

DIRECTIONS FOR TREATMENT
and
INSTRUCTIONS FOR OPERATING

The Branston
VIOLET RAY
HIGH FREQUENCY
GENERATOR
AND
Ozone and Sinusoidal Controller

FIFTH EDITION

CHAS. A. BRANSTON LIMITED

Offices and Factory:

355 Yonge Street . . . Toronto

Instructions for Operating

READ CAREFULLY

Connect the attachment plug to a lamp socket and then turn on the current at the lamp base; or, the plug may be inserted into the wall receptacle socket if preferable. If the vibrator does not at once begin to operate, turn the controlling knob to the right slowly until the effect is obtained. Then, should the current not come through to the electrode, hold the glass bulb in the hand for a moment or two. The warmth of the hand breaks down the vacuum in the tube, permitting the current to flow through. Adjust the controlling knob right or left to obtain the desired strength of current. Right increases and left decreases strength of current. This controlling knob is not a switch and does not shut off the current, but is simply to regulate the amount of current delivered by the Generator. As soon as through using be sure and turn off the current at lamp socket or receptacle. Models 9, 5B, 7 and 25 will operate on either direct or alternating current, and on any voltage from 100 up to 120. The Sinusoidal current, as given by our Models 27 and 29, is only obtained from our Generators when they are connected with alternating current of 100 to 120 volt. If they are connected to direct current, the Sinusoidal controller will deliver a true Galvanic current. This can be regulated to any desired strength, and is used principally for electrolysis, for removing superfluous hair, and for any treatment where galvanic current is indicated.

Generators are also made, when ordered, for operating on voltages from 120 to 250, direct or alternating, also on 32 volt lighting system. Do not permit Generator to run without an Electrode being in the handle and the current drawn from the Electrode. Otherwise the current is converted into heat and eventually will heat the handle.

If electrodes become loose in handle, unscrew end of handle and withdraw coil carefully, and remove electrode socket.

To remove the brass spring electrode socket, take a long screwdriver and remove screw at the bottom of large opening, and the ferrule will easily drop out of the electrode end. This can be replaced by reversing the operation after pressing prongs together.

If electrode breaks in handle, use same method for removing the end. This sometimes can be accomplished with pointed end of a file, the point being bent at right angles about one-eighth of an inch. This grips the plaster of paris and you can then easily draw end out.

If Generator makes a loud rattling noise and no current is received in the electrode, examine the cord connecting the electrode handle which will usually be found broken. To repair (if near handle), remove the end cap, withdraw coil, release screws holding

cord, cut cord a little above broken wire, strip the new end three-quarters of an inch, and connect as previously found.

Never place electrodes on cold surface after using. The glass is warm and will crack if chilled too suddenly.

The Generators Need No Oil.

If the machine does not operate after following these instructions, *Return to Factory*, charges prepaid, for examination.

To obviate any unpleasant sensation when first making contact with a patient, the operator should hold the thumb or forefinger on the electrode, thereby taking the current until contact has been made. As soon as the electrode is in contact remove the thumb or finger so that the patient will receive the full flow of current. This method will be found especially desirable in treating the throat or teeth, nose, or ear, as well as in rectal and vaginal work.

In treating with No. 2, metal electrode, let the patient clasp it in his hand before the current is turned on so that there will be no unpleasant sensation. The current should be weak at first and gradually increased to the desired strength. The operator's fingers should then be run very lightly over the scalp and forehead and through the hair or over parts to be treated, the finger ends barely touching, so as to draw the current through the part treated.

CAUTION

1. In massage and scalp treatments do not use a liniment or hair tonic containing over 40 per cent. of alcohol.

2. Although the spark from the vacuum tube is germicidal in character, yet ordinary sanitary rules should be followed in the care of electrodes.

3. Never insert or remove an electrode from any orifice of the body while the current is turned on.

4. Make it a general rule to never allow a vacuum tube to remain in contact with mucous membrane for more than *seven* minutes at one treatment.

5. When introducing electrodes No. 17 or 18 into the urethra, care should be taken not to use any undue force and thereby break off the glass tube in the canal.

6. Electrodes Nos. 11, 12, 14, 15, 17, 18 should be lubricated with Lubra-Septol before being introduced into the body.

7. Any electrical device should be kept clean and dry. It should never be used where there is any danger of its becoming wet or handled with wet hands. *Never use or handle any electrical device when any part of the body is immersed in water or wet, and when any part of the body is in contact with metallic connections. Never attempt to use the current for electric baths.*

Any deviation from this rule is likely to result in damage to the instrument and may lead to an unpleasant, or in rare instances, even a severe electrical shock to the operator.

8. *When holding metal electrode with one hand never let the other hand, or any part of the body, come in contact with water, radiator, or gas pipes, or with the metal parts on top of Generator.*

PREPARATION OF THE PATIENT

When the surface of the body is to be treated, if no spark is desired, the electrode must be in contact with the skin, and any clothing covering the part must be removed.

All metal, such as chains, corset steels, wire hair pins, etc., with which the tube comes in contact or within sparking distance, will be charged by the current and will give rise to sharp and disagreeable sensations. If they cannot be avoided they should be removed.

Aside from the reason spoken of above, when a sharp spark is required there is no necessity of removing the clothing, in fact a definite thickness of clothing gives a definite length of spark.

When the electrode sticks to the skin, dust with talcum powder.

GENERAL TECHNIQUE IN SKIN DISEASES AND LESIONS

In applying the high frequency spark over the surface of the body (as in Acne, Eczema, etc.), employ a current of sufficient strength to produce a spark one-quarter of an inch in length. Keep the tube in light contact with the skin and pass rapidly back and forth over the area to be treated. If the skin is moist, and the tube sticks, dust with talcum powder. Another method is to place a thin cloth over the surface, which will enable the tube to be moved smoothly and at the same time does not remove it far enough from the surface to make an unpleasant spark.

When itching is marked, the tube is raised from the skin, and as sharp a spark employed as the patient will tolerate for a short period of time. This quickly relieves the itching.

In treating lupus or any chronic ulcers, a spark is employed in the same manner, that is, as sharp as the patient can stand, but for not longer than two or three minutes at one time.

TECHNIQUE FOR RELIEF OF PAIN

In headaches and neuralgia and other painful conditions, the No. 1 surface electrode is applied over the affected parts and relief can be had in five to twenty minutes, depending on how severe the pain may be.

ORIFICIAL TECHNIQUE

The technique of the application to the orifices of the body involves the use of tubes suited to the various areas, and also increases the question of sterilization and lubrication. In these cases the tube is in contact with the mucous membrane and no sensation is felt except that of warmth. To avoid any danger of burns the tube should not be left in contact for longer than seven minutes

at any one treatment. Tubes should always be inserted before the current is turned on, and turned off again before the tube is removed. Lubricate tube with Lubra-Septol.

LOCAL AUTO-CONDENSATION

The "Plate Glass" method. Various methods have been devised for applying local Auto-Condensation locally over small areas. A very popular way known as the "Plate Glass" method consists in using the No. 2 metal handle and applying the sparks through thick plate glass held in contact with the patient's body. The glass is the di-electric, the metal handle corresponds to one plate of a condenser and the surface of the body next to the glass, to the other. This treatment will be found very effective for lowering high blood pressure.



CAUTERIZATION

If a hot spark is held steadily over the spot from thirty seconds up to two or three minutes, varying with the patient, it will have a cauterizing effect. The reaction is severe and the destruction of tissue may be carried to a marked degree. Such applications are used in the treatment of warts, moles, etc.

SUMMARY OF VACUUM TUBE EFFECTS

A mild contact with tube in contact is sedative. As the current is increased or the electrode raised from the surface, allowing a spark to pass, it becomes first stimulating, then strongly stimulating and finally caustic and destructive. The effects of the tube application are as follows:

1. Increases blood supply to given area.
2. Increases oxidation and local nutrition.
3. Increases amount of oxygen in the blood.
4. Increases output of carbon dioxide.
5. Increases secretion and elimination of waste products.
6. Liberates ozone.
7. Increases bodily heat without corresponding rise in temperature.
8. Locally germicidal.

Directions for Use of Electrodes

NO. 1. SURFACE ELECTRODE.

The Surface Electrode, as its name indicates, is used for treating the face and the entire surface of the body. Move the Surface Electrode slowly over the face in order to increase the circulation in the skin and improve the complexion. Wherever this electrode is applied it improves the surface or capillary circulation, and so promotes nutrition that hollow places in the face and body are filled up. The Surface Electrode is moved slowly over the entire body to increase circulation, overcome cold extremities, and to give a general tonic treatment. See directions for Ground Electrode.



To produce stimulating effects, which increase the circulation to the parts treated and relieve pains and sore or stiff muscles, apply Surface Electrode over thin underclothing. Keep the electrode moving so that the slight prickling sensation will not be disagreeable.

An extra Surface Electrode should be kept on hand in case one should become broken or the vacuum exhausted. The length of the life of a vacuum tube is variable, like that of the electric light bulb. We cannot guarantee vacuum electrodes for any length of time. We manufacture the highest grade vacuum tubes that can be made, and test all tubes before sending them out; then, having provided our customers with the best that the market affords, our responsibility ends. Electrodes should never be laid on a cool surface while warm, as sudden expansion or contraction may exhaust the vacuum. Lay on soft cloth.

NO. 2 METAL ELECTRODE.

When this electrode is held in the hand the entire body is rapidly saturated with high frequency electricity and very invigorating effects are produced. Masseurs have patients hold this electrode while they manipulate the various parts of the body, and thus they are able to draw the current wherever their hands are in contact with the flesh. In order to obviate disturbing sparks, do not turn on the current until the hand covers the electrode. *When holding metal electrode with one hand never let another part of the body come in contact with*

water, radiator or gas pipes, or with any metal part on top of the generator.

NO. 4 RAKE COMB ELECTRODE.

The Comb Electrode in the form of a rake is used to bring the Violet Rays in close contact with the scalp and to make several points of contact at one time. Violet Rays thus applied destroy any germs at the roots of the hair and so increase the circulation, through the scalp, that nutrient hair building material is brought to the hair roots and any local cause for dandruff or falling hair is overcome.

NO. 5 EXTERNAL THROAT ELECTRODE.

When it is applied to the skin on the outside of the throat the current flows inward, increases the circulation and carries away any waste matter, thus eliminating any congestion in the throat.

The shape of this Electrode makes it especially adaptable for treating the arms and legs.

NO. 6-7. INTERNAL THROAT ELECTRODES.

Place this electrode in touch with the mucous lining of the mouth before turning on the current, then move it slowly over the affected area, or as near it as possible. Another person can place his hand on the back of the neck while the Violet Rays are being applied to the throat internally, and his hand will draw the current out at the point of contact so that the current will be made to flow in a direct line from where the electrode is applied to where the hand of another person is applied, thus flowing through an affected area. If the Throat Electrode is applied to the base of the tongue and another person's hand is applied to the front of the throat or over the bronchial tubes, the current will be drawn through these parts.

After placing the electrode in the mouth in contact with the mucous membrane and turning on the current, do not lift the electrode away from the mucous lining until the current has been turned off, as a sharp spark will produce a stinging sensation which will be disagreeable.

NO. 8-9-10. NASAL AND EAR ELECTRODES.

The Nasal and Ear Electrode is applied to the mucous membrane of the nose, five minutes at a time, to give internal treatments for Nasal Catarrh, colds or growths in the nose. The current should not be turned on until the electrode is in contact with the moist mucous membrane surface, so as to obviate any disagreeable spark. Used as an Ear Electrode, it is inserted in the ear against one side of the canal, but not deep enough to touch the ear drum. All troubles of the ear, such as catarrhal deafness, earache and chronic middle ear affections, are benefited by the Violet Ray treatments through the ear electrode.

NO. 11-12. VAGINAL ELECTRODES.

This Electrode is used in all catarrhal conditions of the uterus

and vagina. First lubricate with Lubra-Septol and do not turn the current on until the electrode has been inserted into the vagina. This treatment gives relief in the case of neuralgia of the uterus or ovaries, inflammation of the bladder, and in cases of delayed or painful menstruation. Use a medium current and do not apply the current to any internal organ for longer than seven minutes at a time. The No. 11 Vaginal Electrode is insulated with an air grip along the sides so that the current flows to the end of the electrode and no sparks are formed along the sides.

NO. 14-15. RECTAL ELECTRODES.

The Rectal Electrode is used in treating stricture, hemorrhoids, piles, rectal abscesses and all catarrhal conditions of the intestines. Treatments through the rectum are very beneficial in diseases of the bladder and in prostatic troubles. The rectal electrode should be lubricated with Lubra-Septol and the current not turned on until the electrode has been inserted. Turn off current before the electrode is withdrawn so as not to spark affected parts.

NO. 17-18. URETHRAL ELECTRODES.

The Urethral Electrode is used for all inflamed catarrhal conditions of the urethral canal. It is lubricated and inserted before the current is turned on, and the current is turned off before withdrawing it so as to obviate any disagreeable spark. This treatment is very effective in stricture. The posterior urethra may be reduced almost as thoroughly and with much less pain by introducing a rectal electrode into the rectum. Never treat an internal organ more than seven minutes at a time. Care must be taken not to use any undue force and thereby break off the glass tube in the canal.

NO. 20. SPINAL ELECTRODE.

The Spinal Electrode has two points of contact and is made especially for treating both sides of the spine at once. The application of this electrode to the spine produces a very invigorating effect upon the entire nervous system. The electrode is convenient to use around the eyes and ears as its peculiar shape enables it to fit in hollow places.

NO. 21. FULGURATION ELECTRODE.

Is used to remove warts, moles, or to cauterize any skin surface. It is an electrode ending with a metal point so as to generate a spark from the Violet Rays. By adjusting the parts of the electrode, a long or short spark can be developed. Care must be taken in burning warts and moles not to burn too deeply. A very few sparks will whiten the skin and this skin will come off in a few days, leaving a healthy skin surface. After cauterizing apply the surface electrode

in close contact with the cauterized spot in order to relieve the burning sensation.

NO. 22-23. EYE ELECTRODES.

The Eye Electrode is for treating the eyes through the eye-lids. This is used freely in all eye diseases with a medium current. If any disagreeable sensation is produced the current can be made very light by holding the hand around the stock of the electrode while the end is in contact with the eyelid. The double eye electrode, No. 23, treats both eyes at once.

This electrode can also be used for spinal applications.

NO. 24. CONDENSER ELECTRODE.

Condenses the current near the surface of the glass so as to produce considerable heat, which is very desirable in deep-seated diseases and in all chronic cases. It carries the current very deep into the tissues and gives almost immediate relief in painful and rheumatic affections.

NO. 25. CATAPHORIC ELECTRODE.

The Cataphoric Electrode is similar to No. 24 Electrode, except that there is a depression on the face of the tube for holding gauze wet in solution. The solution may be driven into the tissue. Do not use any solution containing over 40 per cent. alcohol.

NO. 26. SPIRAL ELECTRODE.

The Spiral Electrode is used the same as No. 1 Surface, but is larger and covers a larger surface, and is especially recommended for body treatment.

NO. 30. OZONE GENERATOR.

In this electrode the virtues of the Violet Ray are combined with the virtues of ozone and the pine-laden air of the North woods. Those who cannot go to the pine woods for relief of Hay Fever, Lung and



Showing how body should be bent forward so as to tighten painful muscles for treatment of lumbago.

Bronchial troubles can inhale the ozonized pine fumes from the Generator with equally beneficial results. The ozone invigorates the blood and exhilarates the entire body while the pine odors soothe and quiet the nerves of the nose and bronchial tubes. Numerous cases of Hay Fever, Asthma and Lung Trouble have been relieved or cured by the use of our Ozone Generator. In cases of Hay Fever the treatment should begin several weeks before the time of the Hay Fever attack.

A few drops of the inhalent are placed in the receptacle at the top of the Ozone Generator and then the cork and nose piece are fitted into place. This electrode fits into the handle of the Generator, the same as any other electrode.

While inhaling the ozone, sit down and rest the handle of the Violet Ray Generator on the lap to prevent its dropping, hold the left hand round the neck of the glass below the part containing the inhalent. This will draw the current into the hand through the glass, warm the container and fill the upper receptacle with white vapor. Insert in the nostrils the small tube at the top and breathe deeply, at the same time agitating the rubber bulb so as to force the ozonized pine fumes into the nostrils. With the double inhaler both nostrils can be supplied with the fragrant ozone at the same time. Our Ozone Combination Models Nos. 25 and 29 are specially recommended.

NO. 35. PYORRHEA ELECTRODE.

The Pyorrhoea Electrode is applied directly to the gums for all conditions of weak or receding gums or for Riggs' disease; then turn on the current and move the electrode over the surface of the gums, keeping it in contact so as not to produce a spark. Turn off the current before withdrawing the electrode from the mouth so as not to spark the mucous membrane. This electrode drives ozone into the gums and neutralizes any acid condition of the tissues and also increases the circulation in all the tissues, with the result that all weaknesses and diseases of the gums are rapidly overcome. Most remarkable cures in very severe cases have been reported after using this electrode. Be careful not to touch metal fillings in the teeth, as this will produce a slight spark.

NO. 36. ROLLER VACUUM ELECTRODE.

The Roller Vacuum Electrode, as its name implies, is a glass roller for general body treatment, used similarly to No. 1 Surface, but covers the body far more quickly. It is especially recommended for general tonic treatments.

NO. 37. SPECIAL GROUND ELECTRODE.

This is a sponge applicator, handle, and cord, used to draw the current out of the body at some particular point where the action of the current is especially needed. The end of the wire is connected

with a large body of metal, such as a stove or metal bed, and the sponge, after being dampened in salt water, is applied to surface of the body. The best effects are realized by connecting the end of the wire with a fine wire, which in turn is wrapped around a nail or other piece of metal and dropped to the earth. This connects the body with the earth current, which of itself has some beneficial effects upon the human organism. When the Vaginal Electrode is giving the current from the Violet Ray Generator the sponge can be applied over the ovaries or over any other painful spot in order to draw the current through the body at that place. The surface electrode can be applied to any place on the back and the sponge of the Ground Electrode to the skin on the opposite side of the body and the Violet Rays can be carried directly through any painful area or any diseased organ.

Do not use this Ground Electrode with the earth or water or gas pipes while using the metal Electrode No. 2. Use the Ground with a vacuum tube Electrode only.

Directions for Treatment

VIOLET RAY HIGH FREQUENCY



The electrode handle should always be held as shown, with the hand as near as possible to the end where the cord enters the handle. As it is impossible to absolutely insulate the High Frequency Current, this way of holding the handle prevents the current from being partially drawn through the hand away from the glass Electrode.

VIOLET RAY HIGH FREQUENCY DIRECTIONS

SPECIAL ATTENTION. In order to obtain the best results with the Branston Generator the treatments must be taken regularly according to directions. Do not discontinue the treatments when you have obtained relief—keep them up for a longer period and effect a permanent cure.

VIOLET RAY HIGH FREQUENCY DIRECTIONS

Abscess. Use Electrode No. 1 with strong current in close contact with skin once or twice daily.

Acne Vulgaris (Pimples). No. 1 Electrode with medium current five minutes twice daily. Keep Electrode in close contact with skin.

Adhesions. No. 1 Surface or No. 24 Condenser Electrode with current sufficient to produce half-inch sparks held in loose contact with the abdominal wall seven to ten minutes.

Alcoholism. No. 1 Electrode over spine, solar plexus, and to the extremities. If blood pressure is high, use Auto-Condensation on spine.

Alopecia (Falling Hair). No. 4 Electrode used over scalp five to ten minutes daily.

Anemia. Auto-Condensation and use of Ozone Generator is advised.

Appendicitis. No. 1 or No. 24 Electrode with medium current kept moving in contact with the skin over region of appendix.

Arteriosclerosis (High Blood Pressure). Auto-Condensation at least three times per week until results are obtained. Must be continued for forty or fifty treatments (see Eberhart's Manual, page 175, also Technique for Auto-Condensation on page 5).

Asthma. No. 1 Electrode used over chest allowing sparks to pass through underwear. Daily treatments of ten minutes' duration, also use Ozone Generator for ozone inhalations five minutes each day.

Atonic Dilation of the Stomach. In this we have complete relaxation of the motor fibres of the stomach. Use No. 1 Electrode over stomach for five minutes daily, followed by Auto-Condensation (plate glass method) for ten minutes. *Sinusoidal Current* is also advised.

Atrophy of the Optic Nerve. No. 22-23 Electrode used daily for five minutes in close contact with the eyelid, also at base of skull.

Baldness (see Alopecia).

Blepharitis (Granular Eyelids). No. 22 Electrode with very mild current held in loose contact with the eyelid two or three minutes twice daily.

Boils. Use mild spark from No. 1 Electrode over affected area five to ten minutes daily. No. 21 Electrode with sharp spark for a few seconds is also advisable. This frequently aborts a boil if used in the early stages.

Brain Fog. If blood pressure is high use Auto-Condensation applied daily, also No. 1 Electrode with medium current applied on forehead over eyes and back of ears and neck. If blood pressure is low apply sharp sparks to spine four or five minutes and over abdominal region for three minutes and over forehead and neck as

VIOLET RAY HIGH FREQUENCY DIRECTIONS

above. Ozone inhalations, using Ozone Generator also desirable, five minutes daily.

Bronchial Asthma (see Asthma).

Bronchitis. Sharp sparks, using No. 1 Electrode applied over chest and back, may be repeated every four hours until congestion is relieved. Auto-Condensation and Ozone inhalations are also advised.

Callouses. Callosities of all kinds, including corns, are treated by application of sharp sparks, using No. 21 and Surface Electrode.

Carbuncle. Use No. 1 Electrode with medium current held close to the skin and moved over affected parts.

Chronic Ulcers. Use a sharp spark from No. 1 Electrode to get a stimulating effect, afterwards treat through two or three layers of gauze with tube in close contact, medium current.

Cold Extremities. High Frequency is an ideal treatment for this condition. Use No. 1 Electrode over extremities, in loose contact, till the skin becomes red. Treatments over spine and abdomen also advised daily.

Colitis (Inflammation of Colon). No. 1 Electrode with strong current passed lightly over bowel area or through underwear. Duration, fifteen minutes daily until relieved, and then three times weekly.

Constipation. Use as for Colitis, but keep in close contact with the skin. Use daily. Auto-Condensation and Sinusoidal Current also advised.

Convalescence. In convalescence Auto-Condensation and a general body massage with No. 1, 26 or 36 Electrodes has splendid tonic effects.

Corns (see Callouses).

Coughs. Speedy relief may be obtained by rubbing hot camphorated oil on chest and throat and then applying the surface electrode on same parts for about ten minutes. This is especially effective for children when usual remedies have failed.

Cystitis (Inflammation of the Bladder). No. 11 or 12 Electrode used daily for seven minutes at first, then every other day.

Dandruff. For any seborrheic condition use No. 1 or 4 Electrode with medium current kept in close contact with the surface twice daily.

Dyspepsia (see Atonic Dilation of the Stomach). The general tonic effect of ozone inhalations are also advisable as given by Combination Models No. 25 and No. 29, or No. 30 Ozone Generator.

Earache. Use Electrodes No. 8 or 9, with mild current, also No. 1 Electrode back of ear or mastoid three to seven minutes.

Eczema (see Technique for Skin Diseases).

Eye Diseases. High Frequency Current is especially valuable in all eye diseases. Use No. 22 or 23 Electrodes with mild current five minutes daily, also at base of skull.

VIOLET RAY HIGH FREQUENCY DIRECTIONS

Flabby Breasts. It is claimed by Dr. Monell that a stimulating application with vacuum Electrode to the relaxed nipple of the flabby breast will immediately show its beneficial effect.

Gastritis (see Atonic Dilation of Stomach).

Glaucoma. Use Auto-Condensation to lower blood pressure, also No. 22 or 23 Electrode over closed eye for five minutes daily.

Goitre. Use No. 1 Electrode or No. 24 Electrode with strong current kept in loose contact with the skin. Treat the sides of the neck as well as the goitre for five minutes. Then raise the tube and use as sharp a spark as the patient can stand for three minutes. Treat twice daily. In Exophthalmic Goitre the results are quicker than in simple goitre. Use until results are obtained. Numerous cures have been reported.

Gout. Auto-Condensation is the treatment. Do not use during a severe attack.

Gray Hair. Use No. 4 Electrode three to four times weekly. This takes a long treatment to obtain results.

Grippe (Influenza). Tonic spark to spine and solar plexus, using No. 1 Electrode. Ozone inhalations are also beneficial, using No. 30 Ozone Generator or Ozone Combination Models Nos. 25 or 29.

Hay Fever. Use No. 8 Electrode and No. 1 Electrode over nose and upper part of spine. Ozone inhalations are of even greater importance. Use No. 30 Ozone Generator or Ozone Combination Models.

Headaches. Use No. 1 Electrode over forehead, back of ears and back of neck until relieved.

Hemorrhoids (Piles). Use No. 14 or 15 Electrodes not longer than seven minutes at one treatment with mild current. See Orificial Technique.

Hypertension (High Blood Pressure). See Local Auto-Condensation.

Hypotension (Low Blood Pressure). Use sharp, stimulating sparks to spine and solar plexus.

Impotence. Use No. 1 Electrode with medium current over genitals and bladder region or lower half of spine. Use stimulating sparks on spine, ten minute treatment daily.

Infantile Paralysis. Daily application of stimulating sparks to spine and over all paralyzed muscles. Auto-Condensation is also advisable as well as vibratory massage. Sinusoidal Current is recommended.

Insomnia (Sleeplessness). There are few cases that cannot be cured. Use No. 1 Electrode on spine, back of neck and ears and on forehead. Use daily for fifteen minutes, preferably before retiring. Also hold No. 2 Metal Electrode for ten to fifteen minutes before retiring.

VIOLET RAY HIGH FREQUENCY DIRECTIONS

Intestinal Indigestion (see Atonic Dilation of the Stomach). The Sinusoidal Current is also beneficial. The diet should be regulated.

Laryngitis. Apply No. 1 or 5 Electrode to the throat externally five or ten minutes daily in loose contact. Ozone inhalations are also advisable.

Leucorrhoea. Use No. 11 or 12 Electrode daily in connection with antiseptic douches.

Locomotor Ataxia. Use sharp spark along spine, over buttocks, abdomen and joints, followed by Auto-Condensation. Daily treatments at first; later, three treatments weekly. The Sinusoidal Current should also be used.

Lumbago. Use strong current with Electrode No. 1 or No. 24 over the central lumbar region, with muscles on the stretch. Use sharp sparks. Immediate relief follows.

Moles, Moth Patches. Fulguration is the method used for moles, warts, etc. Avoid destroying too much tissue. Use No. 21 Electrode.

Nasal Catarrh. Use No. 8 Electrode with mild current three to four minutes on each side. Ozone treatments with No. 30 Ozone Generator or Models 25 and 29, are of the greatest importance.



Neurasthenia. General treatment with No. 1 Electrode. If blood pressure is high use Auto-Condensation; if low, use tonic sparks to spine. Ozone is a desirable adjunct. See directions on Sinusoidal Current.

Neuralgia. Use No. 1 Electrode with medium current over painful area in light contact with skin. Treatment is the same for all varieties.

Neuritis. In Neuritis we have an inflamed condition of a nerve, the pain simulating that of Rheumatism or Neuralgia. High Frequency Current

is curative in all cases. Use No. 1 Electrode over affected area with a mild sedative current in close contact with the skin. Sparks must not be used. Use once or twice daily if necessary, fifteen minutes for each treatment; continue until cured.

Obesity. Auto-Condensation is indicated, apply locally. Superfluous fat is a result of imperfect metabolism.

Paralysis. Use No. 1 or No. 24 Electrode along the course of the paralyzed nerves and muscles, from the spine to the affected part, part of the time in close contact and part of the time raised to get a spark. Sinusoidal Current is also valuable.

VIOLET RAY HIGH FREQUENCY DIRECTIONS

Pelvic Abscess. Use No. 11 or 12 Electrode seven minutes twice daily. Also No. 1 Electrode externally over pelvic region with mild current.

Pleurisy. Treat through a layer of clothing with medium current over front and back until marked reddening is produced. Twice daily if necessary. Ozone treatments are also advisable.

Post Fracture Conditions. No. 1 Electrode used over affected parts helps to restore a normal condition.

Post Operative Conditions. Same as above, and Auto-Condensation is also valuable.

Prostatic Diseases. Dr. Eberhart says he has cured over 90 per cent. of these cases. Use No. 14 or 15 Electrode seven minutes daily, mild current. See Orificial Technique.

Puritis (Itching). This is relieved by using mild sparks over area.

Pyorrhoea (Riggs Disease). Use No. 35 Electrode, seven minute treatments daily, with tube in close contact with the gums. Solution may be applied to the gums and the current applied afterwards. One to two treatments weekly. See Eberhart's Dental Technique.

Rheumatism. High Frequency Currents are of exceptional value in this disease. Use No. 1 or 24 or 25 Electrode in loose contact with the skin over affected area until relief is obtained. Use twice daily if necessary, and until cured.

Sciatica. Apply as above along the course of the nerve and to lower part of spine. Ten to fifteen minutes daily.

Skin Diseases. See Technique on Skin Diseases.

Sprains. Use No. 1 Electrode with moderate current in light contact and rub gently over sprain. Repeat in two or three hours if necessary.

Sore Throat. See Laryngitis.

Stiff Neck. See Rheumatism.

Tic Douloureux. This has been successfully treated by High Frequency Current. Prolonged applications with No. 1 Electrode with medium current over the course of the nerve. Do not spark. Use in close contact.

Tonsillitis. See Laryngitis.

Tuberculosis (Pulmonary). Use Auto-Condensation. Ozone inhalations ten minutes daily are especially effective and should be used frequently.

Varicose Ulcers. Long, thick, muscle-toning spark over the affected limb, on the spinal centres and on the general muscle masses of the body are indicated. Use No. 1 or 24 Electrode.

Writers' Cramp. Use No. 1 Electrode with medium current applied in light contact from finger tips to and including shoulder area and upper spinal centres.

OZONE

PRODUCTION. Whenever an electric spark passes through the air ozone is liberated. Ozone is known under the chemical symbol O_3 , and is an allotropic form of oxygen. At the same time ozone is liberated nitrous and nitric oxides are also produced.

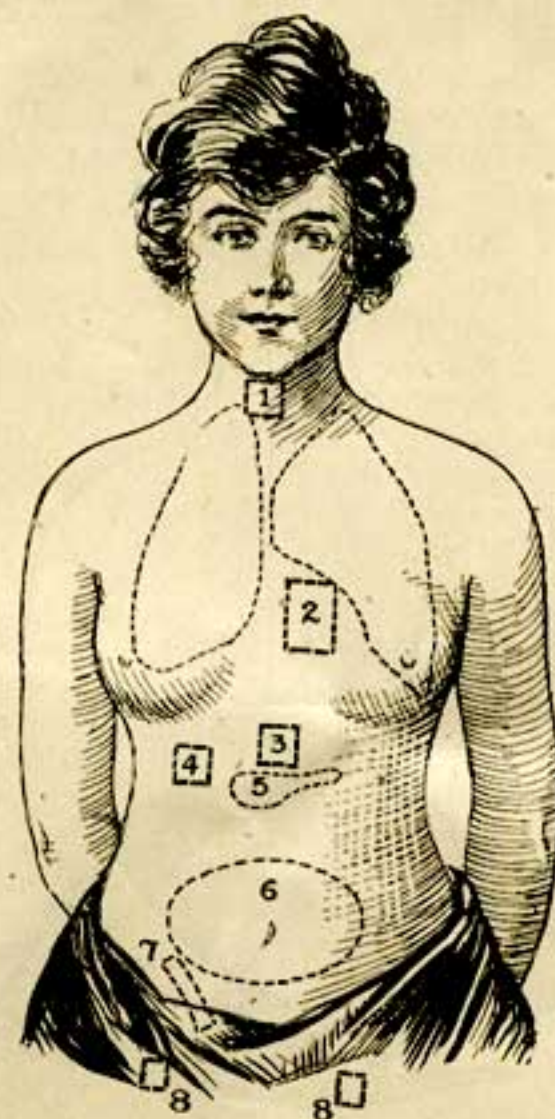
PHYSICAL ACTION. Ozone increases the oxygenation of the blood and tissues and increases the number of red blood corpuscles. Germs are destroyed by it, and it has been shown to be capable of so thoroughly disinfecting sewage that the filtered water was suitable for drinking. It is distinctly deodorant, and even a small ozonizer running in a room will destroy objectionable odors.

INDICATIONS. Ozone is beneficial to the extent that pure air is desired, but there are some diseases in which it is of particular benefit. These are: Anemia, all diseases of the respiratory organs, including tuberculosis; infectious diseases, and all conditions where there is imperfect oxidation and impaired nutrition. An ozone spray has been demonstrated to be healing in all forms of ulcers, etc.

METHOD OF USING. In cases where individual treatment is required it is not necessary to fill the room with ozone, as quite satisfactory results can be obtained by using the small portable Ozone Generator, which may be attached to the handle of the Violet Ray Generator, or in some of our models is equipped as part of our Generator. It has been found necessary to filter the ozone through essential oils in order to remove the nitrous and nitric oxides. Oil is supplied for this purpose.

The value of ozone should not be overlooked and cases where it is indicated are mentioned in the list of diseases in this treatment book.

The Ozone Generator on Model 25 should be operated in the following manner: *First*, see that there is sufficient ozone oil to saturate the felt pad in the vial, which is under the wooden rosette into which the two metal tubes fit. *Second*, the switch should then be turned to cover the little round plate marked "O," after which it is only necessary to place the mask to the face, breathing in with it in that position, and removing it, when breathing out.



On the front of the body, "1" marks the region of larynx; the dotted lines on the chest mark the pulmonary area; "2" is an important region for reflex actions upon the heart. Back of "4" lies the gall-bladder; "3" marks the anterior relation of the deep-lying solar plexus, and "5" beneath it shows the boundaries of the pancreas; "6" marks the intestines; "7" locates the appendix, and each "8" has a surface relation to an ovary.

The Sinusoidal Current

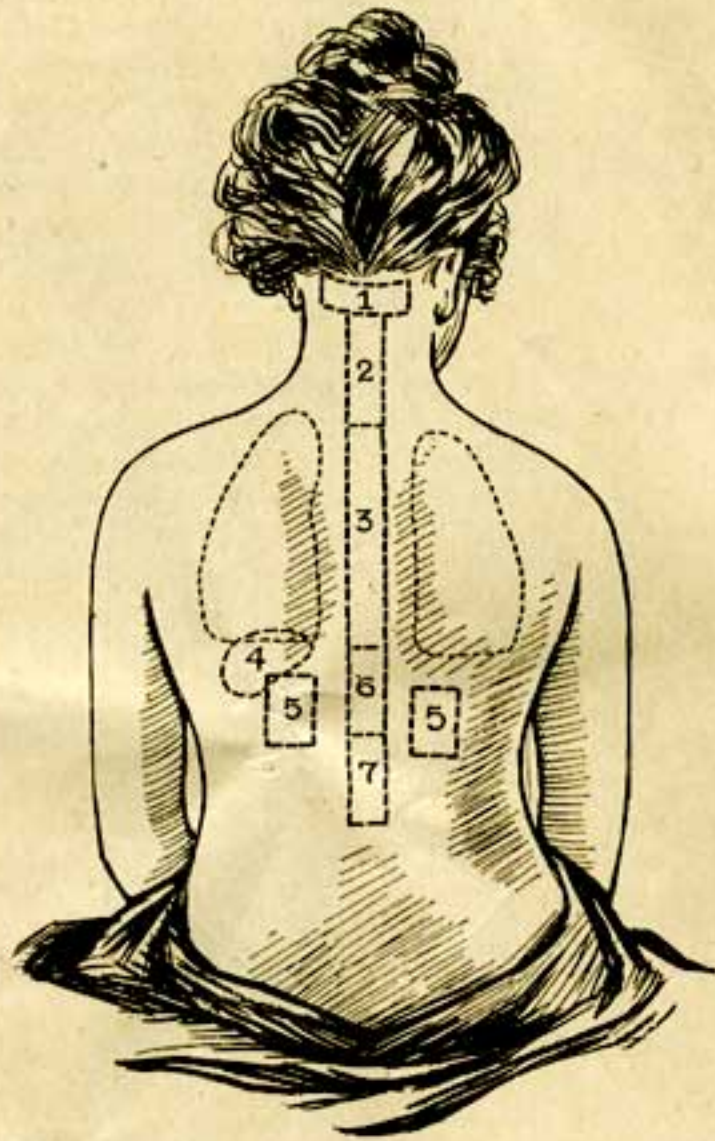
WHAT IT IS. It is a most scientific current of remarkable healing properties, most soothing in its application to the most delicate child or to the most robust man. It consists of a series of electric waves rising and falling gently in such a manner as to produce a perfect massage of the tissues through the gentle contraction and relaxation of muscle and nerve tissue produced.

The Sinusoidal current was first discovered in 1893 by Dr. O'Arsonval of Paris. The use of this current in the treatment of many diseases, especially of muscular and nervous origin proved so effective that the leading physicians all over the world became intensely interested in the subject. Dr. J. H. Kellogg, a noted authority on electricity, wrote largely of the many benefits to be derived from the Sinusoidal Current. Dr. Abrams of San Francisco wrote several books in which he called special attention to the remarkable curative effects of this form of electricity in many cases which had hitherto been considered incurable.

WHAT IT DOES. One of the most remarkable properties of the Sinusoidal Current is in increasing the tone of the various organs, such as the heart, lungs, liver, stomach, intestines, bowels, etc., which are not easily reached by other means of electrical treatment. This current can be directed into the organs named by applying the current along the spine to the nerve outlets from those organs. Many conditions of ill-health are due to a lack of tone of the heart; some to the weakness of the kidneys or liver. By applying the proper stimulus to the organ affected, the general health can be built up.

WHY IT IS APPLIED TO THE SPINE. Everyone knows and realizes that nearly every nerve in the body originates in the spinal cord, passing out between the vertebrae, having some function to perform upon the organs. Each nerve has its opponent nerve and when each pair of nerves are in perfect equilibrium perfect health is the result.

Realizing that all sensations are reflexed or transmitted to the end of the nerve; for example, the ulna (commonly known as the crazy bone on the elbow) being touched, sensation is immediately felt at the end of the fingers; so with every nerve originating in the spinal cord. Knowing this to be true, then by the use of Sinusoidal Current applied at the root of any of these nerves, it is immediately reflexed to the organ supplied by that nerve such as the heart, lungs, liver, kidneys, bowels and pelvic organs. When any one of these organs has lost tone, the stimulus applied by means of sinusoidal electricity at the suitable spinal region will be reflexed to the organ, restoring its normal equilibrium (see chart as to where to apply treatment to the proper spinal region).



No. "1" on the back of the head as the base of the brain, is an important region for counter-irritation; "2" is the surface over the cervical spine and its nerve centres; "3" is the dorsal spine and centres; "4" the lumbar spine and centres, and "7" is the field of origin of nerves supplying the pelvic genito-urinary organ and sexual apparatus. The pulmonary area is defined by dotted lines. The right and left kidneys lie behind the fields "5-5," and under "4" is the spleen.