

## Helpful ILARIS® Tools in the Information Pack For You and Your Patients

This pack includes important information and resources to help you when prescribing ILARIS® for patients suffering from Cryopyrin-Associated Periodic Syndrome (CAPS) to help them manage their disease effectively.

It is important that you are familiar with the material to ensure the proper use of ILARIS®.

This ILARIS® Information Pack includes the following:

### ILARIS® Preparation and Injection Guide

- > Patient-friendly brochure demonstrating simple instructions for the successful administration of ILARIS®
- > Dosing instructions and step-by-step visuals simplify preparation and injection
  - Treatment should be initiated and supervised by a specialist physician experienced in the diagnosis and treatment of CAPS<sup>1</sup>
  - After proper training, patients may self-inject ILARIS® if they are capable<sup>1</sup>

In the case of an administration error, contact:

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### ILARIS® Patient Alert Card

- > A wallet-sized card that patients must carry with them at all times
  - > Includes important safety information that all healthcare professionals involved in the patient's care should know in case of a medical emergency
- It is required that you give your ILARIS® patients this card to carry with them at all times after initiating ILARIS® treatment.

### ILARIS® Summary of Product Characteristics (SmPC)

- > Detailed document featuring important properties of ILARIS®:
  - Safety and efficacy data, including results from clinical trials
  - Review of the targeted mechanism of action
  - Pharmacokinetic and pharmacodynamic data
  - Important safety information and precautions

**Closely review the contents provided in the Information Pack prior to prescribing ILARIS®.**

**ILARIS®**  
(canakinumab)  
150 mg subcutaneous injection

Reference: 1. Ilaris (summary of product characteristics), West Sussex, United Kingdom: Novartis Europharm Limited; 2011.

## Identification and Diagnosis of CAPS Patients— The ILARIS® Registry Is Open for CAPS Patients

### Patient Identification and Diagnosis

CAPS is believed to occur in around 6500 patients worldwide<sup>1</sup> and 2500 in the European Union.<sup>2</sup> However, due to lack of diagnosis or misdiagnosis, fewer than 1000 cases have been officially reported worldwide.<sup>3</sup>

Undiagnosed CAPS patients are in great need of long-term symptom relief and prevention of progressive complications.<sup>4</sup>

### The following methods may help in identifying CAPS patients:

- Explore immediate family history and consider CAPS connections to other relatives
- Consider patients who have reported symptoms resembling other conditions
- Assess patients with periodic fever and skin reactions for a mutation of the *NLRP3* gene
- Reach out to colleagues who may have undiagnosed CAPS patients within their practice



### Opportunity to Enroll ILARIS® Patients in the ILARIS® Registry

The ILARIS® -CONFIDENT registry is a worldwide database of CAPS patients that will assess long-term safety and treatment outcomes with ILARIS® under local care conditions.

By registering your ILARIS® patients, common characteristics between genotype and phenotype, potential disease modification may be established. The long-term efficacy and safety data provided by the ILARIS® registry can help inform best practices in CAPS for successful treatment outcomes.

Collaboration with other established and planned autoinflammatory databases is expected. Visit the Novartis Registry Web site at [www.ilarisregistry.com](http://www.ilarisregistry.com) for more information.

**References:** 1. Durrant KLW, Goldbach-Mansky R, Hoffman H, Leslie K, Rubin B, CAPS: cryopyrin-associated periodic syndromes. San Francisco, CA: The NOMID Alliance; 2008. 2. European Medicines Agency (EMA). Committee for orphan medicinal products. Public summary of positive opinion for orphan designation of ritonapept for the treatment of cryopyrin-associated periodic syndromes (familial cold urticaria syndrome (FCUS), Muckle-Wells syndrome (MWS), and neonatal onset multisystem inflammatory disease (NOMID), also known as chronic infantile neurological cutaneous articular syndrome (CINCA)). <http://www.emea.europa.eu/pdfs/human/comp/opinion/17086800en.pdf>. Published July 23, 2008. Accessed August 27, 2009. 3. Data on file; Novartis Pharma AG. 4. Hoffman RM. Hereditary immunologic disorders caused by pyrin and cryopyrin. *Curr Allergy Asthma Rep.* 2007;7:322-330.



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## A Healthcare Professional's Guide to Treatment of Patients with Cryopyrin- Associated Periodic Syndromes (CAPS) with ILARIS®

### Indication

ILARIS® is indicated for the treatment of Cryopyrin-Associated Periodic Syndromes (CAPS) in adults, adolescents, and children aged 4 years and older with body weight above 15 kg, including:

- Muckle-Wells Syndrome (MWS)
- Neonatal-Onset Multisystem Inflammatory Disease (NOMID)/Chronic Infantile Neurological, Cutaneous, Articular syndrome (CINCA)
- Severe forms of Familial Cold Autoinflammatory Syndrome (FCAS)/Familial Cold Urticaria (FCU), presenting with signs and symptoms beyond cold-induced urticarial skin rash

**ILARIS®**  
(canakinumab)  
150 mg subcutaneous injection

ILA-001/10/2012

## Important Safety Information

### What You Should Know Before Treatment With ILARIS®

ILARIS® was well tolerated, as demonstrated by more than 100 CAPS patients in clinical trials and more than 800 patients in the overall database.<sup>1</sup> However, the following risks are associated with treatment:

#### Injection-Site Reactions

More than 90% of patients receiving ILARIS® did not experience any injection-site reactions after the first injection, and those that did occur were of a mild-to-moderate nature.<sup>1,2</sup>

#### Infections, Including Serious Infections<sup>1</sup>

- Monitor patients carefully for signs and symptoms of infections during and after treatment with ILARIS®
- Exercise caution when administering ILARIS® to patients with infections, a history of recurring infections, or underlying conditions which may predispose them to infections
- ILARIS® should not be initiated or continued in patients during an active infection requiring medical intervention

Isolated cases of unusual or opportunistic infections were reported with ILARIS®; the causal relationship of ILARIS® to these events is unknown.

It is unknown if the use of IL-1 inhibitors such as ILARIS® increases the risk of reactivation of tuberculosis or opportunistic infections. Before initiation of therapy, all patients must be evaluated for both active and latent tuberculosis infection. This evaluation should include a detailed medical history, particularly in adult patients. Appropriate screening tests (eg, tuberculin skin test, Interferon-Gamma Release-Assay (IGRA), or chest X-ray) should be performed in all patients (local recommendations may apply). Patients must be monitored closely for signs and symptoms of tuberculosis during and after treatment with ILARIS®. All patients should be instructed to seek medical advice if signs or symptoms suggestive of tuberculosis (eg, persistent cough, weight loss, subfebrile temperature) appear during ILARIS® therapy. In the event of conversion from a negative to positive purified protein derivative (PPD) test, especially in high-risk patients, alternative means of screening for a tuberculosis infection should be considered.

**References:** 1. Ilaris (summary of product characteristics). West Sussex, United Kingdom: Novartis Europharm Limited; 2011. 2. Lachmann HJ, Kone-Pautl, Kuenmerle-Deschner JB, et al. Use of canakinumab in the cryopyrin-associated periodic syndrome. *N Engl J Med.* 2009;360:2416-2425.

## Important Safety Information (cont'd)

### What You Should Know Before Treatment With ILARIS®

#### Neutropenia<sup>1</sup>

Neutropenia (absolute neutrophil count <1.5 x 10<sup>9</sup>/L) has been observed with medicinal products that inhibit IL-1, including ILARIS®. Treatment with ILARIS® should not be initiated in patients with neutropenia. It is recommended that neutrophil counts be assessed prior to initiating treatment and, for continuous treatment with ILARIS®, after 1 to 2 months, and periodically thereafter while receiving ILARIS®.

#### Potential Risk of Immunogenicity and Hypersensitivity Reactions<sup>1</sup>

- Cases suggestive of hypersensitivity reactions with ILARIS® have been reported
  - The majority of these events were mild in severity
- No anaphylactoid or anaphylactic reactions have been reported. However, the risk of severe hypersensitivity reactions, which is not uncommon for injectable proteins, cannot be excluded.
- No antibodies to ILARIS® have been detected in CAPS patients treated with ILARIS®. Antibodies against ILARIS® were observed in approximately 1% of gouty arthritis patients in clinical studies.

#### Unknown Safety in Pregnant and Lactating Women<sup>1</sup>

- Women should use effective contraceptives during treatment with ILARIS® and for up to 3 months after the last dose
  - It is not known whether ILARIS® is excreted in human milk
  - Formal studies of the potential effect of ILARIS® on human fertility have not been conducted
- Women who are pregnant or desire to become pregnant should be treated only after a thorough benefit-risk evaluation.

#### Frequency of Adverse Events<sup>1</sup>

<b>≥ 10% of patients</b>	<b>&lt;10% of patients</b>
Nasopharyngitis	Urinary tract infection
Vertigo	Upper respiratory tract infection
Injection-site reactions	Viral infection

**Reference:** 1. Ilaris (summary of product characteristics). West Sussex, United Kingdom: Novartis Europharm Limited; 2011.

## Important Safety Information (cont'd)

### Managing Treatment With ILARIS®

The following conditions should be evaluated regularly throughout treatment:

#### Malignancies<sup>1</sup>

- Perform annual assessments in ILARIS® patients regarding the presence of malignancies

Malignancy events have been reported in patients treated with ILARIS® during clinical development. The risk for the development of malignancies with anti-IL-1 therapy is unknown.

#### Neutropenia<sup>1</sup>

- Assess neutrophil counts in patients:
  - Before initiating treatment with ILARIS®
  - 1 to 2 months into treatment
  - Periodically thereafter
- If a patient becomes neutropenic:
  - Monitor the absolute neutrophil count (ANC) and consider discontinuation of treatment
- You should not initiate treatment in patients with neutropenia

Neutropenia (ANC <1.5 x 10<sup>9</sup>/L) has been observed commonly with another IL-1 inhibitor used in rheumatoid arthritis patients, a condition in which ILARIS® is not approved for use.

#### Lipid Profile

- Monitor patients regularly during treatment for changes in their lipid profiles<sup>2</sup>
- Patients treated with ILARIS® showed increased levels of triglycerides in comparative trials (>5 x ULN was 2.4% with ILARIS® and 0.7% with triamcinolone acetone); the clinical significance of this observation is unknown. Increases in total cholesterol, HDL, and LDL levels as well as triglycerides have been observed in CAPS patients treated with another anti-IL-1 therapy.<sup>2</sup>

#### Vaccinations<sup>1</sup>

- No data are available on the risk of secondary transmission of infection by live (attenuated) vaccines in patients receiving ILARIS®. Therefore, live vaccines should not be given concurrently in patients receiving ILARIS® unless the benefits clearly outweigh the risks
- Prior to initiation of ILARIS® therapy, adult and paediatric patients should receive all recommended vaccinations, as appropriate, including pneumococcal and inactivated influenza vaccines
- For patients on ILARIS® therapy, wait at least 3 months after the last injection and before the next injection to administer any live vaccines
- In healthy adults, ILARIS® did not affect the induction and persistence of antibody responses after vaccination with influenza and glycosylated protein-based meningococcus vaccines.



**References:** 1. Ilaris (summary of product characteristics). West Sussex, United Kingdom: Novartis Europharm Limited; 2011. 2. Arcalet (prescribing information). Tarrytown, NY: Regeneron Pharmaceuticals, Inc.; 2009.