status...

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- A vertical blue bar with five yellow stars, positioned on the left side of the slide.
- The sponsor's hypothesis should be biologically plausible
  - The indication should be a genuine one not 'manufactured' by sub-setting a common condition

# Status of Orphan Applications 2000-2004



# Distribution of opinions



Up to April 2005



# Protocol Assistance

## Article 6 of Regulation (EC) No 141/2000

- **Protocol Assistance = Scientific Advice for companies developing Orphan Medicinal Products**
- **Revised procedure adopted by the CHMP 2003**
- **Implementation of changes from new Pharmaceutical Regulation by end 2005**





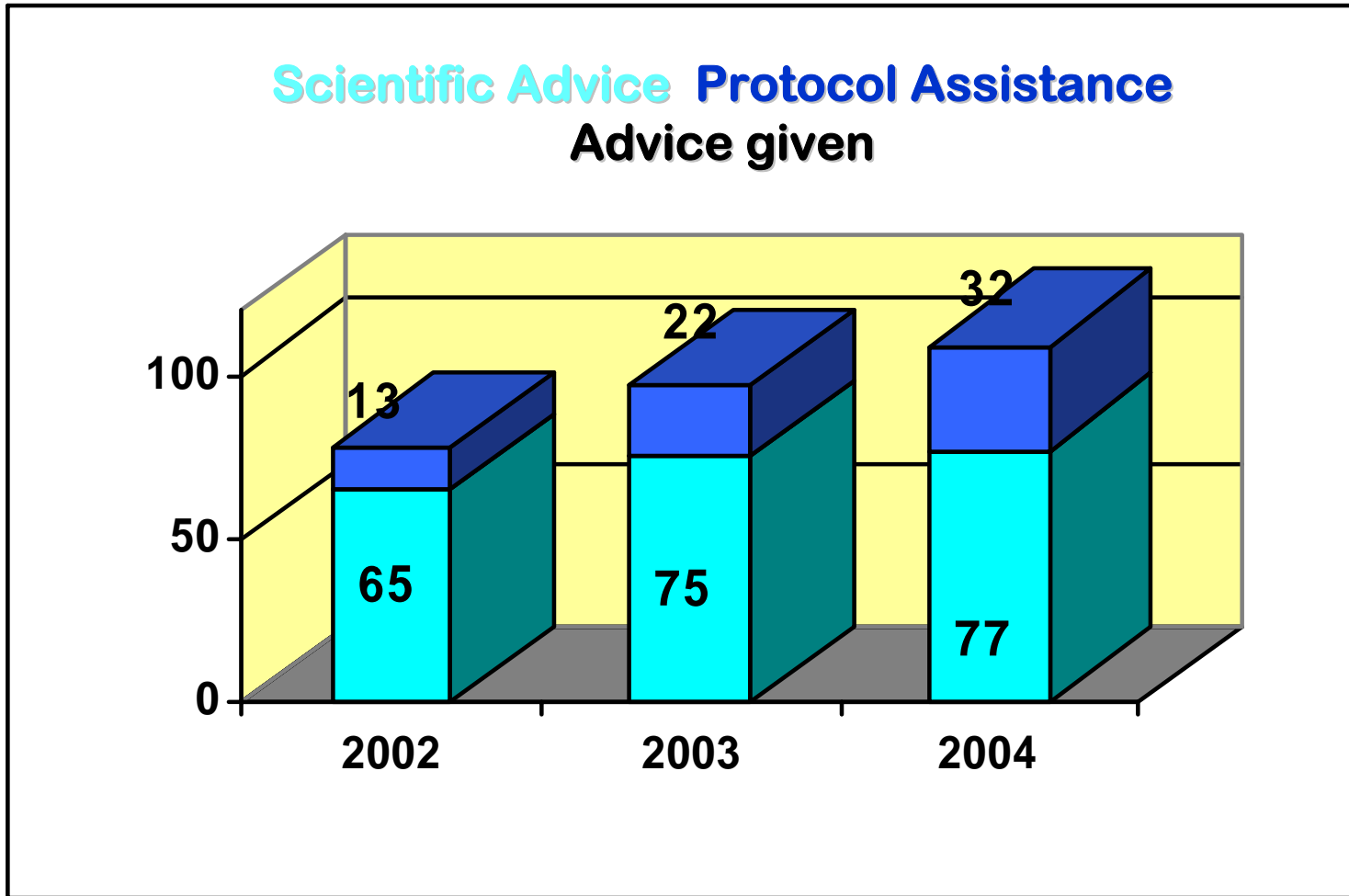
# Protocol Assistance – Key Features



- **Systematic pre-submission meeting with the EMA**
- **Oral explanations in the majority of cases**
- **Additional and specific expertise to participate in SAWP**
- **Involvement of 2 representatives of the Committee for Orphan Medicinal Products in SAWP (Significant Benefit issues)**
- **Fee reduction (currently 100% = free)**



# Scientific Advice / Protocol Assistance *Procedures*







# Orphan Medicinal Products Application for Marketing Authorisation (MAA)

At the stage of MAA:

- Filing can currently be through Mutual Recognition Procedure or Centralised Procedure
- In November 2005, Centralised filing obligatory
- To obtain Market Exclusivity MA must be granted by all Member States
- Fee reductions are granted by some MS's and by EMA for centralised applications




# Orphan Medicinal Products Application for Marketing Authorisation (MAA)

## At the stage of MAA:

- Designation shall be removed if it is established prior to grant of the marketing authorisation that the designation criteria are no longer met (Art 5.12 Reg 141/2000)
- COMP will review 'significant benefit' criterion prior to grant of MA

## Therapeutic Indication

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- A vertical blue bar with five yellow stars, positioned to the left of the list items.
- Therapeutic indication at the time of the marketing authorisation will be the result of the assessment of the quality, safety and efficacy data in a certain population
  - It may be more limited than the orphan condition



# Orphan Medicinal Products Market Exclusivity

Period of 10 years exclusivity from MA grant in all MS

Reduction in period of exclusivity:

- May be reduced to 6 years if
  - medicinal product is sufficiently profitable

Criteria for breaking the exclusivity:

- if MAH consents or,
- MAH is unable to supply sufficient quantities of product,  
or
- if the similar product is clinically superior




# Status of Orphan Marketing Authorisation Applications

20 centralised marketing authorisations granted to date

- ↓ Fabrazyme for Fabry disease
- ↓ Replagal for Fabry disease
- ↓ Glivec for chronic myeloid leukaemia
- ↓ Tracleer for pulmonary arterial hypertension
- ↓ Trisenox for acute promyelocytic leukaemia
- ↓ Somavert for acromegaly
- ↓ Zavesca for Gaucher disease
- ↓ Carbaglu for hyperammonaemia
- ↓ Aldurazyme for Mucopolysaccharidosis
- ↓ Busilvex for haematopoietic progenitor cell transplantation

Up to April 2005

# Status of Orphan Marketing Authorisation Applications cont'd

- 
- A vertical blue bar on the left side of the slide, containing six yellow stars arranged vertically.
- ↓ Ventavis for pulmonary arterial hypertension
  - ↓ Onsenal for Familial Adenomatous Polyposis
  - ↓ Litak for Hairy cell leukaemia
  - ↓ Lysodren for adrenal cortical carcinoma
  - ↓ Pedeia for Patent Ductus Arteriosus
  - ↓ Photobarr for Barret's oesophagus
  - ↓ Wilzin for Wilson's disease
  - ↓ Xagrid for Thrombocythaemia
  - ↓ Orfadin for Hereditary tyrosinemia type 1
  - ↓ Prialt for chronic pain requiring intraspinal analgesia



## **Status of Orphan Marketing Authorisation Applications cont'd**



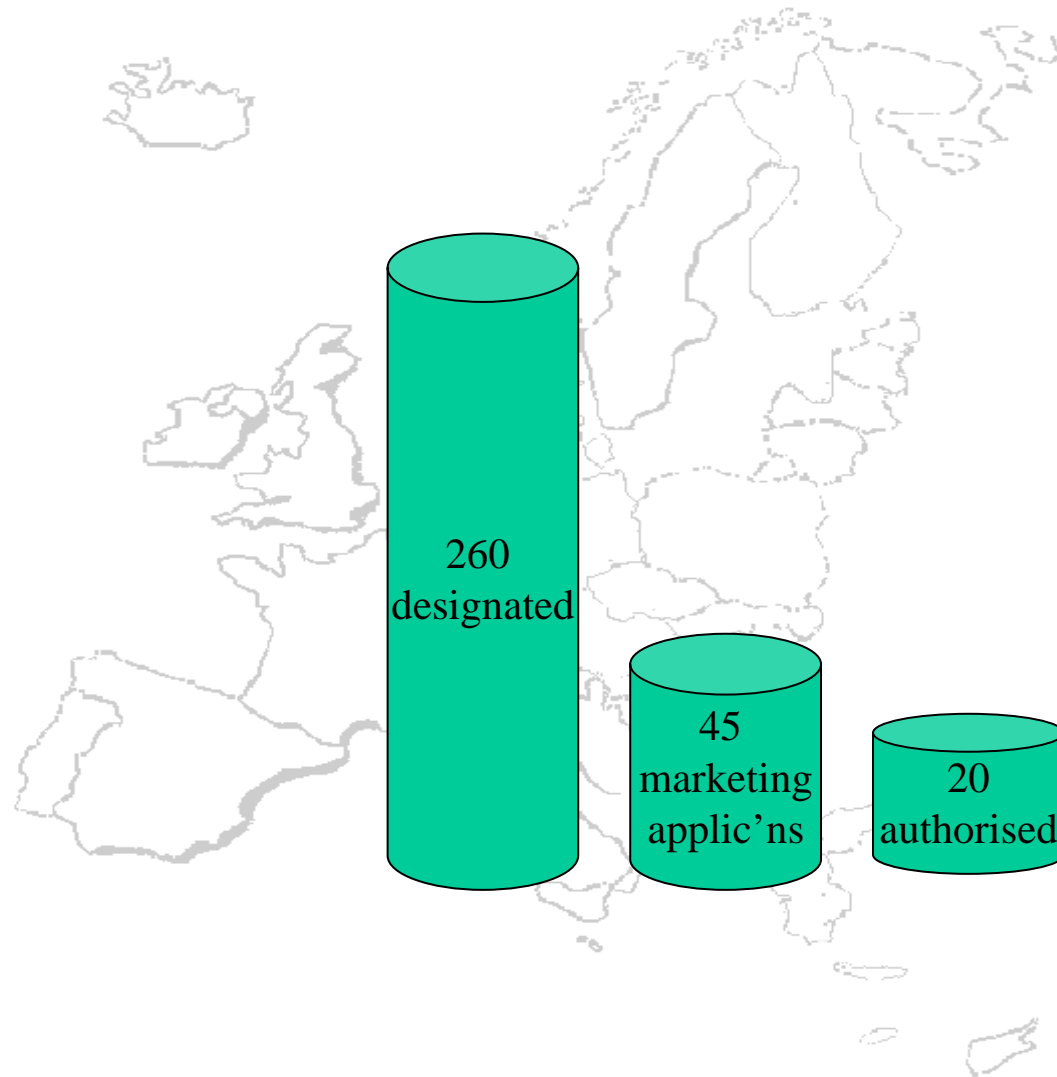
### **Three extensions of indication**

- Glivec for GIST
- Glivec for first line use in CML
- Glivec for paediatric use in CML

### **Fifteen centralised applications in review process**

### **Two marketing authorisations granted through Mutual Recognition**

# Orphan EU Marketing Authorisations



1,043,000 patients

