

The Impact of Medications on Wound Healing

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Impact on Wound Healing	Drugs
Improve	<ul style="list-style-type: none"> • Pentoxifylline • Appetite stimulants – only in correcting malnutrition <ul style="list-style-type: none"> ○ Megestrol acetate, dronabinol • Anabolic agents – theoretical <ul style="list-style-type: none"> ○ Human growth hormone, testosterone, oxandrolone • Estrogen receptor modulators – needs more study <ul style="list-style-type: none"> ○ Tamoxifen, raloxifene
Impair	<ul style="list-style-type: none"> • Systemic glucocorticoids <ul style="list-style-type: none"> ○ IV, oral forms of prednisone, methylprednisone, cortisone, dexamethasone, etc. • Non-steroidal anti-inflammatory drugs <ul style="list-style-type: none"> ○ Ibuprofen, naproxen, aspirin, etc. • Anti-gout agent <ul style="list-style-type: none"> ○ Colchicine • Anticoagulants <ul style="list-style-type: none"> ○ Warfarin, heparin, enoxaparin, rivaroxaban, apixaban, dabigatran, etc. • Vasoconstrictors <ul style="list-style-type: none"> ○ Epinephrine, nicotine, etc. • Chemotherapeutic agents <ul style="list-style-type: none"> ○ Doxorubicin, bevacizumab, sorafenib, etc. • Immunosuppressants <ul style="list-style-type: none"> ○ Sirolimus, tacrolimus, cyclosporine

Supplements



- If there are deficiencies in any macro or micronutrients, they should be supplemented
- Deficiencies in protein, carbohydrate, fats, vitamin C, iron, zinc, and magnesium are particularly implicated in impaired wound healing
- If a patient is NOT deficient, then use of supplements is not necessary to help facilitate wound healing

References:

1. Anderson K, Hamm R. Factors That Impair Wound Healing. *J Am Coll Clin Wound Spec.* 2012;4(4):84-91.
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3. Guo S, Dipietro L. Factors affecting wound healing. *J Dent Res.* 2010;89(3):219-229.
4. Powell G. Wound care for injecting drug users. *Nursing Standard.* 2010;25(46):51-60.
5. Smith R. The effects of medications in wound healing. *Podiatry Management.* 2008;195-206.