

HemaClear® is a line of innovative **science-backed, sterile, single-use** devices for the safe and effective removal of blood from the limbs, while blocking its re-entry. **HemaClear®** has been used in about a million procedures worldwide in over 25 countries, with an outstanding safety track record.

SAVES COST, TIME & CLUTTER



Testimonials

- "Using **HemaClear®** in over 3000 cases, we've never had a single complication. **HemaClear®** gets rid of a tremendous amount of clutter in the operating room. Reusable tourniquets get very dirty and messy, if patients had any idea that we are applying them over and over again to their groin area, they'd be appalled."
- Dr. Peter Sharkey - Rothman Institute, Philadelphia, PA
- "**HemaClear®** rolls way up to the axilla, giving a lot more space to operate."
- Dr. Herzenberg - Head of Pediatric Orthopedic Surgery, Sinai Hospital, Baltimore, Maryland
- "I'm very, very impressed with **HemaClear®** including its predictable exsanguination and zero complications. Our staff saw the advantages within one or two uses. It is predictable and very simple, and they like it."
- Mr. Rhidian Morgan-Jones FRCS (Tr&Orth) Consultant Orthopedic & Trauma Surgeon, Cardiff & Vale NHS Trust, Wales



| ORDER NOW from Orders@HemaClear.com | | |
|---|----------------|-------------|
| Product | Cat# | Units/Case* |
| SMALL Pink | PRH-028-PI-01A | 10 |
| MEDIUM Yellow | PRH-040-YE-01A | 10 |
| MEDIUM Red | PRH-040-RE-01A | 10 |
| MEDIUM Green | PRH-040-GR-01A | 10 |
| LARGE Brown | PRH-060-BR-01A | 10 |
| LARGE Orange | PRH-060-OR-01A | 10 |
| LARGE Blue | PRH-060-BL-01A | 10 |
| XLARGE Black & White | PRH-090-BW-01A | 10 |
| Model A - Foot & Ankle | PRH-032-MA-01A | 12 |
| Model F - Forearm | PRH-035-FA-01A | 25 |

*HemaClear® is sold per case

USA

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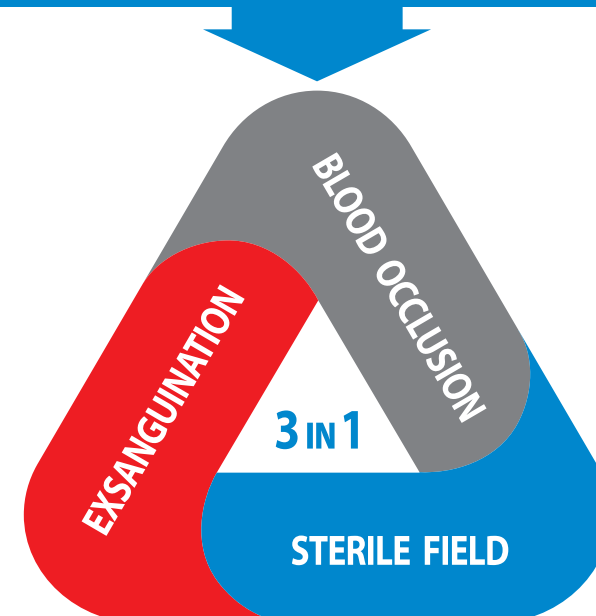
info@hemaclear.com | www.HemaClear.com

HemaClear® is Protected by US and Other Patents
HemaClear® is FDA Listed and CE Marked



ALL-IN-ONE DEVICE

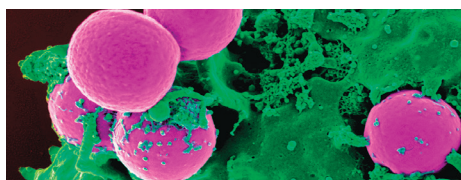
Safe • Easy to Use • Fast



Complications with Current Surgical Practices

SURGICAL SITE INFECTION (SSI)

- Non-sterile pneumatic tourniquets are a potential source of MRSA



"All tourniquets in use were found to be contaminated with colony counts ranging from 9 to >385"*

*Ref: A Study of Microbial Colonisation of Orthopaedic Tourniquets. Ahmed SMY, et. al. Ann R Coll Surg Engl. 2009 Mar;91(2):131-4

PARTIAL EXSANGUINATION

- 45-67% limb exsanguination
- Intravascular clotting of blood left behind
- Pulmonary embolism of migrating clots to heart & lungs when tourniquet is released
- Risk of Brain Infarcts that may result in Post TKA Cognitive Dysfunction

Ref: Exsanguination of Lower Limbs in Healthy Male Subjects. Blond L, et. al. Acta Orthop Scand 2002; 73 (1): 89-92

Ref: Incomplete Leg Exsanguination: A Possible Cause of Post Total Knee Arthroplasty (TKA) Cognitive Deficit (CD). Gavriely N, OHK Archive - Figure 4

WIDE CUFFS INJURE & OBSTRUCT

- Skin injury (20.7%*)
- Tourniquet pain (39.7%*)
- Neuropraxia**

REDUCED ACCESSIBILITY

- Limited surgical field
- Limited visibility

*Ref: Lower Tourniquet Cuff Pressure Reduces Postoperative Wound Complications After Total Knee Arthroscopy, Karolinska Institute. J Bone&Joint Surg Am 2012; 94-A

**Ref: Anatomical Changes in Peripheral Nerves Compressed by a Pneumatic Tourniquet. Ochoa J, Fowler TJ, Gillatt RW. J Anat. 1972; 113:433-55

VS.

VS.

VS.

HemaClear® - A Bloodless Surgical Field Every Time

ALWAYS A STERILE FIELD

- HemaClear® is a sterile single-use device
- "Using non-sterile tourniquets is much like sharing underwear. Who would take such a risk?"

Dr. Wayne M. Goldstein
President & Founder, Illinois Bone & Joint Institute



Non-Sterile Pneumatic
Tourniquets n=34*
23 (68%) **Contaminated**



HemaClear® Sterile Elastic
Tourniquets n=36*
100% Sterile p<0.01*

*Ref: The Effect of Sterile vs. Non-Sterile Tourniquets on Microbiological Colonisation in Lower Limb Surgery. Thompson SM, et. al. Ann R Coll Surg Engl 2011; 93: 589-590

SUPERB EXSANGUINATION (95%)

- Bloodless, dry surgical field
- Improved anatomical visibility
- Reduced incidence of post-op DVT*
- Reduced incidence of pulmonary embolism*



Bloodless surgical field (no blood on surgeon's glove) and excellent visibility

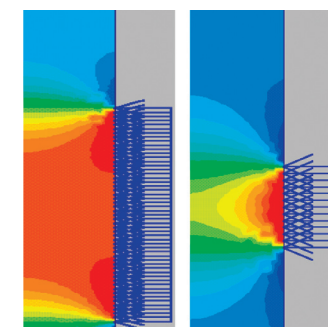
*Ref: Nondrainage Decreases Blood Transfusion Need and Infection Rate in Bilateral Total Knee Arthroplasty. Demirkale I, et. al. J. Arthroplasty, 2013, (Table 5)

NARROW CUFFS ARE SAFER

- No skin injury
- Diminished tourniquet pain
- No tourniquet-induced nerve damage

INCREASED ACCESSIBILITY

- Maximum surgical "real estate"
- Increased surgical site visibility



WIDE

NARROW

Computational pressure distribution inside the limb when applying the **NARROW HemaClear®** or the **WIDE Pneumatic Tourniquet**

*Ref: Mechanical Response of Limbs to a Tourniquet Application. Levenberg E, OHK Archive 2002