KINAMED INCORPORATED

Quality Care. Clinically Proven.

CarboJet®

CO_2 Bone Preparation System

Dear Dr._____

We hope you remain safe and well during these challenging times With elective surgeries beginning to resume in some states and other states anticipating a resumption, I wanted to review with you some of the clinical benefits of use of the ***CarboJet CO_2 Bone Preparation System*** in cemented arthroplasty.

Aseptic loosening has now been widely recognized as a leading cause of primary TKA revision. More and more there is evidence that cement technique is critical to both short and long-term success in cemented arthroplasty cases. Aseptic loosening of knee components can occur at any timepoint including early, where it can be very costly from the hospital and healthcare system perspective. Lipid/fluid debris contamination at the cement/implant interface causes catastrophic loss of bond strength and likewise, excessive lipid/fluid debris contamination at the bone/bone-cement interface reduces bond strength and may contribute to loosening.

- A peer-reviewed prospective clinical study conducted by R. Michael Meneghini, MD, demonstrated that use of CarboJet results in **greater cement penetration** versus traditional pulsatile saline lavage use alone, even when the CarboJet arm surgery is performed in a completely tourniquetless technique and the non-CarboJet arm technique uses a tourniquet. (Link)

- An in vitro study lead by Prof. John Stanely, MD, from Wrightington Hospital, showed bone preparation with CarboJet versus saline resulted in **significantly greater cement push out strength** in a cadaveric distal radius model. (Link)

- CarboJet is a great **facilitator of tourniquetless TKA** as it is a fast, effective and easy to use means of managing fluid debris to create a dry bone bed for cementation. The tourniquetless technique has been associated with less pain and reduced opioid use, which are important consideration when performing TKA in an outpatient surgery setting.

(Link)

- CarboJet use is viewed by many to be an essential tool for easily achieving a high quality cement mantle in traditional tourniquet enabled knee arthroplasty cases as well. (Link)

- Video of CarboJet in action on both traditional tourniquet and tourniquetless TKA can be viewed at this link.

If you would like additional information, or have not experienced CarboJet and would like to trial it at your hospital, please indicate below. We would be very pleased to work with you to make this unique technology available to you and your patients.

If you are a current CarboJet user and will be moving your cases to a new surgical setting as a result of the Covid-19 situation, please indicate this below so we may coordinate with your local representative to ensure that your use of CarboJet is not interrupted.

Best Regards,

Bob Bruce
VP, Global Marketing

How can we be of futher assistance?

Please contact me to set up a CarboJet trial.	**Select**
My CarboJet surgeries are changing location and I need a set there.	**Select**
Please have my local representative contact me to show system.	**Select**