Imlygic

(talimogene laherparepvec)



New Product Slideshow



Introduction

- Brand name: Imlygic
- Generic name: Talimogene laherparepvec
- Pharmacological class: Genetically modified oncolytic viral therapy
- Strength and Formulation: 10⁶ (1 million)
 PFU/mL, 10⁸ (100 million)
 PFU/mL; susp for intralesional inj; preservative-free
- Manufacturer: Amgen
- How supplied: Single-use vial (1mL)—1
- Legal Classification: Rx

IMLYGIC





Indications

- Treatment of unresectable cutaneous, subcutaneous, and nodal lesions in patients with **melanoma** recurrent after initial surgery
- Limitations of use: not shown to improve overall survival or have an effect on visceral metastases

Dosage & Administration

- See full labeling
- Inject intralesionally into cutaneous, subcutaneous, and/or nodal lesions that are visible, palpable, or detectable by ultrasound guidance
- Total inj volume per treatment visit: max 4mL for all injected lesions combined
- Initial dose: up to 4mL of 10⁶ (1 million) PFU/mL
- 2nd dose: up to 4mL of 10⁸ (100 million) PFU/mL given 3 weeks later

Dosage & Administration

- All subsequent doses (including reinitiation): up to 4mL of 10⁸ (100 million) PFU/mL given 2 weeks apart
- Continue for ≥6 months unless other treatment required or until no injectable lesions to treat; reinitiate if new lesions appear after a complete response

Considerations for Special Populations

- Pregnancy: See Contraindications
- Nursing mothers: Not recommended
- Pediatric: Not established
- Geriatric: No overall differences observed

Contraindications

Immunocompromised or pregnant patients

Warnings/Precautions

- For intralesional injection only
- Avoid accidental exposure (esp. skin, eyes, mucous membranes) and direct contact with patient's injected lesions, dressings, or body fluids
- Advise patients to avoid inadvertent transfer of drug to other areas of the body (eg, touching/scratching inj sites or occlusive dressings)

Warnings/Precautions

- Evaluate lesions if suspected herpetic infection occurs
- Inj site complications (eg, necrosis or ulceration of tumor tissue, cellulitis, systemic bacterial infection)
- Persistent infection or delayed healing of inj site
- Underlying autoimmune disease
- Multiple myeloma or plasmacytoma
- Women of childbearing potential should use effective method of contraception

Interactions

 Acyclovir or other antiherpetic viral agents may interfere with efficacy

Adverse Reactions

- Fatigue
- Chills
- Pyrexia
- Nausea
- Influenza-like illness
- Injection site pain
- Immune-mediated events

Mechanism of Action

- Imlygic has been genetically modified to replicate within tumors and to produce GM-CSF
- Imlygic causes tumor lysis followed by release of tumor-derived antigens, which together with virally derived GM-CSF may promote an antitumor immune response

- The safety and efficacy of intralesional Imlygic vs. subcutaneous GM-CSF was evaluated in a multicenter, open-label, randomized clinical study in 436 patients with stage IIIB, IIIC, and IV melanoma that was considered not surgically resectable
- Patients were randomized to receive either Imlygic (n=295) or GM-CSF (n=141) for at least 6 months or until no injectable lesions

- After 6 months, patients were to continue treatment until clinically relevant disease progression, up to 12 months
- Patients with a response at 12 months after starting treatment could continue for another 6 months unless there were no remaining injectable lesions or disease progression
- All patients were followed for survival status for at least 36 months

 The major efficacy outcome was durable response rate (DRR), defined as the percent of patients with complete response (CR) or partial response (PR) maintained continuously for a minimum of 6 months

- Study data showed **DRR** was 16.3% in the Imlygic arm vs. 2.1% in the GM-CSF arm in the overall study population
- The unadjusted relative risk was 7.6 (95% CI: 2.4, 24.1; P<0.0001)
- The median time to response was 4.1 months in the Imlygic arm

- No statistically significant difference in overall survival (OS) was seen between the Imlygic and GM-CSF arms
- The median **OS** in the overall study population was 22.9 months in the Imlygic arm vs. 19.0 months in the GM-CSF arm (P=0.116)

For more clinical trial data, see full labeling

New Product Monograph

 For more information view the product monograph available at:

http://www.empr.com/imlygic/drug/34546/