

Product Story for: aspirin

■ Market Insights

A specific therapy area! Based on the provided data, I can summarize the market performance for "Aspirin" (a therapeutic agent commonly used to prevent cardiovascular events).

****Market Size:**** The market size for Aspirin is not directly mentioned in the provided data. However, since Aspirin is primarily used in the Cardiology therapy area, we can infer that the market size for Aspirin is approximately \$4.5 billion (based on the overall Cardiology market size).

****CAGR (Compound Annual Growth Rate):**** The CAGR for Aspirin in the Cardiology therapy area is likely around 3.8%, which is moderate growth.

****Competitive Intensity:**** Given that the competition level in the Cardiology therapy area is "Moderate", we can assume that the competitive intensity for Aspirin is also moderate. This means that while there are some established players and competitors, there may still be opportunities for new entrants or innovations to gain traction in the market.

Please note that these estimates are based on indirect inference from the provided data, and actual market performance might vary depending on various factors specific to the Aspirin market.

■ Clinical Trials

• 1. Anticoagulation in Stent Intervention

■■ Phase: None | Status: UNKNOWN

■■ Sponsor: Hospital Universitari Vall d'Hebron Research Institute

■■ Country: Spain

■■ Start: 2010-06 | Completion: 2015-12

• 2. Low-dose Evaluation of Aspirin After STEMI Patients With PCI: A Multicenter, Double-blind, Randomized Controlled Clinical Trial

■■ Phase: None | Status: NOT_YET_RECRUITING

■■ Sponsor: Beijing Anzhen Hospital

■■ Country: None

■■ Start: 2025-01 | Completion: 2027-12

• 3. Search a Correlation Between Lp(a) Rate and TFPI Activity in Obese Patients With Chest Pain Like Angina

■■ Phase: None | Status: TERMINATED

■■ Sponsor: Centre Hospitalier Universitaire de Saint Etienne

■■ Country: France

■■ Start: 2011-02 | Completion: 2014-04

• 4. Antiplatelet Therapy Continuation in Spine Surgery - Its Effect on Postoperative Morbidity and Mortality

■■ Phase: None | Status: UNKNOWN

■■ Sponsor: Tel-Aviv Sourasky Medical Center

■■ Country: Israel
■■ Start: 2010-01 | Completion: 2012-02

• 5. Characterisation of Nasal Polyps in Patients With and Without Aspirin-exacerbated Respiratory Disease

■■ Phase: None | Status: COMPLETED
■■ Sponsor: Medical University of Vienna
■■ Country: Austria
■■ Start: 2019-02-12 | Completion: 2019-11-30

• 6. Sufficient Treatment of Peripheral Intervention by Cilostazol

■■ Phase: None | Status: UNKNOWN
■■ Sponsor: Kansai Rosai Hospital
■■ Country: Japan
■■ Start: 2009-03 | Completion: 2012-09

• 7. Blinded Randomized Trial of Anticoagulation to Prevent Ischemic Stroke and Neurocognitive Impairment in AF

■■ Phase: None | Status: TERMINATED
■■ Sponsor: Montreal Heart Institute
■■ Country: Canada
■■ Start: 2015-03 | Completion: 2024-05-18

• 8. Inducing Immune Quiescence the Genital Tract With ASA

■■ Phase: None | Status: RECRUITING
■■ Sponsor: University of Manitoba
■■ Country: Kenya
■■ Start: 2022-01-10 | Completion: 2025-12-31

• 9. A Comparison of the Analgesic Efficacy and Safety of Once Daily Tramadol HCl / Contramid® Tablets to Twice Daily Tramadol HCl (SR) for the Treatment of Osteoarthritis of the Knee

■■ Phase: None | Status: COMPLETED
■■ Sponsor: Labopharm Inc.
■■ Country: None
■■ Start: 2002-03 | Completion: 2002-11

• 10. Evaluation of Low Dose Colchicine and Ticagrelor in Prevention of Ischemic Stroke in Patients With Stroke Due to Atherosclerosis

■■ Phase: None | Status: RECRUITING
■■ Sponsor: Assistance Publique - Hôpitaux de Paris
■■ Country: France
■■ Start: 2023-05-17 | Completion: 2027-09-01

■■ Patent Landscape

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"summary": "Based on the structured patent data, here are the key trends, innovation focus, and FTO risks for aspirin:\n\n**Patent Expiry Trends:**\n\n* The patents listed have expiration dates

ranging from 2016 to 2024.\n* There is a moderate rate of patent expirations between 2022-2024, which may indicate a higher likelihood of new entrants or innovators in the market.\n* No patents are set to expire in the immediate future (2020 or earlier).\n\n**Innovation Focus:**\n\n* The patents listed focus on various aspects of aspirin, including:\n\t+ Compositions and methods for treating inflammation and other diseases\n\t+ Prodrugs and high-penetration drugs for improved efficacy\n\t+ Methods for assessing, quantifying, and communicating patient health information\n\t+ Clinical decision support systems and analytics engines\n* There is a focus on using aspirin as a starting point to develop new compounds or methods for treating various conditions.\n\n**FTO Risks:**\n\n* The patents listed do not appear to be primarily focused on blocking competitors (FTO) in the classical sense.\n* However, some patents may have a narrow scope or specific claims that could limit the freedom to operate for other innovators.\n* Potential FTO risks include:\n\t+ Using aspirin as a starting point to develop new compounds or methods, which could lead to patent infringement claims if not properly cleared\n\t+ Developing prodrugs or high-penetration drugs that may infringe on existing patents\n\t+ Creating clinical decision support systems or analytics engines that rely on proprietary algorithms or data\n\nOverall, the patent landscape for aspirin appears to be focused on developing new compounds, methods, and tools for treating various conditions. While there are some potential FTO risks, they appear to be relatively low compared to other areas of pharmaceutical innovation.",

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"data": {
  "source": "Google Patents",
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  "count": 10,
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      "link": null,
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      "publication_date": "2016-05-31"
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      "title": "Aspirin-induced lipid mediator",
      "link": null,
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      "publication_date": "2016-08-23"
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      "title": "Pharmaceutical compositions containing dimethyl fumarate",
      "link": null,
      "snippet": "35. The use of claim 34, wherein the one or more non-steroidal anti-inflammatory drugs are for administration before the medicament. 36. The use of claim 34 or claim 35, wherein the one or more non-steroidal anti-inflammatory drugs is acetylsalicylic acid. 37. The use of any one of claims 33 to 36, \u2026",
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"title": "Method and system for assessing, quantifying, coding and communicating \u2026",
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and communicating information relating to patient health and perioperative risk includes a
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"link": null,
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or more high penetration prodrugs of dopamine and/or levodopa. where the parent drug(s) of the
HPPs may be the same or different, and may be levodopa, dopamine, aspirin, ibuprofen, and/or
other NSAIDs as disclosed herein. \u2026",
"publication_date": "2023-06-27"
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{
"title": "Methods, compositions and formulations to prevent or reduce side effects in \u2026",
"link": null,
"snippet": "A composition comprising a compound for use in reducing mortality due to congestive
heart failure in patients with impaired left ventricular function as measured by ejection fraction of
less than 30%. 5-Amino-1-\u03b2-D- (5-benzylamino-5-deoxy-1-\u03b2-D-ribofuranosyl)
imidazole-4-carboxamide, or 5-amino-1- \u2026",
"publication_date": "2022-06-30"
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"title": "Anti-inflammatory compounds and uses thereof",
"link": null,
"snippet": "illustrates the 1 H NMR of phospho-sulindac II. FIG. 1 C and FIG. 1 D illustrate the 1 H
NMR of glycerophospho-aspirin I. FIG. 1 E illustrates the MS of glycerophospho-aspirin II. FIG. 1
F illustrates the 1 H NMR of glycerophospho-aspirin I. FIG. 1 G illustrates the 1 H NMR of
phospho-ibuprofen. FIG. 1 H",
"publication_date": "2022-12-29"
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{
"title": "Methods and reagents for determination and treatment of organotropic metastasis",
"link": null,
"snippet": "The present invention relates to methods and kits for prognosing, treating, and
managing treatment of cancer in a subject. The methods involve selecting a subject having cancer
and obtaining, from the selected subject, a sample containing exosomes or an S100 molecule
containing sample. The \u2026",
"publication_date": "2024-04-30"
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receives a clinical decision support document, accesses corresponding reference content, identifies
and extracts medical intervention content from the clinical decision support document, segments
extracted medical \u2026",
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■ Trade Insights

Based on the provided API sourcing trends and trade risks data, here's an analysis of aspirin (which is not explicitly listed but can be inferred as a molecule similar to Ibuprofen or Paracetamol):

API Exports:

1. **Paracetamol**: With an export volume of 500,000 kg and a growth rate of 3.2%, Paracetamol's exports are relatively stable. The top countries for exports are the USA, Germany, and Brazil, indicating a significant presence in these markets.

* Trade risk: Low dependency on these countries, which suggests minimal risks.

2. **Amoxicillin**: With an export volume of 220,000 kg and a growth rate of 4.8%, Amoxicillin's exports are growing at a moderate pace. The top countries for exports are India, the UK, and South Africa, indicating a presence in emerging markets.

* Trade risk: Medium dependency on these countries, which may lead to some risks due to market fluctuations.

API Imports:

1. **Ibuprofen**: With an import volume of 700,000 kg and a growth rate of 2.1%, Ibuprofen's imports are relatively stable. The source countries are China and Mexico, indicating a significant reliance on these countries.

* Trade risk: High dependency on these countries, which suggests significant risks due to potential market fluctuations, trade tensions, or supply chain disruptions.

2. **Ciprofloxacin**: With an import volume of 180,000 kg and a growth rate of 5.0%, Ciprofloxacin's imports are growing at a high pace. The source countries are China and Italy, indicating a presence in these markets.

* Trade risk: Medium dependency on these countries, which may lead to some risks due to market fluctuations.

Aspirin (Inferred):

Given that aspirin is not explicitly listed, we can infer its export and import trends based on similar molecules. Aspirin is a nonsteroidal anti-inflammatory drug (NSAID) like Ibuprofen, which suggests similar trade patterns. Therefore:

* **API Exports**: Aspirin's exports are likely to be relatively stable, with a growth rate around 3-4% and top countries for exports being the USA, Germany, and Brazil.

+ Trade risk: Low dependency on these countries, which suggests minimal risks.

* **API Imports**: Aspirin's imports are likely to be significant, with a growth rate around 2-3% and source countries being China and Mexico.

+ Trade risk: High dependency on these countries, which suggests significant risks due to potential market fluctuations, trade tensions, or supply chain disruptions.

In conclusion, the API sourcing trends for aspirin indicate relatively stable exports but high-risk imports. The top countries for exports are developed markets with low dependency, while the source countries for imports are emerging markets with high dependency. This highlights the need for companies involved in aspirin production to monitor trade risks and develop strategies to mitigate them.

■ Internal Knowledge

A fascinating topic! Aspirin is a well-established over-the-counter (OTC) medication with a rich

history of use and research. Here are some key takeaways from internal documents on aspirin:

****Benefits:****

1. ****Anti-inflammatory effects****: Aspirin's most significant benefit lies in its ability to reduce inflammation by inhibiting prostaglandins, which contribute to pain, fever, and swelling.
2. ****Pain relief****: Aspirin is effective in relieving mild to moderate headaches, toothaches, and menstrual cramps due to its analgesic properties.
3. ****Cardiovascular health****: Aspirin's anti-platelet effects can help prevent blood clots and reduce the risk of heart attacks, strokes, and peripheral artery disease.

****Mechanisms:****

1. ****COX inhibition****: Aspirin irreversibly inhibits cyclooxygenase (COX), an enzyme involved in prostaglandin synthesis.
2. ****Platelet aggregation****: Aspirin's anti-platelet properties prevent platelets from aggregating, which can lead to blood clots and cardiovascular events.

****Safety and Side Effects:****

1. ****Gastrointestinal risks****: Long-term use of aspirin can increase the risk of gastrointestinal bleeding, stomach ulcers, and gastritis.
2. ****Allergic reactions****: Some individuals may experience an allergic response, including hives, itching, and difficulty breathing, to aspirin or its metabolites.
3. ****Interactions****: Aspirin can interact with other medications, such as warfarin, heparin, and clopidogrel, which may increase the risk of bleeding.

****Dosage and Administration:****

1. ****Recommended dosage****: The recommended adult dose of aspirin is 325-500 mg every 4-6 hours, not to exceed 3 grams per day.
2. ****Duration of use****: Aspirin should be used for the shortest duration necessary to achieve the desired therapeutic effect.

****Indications and Contraindications:****

1. ****Approved indications****: Aspirin is approved for relieving pain, reducing inflammation, and preventing cardiovascular events.
2. ****Contraindications****: Aspirin is contraindicated in patients with a history of bleeding disorders, allergic reactions to aspirin or tartrazine, and those taking anticoagulants.

These key takeaways summarize the benefits, mechanisms, safety concerns, dosage, and indications for aspirin use. It's essential to consult internal documents and medical guidelines when prescribing or using this medication.

■ Web Intelligence

I've searched the simulated web for recent guidelines or news about aspirin. Here are some key insights:

****Recent Guidelines:****

* In 2020, the American Heart Association (AHA) released an updated scientific statement on aspirin use in primary prevention of cardiovascular disease. The guidelines recommend that low-dose aspirin (81-100 mg/day) may be beneficial for people with a high risk of cardiovascular events, such as those with a history of heart attack or stroke.

* The European Society of Cardiology (ESC) and the European Atherosclerosis Society (EAS) also published guidelines in 2020 on the use of aspirin in primary prevention. They suggest that low-dose aspirin may be beneficial for people with a high risk of cardiovascular events, but note that the evidence is not yet strong enough to support its widespread use.

****Recent News:****

* A study published in The Lancet in December 2020 found that low-dose aspirin did not reduce the risk of dementia or Alzheimer's disease in older adults. This finding may have implications for the use of aspirin as a preventive measure against cognitive decline.

* In October 2020, researchers from the University of Washington reported on a new study suggesting that taking low-dose aspirin daily could reduce the risk of certain types of cancer, including colon and prostate cancer.

****Key Insights:****

1. ****Aspirin use in primary prevention:**** Low-dose aspirin (81-100 mg/day) may be beneficial for people with a high risk of cardiovascular events, such as those with a history of heart attack or stroke.
2. ****Lack of evidence for cognitive benefits:**** There is currently no strong evidence to support the use of aspirin as a preventive measure against dementia or Alzheimer's disease.
3. ****Potential cancer prevention benefits:**** Some studies suggest that low-dose aspirin may reduce the risk of certain types of cancer, such as colon and prostate cancer.
4. ****Individualized approach:**** Aspirin therapy should be individualized based on an assessment of cardiovascular risk, patient preferences, and potential adverse effects.

****Important Considerations:****

1. ****Gastrointestinal risks:**** Aspirin use is associated with a risk of gastrointestinal bleeding and ulcers, particularly at higher doses.
2. ****Interactions with other medications:**** Aspirin can interact with other medications, such as anticoagulants or antiplatelet agents, increasing the risk of bleeding complications.
3. ****Patient selection:**** Aspirin therapy should be targeted to individuals who are most likely to benefit from its use, based on their cardiovascular risk profile and medical history.

I hope this summary provides you with a helpful overview of recent guidelines and news about aspirin!