# Pharmaceutical Research Summary: ibuprofen

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Search Sources: EMA EPAR, EMA-PSBG, FDA Approvals, FDA-PSBG

## **Research Results**

# ibuprofen - Regulatory Dossier

## ## EPAR (EMA)

- [Pedea: EPAR Scientific Discussion](https://www.ema.europa.eu/en/documents/scientific-discussion/pedea-epar-scientific-discussion\_en.pdf) Centralised authorisation for "Pedea" (ibuprofen), initial approval 2004-07-29
- Key points: Indicated for closure of patent ductus arteriosus in premature neonates; administered intravenously; marketing authorisation holder is Chiesi Farmaceutici S.p.A.

#### ## EMA-PSBG

• Result: No product-specific bioequivalence guidance found for ibuprofen

## ## FDA Approvals

- 1. NDA 017463 (Motrin) approval date (1974-09-19)
- Dosage form/strength: Oral tablets, prescription only (initially)
- Review path: Standard
- Key letters:
- [Approval

Letter](https://www.accessdata.fda.gov/drugsatfda\_docs/nda/pre96/017463Orig1s000rev.pdf)

- 2. NDA 022348 (Caldolor) approval date (2009-06-11)
- Dosage form/strength: Intravenous injection, 100 mg/mL
- Review path: Standard
- Key letters:
- [Approval

Letter](https://www.accessdata.fda.gov/drugsatfda\_docs/appletter/2009/022348s000ltr.pdf)

#### ## FDA Review Package

- Clinical Pharmacology Biopharmaceutics Review(s):
- [NDA 022348 Clinical Pharmacology & Biopharmaceutics

Review](https://www.accessdata.fda.gov/drugsatfda\_docs/nda/2009/022348s000\_ClinPharmR.pdf) – 2009-06-11

### ## FDA-PSBG

- Result: Guidance found
- Example guidances for ibuprofen (tablet, injection, etc.):
- 1. [Ibuprofen Tablets: Guidance for Industry](https://www.fda.gov/media/70330/download) 2010-07

2. [Ibuprofen Injection: Guidance for Industry](https://www.fda.gov/media/133970/download) – 2019-12

#### ## Clinical Trials

#### ## Summary of Key Regulatory Information

- First EMA approval: 2004-07-29 (for "Pedea" IV formulation)
- First FDA approval: 1974-09-19 (Motrin, NDA 017463)
- Current EMA status: authorisedCurrent FDA status: approved
- Orphan designations: None for oral ibuprofen; Pedea (IV) is authorised for neonates but not orphan designated
- Safety/risk-management highlights: Standard monitoring for GI bleeding, cardiovascular risk, and renal function

#### ## Source URLs

- https://www.ema.europa.eu/en/medicines/human/EPAR/pedea
- https://www.ema.europa.eu/en/human-regulatory-overview/research-and-development/scientific-guidelines/clinical-pharmacology-pharmacokinetics/product-specific-bioequivalence-guidance
- https://www.accessdata.fda.gov/scripts/cder/daf/
- https://www.accessdata.fda.gov/scripts/cder/psg/index.cfm
- https://www.accessdata.fda.gov/drugsatfda\_docs/nda/2009/022348s000\_ClinPharmR.pdf
- https://www.fda.gov/media/70330/download
- https://www.fda.gov/media/133970/download
- https://www.accessdata.fda.gov/drugsatfda\_docs/appletter/2009/022348s000ltr.pdf
- https://www.accessdata.fda.gov/drugsatfda\_docs/nda/pre96/017463Orig1s000rev.pdf