



## Compounding for Wound Healing

Wound care is a specialty in which compounding pharmacists can play an important role. Our pharmacist can customize medications to help during all stages of wound healing that can improve circulation to the wound and speed healing while reducing pain, and fighting inflammation and infection. The benefit of compounding is that the treatment can be modified as the wound enters each stage of healing.



Wound healing is a multi-stage process:

- Homeostasis – This stage begins as soon as blood begins to flow, and clotting occurs.
- Inflammation – The injured blood vessels begin to swell. Inflammation controls bleeding and helps prevent infection. It becomes problematic when this stage is prolonged or excessive.
- Proliferation – The body begins to form new tissue consisting of collagen and the wound begins to retract.
- Maturation – The remodeling stage begins approximately 21 days after the injury and is when the new tissue becomes stronger.

Disruptions in the wound healing phases can lead to long-term problems. Our compounding pharmacist can work with patients and their practitioners to help prevent disruptions or address issues that result from disruptions in the healing process.

- Chronic wounds are wounds that have failed to heal in 4 weeks. Many factors can play a role in slow healing wounds, including age, nutritional deficiencies, infection, smoking, medications, and other diseases just to name a few.
- Excessive wound healing can lead to a build-up of new tissue which leads to scars and keloids.

The International Journal of Pharmaceutical Compounding published a four-part series on Wound Care and included suggested formulations that can be compounded to heal various types of wounds at the different stages of healing. Compounding allows not only different medications to be used, but different combinations of medications, and innovative dosage forms and bases.

Medications can be chosen based on the wound healing stage and treatment needed. Some medications increase blood flow, provide pain relief, decrease inflammation, etc. Commonly compounded medications for wound healing include:

- Doxycycline
- Phenytoin
- Misoprostol
- Gabapentin
- Ketamine
- Sildenafil
- Naltrexone
- Insulin

People of all ages and medical conditions can benefit from customized wound preparations.

- Diabetic patients with foot ulcers.
- Hospice patients with persistent bed sores.
- Babies or children with persistent diaper rash.
- Patients with scars or keloids that cause them physical or emotional discomfort.

*Our pharmacist will be happy to work with patients and their physicians to compound a medication specifically to meet that individual's unique wound care or scar treatment needs.*

[Int J Pharm Compd. Mar-Apr 2021;25\(2\):100-103.](#)

[Int J Pharm Compd. Jul-Aug 2021;25\(4\):282-287.](#)

[Int J Pharm Compd. Sep-Oct 2021;25\(5\):372-377.](#)

[Int J Pharm Compd. Nov-Dec 2021;25\(6\):468-472.](#)

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## Visit our website for the latest information about COVID-19 Testing and Vaccinations at ClearSpring Pharmacy.

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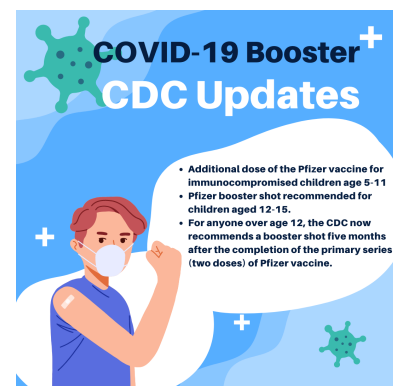
## Have you been laid-off or furloughed due to COVID-19?

If you are having trouble paying for your cash compounded prescriptions at this time, please speak to one of our professional staff members to find out how we can help you. We do not want you to discontinue or alter your medication regiment due to financial hardship. ***We can help!***

### Our social media is a great resource for:

- Up to date information
- Health tips
- Behind the scenes compounding
- Offers
- *And more!*

Check us out below!



## Diabetes Self-Management Education and Support (DSMES)



Only 26.7% of patients diagnosed with diabetes meet targets for *glycemic, blood pressure, or cholesterol control.*

Our seminars will give you:

- Evidence-based approach
- Instruction from licensed clinical pharmacists in Colorado

- Diabetes in the workplace consultation
- Shared experiences from other clients with diabetes

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## Download our App

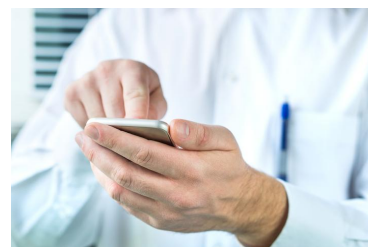
ClearSpring mobileRx app allows you to refill prescriptions on your mobile device at your convenience. You can refill multiple prescriptions on a mobile device by entering your prescription numbers, scanning the barcode on the prescription bottles or using your Patient Profile.

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## Two-Way Text Communication

At ClearSpring Pharmacy, we now offer two-way text communication where we can communicate conveniently about your prescription, refill status, insurance, etc. Ask your pharmacist for details.



### Littleton

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Littleton, CO 80120  
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[Shop our Littleton Location](#)



### Cherry Creek

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ClearSpring Pharmacy's Littleton location is a PCAB® Accredited Compounding Pharmacy. [Learn more about PCAB® Accreditation.](#)

*We care about our patients and want to provide you with quality information about your health. If you ever have questions or would like more information, please feel free to ask. We look forward to caring for you and your family.*