

# How to Perform a UVBI

The purpose of this document is to walk you through, step by step, on how to do a UVBI Therapy.

## Prepare Your Cuvette

The cuvette comes with extra length of tubing. We must adjust these to the appropriate length.

1. Open the cuvette and cut off the extra length of tubing to allow around 3 inches of tubing to extend off of the cuvette.
2. Insert mini spike into the remaining tubing.
3. Insert new sized cuvette into small sterile pouch. Label with Last name first, then Patient name. The cuvette will be cleansed and saved for future use.



# How to Perform a UVBI

## Prepare Your Work Area

- Insert the Cuvette into the UVBI Machine.
- Place the green disposable drape under/next to machine to catch blood droplets.
- Pull 2 appropriate sized syringes for the procedure. (35cc or 60cc)



# How to Perform a UVBI

## Syringes and BiOcean

Draw up BiOcean into a 3cc syringe and inject it into one of your larger syringes with saline ozone.

\*For Cardiac or Kidney issues, use the Isotonic at the doses specified.

### BiOcean Hypertonic OR Isotonic for Cardiac and/or Kidney issues

Body Weight	BiOcean Hypertonic	BiOcean Isotonic
10-30 lbs	½cc	¼cc
40-70 lbs	1cc	½cc
80+ lbs	1 ½cc	¾cc



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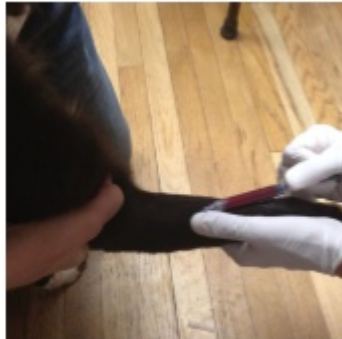
## Drawing Blood

Depending on clotting factors, there are a few different ways to draw the blood.

1. Heparin Method: Draw heparin into a syringe, and then draw the blood into that syringe.
2. ACD Method: Draw ACD solution into a syringe, and then draw the blood into that syringe. (1cc ACD/10cc of blood)
3. Geneva Method: Draw ozonated saline into one of the large syringes, and then draw blood into the large syringe with the ozone. Gently roll the syringe back and forth as you fill it with blood..

**Heparin vs ACD**

Body Weight	Heparin	ACD 1cc/10cc blood
5-20 lbs	Trace	1/2cc-2cc
30-50 lbs	1/5cc	3cc-5cc
50-80 lbs	1/4cc	5cc-8cc
80+ lbs	1/2cc	8cc +



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## Dilute Blood with Ozonated NaCl

- Add ozonated NaCl to the syringe with Biocean.
- Dilute blood and heparin into syringe with ozone and BiOcean and mix thoroughly.
- NOTE: If you used the Geneva method, you do not need to dilute again.

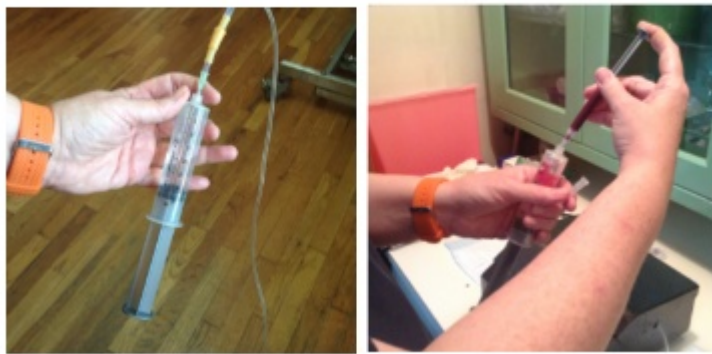
### **Blood**

1-2cc per 10lbs of body weight

### **Ozonated Saline**

10cc NaCl per 1cc of blood

Body Weight	Blood	Ozonated Saline
10-20 lbs	1 -2cc min	10-20cc
	2-4cc max	20-40cc
30-50 lbs	3-5cc min	30-50cc
	6-10cc max	60-100cc
50-80 lbs	5-8cc	50-80cc
	10-16cc	100-160cc



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## Clean the Cuvette with Ozone Gas

- Fill another syringe (same size as other syringe) with 20cc of ozone gas.
- Attach syringe to quartz catheter and push through, leaving enough gas in the syringe to equal the amount of blood you drew. (eg. If you took 6cc of blood, leave 6cc of ozone gas in the syringe.)

This will sterilize the cuvette, but also add a little extra ozone to be mixed with the blood.



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## Attaching the Syringe to the Catheter

Attach syringe with solution to other side of quartz catheter leaving 3-5cc of air in syringe.



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## Run the Blood Back Through the Machine

Pass solution through quartz catheter 6 times. (If you hold the syringe straight up when pushing blood through catheter, and the empty syringe at a downward angle, you get less air bubbles.)





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## Injecting the Solution Back into the Vein

- Insert IV Butterfly Catheter with ozone flush.
- Attach UV Blood solution and inject into vein. No need to give slowly. Careful not to push any air bubbles into vein.
- Flush again with ozonated NaCl.

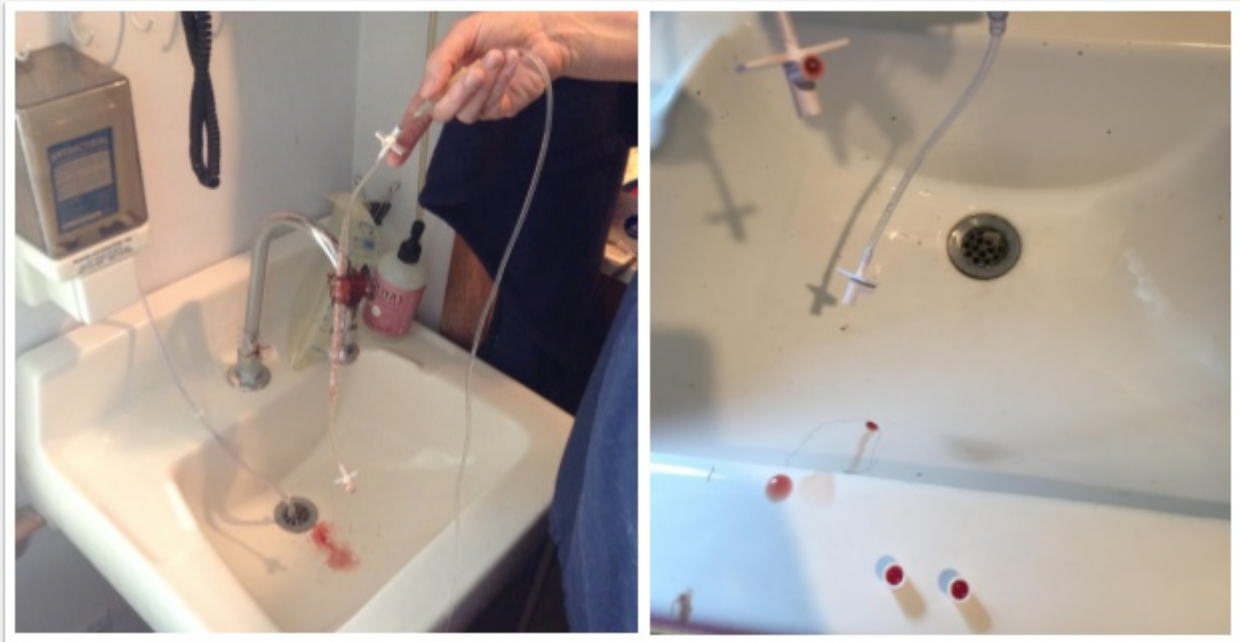


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## Clean up

Rinse UV Cuvette thoroughly with ozonated NaCl for sterility. Take off the stoppers and rinse as well. Check for blood clots.

Spray down sink and UVBI area and clean thoroughly.



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## Vitamin Injections

Vitamin B-Complex and Vitamin C are given to remove the free radicals released from the body.

This is given SubQ after the treatments. This does tend to sting, like a bee sting, so we like to give it last so they can leave afterward.

**Vitamin B-Complex and Vitamin C  
(Mix together to reduce the stinging)**

Body Weight	Vitamin B-Complex	Vitamin C
10-20 lbs	1/4cc	1/2 cc
30-40 lbs	1/2cc	1cc
50-60lbs	3/4cc	1 1/2 cc
70-80lbs	1cc	2 cc
80+lbs	1 1/4 cc	3 cc

If animal is anemic, give higher dose of b-complex.  
If animal is sensitive to the vitamins, give less.