

1<sup>st</sup>  Workshop on Advance  
Therapy Medicinal Products (ATMPs)

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# Scientific Recommendation on the Classification of ATMPs

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EMA  
Regulatory Affairs



# AGENDA

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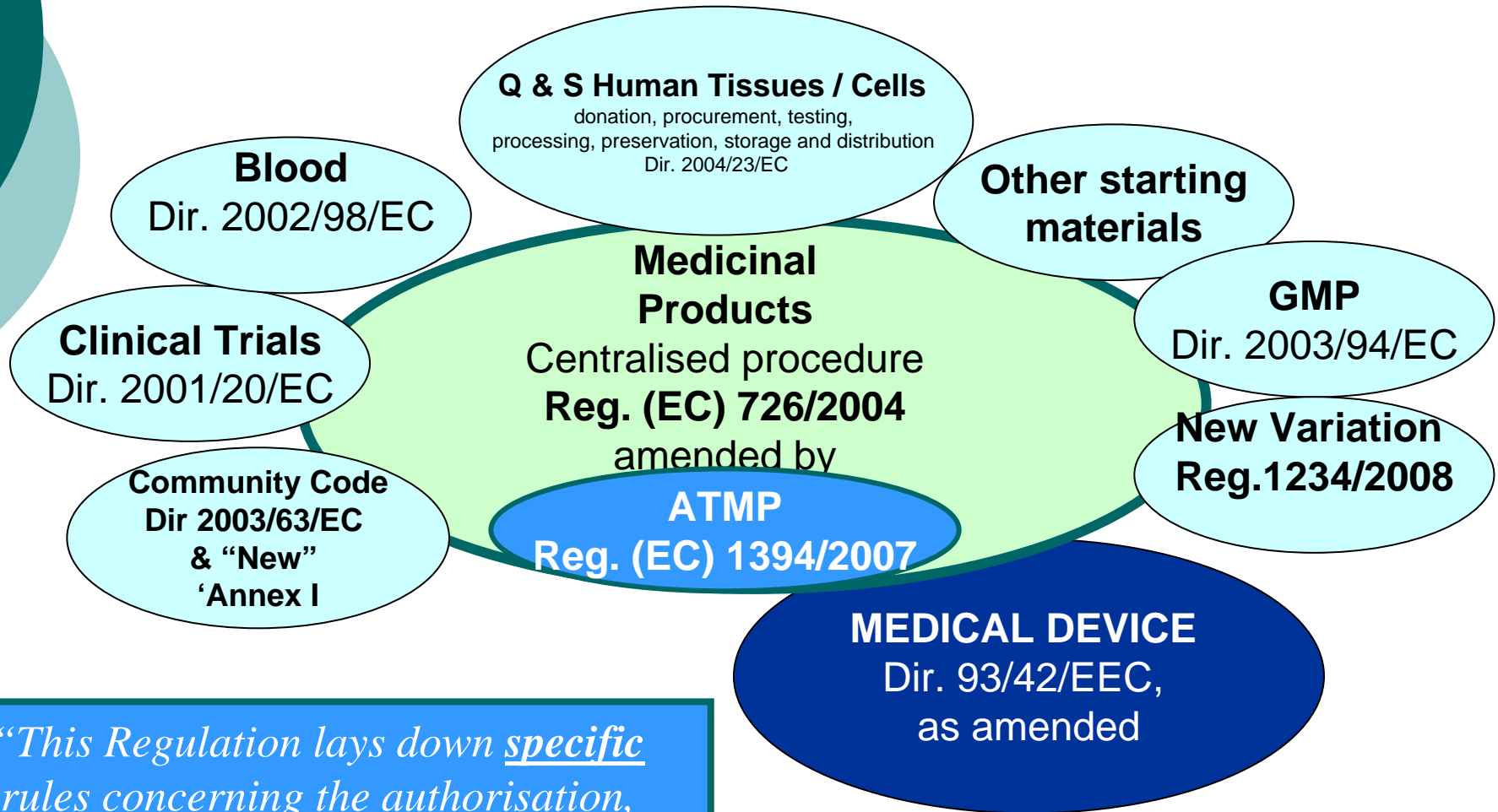
## Introduction

1. **ATMPs Definition**
2. **Borderlines' considerations**
3. **Scientific Recommendation**
  - 3.1 Legal basis
  - 3.2 Procedure
  - 3.3 Role and Responsibilities
  - 3.4 Timetable
  - 3.5 Decision Tree
  - 3.6 Publication of Summaries
  - 3.7 Timing of Request for Scientific Recommendation of Classification

## Conclusion

# INTRODUCTION

## ATMPs LEGISLATIVE REFERENCES



*“This Regulation lays down specific rules concerning the authorisation, supervision and pharmacovigilance of advanced therapy medicinal products.”*

# 1. ATMP DEFINITION

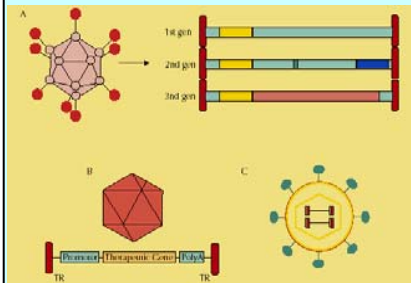
## ADVANCE THERAPY MEDICINAL PRODUCTS

Gene therapy medicinal products

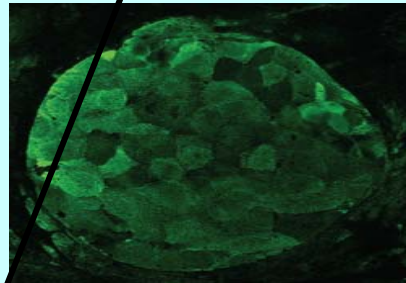
Somatic cell therapy medicinal products

Tissue engineering products

Genetically modified cells



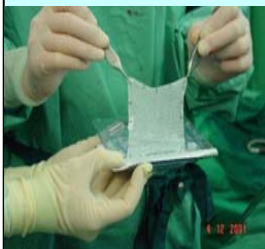
[www.heartandmetabolism.org](http://www.heartandmetabolism.org)



Nat Biotechnol 2005, 23(7)



[www.biomed.brown.edu](http://www.biomed.brown.edu)



COMBINED ATMP + MEDICAL DEVICES

# 1. ATMP DEFINITION: GENE THERAPY MEDICINAL PRODUCT

NEW DEFINITION  
ANNEX 1 Dir. 2001/83/EC

JUST PUBLISHED

**Gene therapy medicinal product** means a biological medicinal product which has the following characteristics:

- (a) it contains an active substance which contains or consists of a recombinant nucleic acid used in or administered to human beings with a view to regulating, repairing, replacing, adding or deleting a genetic sequence;
- (b) its therapeutic, prophylactic or diagnostic effect relates directly to the recombinant nucleic acid sequence it contains, or to the product of genetic expression of this sequence.

Gene therapy medicinal products shall not include vaccines against infectious diseases.

# 1. ATMP DEFINITION: GENE THERAPY MEDICINAL PRODUCT

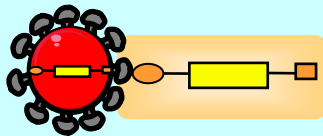
GENETICALLY  
MODIFIED  
HUMAN CELLS

cell line

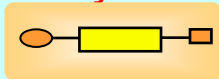
cell

1) Isolation of the  
target cells

2) Gene transfer



3) Re-Infusion of the  
genetically modified cells

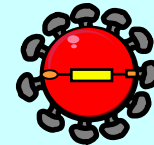


VECTOR, NUCLEIC  
ACIDS, REPLICATING  
MICRO-ORGANISM  
(NOT INCL. LIVE  
VACCINES)

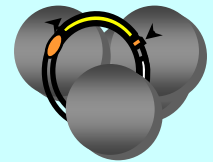
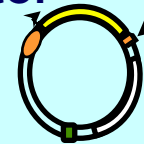


Direct application:

• viral vector

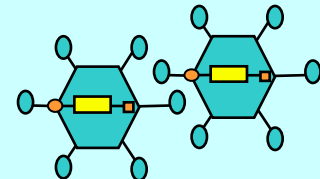


• non-viral vector



• naked DNA

• replicating rec. micro-organism  
(adenovirus, salmonella)



# 1. ATMP DEFINITION: SOMATIC CELL THERAPY MEDICINAL PRODUCT

JUST PUBLISHED

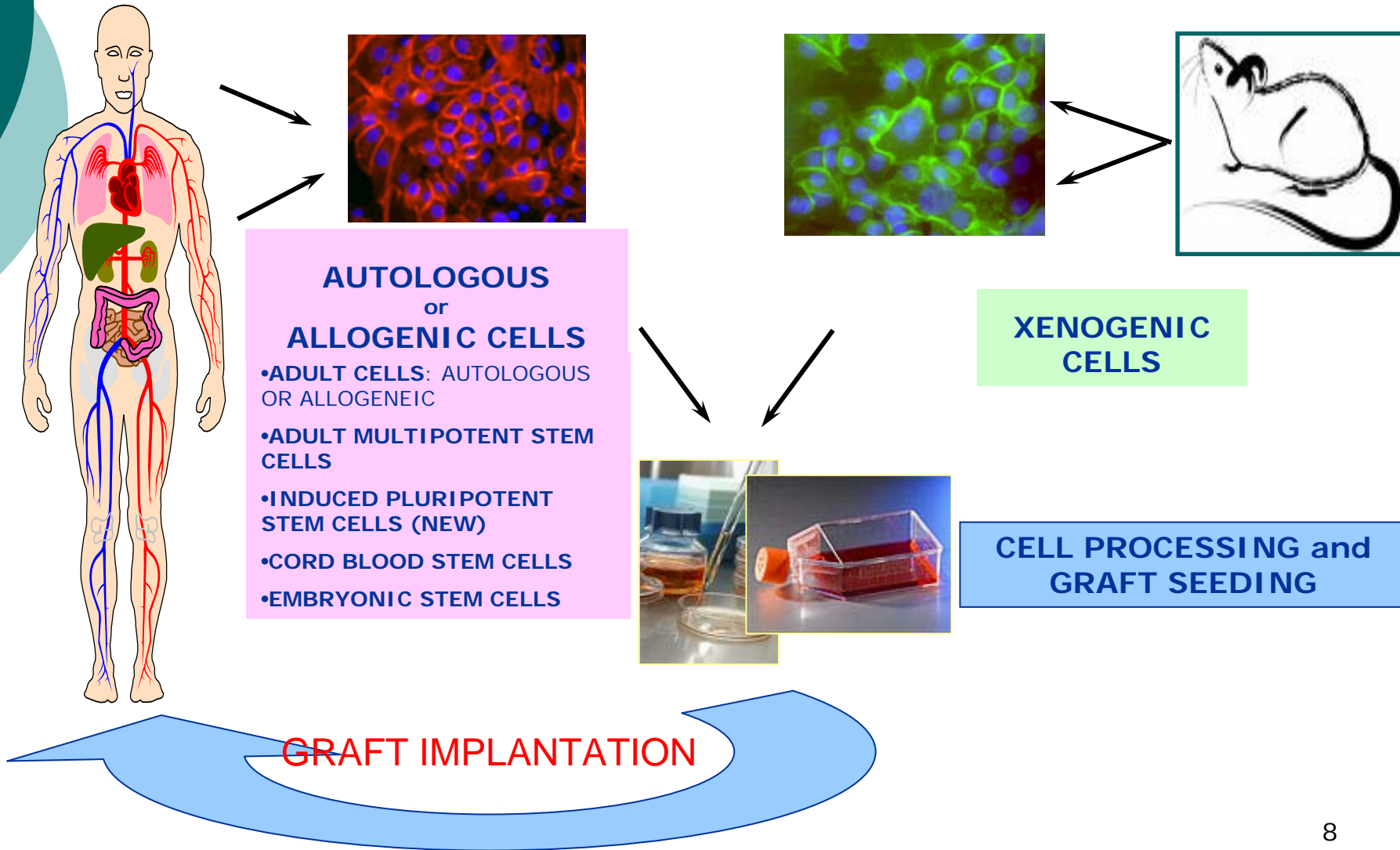
NEW DEFINITION ANNEX 1 Dir. 2001/83/EC

**Somatic cell therapy medicinal product** means a biological medicinal product which has the following characteristics:

- (a) contains or consists of cells or tissues that have been subject to substantial manipulation so that biological characteristics, physiological functions or structural properties relevant for the intended clinical use have been altered, or of cells or tissues that are not intended to be used for the same essential function(s) in the recipient and the donor;
- (b) is presented as having properties for, or is used in or administered to human beings with a view to treating, preventing or diagnosing a disease through the pharmacological, immunological or metabolic action of its cells or tissues.

For the purposes of point (a), the manipulations listed in Annex I to Regulation (EC) No 1394/2007, in particular, shall not be considered as substantial manipulations.

# 1. ATMP DEFINITION: SOMATIC CELL THERAPY MEDICINAL PRODUCT





# 1. ATMP DEFINITION: TISSUE ENGINEERED MEDICINAL PRODUCT

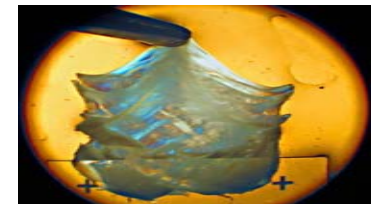
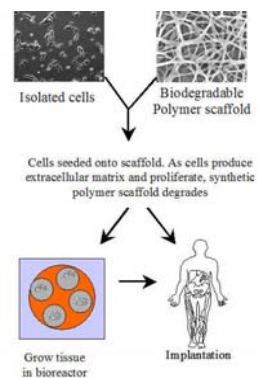
NEW DEFINITION Art. Reg. 1394/2007

## ○ Tissue Engineered products (TEP)

- Contain/consist of engineered cells/tissues
- Presented as having properties for, or is used in or administered to human beings with a view to regenerating, repairing or replacing a human tissue

### ○ Examples:

- Artificial skin (burn wounds)
- Neo-organs (corneal, blood vessel, liver, cartilage or bone tissue engineering)



## 2. BORDERLINE CONSIDERATIONS

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### SOME INCLUSION/EXCLUSION CRITERIA & PRINCIPALS (1)

- **TEP** may contain:
  - Non viable and viable cells are **included**
  - Products which **do not** contain any **viable cells** and which **do not** act principally by metabolic action are **excluded**
- Cell/device association no longer considered *a priori* as 'engineered'
  - Aspect/definition of « substantial manipulation » to be considered

## 2. BORDERLINE CONSIDERATIONS

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### SOME INCLUSION/EXCLUSION CRITERIA & PRINCIPALS (2)

- In case ATMP containing **both** **autologous** and **allogenic** cells or tissues it shall be considered to be for **allogenic use**
- In case product falls in definition of **TEP** and **sCT** it shall be considered as **TEP**
- In case products falls in definition of **GT** and **TEP** or **sCT**, then **GT > TEP > sCT**

## 2. BORDERLINE CONSIDERATIONS

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### SOME EXCLUSION CRITERIA AND PRINCIPALS (3) ART. 28 OF REG. 1394/2007 SO CALLED “HOSPITAL EXEMPTION”

- Additional exclusion under very specific conditions e.g.:
  - Non-routine basis of production
  - Specific quality standards
  - Used in same MS in hospital (manufacturing authorised by Comp. Authority of MS)
  - Custom-made product for individual patient
  - Under the exclusive professional responsibility of a practitioner



National rules on the use of cells on ethical grounds

# 3. SCIENTIFIC RECOMMENDATION

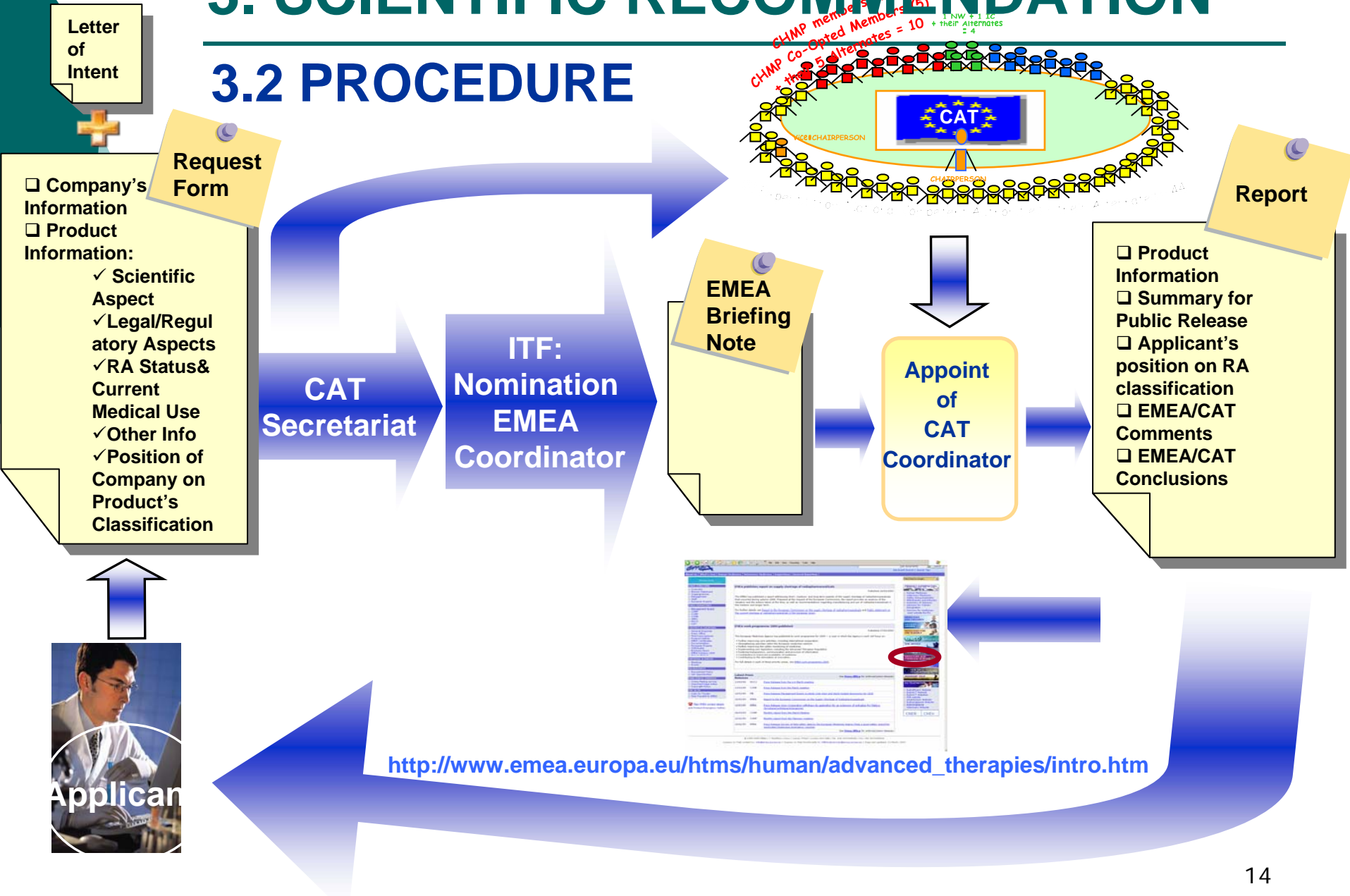
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## 3.1 LEGAL BASIS: Art. 17 OF Reg.(EC) NO 1394/2007

- “1. Any applicant developing a product based on genes, cells or tissues **may** request a scientific recommendation of the Agency with a view to **determining whether the referred product falls, on scientific grounds, within the definition of an advanced therapy medicinal product.** The Agency shall deliver this recommendation after consultation with the **Commission** and **within 60 days** after receipt of the request.*
- 2. The Agency shall **publish summaries** of the recommendations delivered in accordance with paragraph 1, **after deletion of all information of commercial confidential nature.**”*

# 3. SCIENTIFIC RECOMMENDATION

## 3.2 PROCEDURE



# 3. SCIENTIFIC RECOMMENDATION

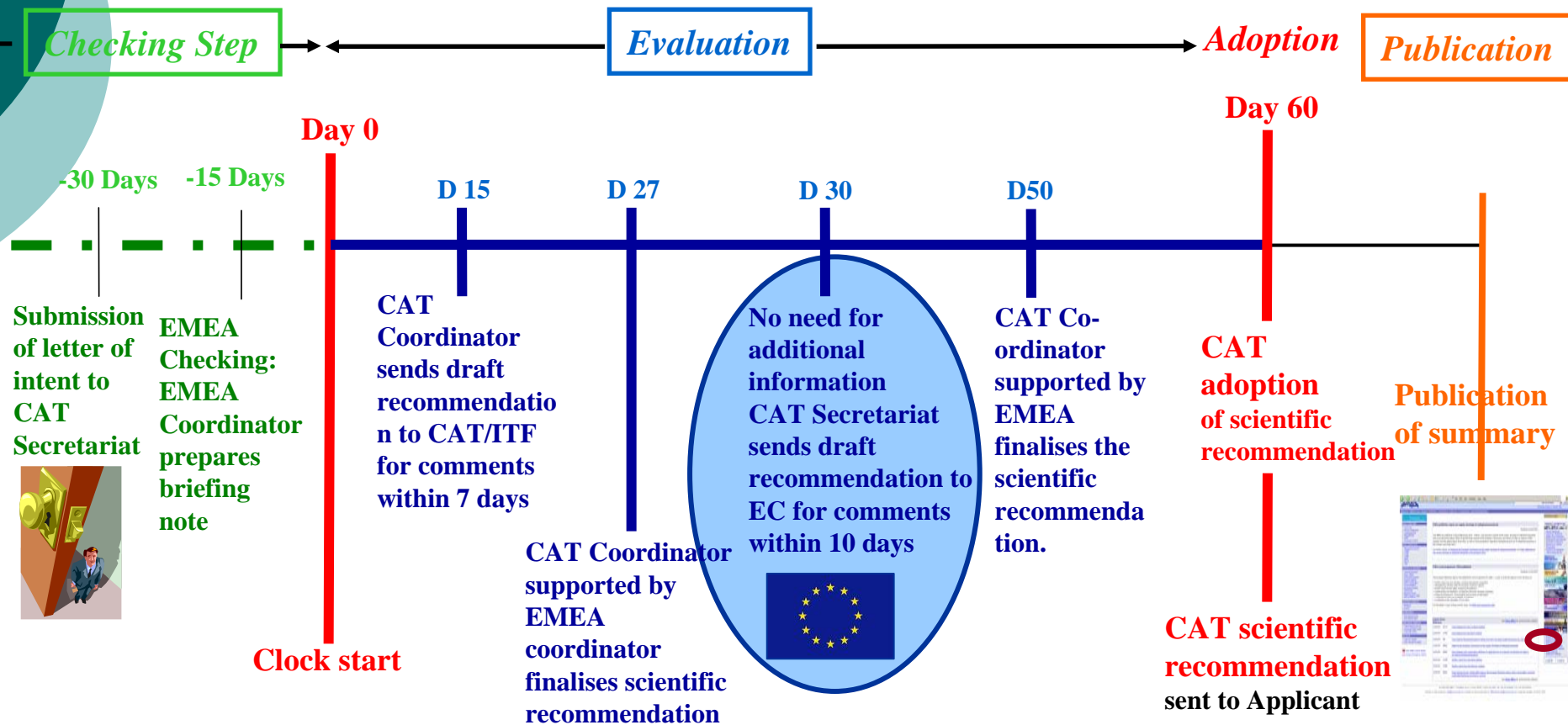
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## 3.3 ROLES AND RESPONSIBILITIES

- **CAT:**
  - responsible for provision of scientific recommendations
- **CAT Secretariat**
  - coordinates the procedure at the level of the CAT
- **CAT Coordinator(s)**
  - prepare and finalise the scientific recommendations
  - identify need to consult NB and/or WP for agreement at CAT
- **EMEA Coordinator**
  - Contact point
  - check adequacy of requests
  - Support CAT Coordinator
- **Innovation Task Force (ITF)**
  - peer-review including regulatory, legal and scientific aspects

# 3. SCIENTIFIC RECOMMENDATION

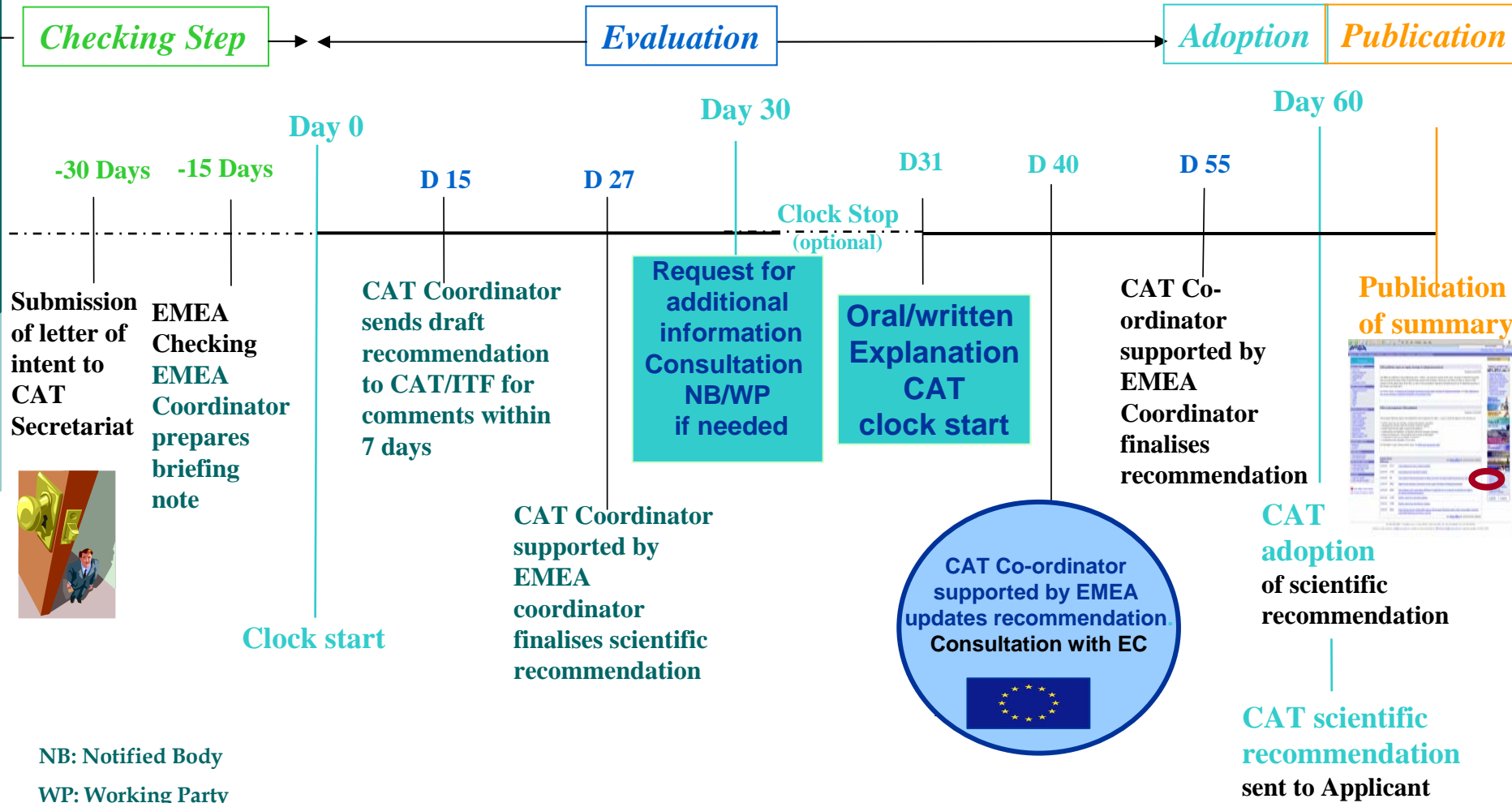
## 3.4 TIMETABLE (standard)





# 3. SCIENTIFIC RECOMMENDATION

## 3.4 TIMETABLE (when additional information is requested)



# 3. SCIENTIFIC RECOMMENDATION

## 3.5 DECISION TREE

Tissue/Cell/Gene based products  
Request for Scientific Recommendation on ATMP classification

1/ Fulfilment of Art.1(2) Dir. 2001/83/EC  
(e.g medicinal product)

When applicable, **conformity**  
with: Art. 3 (a to l ; o to q)  
Dir. 2004/23/EC (e.g Tissue, cell...)

**Not Medicinal Product**

**Medicinal Product**

**Conclusion**  
Not ATMP  
(on basis that Art. 1(2) Dir.  
2001/83/EC is not fulfilled)

Fulfilment of Art 2(1) Dir.2001/83/EC  
(e.g. **Industrial Process**)?  
*If applicable at the current stage of  
development*

2/ Fulfilment of Art 2(1)(a) Reg 1394/2007 (ATMP)  
-Gene Therapy Medicinal Product and/or  
- Somatic Cell Therapy Medicinal Product and/or  
-Tissue Engineered Product

**Not ATMP**

**ATMP**

**Conclusion**  
Not ATMP  
(on basis that Art. 2(1a) Reg  
1394/2007 is not fulfilled)

Fulfilment of Art 1(2)(d) Reg  
1394/2007  
**Combined ATMP**

**Conclusion**  
ATMP  
+ Sub-category (Art. 2(1)(a) i.e. Art.2(1)(b), (c) or  
(d), Art. 2(2)-(5) & new Annex I definitions New  
definitions of GTMP and sCTMP

# 3. SCIENTIFIC RECOMMENDATION

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## 3.6 TRANSPARENCY: SUMMARY REPORT

- **Follow the transparency rules**
- **Removal of confidential information**
- **Summary will contain the following information:**
  - Product description
  - Therapeutic area
  - Outcome of the scientific recommendation
  - Date

Reference : Principles to be applied for the deletion of commercially confidential information for the disclosure of EMEA documents (EMEA/45422/2006):  
<http://www.emea.europa.eu/pdfs/human/euleg/4542206en.pdf>

# 3. SCIENTIFIC RECOMMENDATION

## 3.6 TRANSPARENCY

Templates  
Request/Report  
Form

### 6. Proposed Summary for future publication

Product description	
Therapeutic area	
Outcome of the scientific recommendation	
Date	

Applicant  
include  
proposed  
information for  
publication



# 3. SCIENTIFIC RECOMMENDATION

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## 3.6 TRANSPARENCY: CAT MONTHLY REPORT



European Medicines Agency  
Post-authorisation Evaluation of Medicines for Human Use

London, 27<sup>th</sup> March 2009  
EMA/CAT/169206/2009

### COMMITTEE FOR ADVANCED THERAPIES (CAT) MARCH 2009 MEETING MONTHLY REPORT

The CAT Monthly Report includes statistical data for the current year on CAT scientific recommendation on ATMP classification, Certifications, Initial Evaluations, CAT contributions to Scientific Advice as well as Variations, Line Extensions, Renewals. In addition, the report will include a summary table of the draft opinions issued by the CAT in the current year and a list of adopted guidelines and other public documents.

The Committee for Advanced Therapies (CAT) held its third meeting on 12<sup>th</sup>-13<sup>th</sup> March 2009.

The Committee welcomed a delegation from Japan. Prof. Takao Hayakawa – Director of the Pharmaceutical Research Technology Institute at the Kinki University and Senior Advisor at the Pharmaceuticals and Medical Devices Agency and Dr Yoji Sato - Section Chief at the Division of Gene and Cellular Therapy Products at the national Institute of Health Sciences (NIHS) who attended the CAT meeting with a view to learning more about the European approach to advanced therapy medicinal products (ATMPs) and to exploring potential opportunities for co-operation between EC/EMA and Japan in this area.

#### Organisational matters

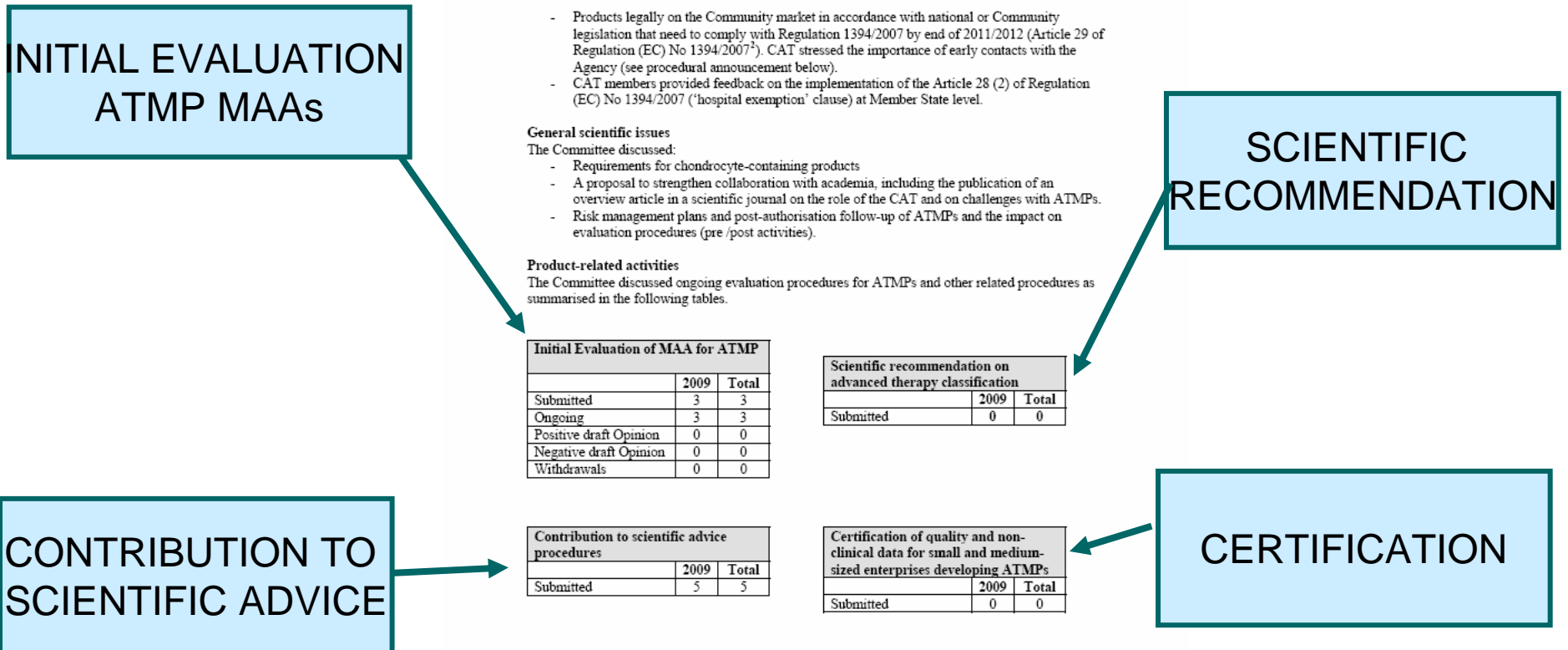
The Committee adopted the following documents:

- CAT Rules of Procedure (EMA/CAT/454446/2008) to be published in due course.
- Procedural Advice on the evaluation of Advanced Therapy Medicinal Products (ATMPs) (pre-authorisation, post-authorisation, re-examination) (EMA/630043/2008).
- Procedural Advice on Scientific Recommendation on Advanced Therapy Classification (EMA/584508/2008)<sup>1</sup>, including:
  - Request Form for Applicants
  - Report Template (EMA/13650/2009)

These procedural advice documents will be available in due course on the EMA web site at:  
[http://www.emea.europa.eu/htms/human/advanced\\_therapies/regulation.htm](http://www.emea.europa.eu/htms/human/advanced_therapies/regulation.htm)

# 3. SCIENTIFIC RECOMMENDATION

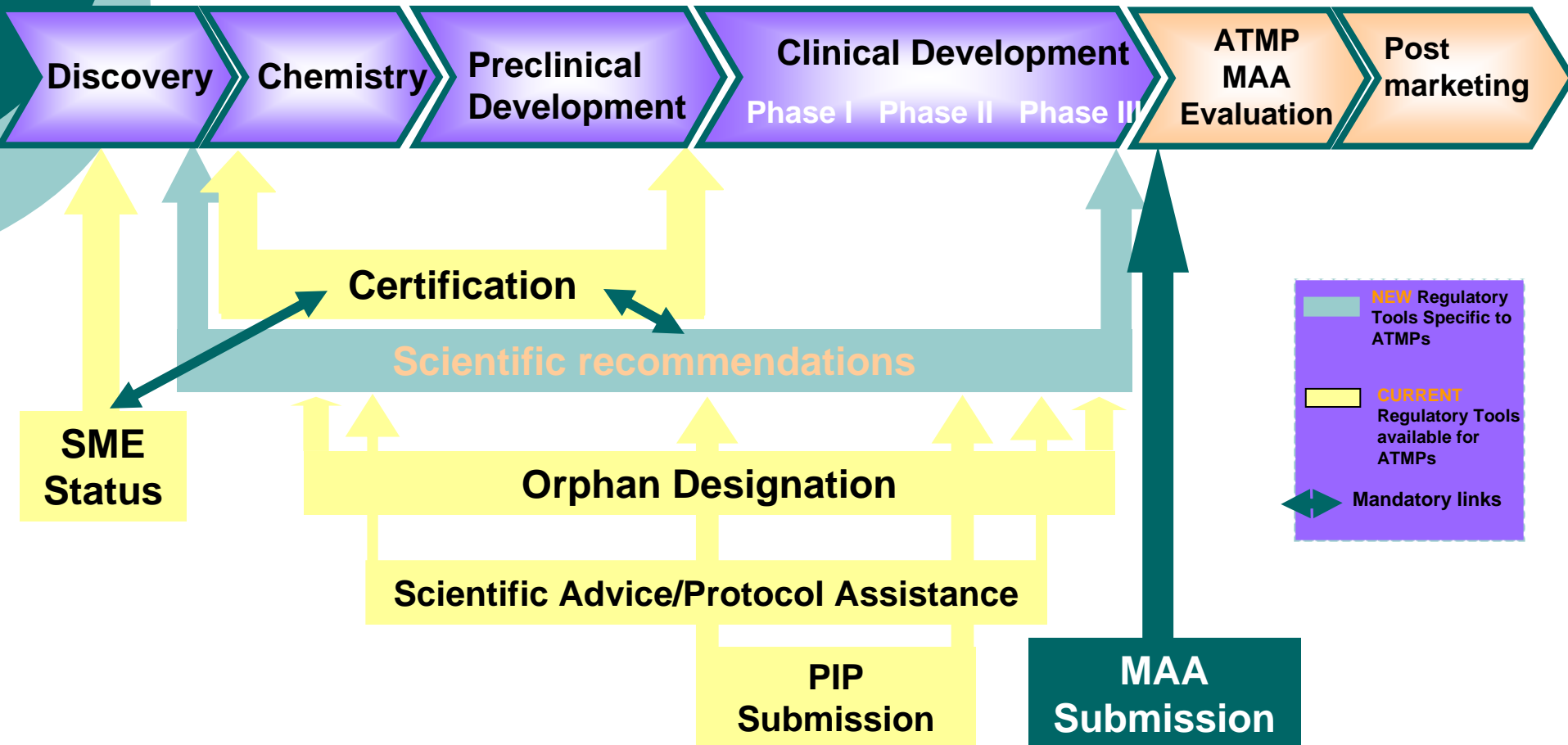
## 3.6 TRANSPARENCY: CAT MONTHLY REPORT



# 3. SCIENTIFIC RECOMMENDATION

## 3.7 TIMING of REQUEST

### ATMP DRUG DEVELOPMENT



# CONCLUSION

## PROCEDURE PRINCIPALS (1)

- Optional procedure
- Systematic consultation with EC/ Optional consultation Notified Bodies (NB) or Working Parties (WP)
- Entry door
  - CAT Secretariat:  
[AdvancedTherapies @emea.europa.eu](mailto:AdvancedTherapies@emea.europa.eu)
  - ATMP Web Page:  
[http://www.emea.europa.eu/htms/human/advanced\\_therapies/intro.htm](http://www.emea.europa.eu/htms/human/advanced_therapies/intro.htm)
- Procedural Guideline & Templates (shortly)available on Web





# CONCLUSION

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## PROCEDURE PRINCIPALS (2)

### Discussion platforms :

- **EMA Innovation Task Force (ITF)**  
Briefing meetings with possible participation of CAT Members  
(informal discussion - Early dialogue to proactively identify scientific, legal and regulatory issues and to clarify regulatory options opened such as classification)
- Possible oral explanation in front of CAT at Day 31 of procedure (formal discussion)
- No fees
- Publication of Summaries of Recommendations



# Thank you for your attention



European Medicines Agency

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The screenshot shows the EMA website interface. The top navigation bar includes 'About Us', 'What's New', 'Human Medicines', 'Veterinary Medicines', 'Inspections', and 'General Reporting'. The main content area features several news articles, including 'EMA publishes report on supply shortage of radiopharmaceuticals' and 'EMA work programme 2009 published'. A sidebar on the right contains various categories like 'PRODUCT INFORMATION', 'MEDICINES FOR CHILDREN', and 'ADVANCED THERAPIES', which is circled in red. The bottom of the page includes a 'Latest Press Releases' section with a list of recent publications.

For general Classification requests and general queries on ATMPs / CAT:  
[AdvancedTherapies@emea.europa.eu](mailto:AdvancedTherapies@emea.europa.eu)

# ANY QUESTION ?

