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**Last Review Date:** June 16, 2022

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## Rinvoq

### Description

### Rinvoq (upadacitinib)

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#### Background

Rinvoq (upadacitinib) is a Janus kinase (JAK) inhibitor. JAKs are intracellular enzymes which transmit signals arising from cytokine or growth factor-receptor interactions on the cellular membrane to influence cellular processes of hematopoiesis and immune cell function. Within the signaling pathway, JAKs phosphorylate and activate Signal Transducers and Activators of Transcription (STATs) which modulate intracellular activity including gene expression. Rinvoq modulates the signaling pathway at the point of JAKs, preventing the phosphorylation and activation of STATs (1).

#### Regulatory status

FDA-approved indications: Rinvoq is a Janus kinase (JAK) inhibitor indicated for the treatment of: (1)

- Adults with moderately to severely active rheumatoid arthritis (RA) who have had an inadequate response or intolerance to one or more tumor necrosis factor (TNF) blockers.
  - Limitations of Use: Use of Rinvoq in combination with other JAK inhibitors, biologic DMARDs, or with potent immunosuppressants such as azathioprine and cyclosporine is not recommended.
- Adults with active psoriatic arthritis (PsA) who have had an inadequate response or intolerance to one or more TNF blockers.

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- Limitations of Use: Use of Rinvoq in combination with other JAK inhibitors, biologic DMARDs, or with potent immunosuppressants such as azathioprine and cyclosporine is not recommended.
- Adults and pediatric patients 12 years of age and older with refractory, moderate to severe atopic dermatitis whose disease is not adequately controlled with other systemic drug products, including biologics, or when use of those therapies are inadvisable.
  - Limitations of Use: Rinvoq is not recommended for use in combination with other JAK inhibitors, biologic immunomodulators, or with other immunosuppressants.
- Adults with moderately to severely active ulcerative colitis who have had an inadequate response or intolerance to one or more TNF blockers.
  - Limitations of Use: Rinvoq is not recommended for use in combination with other JAK inhibitors, biological therapies for ulcerative colitis, or with other potent immunosuppressants such as azathioprine and cyclosporine.
- Adults with active ankylosing spondylitis who have had an inadequate response or intolerance to one or more TNF blockers.
  - Limitations of Use: Use of Rinvoq in combination with other JAK inhibitors, biologic DMARDs, or with potent immunosuppressants such as azathioprine and cyclosporine is not recommended.

Rinvoq carries several boxed warnings: (1)

1. Serious infections
  - a. Serious infections, including tuberculosis and bacterial, invasive fungal, viral, and other opportunistic infection leading to hospitalization or death. If a serious infection develops, interrupt Rinvoq until the infection is controlled. Prior to starting Rinvoq, perform a test for latent tuberculosis; if it is positive, start treatment for tuberculosis prior to starting Rinvoq. Monitor all patients for active tuberculosis during treatment, even if the initial latent tuberculosis test is negative.
2. Mortality
  - a. RA patients 50 years of age and older with at least one cardiovascular risk factor showed a higher rate of all-cause mortality, including sudden cardiovascular death, in patients treated with JAK inhibitors compared to TNF blockers.
3. Malignancies
  - a. Lymphoma and other malignancies have been observed in patients treated with Rinvoq.
  - b. In RA patients treated with a JAK inhibitor, a higher rate of malignancies was observed when compared with TNF blockers.

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4. Major adverse cardiovascular events (MACE)
  - a. RA patients 50 years of age and older with at least one cardiovascular risk factor treated with a JAK inhibitor showed a higher rate of MACE (defined as cardiovascular death, myocardial infarction, and stroke) when compared to TNF blockers. Patients who are current or past smokers are at increased risk. Rinvoq should be discontinued in patients that have experienced a myocardial infarction or stroke.
5. Thrombosis
  - a. Thrombosis, including deep vein thrombosis, pulmonary embolism, and arterial thrombosis, have occurred in patients treated with JAK inhibitors used to treat inflammatory conditions. Many of these adverse events were serious and some resulted in death.
  - b. In RA patients 50 years of age and older with at least one cardiovascular risk factor treated with a JAK inhibitor, a higher rate of thrombosis was observed when compared with TNF blockers.

The safety and effectiveness of Rinvoq have not been established in pediatric patients less than 12 years of age with atopic dermatitis, or in patients less than 18 years of age for the other approved indications (1).

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### Related policies

Adbry, Cibinco, Dupixent, Olumiant, Xeljanz/XR

#### Policy

*This policy statement applies to clinical review performed for pre-service (Prior Approval, Precertification, Advanced Benefit Determination, etc.) and/or post-service claims.*

Rinvoq may be considered **medically necessary** for the treatment of rheumatoid arthritis (RA), psoriatic arthritis (PsA), ulcerative colitis (UC), ankylosing spondylitis (AS), or atopic dermatitis; and if the conditions indicated below are met.

Rinvoq may be considered **investigational** for all other indications.

### Prior-Approval Requirements

**Age** 18 years of age or older

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## Diagnoses

Patient must have **ONE** of the following:

1. Moderately to severely active rheumatoid arthritis (RA)
  - a. Inadequate treatment response, intolerance, or contraindication to a 3-month trial of at least **ONE** conventional disease-modifying anti-rheumatic drug (DMARD) (see Appendix 1)
  - b. Inadequate treatment response, intolerance, or contraindication to at least **ONE** TNF blocker (e.g., Cimzia, Enbrel, Humira, Remicade, Simponi/Simponi Aria)
  - c. Blue Focus **only**: Patient **MUST** have tried **ONE** of the preferred products (Enbrel or Humira) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)
2. Active psoriatic arthritis (PsA)
  - a. Inadequate treatment response, intolerance, or contraindication to a 3-month trial of at least **ONE** conventional disease-modifying anti-rheumatic drug (DMARD) (see Appendix 1)
  - b. Inadequate treatment response, intolerance, or contraindication to at least **ONE** TNF blocker (e.g., Cimzia, Enbrel, Humira, Remicade, Simponi/Simponi Aria)
  - c. Blue Focus **only**: Patient **MUST** have tried **ONE** of the preferred products (Enbrel or Humira) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)
3. Moderately to severely active ulcerative colitis (UC)
  - a. Inadequate treatment response, intolerance, or contraindication to at least **ONE** conventional therapy option (see Appendix 2)
  - b. Inadequate treatment response, intolerance, or contraindication to at least **ONE** TNF blocker (e.g., Humira, Remicade, Simponi)
  - c. Blue Focus **only**: Patient **MUST** have tried the preferred product (Humira) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)
4. Active ankylosing spondylitis (AS)
  - a. Inadequate treatment response, intolerance, or contraindication to at least **TWO** non-steroidal anti-inflammatory drugs (NSAIDs)

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- b. Inadequate treatment response, intolerance, or contraindication to at least **ONE** TNF blocker (e.g., Cimzia, Enbrel, Humira, Remicade, Simponi/Simponi Aria)
- c. Blue Focus **only**: Patient **MUST** have tried **ONE** of the preferred products (Enbrel or Humira) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)

**AND ALL** of the following:

1. Prescriber has considered the risks for malignancy and major adverse cardiovascular events (MACE) (e.g., advanced age, smoking history, cardiovascular risk factors etc.) and determined that Rinvoq therapy is appropriate
2. Result for latent TB infection is negative **OR** result was positive for latent TB and patient completed treatment (or is receiving treatment) for latent TB

**AND NONE** of the following:

1. Active bacterial, invasive fungal, viral, and other opportunistic infections
2. Severe hepatic impairment (Child Pugh C)
3. A lymphocyte count less than 500 cells/mm<sup>3</sup>
4. An absolute neutrophil count less than 1000 cells/mm<sup>3</sup>
5. A hemoglobin less than 8 g/dL
6. History of thrombotic events including deep vein thrombosis (DVT) or pulmonary embolism (PE)
7. Used in combination with any other biologic DMARD or targeted synthetic DMARD (see Appendix 1)
8. Used in combination with potent immunosuppressants azathioprine or cyclosporine
9. Given concurrently with live vaccines

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**Age** 12 years of age or older

**Diagnosis**

Patient must have the following:

1. Moderate to severe atopic dermatitis (eczema)

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**AND ALL** of the following:

1. Inadequate treatment response, intolerance, or contraindication to at least **TWO** systemic atopic dermatitis medications, including biologics (e.g., oral corticosteroids, hydroxyzine, Adbry, Cibinqo, Dupixent, etc.)
2. Prescriber has considered the risks for malignancy and major adverse cardiovascular events (MACE) (e.g., advanced age, smoking history, cardiovascular risk factors etc.) and determined that Rinvoq therapy is appropriate
3. Result for latent TB infection is negative **OR** result was positive for latent TB and patient completed treatment (or is receiving treatment) for latent TB

**AND NONE** of the following:

1. Active bacterial, invasive fungal, viral, and other opportunistic infections
2. Severe hepatic impairment (Child Pugh C)
3. A lymphocyte count less than 500 cells/mm<sup>3</sup>
4. An absolute neutrophil count less than 1000 cells/mm<sup>3</sup>
5. A hemoglobin less than 8 g/dL
6. History of thrombotic events including deep vein thrombosis (DVT) or pulmonary embolism (PE)
7. Used in combination with any other biologic DMARD or targeted synthetic DMARD (see Appendix 1)
8. Used in combination with another non-topical Prior Authorization (PA) medication for atopic dermatitis (see Appendix 3)
9. Used in combination with potent immunosuppressants azathioprine or cyclosporine
10. Given concurrently with live vaccines

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## Prior-Approval Renewal Requirements

**Age** 18 years of age or older

### Diagnoses

Patient must have **ONE** of the following:

1. Rheumatoid arthritis (RA)
  - a. Blue Focus **only**: Patient **MUST** have tried **ONE** of the preferred products (Enbrel or Humira) unless the patient has a valid medical

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- exception (e.g., inadequate treatment response, intolerance, contraindication)
2. Psoriatic arthritis (PsA)
    - a. Blue Focus **only:** Patient **MUST** have tried **ONE** of the preferred products (Enbrel or Humira) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)
  3. Ulcerative colitis (UC)
    - a. Blue Focus **only:** Patient **MUST** have tried the preferred product (Humira) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)
  4. Ankylosing spondylitis (AS)
    - a. Blue Focus **only:** Patient **MUST** have tried **ONE** of the preferred products (Enbrel or Humira) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)

**AND ALL** of the following:

1. Condition has improved or stabilized
2. Prescriber has considered the risks for malignancy and major adverse cardiovascular events (MACE) (e.g., advanced age, smoking history, cardiovascular risk factors etc.) and determined that continuation of Rinvoq therapy is appropriate

**AND NONE** of the following:

1. Active bacterial, invasive fungal, viral, and other opportunistic infections
2. Used in combination with any other biologic DMARD or targeted synthetic DMARD (see Appendix 1)
3. Used in combination with potent immunosuppressants azathioprine or cyclosporine
4. Development of thrombotic events (including DVTs or PEs)
5. Given concurrently with live vaccines

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**Age** 12 years of age or older

**Diagnosis**

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Patient must have the following:

1. Atopic dermatitis (eczema)

**AND ALL** of the following:

1. Condition has improved or stabilized
2. Prescriber has considered the risks for malignancy and major adverse cardiovascular events (MACE) (e.g., advanced age, smoking history, cardiovascular risk factors etc.) and determined that continuation of Rinvoq therapy is appropriate

**AND NONE** of the following:

1. Active bacterial, invasive fungal, viral, and other opportunistic infections
2. Used in combination with any other biologic DMARD or targeted synthetic DMARD (see Appendix 1)
3. Used in combination with another non-topical Prior Authorization (PA) medication for atopic dermatitis (see Appendix 3)
4. Used in combination with potent immunosuppressants azathioprine or cyclosporine
5. Development of thrombotic events (including DVTs or PEs)
6. Given concurrently with live vaccines

## Policy Guidelines

### Pre-PA Allowance

None

### Prior-Approval Limits

Quantity

Indication	Strength	Quantity
Ankylosing spondylitis (AS)	15 mg	90 tablets per 90 days
Atopic dermatitis	15 mg	
	30 mg	
Psoriatic arthritis (PsA)	15 mg	
Rheumatoid arthritis (RA)	15 mg	
Ulcerative colitis (UC)	15 mg	
	30 mg	
	45 mg	



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**Duration** 4 months for atopic dermatitis  
12 months for all other indications

### Prior-Approval *Renewal* Limits

#### Quantity

Indication	Strength	Quantity
Ankylosing spondylitis (AS)	15 mg	90 tablets per 90 days
Atopic dermatitis	15 mg 30 mg	
Psoriatic arthritis (PsA)	15 mg	
Rheumatoid arthritis (RA)	15 mg	
Ulcerative colitis (UC)	15 mg 30 mg	

**Duration** 12 months for atopic dermatitis  
18 months for all other indications

### Rationale

#### Summary

Rinvoq (upadacitinib) is a Janus kinase (JAK) inhibitor indicated for patients with rheumatoid arthritis (RA), psoriatic arthritis (PsA), ulcerative colitis (UC), ankylosing spondylitis (AS), and atopic dermatitis. Rinvoq has several boxed warnings including risk of serious infections, mortality, malignancies, MACE, and thrombosis. The safety and effectiveness of Rinvoq have not been established in pediatric patients less than 12 years of age with atopic dermatitis, or in patients less than 18 years of age for the other approved indications (1).

Prior approval is required to ensure the safe, clinically appropriate and cost-effective use of Rinvoq while maintaining optimal therapeutic outcomes.

#### References

1. Rinvoq [package insert]. North Chicago, IL: AbbVie Inc.; April 2022.

### Policy History

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Date	Action
September 2019	Addition to PA
December 2019	Annual review. Addition of requirement to trial preferred product
March 2020	Annual review
December 2020	Annual review and reference update. Revised requirements to t/f preferred products to apply to Blue Focus patients only
June 2021	Annual review
December 2021	Annual review
January 2022	Added t/f requirement to t/f at least one TNF blocker per package insert update. Added indication: psoriatic arthritis (PsA). Added requirement for prescriber to assess risks with malignancy and MACE, per latest PI update
March 2022	Annual review and reference update
April 2022	Addition of indications per PI update: atopic dermatitis and ulcerative colitis. Addition of Appendix 2 and Appendix 3
May 2022	Addition of indication per PI update: ankylosing spondylitis
June 2022	Annual review. Per SME, added example names of biologics to the atopic dermatitis t/f requirement

### Keywords

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**This policy was approved by the FEP® Pharmacy and Medical Policy Committee on June 16, 2022 and is effective on July 1, 2022.**

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### Appendix 1 - List of DMARDs

#### Conventional disease-modifying antirheumatic drugs (DMARDs)

Generic Name	Brand Name
azathioprine	Azasan, Imuran
cyclophosphamide	Cytoxan
cyclosporine	Neoral, Gengraf, Sandimmune
hydroxychloroquine	Plaquenil
leflunomide	Arava
methotrexate	Rheumatrex, Trexall
mycophenolate	Cellcept
sulfasalazine	Azulfidine, Sulfazine

#### Biological disease-modifying antirheumatic drugs (DMARDs)

Generic Name	Brand Name
abatacept	Orencia
adalimumab	Humira
anakinra	Kineret
brodalumab	Siliq
certolizumab	Cimzia
etanercept	Enbrel
golimumab	Simponi/Simponi Aria
guselkumab	Tremfya
infliximab	Remicade/Renflexis/Inflectra
ixekizumab	Taltz
risankizumab-rzaa	Skyrizi
rituximab	Rituxan
sarilumab	Kevzara
secukinumab	Cosentyx
tildrakizumab-asmn	Ilumya
tocilizumab	Actemra
ustekinumab	Stelara
vedolizumab	Entyvio

#### Targeted synthetic disease-modifying antirheumatic drugs (DMARDs)

Generic Name	Brand Name
apremilast	Otezla
baricitinib	Olumiant
tofacitinib	Xeljanz/XR
upadactinib	Rinvoq

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## Appendix 2 - List of Conventional Therapies for Ulcerative Colitis

Conventional Therapy Options for UC	
1. Mild to moderate disease – induction of remission:	<ul style="list-style-type: none"> <li>a. Oral mesalamine (e.g., Asacol, Lialda, Pentasa), balsalazide, olsalazine</li> <li>b. Rectal mesalamine (e.g., Canasa, Rowasa)</li> <li>c. Rectal hydrocortisone (e.g., Colocort, Cortifoam)</li> <li>d. Alternatives: prednisone, azathioprine, mercaptopurine, sulfasalazine</li> </ul>
2. Mild to moderate disease – maintenance of remission:	<ul style="list-style-type: none"> <li>a. Oral mesalamine, balsalazide, olsalazine, rectal mesalamine</li> <li>b. Alternatives: azathioprine, mercaptopurine, sulfasalazine</li> </ul>
3. Severe disease – induction of remission:	<ul style="list-style-type: none"> <li>a. Prednisone, hydrocortisone IV, methylprednisolone IV</li> <li>b. Alternatives: cyclosporine IV, tacrolimus, sulfasalazine</li> </ul>
4. Severe disease – maintenance of remission:	<ul style="list-style-type: none"> <li>a. Azathioprine, mercaptopurine</li> <li>b. Alternative: sulfasalazine</li> </ul>
5. Pouchitis:	<ul style="list-style-type: none"> <li>a. Metronidazole, ciprofloxacin</li> <li>b. Alternative: rectal mesalamine</li> </ul>

## Appendix 3 - List of Non-Topical PA Medications for Atopic Dermatitis

Generic Name	Brand Name
abrocitinib	Cibinqo
dupilumab	Dupixent
tralokinumab-ldrm	Adbry
upadactinib	Rinvoq