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REIMAGINING  
MEDICAL AND  
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DERMATOLOGY



# Hedgehog Inhibitors for BCC: Tips and Tricks

REVOLUTIONIZING DERMATOLOGY EDUCATION

Aaron S. Farberg, MD, FAAD

Assistant Professor of Dermatology  
Baylor University Medical Center, Dallas, TX

**Sonidegib**  
**Vismodegib**

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# Hedgehog Inhibitor Adverse Events

- Muscle cramps
- Taste alterations (dysgeusia)
- Hair loss

**Decrease dosing frequency**

**Decrease the side effects of  
hedgehog inhibitors**

# JANUARY 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						<b>1</b>
<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>
<b>23</b> 30	<b>24</b> 31	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>

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<b>X2</b>	<b>X3</b>	<b>X4</b>	<b>X5</b>	<b>X6</b>	<b>X7</b>	<b>X8</b>
<b>X9</b>	<b>X10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>
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**Fewer side effects**

**LiVDerm**

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**with good efficacy**

A hedgehog inhibitor dosed at 10 days per month is “optimal maintenance” for basal cell nevus syndrome (BCNS) patients

-Scott Dinehart

# **Hedgehog Inhibitor Adverse Events**

- **Muscle cramps**
- **Taste alterations (dysgeusia)**
- **Hair loss**

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# Muscle Cramps

- Most common side effect: 60-70% of patients
- Start early and worsen with time
- Most common reason for discontinuation

# L-carnitine reduces muscle cramps in patients treated with hedgehog inhibitors

**SKIN**

## **FEATURED ARTICLE**

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### **L-Carnitine Reduces Muscle Cramps in Patients Taking Vismodegib**

Matthew S. Dinehart BA M.Ed<sup>a</sup>, Stacy McMurray MD<sup>b</sup>, Scott M. Dinehart MD<sup>c</sup>,  
Mark Lebwohl MD<sup>d</sup>

<sup>a</sup>University of Arkansas for Medical Sciences, College of Medicine, Little Rock, AR

<sup>b</sup>Department of Dermatology, University of Tennessee Health Science Center, Memphis, TN

<sup>c</sup>Arkansas Dermatology, Little Rock, AR

<sup>d</sup>Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, NY

# L-Carnitine

- Naturally occurring amino acid
- 1000-2000 mg orally
- Start L-carnitine 2 weeks prior to starting HHI



**L-Carnitine**  
**1500 mg q hs**

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# Expand your use of HHI

- smaller tumors
- poor surgical candidates
- neoadjuvant to surgery

LIVDerm  
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If HHIs work well in giant tumors imagine how well they work for smaller ones

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# An investigator-initiated open-label clinical trial of vismodegib as a neoadjuvant to surgery for high-risk basal cell carcinoma

Mina Sarah Ally, BSc, MBBS,<sup>a</sup> Sumaira Aasi, MD,<sup>a</sup> Ashley Wysong, MD, MS,<sup>a,d</sup> Claudia Teng,<sup>a</sup>  
Eric Anderson, BSE,<sup>b</sup> Irene Bailey-Healy,<sup>a</sup> Anthony Oro, MD, PhD,<sup>a</sup> Jinah Kim, MD, PhD,<sup>a,c</sup>  
Anne Lynn Chang, MD,<sup>a</sup> and Jean Yuh Tang, MD, PhD<sup>a</sup>

*Stanford and La Jolla, California*

**Sonidegib**  
**Vismodegib**

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# Hedgehog Inhibitor Tips

- Alternative Dosing Frequency
- L-carnitine for cramps
- Expand who you consider to be candidates for HHI therapy

Thank you for your attention!

LiveDerm

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Aaron S. Farberg, MD, FAAD

[Aaron.Farberg@gmail.com](mailto:Aaron.Farberg@gmail.com)