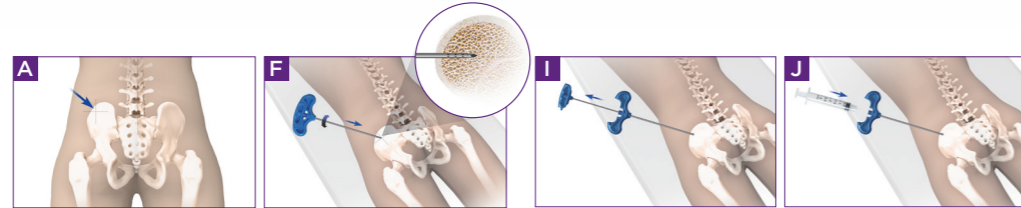
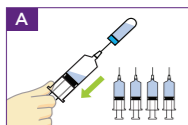


## Instruction for use

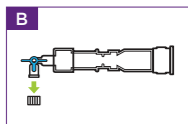


### Bone Marrow Biopsy Needle

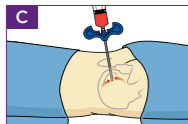
- A. Place the patient, with the back comfortably flexed and the top knee drawn toward the chest.
- B. Locate the posterior superior iliac spine and mark.
- C. Clean the skin with an antiseptic solution
- D. Inject the marked area with local anesthetic to the periosteum.
- E. Make a skin incision with a scalpel blade over the marked area.
- F. Insert the needle (combining Cannula with Sharp stylet) through the incision.
- G. By rotating the needle, Put the needle gently through the periosteum into the cortex.
- H. Remove Sharp stylet by rotating upper section of handle and pulling straight out.
- I. By rotating the Cannula needle, continue putting the Cannula needle forward into the bone marrow cavity. The marrow cavity is generally detected by decreased resistance.
- J. Connect the syringe to Cannula hub.
- K. Apply suction by withdrawing syringe plunger. Remove the syringe collecting the aspirated specimen.
- L. Remove the Cannula from body slowly



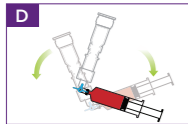
- A. Prepare five 5 ml syringes prefilled with 1ml of anticoagulant. Make sure that anticoagulant is evenly coated on the syringe wall. (Seawon Meditech is not the manufacturer of anticoagulant, but please contact us if it is needed).



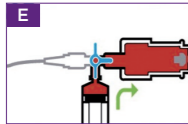
- B. Take the cap out from the 3way valve and it should be kept to cover the bottom of RBC (Red Blood Cell) Chamber.



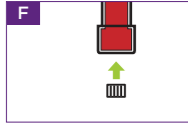
- C. Extract 4ml of bone marrow from patient's body with each 5ml syringe loaded with 1ml anticoagulant using Bone Marrow Biopsy Needle. (Total 20ml of bone marrow and peripheral blood).



- D. Mix the extracted bone marrow with anticoagulant gently to avoid any clot formation in the syringe.



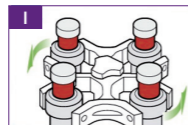
- E. Change the direction of 3-way valve from syringe to the container. Move the blood to the container. Then, 3 way valve should be eliminated.



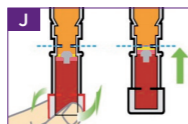
- F. Push the cap to the bottom of RBC (Red Blood Cell) chamber to cover.

- G. Weigh the container filled with blood. The container filled with blood must be counterbalanced with another empty container filled with water directly across from it in the centrifuge. The weights of the matching containers must be within 0.1g to be correctly balanced in the centrifuge.

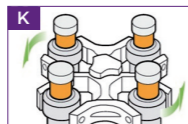
- H. Place the containers (1 with blood and 1 with water) directly across from each other in the centrifuge.



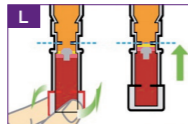
- I. Centrifuge the ABMC container at 3,200 rpm for the first 3 minutes.



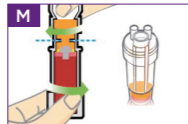
- J. Turn the RBC (Red Blood Cell) chamber cap to adjust RBC (Red Blood Cell) level to the blue line.



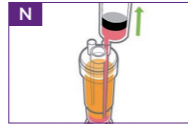
- K. Centrifuge for 3 minutes at 3,200 rpm for the second time.



- L. If buffy coat is below the blue line, turn the RBC (Red Blood Cell) chamber cap to adjust RBC (Red Blood Cell) level to the blue line again. If buffy coat is at the blue line, do not need to adjust the RBC (Red Blood Cell) chamber cap.



- M. Close BMC (Bone Marrow Concentrate) chamber with confirming buffy coat coming into BMC (Bone Marrow Concentrate) chamber.



- N. Extract 1.5ml of BMC (Bone Marrow Concentrate) through the long pipe with syringe.



## ABMC KIT

Autologous Bone Marrow Concentrate Kit

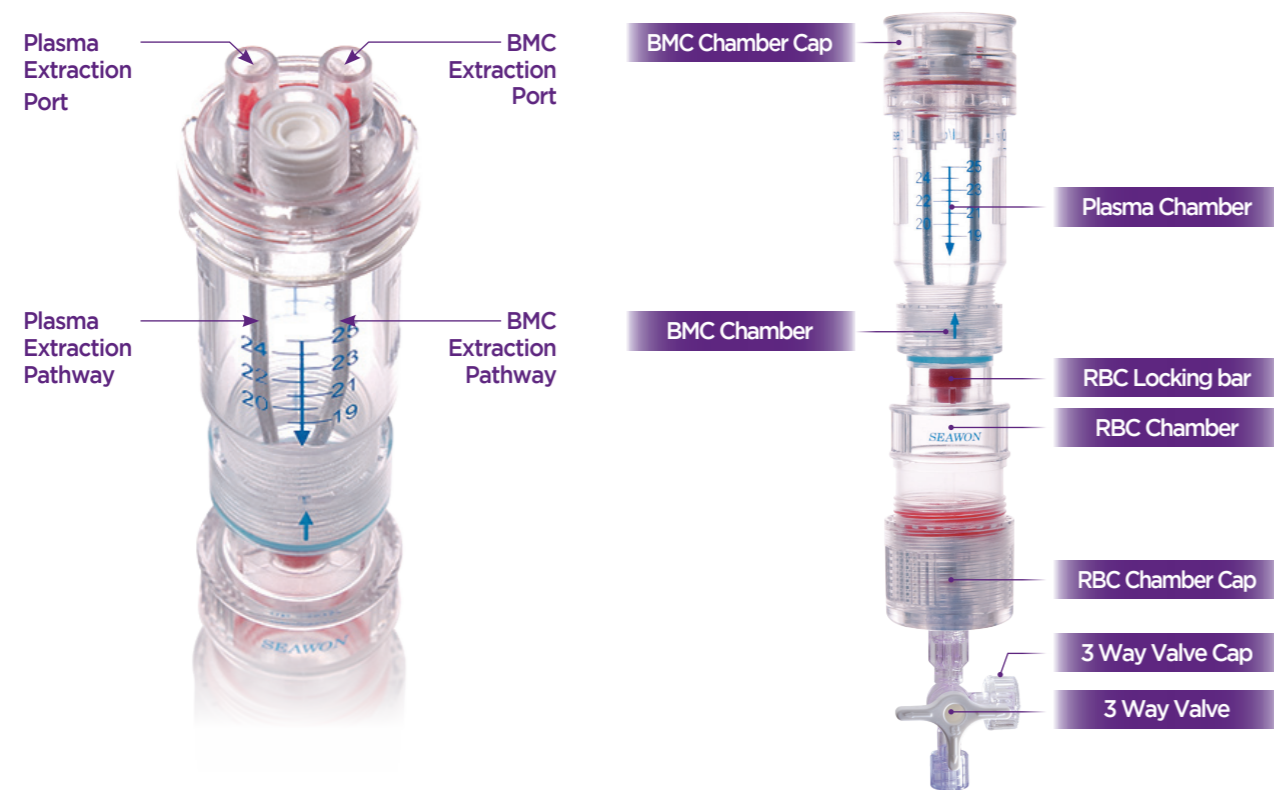
## Recommended Centrifugation Use

ABMC Kit should be used with centrifuge from Vision Scientific (Model: VS-400). Any users or distributors who are intended to purchase this centrifuge, please inform Seawon Meditech prior to contact with Vision Scientific. If there is no pre-agreement or confirmation from Seawon Meditech with this, any adverse event or malfunction from operating ABMC KIT is not responsible for Seawon Meditech. The usage of this centrifuge can be found in operating manual from Vision Scientific.

ABMC Kit is designed for the harvest of autologous nucleated cells from the patient's blood and its intended use is for regenerative medicine procedures. Our single use kit harnesses bone marrow stem cells from the patient which is reinjected back in concentration from to kick start the regenerative process. The whole procedure is autologous technology making it safe for patients of all ages.

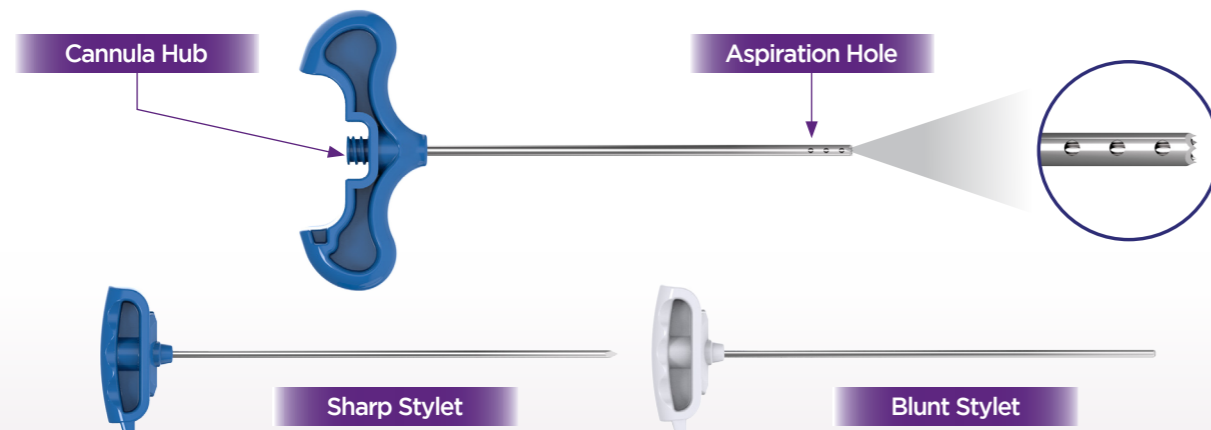
## 1 SW-BMC kit (3-way)

SW-BMC kit is used for the safe and rapid preparation of autologous growth material from small blood or bone marrow at the patient's point of care.



## 2 Bone Marrow Biopsy Needle

Bone Marrow Biopsy Needle intended for the purpose of harvesting bone or bone marrow specimens.



## Advantage

### 1 Closed Structure of One Tubing System

SW-BMC kit which is the closed system, although the air in the treatment room is not in acceptable clean level, it may be still safe because of no open structure.

### 2 One Step Simple Procedure

No blood & No needle assembly required

### 3 Easy Extraction

Easy to collect bone marrow because Bone Marrow Biopsy Needle has a 5 aspiration hole.

### 4 Quick Result

Concentrates cells in less than 15 minutes at point-of-care

### 5 Reduce Risk of Contamination

The ABMC kit disposable design reduces the opportunity for contamination of the final product.

## Contraindication

- History of Metastatic Conditions like Cancer or Disease (Hematopoietic cancer or cancer of the bone marrow)
- Possibility of Infections in the Areas Targeted for PRP therapy
- Systemic disease
- Pregnancy or Breastfeeding
- Anticoagulant Prescription Medications or Antiplatelet Therapy
- Incidence of a Recent Fever or Illness
- Incidence of Smoking or Drinking
- Corticosteroid Injections and NSAIDS
- History of Severe Liver Disease
- Critical Thrombocytopenia
- Regular nonsteroidal anti-inflammatory drug use within 48 hours
- Severe Anemia

## Components Description

	Model Name	Component Article Name	
1	ABMC Kit / SW-ABMC Kit(3-way)	SW-BMC kit (3-way)	SWBMN13H11
2	SW-BMC Kit	SW-BMC Kit	