



*'Powder Bandage' Stops Bleeding Instantly!
For Anterior Nosebleeds, Minor External Bleeding
From Wounds & Procedures*

David Letts, M.D., M.Sc.

A new product, QR Powder, has been evaluated as a wound care agent to stop the bleeding of minor wounds. It is not a topical hemostat, in that it does not trigger the normal, physiological mechanism of blood clotting. Rather, it stops bleeding by binding to the wound area and forming an artificial "scab" which blocks the flow of blood.

In our study in a hospital Emergency Room environment, a total of 45 patients presenting with a wide range of frequently encountered wounds on different parts of the body (including lacerations, bleeding abrasions, avulsions, punctures, nosebleeds, skin tears and various other wounds, including minor bleeding due to medical/surgical procedures) were treated with QR Powder. Of the 45 total patients, almost immediate stoppage of bleeding (within one minute) was accomplished in 43 of the cases (95.5%). Of the patients whose bleeding was stopped, 37% stopped bleeding within 5 seconds after the application of QR Powder, 33% stopped bleeding within 5 to 15 seconds after application, and 30% within 15 to 60 seconds of QR Powder application. The two cases in which QR Powder did not stop the bleeding were due to clinical investigator misapplication.

Biolife, the manufacturer of QR Powder, does not claim their product can be used on coagulopathy or anticoagulant patients. Biolife's assertion that the mechanism of action of QR Powder is independent of the normal clotting cascade seems to be upheld in this study by the product's success in stopping the bleeding of patients on anti-coagulant therapy at the time of treatment. Twelve of the 45 randomly selected patients happened to be actively taking anticoagulants at the time of QR Powder application. Within one minute, bleeding was stopped in 11 of the 12 anticoagulated patients; All were stopped within 2 minutes. Additional study is necessary to confirm the indications of the efficacy of QR Powder to stop bleeding from wounds in patients on anticoagulation therapy.

Despite the small sample size, in regard to human subjects, in this study QR Powder clearly and unequivocally demonstrated a very positive response in controlling emergent bleeding. It was found to be safe, versatile, rapid and effective when used in the proper circumstances. These qualities strongly recommend its availability and use not only by medical professionals, but by the general public as well, because the obvious benefits far outweigh the perceived risk. At this point, because of its strong safety profile, it would be inappropriate to withhold this effective wound care product from general use.

The following table summarizes the types and numbers of wounds and the results of the evaluation of QR Powder in our Emergency Room:

Type of Wound	Number of Patients Treated	Bleeding Stopped Within 15 Seconds	Bleeding Stopped in 15 to 60 Seconds	Bleeding Stopped in More Than 60 Seconds
<i>Lacerations</i>	11	8	3	0
<i>Abrasions</i>	2	2	0	0
<i>Skin Tears</i>	11	9	2	0
<i>Avulsions</i>	6	2	3	1
<i>Nosebleeds</i>	8	3	4	0
<i>Punctures</i>	2	2	0	0
<i>Surgical Procedures</i>	2	1	0	0
<i>Varicose Vein</i>	1	1	0	0
<i>Lesion</i>	1	1	0	0
<i>Tooth Extraction</i>	1	1	0	0
<i>Percentages</i>	-	69.8%	27.9%	2.3%
<i>Totals</i>	45	30	12	1