



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

# EMA Adaptive licensing: a ~~tool~~ *concept* for accelerated access to innovative medicines?

---

Rob Hemmings, MHRA

Slides largely re-produced from a previous EMA presentations to (DIA, Paris; STAMP, Brussels).

Acknowledging Francesca Cerreta, the APDG and other EMA colleagues.



An agency of the European Union





# Contents

- What is adaptive licensing; what is adaptive pathways?
- The status quo
- The EMA pilot; experience to date



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

6 October 2011  
EMA/MB/550544/2011 Endorsed

## Implementing the European Medicines Agency's Road map to 2015: The Agency's contribution to Science, Medicines, Health

"From Vision to Reality"

### **Exploring the balance between early approval with limited data and later approval with more extensive data package**

Considering the merits and mechanics of an optional approach to early authorisation of medicines in a restricted population e.g. based on early information from good responders. Exploring the broader applicability of 'staggered' approvals and preparing guidance on the applicability of such approaches.



## Adaptive Licensing; (One) Definition

Adaptive Licensing can be defined as a prospectively planned, adaptive approach to bringing drugs to market. Starting from an authorised indication (most likely a “niche” indication) for a given drug, through iterative phases of evidence gathering and progressive licensing adaptations concerning both the authorised indication and the potential further therapeutic uses of the drug concerned, **AL seeks to maximize the positive impact of new drugs on public health by balancing timely access for patients with the need to provide adequate evolving information on benefits and harms.**



## Problem statement – regulatory context

One concern was to reduce the ‘big bang’ at the point of licensing; transitioning from clinical trials to use in clinical practice that was not well controlled and not well monitored. A **‘regulatory’** problem.

Where uncertainties exist, start in a small(er), well-defined group of patients to control use and monitor outcomes. Expand use in a stepwise manner based on real-world data in addition to further clinical trial work, i.e. ‘adaptive’ **licensing**

**More generally, is the available regulatory toolset fit for purpose? Does the potential of real world data change the licensing paradigm?**



## Problem statement – wider context

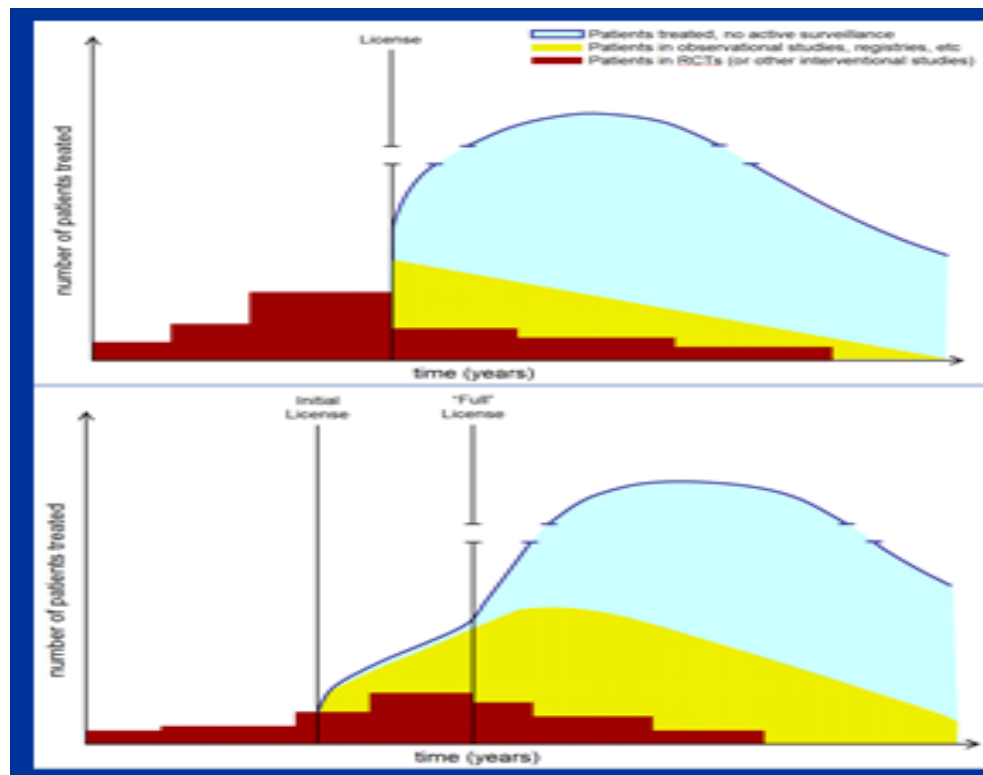
Post a (**centralised**) MA, the benefits in terms of patient access can only be realised **nationally**

Recognition that other stakeholders would need to be involved, for planning and implementation

No benefit to a 'regulator-only' advancement. A '**public health**' problem involving multiple parties i.e. '**Medicines Adaptive Pathways to Patients (MAPPs)**' or **Adaptive Pathways**.



# Problem statement – a way to handle increased uncertainty?



## Current scenario:

Post-licensing, treatment population grows rapidly; treatment experience does not contribute to evidence generation

## Adaptive Licensing:

after initial license, number of treated patients grows more slowly, due to restrictions; patient experience is captured to contribute to real-world information

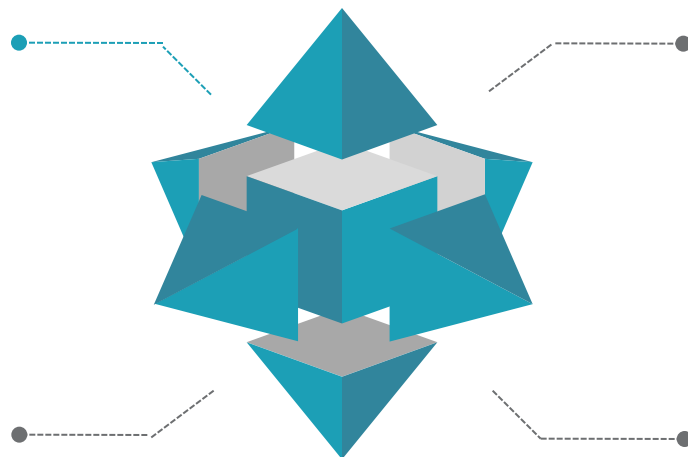
# Early access tools: Overview

## PRIME

Major public health interest, unmet medical need.  
Dedicated and reinforced support.  
Enable accelerated assessment.  
Better use of existing regulatory & procedural tools.

## Accelerated Assessment

Major public health interest, unmet medical need.  
Reduce assessment time to 150 days.



## Adaptive Pathways

**Scientific concept of development and data generation.**

**Iterative development with use of real-life data.**

**Engagement with other healthcare-decision makers.**

## Conditional MA

Unmet medical need, seriously debilitating or life-threatening disease, a rare disease or use in emergency situations.

Early approval of a medicine on the basis of less complete clinical data.





## Status Quo

Regulation permits:

- Initial Marketing Authorisation and subsequent variations
- Conditional Marketing Authorisation
- Post-authorisation studies, including observational research
- Scientific Advice (including patient representatives)
- Parallel Scientific Advice with Health Technology Appraisal



## CHMP Scientific Advice

Voluntary, chargeable. Run by Scientific Advice Working Party o.b.o CHMP (EMA)

SAWP – chair, 29 members plus alternates ('co-ordinators') plus national experts. EMA scientific and administrative secretariat. Extensive, well-established machinery.

Quality, Non-clinical, Clinical (all therapeutic areas ), Stats, PK etc.

'Joint members'; CHMP, COMP, PDCO, CAT and PRAC. Some patient reps.

## What changes?

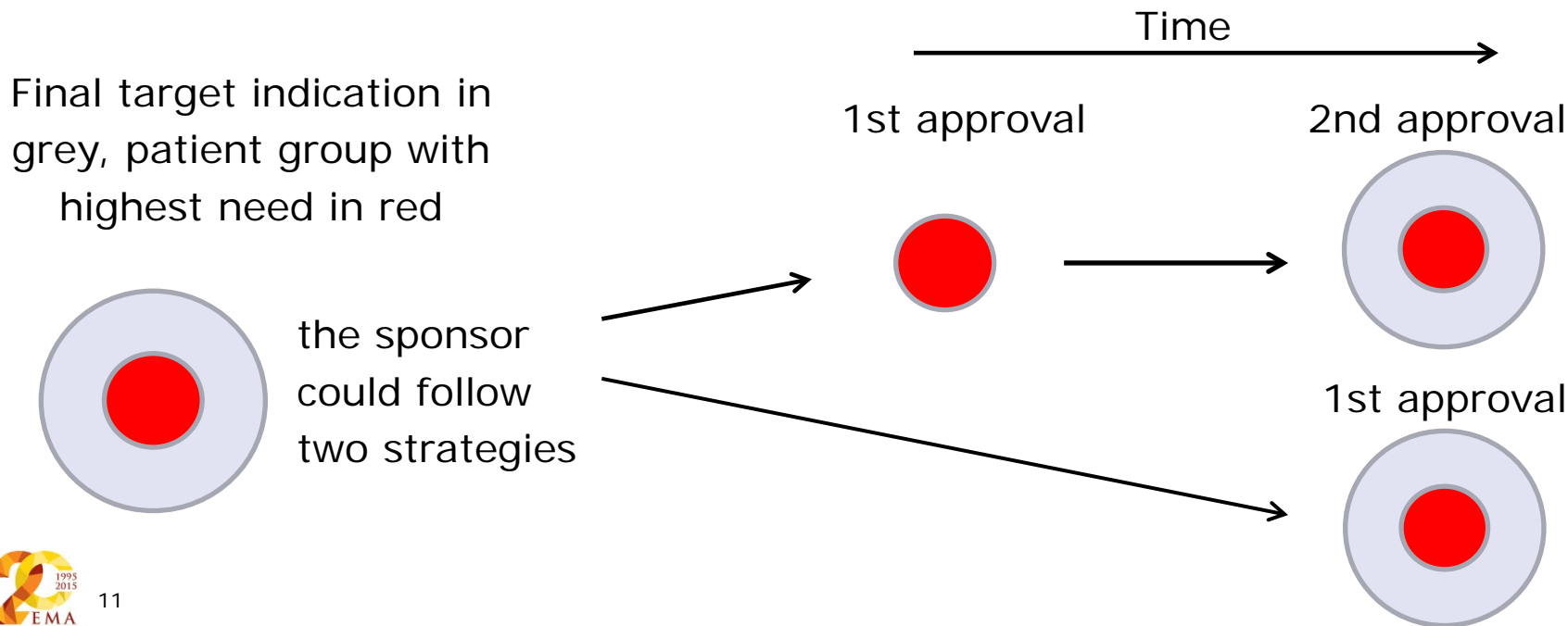
AL uses **existing** regulatory tools and processes - e.g. 'Cond' MA. Demonstration of positive Benefit/Risk is – as usual - required for approval. **AL is not a new type of MA, or a designation for medicines of particular potential public health impact.**

The novel aspects of an adaptive licensing from the perspective of the regulator relate to increased dialogue with downstream stakeholders and increased collection and utilisation of (real world) post-authorisation data.

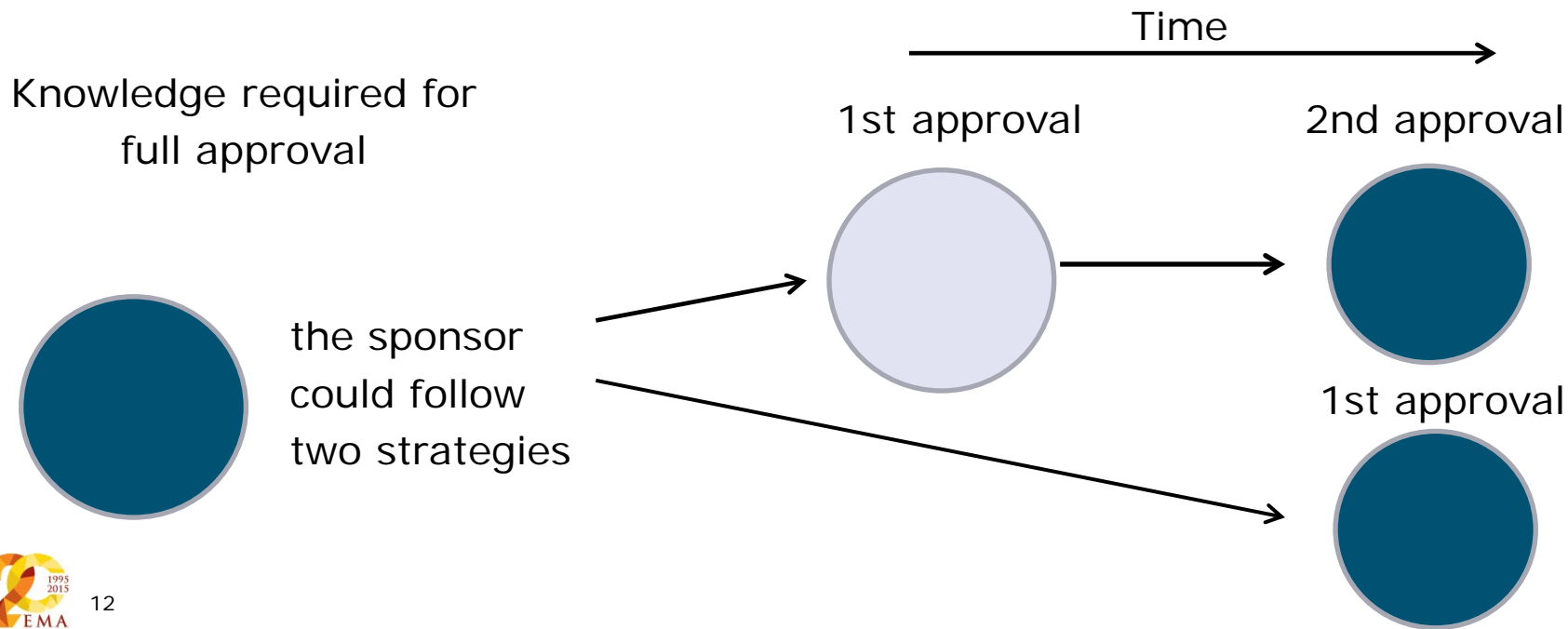
Early access = greater uncertainty or smaller target population

**How can different stakeholders address the uncertainty?**

# Adaptive pathways concept ("expansion of the indication")



# Adaptive pathways concept ("conditional approval")



## The EMA pilot; experience to date

Support the definition of pathway of product development and (potential) earlier access to medicines through early dialogue involving all stakeholders (regulators, HTAs, payers, patients...).

### Criteria for candidate selection

1. An **iterative** development plan (start in a well-defined subpopulation and **expand**, or have a Conditional Marketing Authorisation, maybe surrogate endpoints and **confirm**), **or both**.
2. **Real World Data** (safety and efficacy) can be acquired to supplement Clinical Trials
3. Input of all **stakeholders**, particularly HTAs, is fundamental

**Unmet medical need** is an important feature that allows full use of regulatory tools



## The EMA pilot; experience to date

### **Safe-harbour discussions:**

Why? To promote free-thinking and open dialogue at a concept level.

*“Discussions will take place in a ‘safe harbour’ environment that will enable all participants to freely explore different pathways and solutions without fear of early commitments.”*

Can act as a ‘pre-submission’ for a formal procedure, alternatively go direct to a formal procedure!

## Initial experience

- 59 products submitted as candidates
- 20 selected for in-depth discussion with company (Stage I)
  - 4 SMEs
  - 5 are Orphan drugs
  - 4 are ATMP (Advanced Therapy Medicinal Products)
  - 5 Anticancer
- 15 Stage I discussions have taken place
- 11 proposals selected for Stage II (in-depth meeting after Stage I) (1 ATMP, 5 Orphan, 3 SME; 3 anticancer)





## Iterations in AP applications

Some proposals included both expansion of the indication and confirmation after CMA.

- Expansion of indication (to either less severe patients or other indications): 15/19
- Specified CMA route: 11/19 (maybe more)
- Early/surrogate endpoints proposed: 11/19



## RWE examples in AP applications (1)

- Use of existing disease registries to identify natural history of the disease, current SoC, resource utilisation, adherence to treatment;
- Single arm studies for rare diseases compared with outcomes inferred from disease registries;
- Open label salvage studies in patients with no therapeutic options remaining, with the purpose of obtaining an expansion of the indication;
- Collection of efficacy and safety data from early access/compassionate use programs to supplement RCTs in small populations;
- **Post-authorisation drug registries for effectiveness, long-term outcomes, drug utilisation, PROs, time to treatment failure, diagnosis confirmation;**



## RWE examples in AP applications (2)

- Linking drug registries to risk-sharing schemes for reimbursement (pay per performance, annuity payments...)
- **Expansion of the indication based on a mixture of disease registries and compassionate use data (for rare, severe diseases, where RCT data were available for less severe forms of the disease);**
- Post authorisation studies to investigate biomarker (or other subpopulation selection criterion) status of an all-comer population;
- Investigation of non-serological outcomes for vaccines.



## Who participated?

Involved in at least one procedure were HTAs from:

UK, NL, SE, DE, IT, FR, AT, NO, FI

EUNetHTA as observer

Other bodies have been involved for vaccines.

Payers participated in one case to provide high-level comments on risk sharing plan.

## What are we learning?

**Companies provided generally a sketchy elaboration of value proposition (early stage? Risk aversion?). SMEs so far have been more creative.**

Recognised divide in perception of risk from medical/market access division of companies (Questionnaire in ADAPT SMART)

Resource intensive procedure: felt particularly by HTAs.  
Challenge to bring right stakeholders with right expertise into the discussion

As compared to parallel SA/HTA, payers input is missed (acceptability of reduced package)

Procedures that progressed to parallel SA/HTA had more detailed discussion.

## ATMP issues

CMC evolves continuously, pre and post-authorisation.

2 selected products wanted to discuss CMC, and both were ATMPs

Upscaling as a paradigm for adaptive licensing. Comparability considerations with manufacturing changes/extension to further sites.

Potential adaptive proposals:

- 1) initially license small scale production, scale up later
- 2) aim for restricted use in centres of excellence from the outset.
  - License initially for production and use in one centre.
  - Submit a variation to scale up after licensing when the investment is safer

Dedicated quality discussion are possible within AP, involving CAT and BWP

## The pilot continues

Well developed proposals sought in terms of iteration, RWD use and HTA / payer involvement.

Need better developed proposals to really test the concept.

- What questions can be answered by which RWD sources using which trial designs?
- Different 'models' for appraisal and re-imburement.
- 'What if' scenarios would be usefully discussed.

Prepare for (or go direct to!) formal procedures

2<sup>nd</sup> interim report under development



## Conclusions

AP thinking tests how to use the tools and flexibilities optimally, with agreement of multiple stakeholders.

Current regulatory framework enables a flexible approach.

Some useful discussions, but more detailed proposals are required to fully examine the concept.