

White Paper

**Drug
Development
2022**



5 Must-Knows About Paediatric Investigation Plan in the EU



Introduction

A **Paediatric Investigation Plan (PIP)** or **Pediatric Study Plan (PSP)** is a development plan intended to support the authorization of a medicine for children by ensuring data are obtained through studies in the paediatric population during clinical trials.

In Europe, PIPs are described in Regulation (EC) No 1902/2006 which came into force in the EU on 26 January 2007. This paediatric regulation put in place the PIP to be agreed upon by a new expert committee (the EMA Paediatric Committee [PDCO]); it also regulates a system of obligations and rewards and different transparency/information measures. The objectives are to improve and better protect the health of children with high-quality & ethical research, increasing availability of appropriately authorized medicines for children specific information on the use of medicines in the paediatric population.

Why do we need an EU PIP?

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— The EU paediatric regulation (1901/2006 and 1902/2006): A system of obligations and rewards



For:

- New medicines, or
- Medicines already authorised:
 - Covered by intellectual property rights (patent) if is added:
 - ✓ New indication
 - ✓ New pharmaceutical form
 - ✓ New route of administration
- Not covered by intellectual property rights and exclusively developed for use in children (PUMA)

Need an agreed PIP, Waiver, Deferral (PDCO opinion + EMA decision)

EMA decisions are made public

PIP Compliance Check vs. EMA PIP decision (studies/ measures and timelines)

The outcome is made public



A full compliance check will lead to a reward (all studies completed with results in the label)

MAA submission validated only if:

- Results of paediatric studies per agreed PIP (CSR), and/or,
- EMA decision for waiver and/or deferral

Product to be placed on the market with the paediatric indication within 2 years

New medicine or on-patent authorised medicine

+ 6-month extension to the SPC (patent) (SPC extension application should be done latest 2 years prior to SPC expiry date)

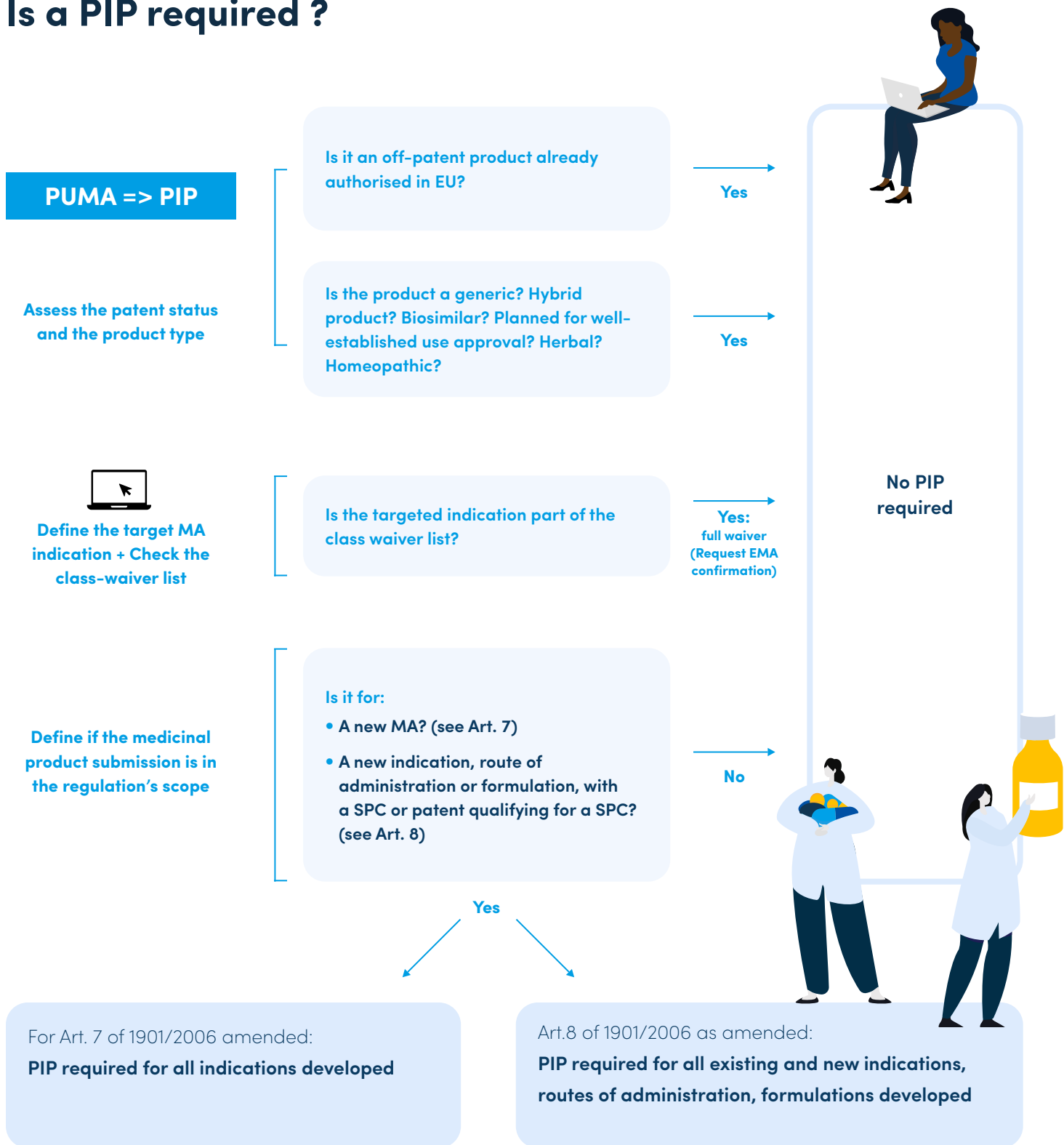
Orphan medicine

+ 2 additional years of market exclusivity (in addition to the 10 years)

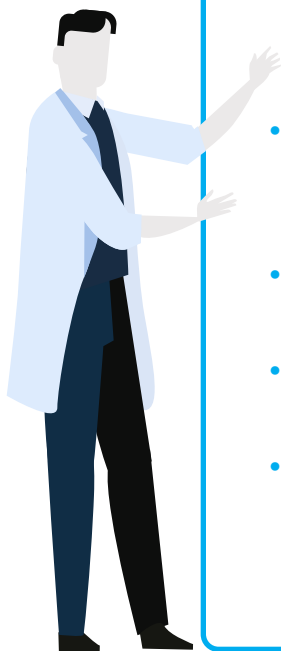
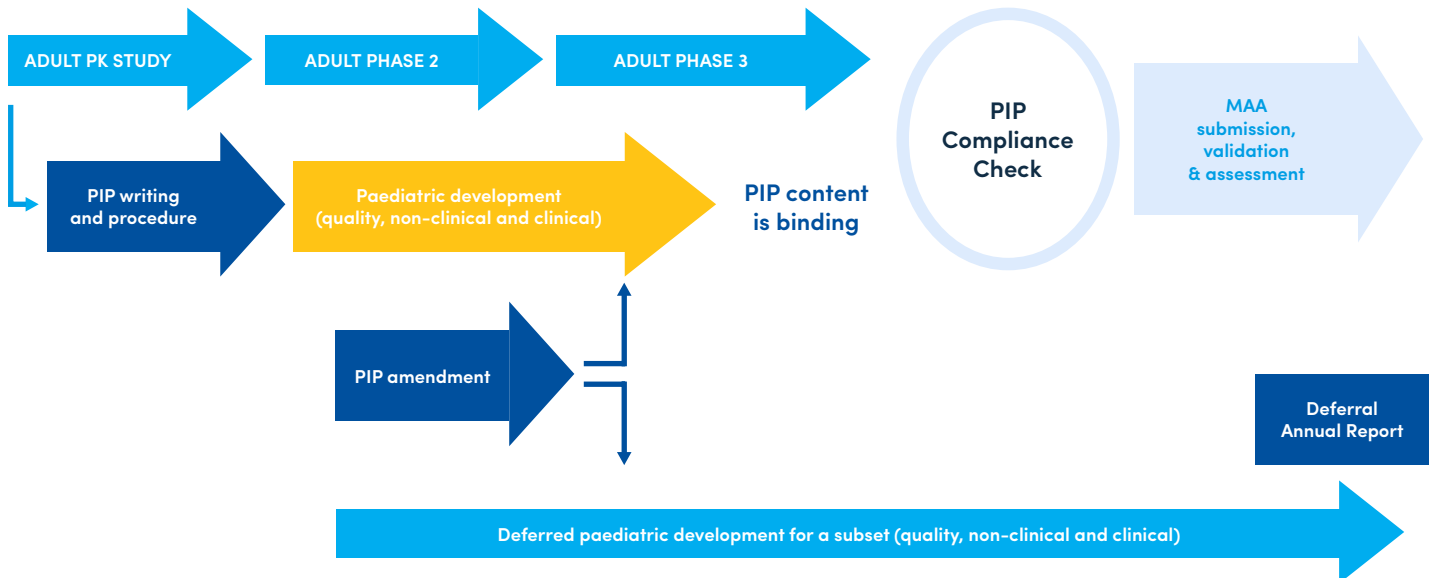
PUMA

10-year market protection (including 8 years of data exclusivity)

Is a PIP required ?



Planning for the PIP procedure

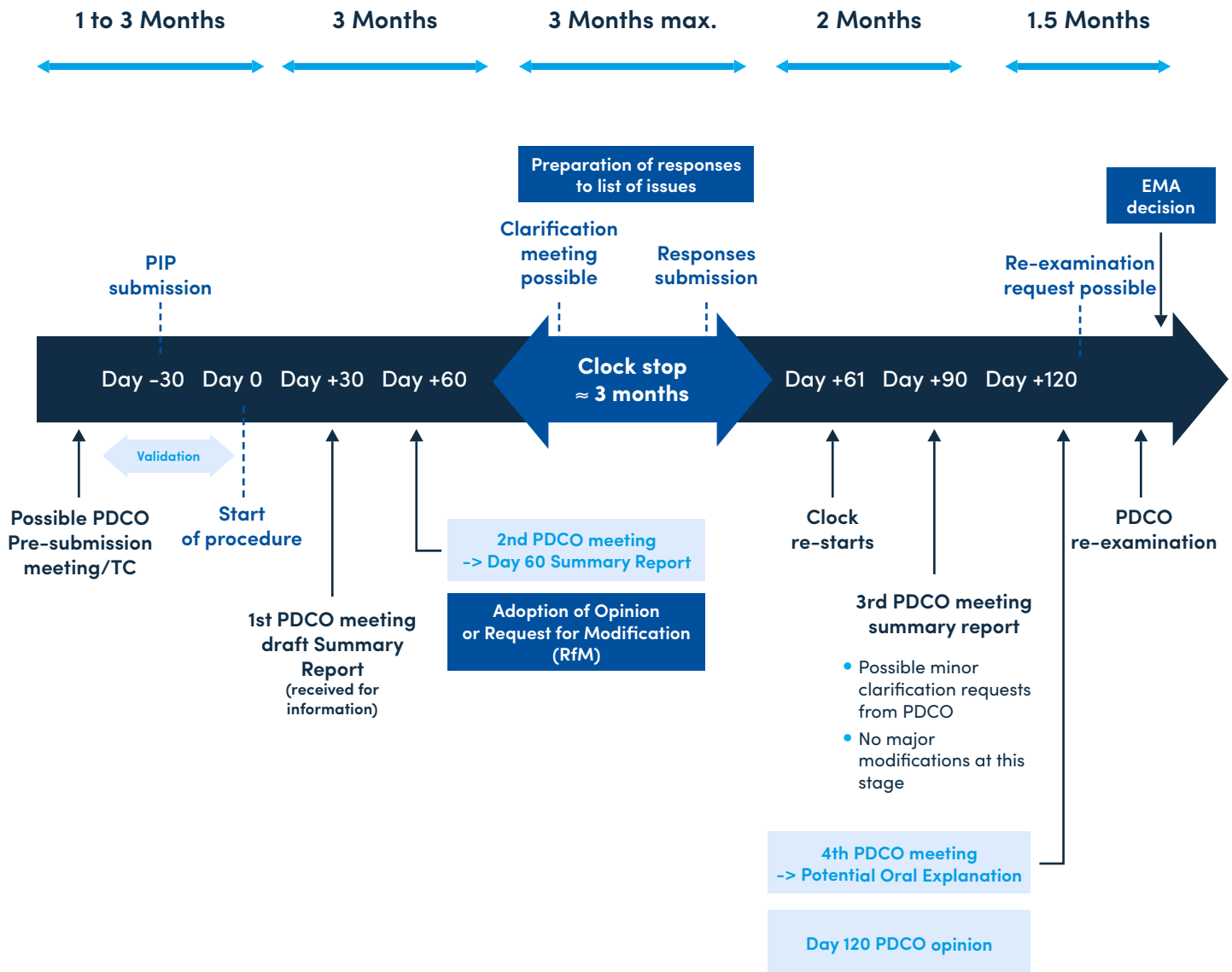


- PIP submission required not later than upon completion of adult PK studies -> justification required if the PIP submission is late
- Plan 3-6 months for the PIP writing + 1 year for the PIP procedure
- Pre-submission meeting possible (regulatory and administrative)
- PDCO re-examination possible after Day 120 upon request

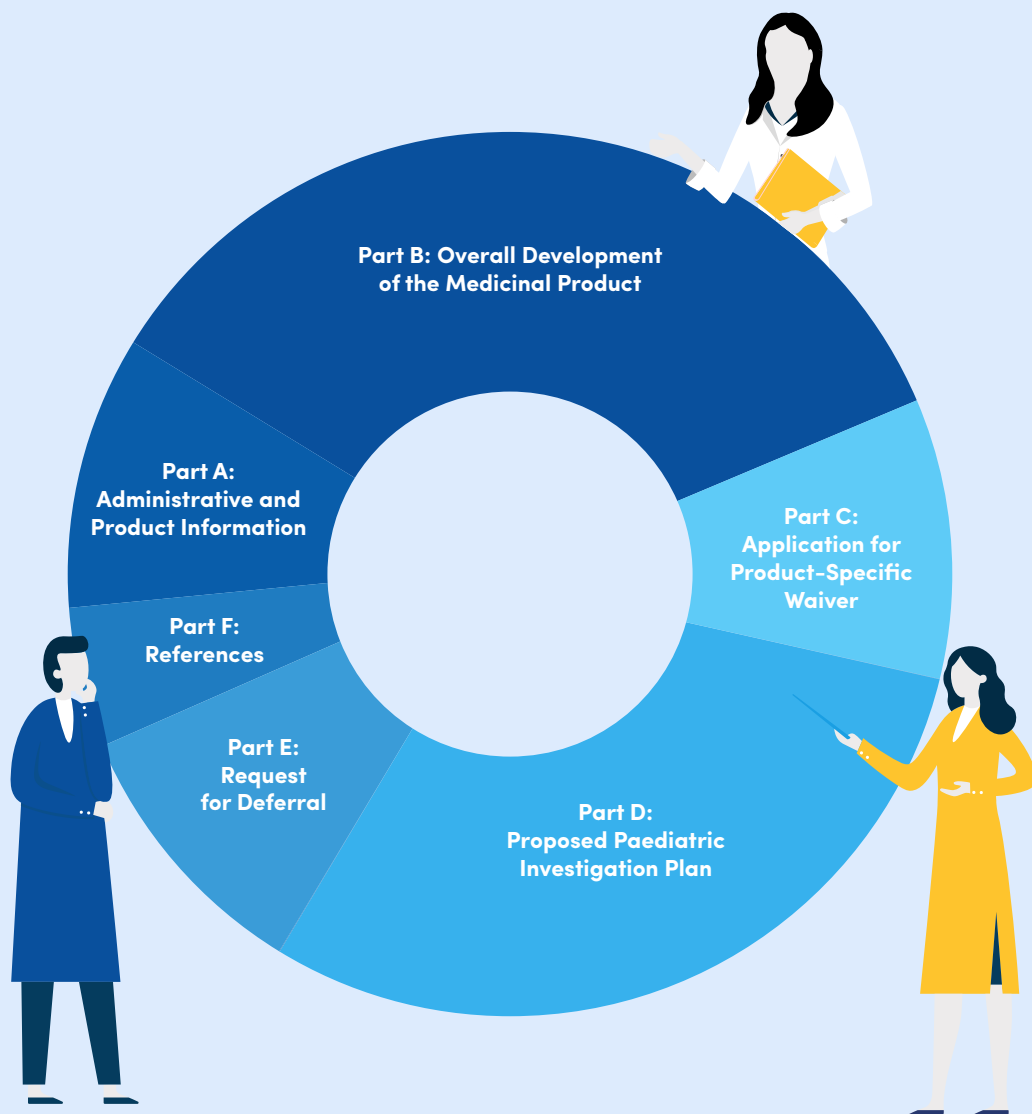


Overview of the PIP procedure 9 months to 1 year

Free of charge



Content of the PIP Application



Part A: Administrative and Product Information

- **Electronic application form**
- **Key Elements Form**
Summarises the planned paediatric development

Parts B to F: Scientific Document

- **Development plan**
- **Waiver application**
- **Deferral request**

Conclusion

Some additional Tips

Make sure the PIP content is aligned with the implemented paediatric development:

- Submit draft synopsis in early development
- But amend the PIP with the final synopsis during development before starting paediatric studies

Perform regular internal PIP compliance checks during development:

- Has the targeted indication been modified ?
- Are studies starting as planned ?
- Are study reports available as planned ?

Our consultants can advise whether a deferral or waiver may be appropriate and can provide a complete PIP writing service as well as any PIP modifications through the product lifecycle within the EU or US (especially during the development process).

Here is the Methodology Summary:

Regulatory Strategy - Is a PIP required? If so, you will need to

- Plan the reward strategy
- Plan the PIP procedure
- Define the PIP condition (indication, mechanism of action, paediatric needs, MedDRA)
- Define whether the PIP should include a paediatric development, a waiver, and/or a deferral (Assess competitors, epidemiology, existing treatments, advise on development plan)
- Prepare Part A of the PIP application

Writing the Paediatric Scientific Document:

- Complete the Application Summary, outlining the overall approach in paediatrics
- Complete part B with similarities and differences between adult's vs paediatrics and between paediatric subsets, and identification of a therapeutic benefit/need
- Complete part C for full/partial waiver
- Complete part D for paediatric development (Quality, non-clinical and clinical measures)
- Complete part E for deferral requests (to be justified)
- Compile part F with References/Annexes

Any questions? Contact-us!

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