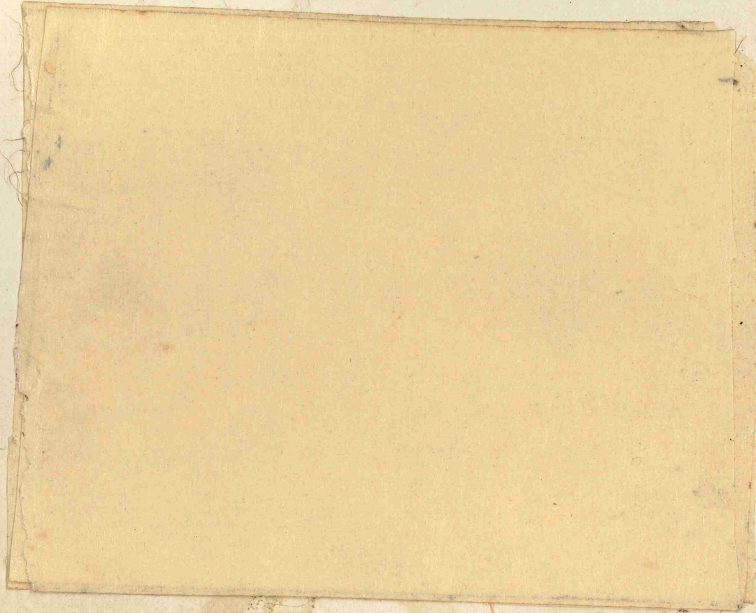




How To Use **High Frequency Violet Ray**

DIRECTION FOR TREATMENT

By L. D. Smith, M. D.

Price 25 Cents

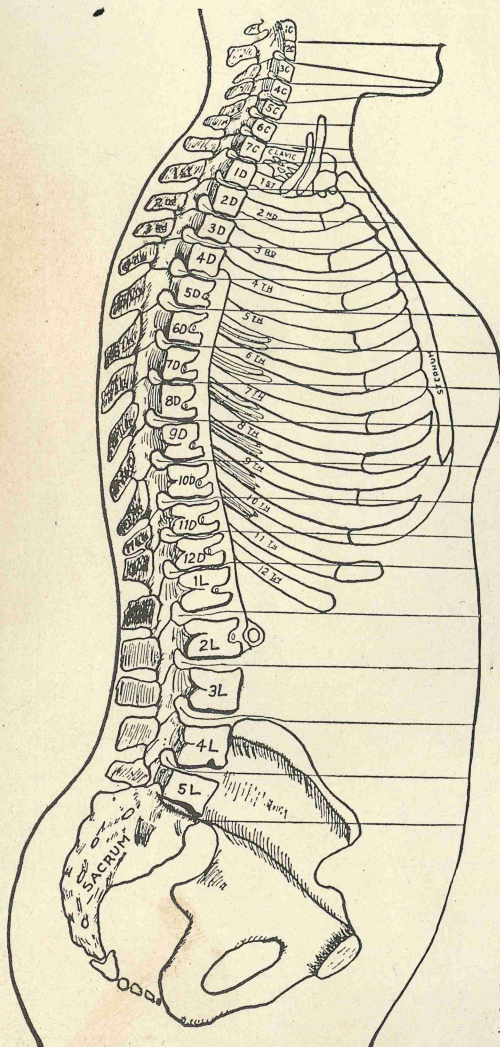
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The Spinal Nerve Centers

Electro-Therapeutic Treatments to the nerve centers of the spine, strengthen the organs and parts which are controlled by these nerve centers.

The following shows where spinal treatment should be taken, in connection with direct treatment, when any of the organs or parts mentioned are afflicted:



Arms—1st, 5th and 6th Dorsal; 5th, 6th, 7th Cervical.

Bladder—11th and 12th Dorsal and from 5th Lumbar to 5th Sacral.

Appendix—Right side 2d and 3rd Dorsal.

Bowels—1st, 2d and 5th Lumbar; 1st Sacral.

Bronchial Tubes—1st and 2d Dorsal.

Ear—2d and 3rd Dorsal; 2d and 3rd Cervical.

Eye—2d and 3rd Dorsal; 2d and 3rd Cervical.

Diaphragm—8th and 9th Dorsal.

Duodenum—6th and 7th Dorsal.

Gall Bladder—6th to 12th Dorsal.

Head—1st to 6th Cervical.

Heart—3rd Cervical to 5th Dorsal.

Intestines—9th Dorsal to 5th Lumbar.

Kidneys—11th Dorsal to 2d Lumbar.

Legs—1st to 6th Cervical and 12th Dorsal to 5th Sacral.

Liver—6th to 12th Dorsal.

Lungs—1st to 9th Dorsal.

Larynx—1st and 2d Cervical.

Ovaries—9th to 11th Dorsal.

Pancreas—9th and 10th Dorsal.

Penis—1st and 2nd Lumbar.

Phrenic Nerve—2d to 5th Cervical.

Peritoneum—1st and 2d Lumbar.

Prostate Gland—10th Dorsal to 5th Lumbar.

Rectum—5th Lumbar to 4th Sacral.

Sexual Organs—10th Dorsal to end of Spine.

Scrotum—1st and 2d Lumbar.

Spleen—9th and 10th Dorsal.

Stomach—5th to 9th Dorsal.

Sympathetic Nervous System—6th and 7th Cervical; 1st Dorsal.

Testicles—2d to 5th Lumbar.

Trachia—5th and 6th Cervical.

Uterus—8th Dorsal to 4th Sacral.

Opinion of Some Prominent Doctors on Electro-Therapeutics

"Diseases in which there is an impairment of vitality, weakness or loss of power of the muscles, maladies, such as anemia, rickets, gout, etc., can be markedly benefited by alternating and intermittent currents (medical electricity)." Dr. E. P. Cumberbatch.

"Many diseases of the nose are benefited by the use of High Frequency Violet Ray Currents." Dr. Eberhart.

"Albuminuria (Nephritis, Bright's Disease) Benefit in these diseases has been obtained from the application of high frequency Violet Ray Currents." Dr. Noble M. Eberhart.

"This current is able to stimulate motor nerve and thereby cause contraction of voluntary muscle. It is used to produce artificial exercise of muscles which are paralyzed or weakened. The power of this current to cause contraction of muscle can be utilized for the treatment of inflammation of fibrous tissue and muscles, accompanied by adhesions (fibrous and fibrinous) and exudation. The contraction of the muscle loosens the adhesions and mechanically aids the removal of exudation." Dr. E. P. Cumberbatch.

"The sleep which electricity induces or lets nature induce is not only sound but decidedly refreshing." Dr. W. E. Somerville, Scotland.

"One of the most striking effects of the Violet Ray (High Frequency current), is its action on the sympathetic nervous system." Dr. Monell.

"High Frequency Violet Ray Currents are particularly suited to alleviating the various nervous symptoms that accompany 'change of life.'" Dr. Eberhart.

"Not only do the high frequency currents (Violet Ray) promote normal sleep, but as we who employ them are well aware, they improve the tone of the system." Dr. W. E. Somerville, Scotland.

"Electrical treatment is beneficial for the results of myelitis, that is, weakness in the lower limbs and in the bladder and rectum, and for trophic alterations in the skin, that is, bed sores." Dr. E. P. Cumberbatch.

"I am willing to put myself on record as believing autocondensation to be the best single remedy we have for diabetes, and best of all, it does not prevent us from using at the same time all the other measures which experience has shown us to be valuable." Dr. Noble M. Eberhart.

Summary of Effects Produced by Electro-Therapeutic Treatments

1. Increase circulation and blood supply.
2. Increase number of red corpuscles.
3. Decrease number of white corpuscles if above normal.
4. Relieve congestion, assist elimination and absorption, and stimulate the functions of the various organs.
5. Increase functional activity and correct derangements of digestion.
6. Increase absorption and renal elimination, strengthen the muscles, and increase nervous and circulatory activity.
7. Improve the general tone of the system, increase motor and glandular activity, thereby aiding nutrition.
8. Promote natural sleep.
9. Increase local nutrition.
10. Softening and relieving muscular contractures.
11. Stimulate circulation.
12. Quiet aches, pains and throbbing nerves.
13. Aid nature.
14. Increase oxygenation of blood.
15. Increase blood supply to a given area.
16. Increase secretions.
17. Increase elimination of waste products.
18. Increase output of carbon dioxide.
19. Increase intake of oxygen.
20. Increase oxidation.
21. Increase bodily heat without corresponding rise in temperature.
22. Inject ozone into lungs and tissues.
23. Locally germicidal and antiseptic.
24. Improving the respiratory process and functions.
25. Facilitating the removal, through the natural channels, of the lymphatics, of tumors, exudates and other products of inflammation.
26. Sinusoidal currents are powerfully metabolic in character and specifically distinguished by their power to cause non-volitional, smooth and rhythmical contraction and relaxation of muscular tissues.
27. Relieve inflammation.

Location of Organs

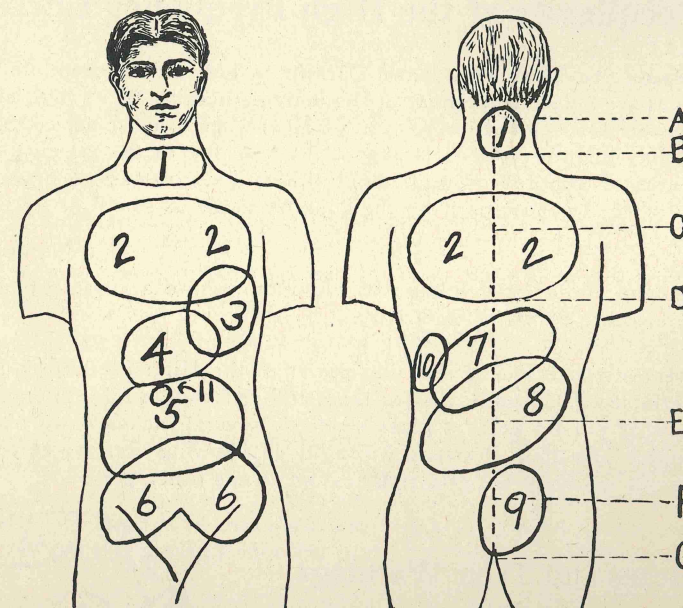


Chart B

- | | | |
|------------------------|--------------------------|------------------|
| A. Base of Brain | G. End of Spine | 6. Loins |
| B. Center of Neck | 1. Throat and Neck | 7. Liver |
| C. Middle of Shoulders | 2. Lungs, front and back | 8. Kidneys |
| D. Middle of Back | 3. Heart | 9. Rectal Nerves |
| E. Small of Back | 4. Stomach | 10. Spleen |
| F. Hips | 5. Bowels | 11. Solar Plexus |

The dotted line represents the spine. The spinal cord is contained in the back or spinal column, which is an extension of the brain. The nerves from the spinal column branch out and go to all muscles, nerves and organs of the body.

Pain or tenderness at any point along the spine signifies involvement of that corresponding organ or nerve. Both the organ and the spine should be treated. Treatment to the spine is known as **Indirect Treatment** and treatment on or over the organ is known as **Direct Treatment**. The spinal nerve centers can be stimulated by Electro-Therapeutic Treatments to cause the parts and organs which are controlled by them to respond. Application to the correct spinal region will help restore an organ which has lost its natural tone or shows impaired activity.

The Peculiarity of the High Frequency Current

The reason the High Frequency Current is not very susceptible, when the electrodes are held in contact with the body, is because of its high alternations, which run into millions per minute. The absence of muscular contraction and any feeling of interruptions is supposed to be due to the inability of the sensory nerves to comprehend such rapid alternations, just as we have vibrations that can not be recognized by the auditory nerve as sound or by the eye as light.

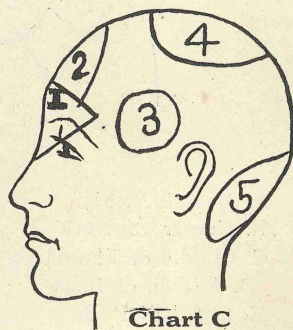
On account of its high voltage it does not require a complete metallic circuit like in other forms of electricity.

The great strength and penetrating power of the High Frequency current can be ascertained if the patient holds the metal electrode, while the current is on, and another person holds a glass electrode several inches away from the patient's body. The glass electrode will light up, showing that the current not only penetrates the body but also radiates out to the other person.

Headaches and Their Warnings

Headaches are nature's means of warning that some organ or nerve is not functioning properly and that immediate attention should be given to treatment of the organ or nerve, and also to the spinal center controlling them.

Headaches at



- 1. Nasal Disease.
- Disordered Stomach.
- Errors in Refraction.
- Frontal Sinus.
- 1 and 2. Frontal Eye Trouble.
- Congestion.
- Constipation.
- Decay of Front Teeth.

- 3 and 5. Middle Ear Disorders.
- Throat, Eyes or Teeth.
- 4. Anemia.
- Bladder Disease.
- 5. Spinal Irritations.
- Nervousness.
- Female Trouble.

General Direction for Treatment

To obtain results follow strictly the directions for treatment.

It is much better to take daily treatments from 5 to 10 minutes than it is to take them every other day for a longer period. For children and invalids it is better to take two or three mild treatments in place of one medium or strong treatment.

Besides treating the area or organs affected, treat the spinal nerve centers as indicated in chart A.

Start treatment with a mild current and increase gradually.

In treating the surface of the body, always keep the electrode moving slowly over the area being treated. Talcum powder should be applied over the surface to allow free movement of the electrode. In some cases the first few treatments may seem to aggravate the condition, but after several treatments this will disappear and relief will be afforded.

Current Adjustment

Mild Current is obtained by turning the adjusting knob to the right so that the instrument has just started to operate.

Medium Current is when the adjustment knob is turned about one-half way.

Strong Current is when the adjustment knob is turned as far as it will go.

Methods of Application

Contact—When the term contact is used, it means the electrode should be kept in contact with the skin.

Light Contact—The electrode should be held so that it barely touches the skin. This can be accomplished by treating through a handkerchief or through the underclothing; or by wrapping the electrode in a handkerchief or piece of chamois.

Spark—One-eighth, one-fourth or one-half inch spark means that the knob should be so adjusted so that the electrode will give a spark this length when held that distance from the body. To obtain different lengths of sparks, treatments can be taken through approximately that thickness of clothing.

General Treatments

In this book we aim to cover specific ailments and by following these directions persistently results are almost sure to be apparent.

If you wish special directions for treatment send for a "Questionnaire" and our Medical Department will furnish without obligations Special Individual Directions covering your case.

Abscesses (Superficial)—Use Electrode No. 1 with a strong current in contact with the abscess, and also treat the surrounding area. Treatments from four to five minutes should be taken twice daily. Condensed Electrode No. 2 is recommended for this treatment on account of the heat generated. If treatments are applied to a developing abscess, its growth can be arrested.

Acne (Pimples)—Follow instructions under Beauty Culture. Use electrode No. 25 where large pustules exist, and apply three or four one-eighth inch sparks.

Adhesions—Adhesions that follow inflammatory conditions or operations should be treated by using electrode No. 1 with a strong current, keeping it in light contact and passing it over the area involved. Treatment from seven to eight minutes twice daily is advisable, but daily treatments will suffice. It is necessary to take treatments a considerable length of time. Treat especially over 1st Dorsal to 12th Dorsal.

Alcohol and Drug Addictions—Treat with a strong current over the solar plexus, liver and spine for alcohol, morphine and opium habits. In cocaine habits, apply a mild current to the soles of the feet, legs and arms, until reddening results. Treatment should be taken with a one-fourth inch spark, and treat daily from six to eight minutes.

Alopecia (Falling Hair)—Follow directions under Scalp Disorders.

Amenorrhea—With electrode No. 6 in contact treat from the fourth Lumbar to the end of the spine, using a strong current, also with electrode No. 15, treat with a mild current daily for not over four minutes. Follow instructions under internal treatments.

Anemia—With electrode No. 1 in light contact treat over the entire body, paying special attention to the chest, abdomen and spine. The entire length of the spine should be treated with electrode No. 6. Duration of treatment seven minutes. Ozone inhalations for four minutes twice daily are especially valuable. Treatment should also be applied especially from 5th Cervical to 10th Dorsal.

Anus (Fissure of)—Use electrode No. 17 or No. 23. Treat with a mild current not over four minutes. See Internal Treatment.

Arterio Sclerosis (High Blood Pressure)—Treatment should be taken by holding the metal electrode No. 12 in the hand for eight minutes twice a day, using a strong current. During this treatment, it is advisable to have another person pass the hand or a glass electrode over the entire length of the patient's spine. Follow this with a treatment over the entire body for a few minutes with electrode No. 1 held in contact, using a medium current. Complete with a treatment especially from 5th Cervical to 12 Dorsal.

Arthritis—(Same Treatment as for Rheumatism.)

Asthma—With light contact, using electrode No. 1, treat over the chest, and with electrode No. 4, treat over the throat glands. Treat also over the back between the shoulder blades, and along the spine from the first Cervical to the third Lumbar. A daily treatment of eight minutes with as strong a current as is tolerable should be used. Continue treatment until the surface reddens. Five minute treatment with the Ozone Generator should be taken twice daily. Treat also occasionally especially from 3rd Cervical to 6th Dorsal.

Ataxia (Locomotor Ataxia)—Treat over the entire length of the spine with electrode No. 6, using as sharp a spark as is tolerable. Treatment with No. 1 electrode should also be taken over the buttocks, abdomen, and to the back of the legs. Treatments should be taken twice a day for a duration of about ten minutes. Great relief of pain and improvement of gait follows persistent use. In all cases of Locomotor Ataxia, Vibratory massage treatments should be used if possible. Treat especially from 8th Dorsal to 3rd Lumbar.

Atrophy of the Optic Nerve—Treatment should be taken with either the No. 5 or No. 7 electrode. During treatment keep the eyes closed, and treat with a mild current, keeping electrode in contact with the eyelid. Treat for three minutes twice daily. Turn on current after electrode is in position, and turn off current before removing. Spinal treatment should be from 1st Cervical to 4th Dorsal.

Baldness (Alopecia)—Follow directions under Scalp Disorders.

Barber's Itch (Sycosis)—Treat same as for Acne.

Birth Marks—(See Scars.)

Blackheads—Follow instructions under Facial Treatment.

Bronchitis—Follow same treatment as for Asthma. In addition, apply one-fourth inch sparks over the chest for two or three minutes. This treatment loosens the dry cough and will relieve congestion. Electrode No. 2 is especially adapted for this treatment. Ozone Inhalations twice daily for three minutes are of great benefit in relieving the irritated tissues.

Blepharitis (Granulated Eyelids)—Treat with a mild current with either electrode No. 5 or No. 7. During this treatment keep the eyes closed, applying the electrode in contact with the eye. Treat from three to four minutes daily. Pull the eye-lid away from the eye-ball, and apply a very mild spark along the edge of the lid. Take great care not to let any sparks pass into the eye-ball. This treatment should be of a duration from two to three minutes, and should be taken daily, or every other day. Treatment to be used only by a physician. It is also well to treat from 1st Cervical to 4th Dorsal.

Boils—With a medium to a strong current apply electrode No. 1 in contact over the boil, and also over the area about one inch from the boil. Treatment should be taken from seven to eight minutes twice daily. On first indications of a boil, treatment will often stop it, but if it does not, the boil will be of a smaller size, and come to a head much quicker.

Brainfag—Relief is practically assured by treating with electrode No. 1 over the back of the head and neck, and also down along the spine to about the twelfth dorsal. Treatment should also be taken over the forehead and eyes. Treat with a medium current once daily for five minutes. Ozone Inhalations of three minutes' duration should also be used twice daily. Also treat from 1st Cervical to 3rd Lumbar.

Breast Development—With electrode No. 1, treat over the entire chest from seven to eight minutes daily. Use a medium current in light contact with the body. Breast electrode No. should also be used. This electrode should be held in light contact over the breasts, and a medium current used. On account of the stimulating tonic effect of Violet Ray Treatments, it is of great value in toning up the tissues, building new flesh, and developing the bust.

Bright's Disease—A strong current applied in contact for about eight minutes over the kidney region is an effective means for reducing the albumen of the urine. Constant attention from a physician is absolutely necessary. Spinal treatment may be taken from 5th Cervical to 2nd Lumbar.

Bladder Trouble (Cystitis)—Treatment over the bladder with a strong current with electrode Nos. 1 or 2 held in contact is very effective in clearing the urine. Treatment should be taken from five to seven minutes twice daily. Even in the most obstinate cases, results have been most gratifying. Also treat from 10th Dorsal to end of spine and over hips.

Bruises—With a mild or medium current, treat with electrode No. 1 in direct contact over the bruise. Treatment applied to the painful and swollen area drives the congested blood from the injured tissue, and any discoloration is quickly diminished. Treat for three minutes two to three times daily.

Bunions—Use electrode No. 1 or No. 18 in light contact with the bunion. Treat for eight minutes twice daily, using as strong a current as is tolerable.

Burns—A mild treatment for two or three minutes twice daily, using electrode No. 1 in contact with the burnt area, will greatly relieve the pain. The first treatment should be taken after the acute pain has subsided.

Callouses—Use No. 1 electrode with a strong current of about one-quarter inch spark over the callous. Treatment should be taken from one to two minutes, and repeating as often as required. The area may also be fulgurated. See Fulguration.

Cancer—High Frequency currents can only be used in treating skin cancers, and then only before the glands and deep layers of the throat are affected. This treatment should not be undertaken by anyone except by a physician. With electrode No. 25, use a sharp hot spark, and treat until the growth is thoroughly fulgurated. It should then be left alone from seven to ten days until the scab drops off. If results are not obtained the first time, you may fulgurate again.

Canker—With dental electrode No. 27 or No. 31 treat with a mild to a medium current, holding electrode in contact with the infection. This promotes rapid healing, and relieves soreness. Treatment should be taken from one to two minutes, once daily.

Carbuncles—With electrode No. 1 or No. 2 in contact, apply a medium current for six minutes twice daily. Also treat around the inflamed area, rapidly moving the electrode back and forth. This should promote an early ripening of the carbuncle, and soothe the pain.

Catarrh—Treat with a mild current, applying the electrode No. 1 in light contact over the nose and forehead. No. 19 Nasal electrode should be used two to three minutes in each nostril daily, using a mild current. Ozone Inhalations should be used in all cases of catarrh. Treatments should be taken from eight to ten minutes twice a day. Spinal treatment from 1st Cervical to 10th Dorsal.

Cataracts—Apply either electrode No. 5 or No. 7 in contact with the closed eye-lid, using a very mild current. Duration of treatment five to six minutes twice a day. Consult a specialist. Treat also from 1st Cervical to 4th Dorsal.

Chapped Hands and Face—With electrode No. 1 in contact with the affected area, treat from five to seven minutes daily with a medium current, moving the electrode slowly over the chapped area. After treatment, a good grade of face cream should be applied.

Chillblains—With a strong current apply electrode No. 1 over the affected part and also move it slowly over the surrounding area. Treatment should be taken for ten minutes and treat daily or every other day until relief is obtained.

Chlorosis—(Same treatment as for Anemia.)

Cold Extremities—Apply a strong current, using electrode No. 1 with a ¼-inch spark to the extremities. Treat until the surface reddens. Follow this by treating the entire length of the spine, also over the abdomen with electrode in contact from three to four minutes daily. Treatment should also be applied from 1st Dorsal to 2nd Lumbar and over hips.

Cold in Lungs—(Follow same instructions as for Asthma.)

Colds in Head—Treat above the eyes, over the nose and on the side of the face with electrode No. 1 in light contact, using a medium current. Treatment should be taken ten minutes twice daily. Ozone Inhalations of five minutes' duration should be taken three to four times daily. Pay also special attention to treatment from 1st Cervical to 6th Dorsal.

Colitis (Inflammation of Colon)—With electrode No. 1 treat over the bowels, using a medium to a strong current with about ¼-inch spark. At first a daily treatment of four to five minutes should be taken, but as soon as improvement is apparent, three times a week is sufficient. Treat daily on spine, especially from 5th Cervical to 12th Dorsal.

Constipation—A daily treatment of ten minutes should be taken with No. 1 electrode in contact with the abdomen, using a medium current. Electrode should be moved from right to left. This treatment can be followed, using rectal electrode, and treating with a medium current for four minutes. Whenever possible, Mechanical Vibration and Medical Electricity should be used. Apply treatment also along spine from 5th Dorsal to 5th Lumbar.

Consumption—Daily Ozone Inhalations from seven to eight minutes give wonderful results in decreasing the discharge from the lungs. Treat also over the chest and back with a medium to a strong current with electrode held in light contact for a few minutes. Follow strictly the directions given by your attending physician, and also take the above treatments under his supervision.

Convalescence—A daily treatment of five minutes over the entire body will greatly aid the patient in regaining strength. The current should be medium and the electrode held in light contact. Treatment can also be taken upon retiring, by holding the metal handle No. 12 firmly in the hand, and having some one pass their hand or surface electrode No. 1 over the entire body, paying special attention to the spine, treating especially from 1st Cervical to 12th Dorsal.

Corns—(Same treatment as for Callouses.)

Coryza—(See Cold in Head.)

Cystitis—(See Bladder Trouble.)

Dandruff—Use a mild current and apply No. 3 electrode over the entire scalp, keeping it constantly moving. A daily treatment from four to six minutes is advised. Should the scalp become irritated from too frequent treatment, a milder current of less duration should be used. Do not take treatment over the scalp if any solution containing alcohol has been previously used.

Deafness (Catarrhal)—Insert electrode No. 11 into the ear as far as possible, and treat with a very mild current from three to four minutes daily. Insert the electrode before turning on the current, and turn off the current before removing it. Then follow with a treatment, using electrode No. 1 in contact behind the ear, and along the muscles of the neck and at the nape of the neck, using a medium current. Treat for five minutes twice daily. Great improvement will be marked in practically every case. When using the ear electrode No. 11, should the sensation of heat become too great, stop the treatment for a few minutes. Also treat daily along spine from 1st Cervical to 4th Dorsal and over shoulders, and at point and side of chin.

Diabetes—Treat over the abdominal region with electrode No. 1, using a strong current with about $\frac{1}{8}$ -inch spark. Treat for about six minutes twice daily. Constant care from a physician is necessary. Treatment may be taken from 1st Cervical to 12th Dorsal.

Dyspepsia—Apply a strong current with electrode No. 1 or 2 over the abdominal area, and with electrode No. 6 treat along the spine from the fifth Cervical to the seventh Dorsal. Treatments should be taken from six to eight minutes. Follow this treatment with Ozone Inhalations for about four minutes.

Earache—Insert electrode No. 11 in the ear, and use a mild current. Take treatment until the heat generated becomes uncomfortable. In severe cases, it may be necessary to take treatments hourly. If the pain is due to pressure back of the eardrum, the treatment will not be effective. Also treat along spine from 6th Cervical to 4th Dorsal.

Eczema—Apply treatment through a handkerchief or thin gauze. Pass electrode No. 1 over the affected area, using a medium current from three to five minutes daily. If the itching sensation is severe, apply the electrode so that a still longer spark will be generated for a moment. In some cases as with all types of skin diseases the first few treatments may seem to aggravate the condition, but the average case yields to comparatively few treatments. Use daily along spine from 1st Cervical to 12th Dorsal.

Enlarged Prostate—(See Prostatic Trouble.)

Epilepsy—While a cure may not be expected, many have found great benefit to be obtained from applications of a medium current along the entire length of the spine and over the head. Treatment should be taken every other day with a medium current for five minutes, keeping the electrode in contact with the surface. Pay especial attention from 1st Cervical to 10th Dorsal.

Eye Disease—Mild treatment with either electrode No. 5 or No. 7 should be taken from two to three minutes daily. Electrodes must be held in light contact with the closed eye-lid. Be sure to have the electrode in contact before turning on the current, and turning off the current before removing it. Also treat spine from 1st Cervical to 4th Dorsal.

Falling Hair—Apply comb electrode No. 3 with a medium current over the entire scalp every other day for a duration of about five minutes. This treatment improves the circulation of the blood in the scalp. Vibratory treatments should be used in conjunction if possible. See Scalp Disorders. It is also advisable to treat from 1st Cervical to 4th Dorsal.

Furunculosis—(See Boils.)

Fistula—Treatment should be taken under the direction of a physician. Rectal applicators No. 17 or No. 23 should be used for about four minutes daily.

Frostbites—Apply electrode No. 1 with sparks about $\frac{1}{4}$ -inch long, using a medium current. Hourly treatment from three to five minutes should be taken.

Freckles—Cover the surface to be treated with a handkerchief or thin layer of gauze. Treat with electrode No. 1 from four to six minutes daily with a medium current. Results in this treatment are very apt to be slow, but it has been often found that High Frequency treatments help to normalize the skin, and also to rid it of the tendency to freckle.

General Weakness—If your physical condition is below par and your body seems worn out; if you arise in the morning just as tired as when you went to bed; or you tire from the least bit of exertion—then treat with No. 1 electrode in contact over the entire body, using a medium current. Treat 4 to 5 minutes two or three times daily. Pay especial attention to treating the spine from 1st Cervical to 12th Dorsal.

Upon retiring, the metal handle No. 12 should be held firmly in the hand for about 5 minutes, using a strong current. During this treatment it is advisable, but not absolutely necessary, for another person to pass the hand or a glass electrode over the full length of the spine. Duration of treatment should be from 4 to 5 minutes. Before letting go of the metal handle, be sure that the current is turned off. Ozone Inhalations can be taken from 2 to 3 minutes after this treatment.

Gleet-Gonorrhea in male or female, or Urethritis—Obtain special directions from publisher or from your attending physician.

Goitre—Use electrodes No. 1 and No. 4 and treat around the goitre, using as strong a current as tolerable for about five minutes daily. Keep the electrodes in contact with the surface, but complete the treatment by raising the electrode about $\frac{1}{4}$ -inch, and treat directly on the goitre until the surface reddens. If this treatment is going to produce satisfactory results, it will be evident after 15 or 20 treatments. Vibratory massage will also be found beneficial. In Exophthalmic Goitre, much better results can be expected than in simple goitre. Treat also from 1st Cervical to 6th Dorsal.

Gout—With a medium current, treat with electrode No. 1, using light contact. Treat over the affected part twice a day from four to six minutes. After a week or ten days increase the strength of current, and also the length of treatment. In a great many cases the first few treatments may seem to aggravate the pain, and for this reason it is suggested that the first few treatments be mild. Do not take treatments during an acute attack. Daily treatments from 1st Cervical to 5th Lumbar are also indicated.

Grip (Influenza)—In connection with the usual treatments given by your attending physician, great benefit may be obtained by Ozone Inhalations and general application of the High Frequency current. Electrode No. 1 should be used with a medium current over the eyes and forehead. Treat also along the entire length of the spine, over the abdominal areas, and solar plexus. A two or three-minute treatment with electrode No. 19 in each nostril should be used where the nose is discharging profusely.

Hay Fever—During an acute attack of hay fever, a treatment should be taken every two or three hours, followed by Ozone Inhalations for ten minutes. Treat with No. 1 electrode over the nose and forehead and along the spine with a medium current, with electrode held in light contact for about five minutes. Nasal electrode No. 19 should be used in each nostril. The current should be turned on after inserting the electrode, and turned off before removing. Treat each nostril with a mild current from two to four minutes. Also treat along spine from 1st Cervical to 4th Dorsal.

Following the above outlined treatment daily two weeks before the expected attack will very often avert the attack or make it much milder.

Headaches—Refer to Chart No. C and then treat the cause which is producing the headache. Headaches should be treated with electrode No. 1 held in light contact and using a medium to strong current, and applied to the back of the head and neck from three to four minutes. Then treat in contact where the pain is located for about seven to ten minutes, keeping the electrode moving back and forth over this area. These treatments should be followed for headaches located in any other part of the head, and relief will generally follow. Complete treatment by application from 1st Cervical to 12th Dorsal.

Heart Disease—When the blood pressure is high, a general treatment over the entire body should be taken; also follow the treatment given under High Blood Pressure. If the blood pressure is low, treatments should be taken along the entire length of the spine with sparks about ¼-inch long. Treatment should also be taken with a medium current from five to six minutes with light contact over the solar plexus and the heart area. Also treat from 1st Cervical to 10th Dorsal.

Hemorrhoids (Piles)—Inflammation and soreness may be removed by treating with rectal electrode No. 17. Great care must be exercised in carefully lubricating the electrode and inserting before the current is turned on, and removing it after the current has been turned off. When the hemorrhoids are extremely sensitive it is necessary to take Vibratory treatments first in order to quiet the pain sufficient so that the electrode can be inserted. In all cases it is advisable to use both treatments. Only the pain and soreness can be removed by this treatment. Hemorrhoids may be destroyed by application with the No. 25 Fulguration electrode, applied by a competent physician. It is also advisable to treat from 12th Dorsal to end of spine.

Herpes Zoster (Shingles)—With a strong current apply electrode No. 1 in light contact over the surface to be treated. Treatments over the eruption should be from five to eight minutes. A general treatment should be taken over the entire length of the spine so as to reach the origin of the nerves supplying the affected area. Treatment should be taken twice daily. Ozone Inhalations and Vibratory treatments should also be taken on account of their tonic effect. Treat especially from 3rd Cervical to 12th Dorsal.

High Blood Pressure—(See Arteriosclerosis.)

Hives and Rashes—Apply electrode No. 1 over the entire affected area, using a medium current having the electrode in light contact. Treat twice daily from 5 to 10 minutes. If itching is present, remove the electrode far enough from the surface to produce a fairly sharp spark. This will have a tendency to give immediate relief. A daily treatment along spine from 5th Cervical to 12th Dorsal should be taken.

Hoarseness—With either electrode No. 1 or No. 4, treat over the front and sides of the throat, using a medium to a strong current from five to ten minutes. In acute cases, treatments may be repeated every two or three hours. Daily treatments are sufficient in chronic cases. Treat also from 1st Cervical to 4th Dorsal.

Hysteria—Treat with electrode No. 1 five minutes, once daily, over the head and also over the base of the brain, using a medium current with electrode held in contact. If the blood pressure is low, treatments to the spine, and Ozone Inhalations should be used. In either case spinal treatment from 1st Cervical to 5th Lumbar are indicated.

Impotency—With a medium current treat once daily from 4 to 5 minutes, using electrode No. 1 in light contact and pass it back and forth over the testicles, also over the bladder and over and around the groin. With a strong current and with electrode held in light contact, treat over the lower portion of the spine from the fourth lumbar down to the end of spine.

Indigestion—(Use same treatment as given under Dyspepsia.)

Influenza—(See Grip.)

Inflammations—With any suitable electrode treat for 5 minutes once or twice daily over the inflamed areas, and surrounding parts with a medium current holding electrode in contact with the surface.

Insomnia (Sleeplessness)—With a medium to strong current apply electrode No. 1 in light contact over the back of the head and neck for about 5 minutes followed by a 3 or 4 minute treatment over the forehead, paying special attention to the area over the eyebrows. Follow this treatment by holding the metal handle No. 12, using a strong current for about 4 to 5 minutes. During this last treatment the hand or electrode No. 1 or No. 6 may be passed along the entire length of the patient's spine. This treatment should be taken every night upon retiring. Once during the day it is advisable to take Ozone Inhalations from 3 to 4 minutes. Each treatment should be followed by treating along spine, especially from 1st Dorsal to 5th Lumbar.

Iritis—There are many cases on record where the adhesions of the iris were broken up by the use of High Frequency Violet Ray. With either No. 5 or No. 7 Eye Electrode treat through the closed eye-lid with a mild current, using about a ⅛-inch spark. Treatment should be taken about 5 minutes daily. This treatment should be followed by holding the eye electrodes in contact with the closed lid and treatment taken from 5 to 8 minutes. Treatment should be taken only under the direction of a physician. Treat also from 1st Cervical to 6th Dorsal.

Itching—Relief may be obtained by applying electrode No. 1 using a strong current, and a ¼ inch to ½-inch spark over the itching parts. This treatment should be for a duration of about ½ minute, followed by a mild treatment with No. 1 electrode held in contact for about two minutes.

Infantile Paralysis—A 5-minute treatment twice a day should be taken with electrode No. 1 applying ¼-inch sparks over the entire length of the spine, and also over the paralyzed muscles. Vibratory treatments are also of great value and are especially recommended in conjunction with the High Frequency treatments. Also pay special attention to spine from 1st Cervical to 4th Dorsal and 10th Dorsal to 5th Lumbar.

Lack of Appetite—(Same treatment as for General Weakness.)

Laryngitis—(Same treatments as for Hoarseness.)

Leucorrhea—A treatment daily or every other day should be taken, using a mild or medium current, with electrodes No. 15, No. 24 or No. 26. Electrode No. 27 is especially recommended. Treat also from 1st Lumbar to end of spine.

Locomotor Ataxia—(See Ataxia.)

Loss of Weight—(Same treatment as for General Weakness together with treatment under Anemia.)

Lumbago—With a strong current and with a spark as long as the patient can stand, treat with electrode No. 1 or No. 2 over the small of the back. During the treatment the patient should lean or twist the body so that the muscles are stretched and treatment given while in this position. Treatments may be taken for 5 minutes several times each day, and the length of each treatment should be increased until relief is obtained. Treatments should be given until the patient feels comfortable in any position. Once or twice a day treat along spine, especially from 1st Dorsal to 5th Lumbar.

Massage—Have the patient hold metal handle No. 12 in the hands, using a mild to medium current. Then apply vibrator or massage with the hands over the area to be treated. Always turn off the current before removing electrode from the patient's hand. Treat from 5 to 10 minutes daily.

Menopause (Change of Life)—With electrode No. 1 held in light contact, treat with a mild current along the entire length of the spine, also over the neck and back of the head and over the abdominal organs. A daily treatment from 10 to 15 minutes should be taken. When any other symptoms are present such as constipation and headaches, treat according to instructions. Pay special attention to treatment from 5th Dorsal to 5th Lumbar.

Moles and Moth Patches—(Follow instructions under Fulguration.) When the surface is not elevated and the skin only is discolored, it is usually useless to treat by fulguration, as it is impossible to fulgurate deep enough to destroy the pigmented areas without leaving a pit. In some cases, these conditions are benefited by treating with a strong current using electrode No. 1.

Mumps—With electrode No. 4 held in light contact treat over the swollen gland, using a medium to a strong current. Treatment should be taken two to three times a day from 5 to 7 minutes. Once daily treat along spine from 1st Cervical to 4th Dorsal.

Nervousness—With electrode No. 1 held in light contact, apply a medium current and treat over the spine, back and sides of neck, and over the eye-brows for about 8 minutes. Follow this by holding metal handle No. 12 in the hand for 10 minutes, using a medium or strong current. Ozone Inhalations should be taken each day from 5 to 10 minutes.

Neuralgia—Apply electrode No. 1 or No. 2 over the painful area, and treat with a medium to strong current, and use as sharp a spark as is tolerable. Treatment should be taken twice daily from 5 to 10 minutes. Once daily treat along spine from 1st Cervical to 12th Dorsal.

Neurasthenia (Nervous Exhaustion)—With electrode No. 1 treat over the entire body 5 to 7 minutes daily, paying special attention to treatment along the spine. Use a strong current, and keep the electrode in light contact. Follow this by holding the metal electrode No. 12 in the hand, using a strong current. When the blood pressure is above normal the spinal treatment should be eliminated but if the blood pressure is low, treat the spine and also back of the head and neck and also over the solar plexus daily. Pay special attention to spinal treatment from 5th Cervical to 12th Dorsal. Ozone Inhalations daily for 5 minutes are also beneficial.

Neuritis—Use electrode No. 1 or No. 2 in light contact and treat over the painful area with a mild current. Treatments should be taken once or twice a day from 2 to 5 minutes. Many times the first few treatments may aggravate the condition, as the nerves may be greatly inflamed. The strength of the current, and also the length of treatment, may be increased gradually. Once daily treat along spine from 1st Cervical to 12th Dorsal.

Obesity—Use electrode No. 1 with a medium current and treat from 4 to 6 minutes once or twice daily with light contact over the entire body, paying special attention to the obese parts. High Frequency treatments will increase the nutrition, and will do much to cause the food to be assimilated properly instead of being stored up in the form of fat. In all cases of obesity, heavy Vibratory treatments are indicated, also diet and exercise.

Paralysis—Treatment should be taken with as strong a current as is tolerable over the paralyzed muscles, using electrode No. 1 or No. 2 and also along the entire length of the spine. Treat only over the paralyzed muscles. Treatment should be taken twice a day from 8 to 12 minutes. Whenever possible, Vibratory treatments should be taken in conjunction, and daily active and passive exercises. Pay attention to spinal treatment, especially from 1st Cervical to 12th Dorsal.

Pains—First of all, the cause of the pain should be determined, and the proper treatments will be found in these directions.

Physical Development—With a medium to a strong current use the proper electrode in contact with the area to be developed. Treatments should be taken from 4 to 5 minutes, two to three times daily.

Piles—(See Hemorrhoids.)

Pimples—(Follow instructions under Beauty Culture.)

Pleurisy—With a medium to a strong current treat with electrode No. 1, using a $\frac{1}{4}$ -inch spark, and treat over the chest and back until the skin reddens. Treatment should be taken two or three times a day from 5 to 10 minutes. Ozone Inhalations should also be taken once daily for about 5 minutes. Your attending physician should be consulted. Daily treatment along spine, especially from 3rd Cervical to 12th Dorsal, are indicated.

Pneumonia—Treatments should be taken under the supervision of your physician. Treatment should be taken with a strong current with a $\frac{1}{4}$ -inch spark, over the chest and back until reddening occurs. Ozone Inhalations should be used 2 or 3 times daily for a minute or so. Daily treatment along spine from 1st Cervical to 10th Dorsal are helpful.

Poison Ivy—Apply a $\frac{1}{8}$ -inch spark with electrode No. 1 over the eruptions. Treat three times daily from 3 to 5 minutes.

Post Fracture Conditions—Treatments with High Frequency Violet Ray over the affected area is a great aid in restoring normal conditions, and also in relieving soreness and stiffness. Electrodes No. 1 and No. 4 should be used with a medium current in contact with the affected area. Treat from 5 to 7 minutes twice a day.

Post Operative Conditions—(Treat the same as for Post Fracture Conditions, over the area where operation has been performed.) Follow this up with a general treatment for 3 minutes over the entire body, paying special attention to the area along the entire length of the spine, and over abdominal area. Current should be mild, and electrode held in contact with the surface.

Prostatic Trouble—The No. 110 Prostate Gland Treatment is especially recommended for all treatments of the prostate gland. Treatment should be taken upon retiring for a period of seven to eight minutes. For the first two or three minutes a strong current should be used and for the balance of the period a medium current. If possible, take two shorter treatments each day, morning and night.

Apply a very thin coat of vaseline on the electrode and insert very gently. Then turn on the current. Always turn off the current before removing the electrode. Complete the treatment by applying either electrode No. 1 or 6 along the spine from the 10th Dorsal to the end of spine.

Some cases, especially those of long standing or obstinate cases, should also be treated with Medical Electricity and Vibration, in conjunction with the Violet Ray Treatment.

Pruritis—(See Itching.)

Psoriasis (Itch)—(Same treatment as for Eczema.)

Pyorrhea—Use electrode No. 68 or No. 72, and apply in contact with the gums, using a mild current, and treat all over the gums and around the affected teeth. Treatments should be taken once or twice a day from 5 to 8 minutes. In order to entirely eradicate this disease, the removal of deposits is necessary either by mechanical or surgical means. If the electrode is allowed to get in touch with a live tooth, it will cause considerable pain. (This is one method to distinguish live teeth from dead teeth.)

Ring Worm—This is a parasitic growth in the skin. A sharp spark with No. 1, No. 3 or No. 25 electrode over the affected area will check the growth and cause it to disappear. Treat from 5 to 7 minutes once daily, using a medium current.

Rodent Ulcer—(Follow instructions under Fulguration.)

Rheumatism—Strong current applied to painful area with electrode No. 1. No. 2 or No. 4 should be used. The electrode should be held in contact and treatment taken until the surface reddens. In acute cases, the results from the treatments are slower but nevertheless satisfactory, and the affected parts should be treated until the pain ceases. During treatment the body should be so moved that the muscles are thoroughly stretched. Treatments should be taken as often as the pain reappears. Most cases require treatment with about $\frac{1}{8}$ -inch spark. Vibratory Massage is advised in connection with the High Frequency treatments. The first few treatments may seem to aggravate the condition, but after several treatments improvement is steady and rapid. Once or twice daily treat especially along spine from 3rd Cervical to 5th Lumbar.

Scalp Treatment—(See Scalp Disorders.)

Scars (See Fulguration.)—The object is to destroy the scar tissue so that it can be replaced with new. Care should be taken in administering these treatments so that the effect will not be too severe. Use as strong a current as is tolerable with a sharp spark from 4 to 5 minutes daily.

Sciatica—Sciatica is caused by the inflammation of the sciatic nerve which is located in the back of the hips and thighs. As these nerves are deeply situated, treatment is necessary with a strong current, and keep the electrode moving over the area to be treated, occasionally moving the electrode from the surface so as to produce sparks. Treatment should be taken over the lower part of the spine, and then from the hips down either side of the legs to the ankle. Treat once or twice a day from 5 to 10 minutes. Treatments of shorter durations should be taken in the beginning and gradually increased.

Seborrhea—(Same treatment as for Dandruff.)

Sinusitis—Relief for frontal sinus trouble can be obtained by medium current applied in contact over the forehead and eye-brows from 4 to 5 minutes once daily. Vibratory treatment should also be taken in connection. Treat also along spine from 1st Cervical to 6th Dorsal.

Skin Disease—(Follow treatments under Beauty Culture.)

Sore Feet—Apply a strong current with electrode No. 1 keeping it in contact with the surface. Treat two or three times a day from 5 to 10 minutes.

Sore Throat—Apply electrode No. 4 over the entire throat, keeping it in contact. Treatment should be taken two to three times a day from 5 to 6 minutes, using a medium to strong current.

Sprains—Take treatment immediately with a strong current, holding electrode in contact with the affected area. Treat from 5 to 10 minutes every two or three hours. In cases of long standing take treatment with a $\frac{1}{4}$ -inch spark, and treat 4 to 5 minutes daily.

Sycosis—(Treat same as for Acne.)

Tonsillitis—(Follow same treatments as given under Sore Throat.) Ozone Inhalations for 2 minutes two or three times a day, should be taken. Spinal treatments from 1st Cervical to 4th Dorsal should also be taken.

Torticollis—(See Wry Neck.)

Tuberculosis—(See Consumption.)

Ulcers—With a strong current, use electrode No. 1 or No. 2 in contact with the ulcer and treat for about 5 minutes. Then raise the electrode and apply short sparks for a few minutes. Daily treatments should be taken.

Uterine Diseases—Use Vaginal electrode No. 15, No. 24, No. 26, but better still electrode No. 27, and treat with a medium current every other day from 3 to 4 minutes. Also treat along spine, especially from 8th Dorsal to end of spine.

Warts—(See Fulguration.)

Weakness—Treat with a medium current using electrode No. 1 in contact, moving the electrode slowly around testicles and between the legs and between anus and testicles. Treat also with No. 6 spinal electrode on the spine from the ninth dorsal to the third lumbar. Treat from 5 to 8 minutes once daily.

Whooping Cough—Treatment as prescribed for Asthma gives excellent results.

Wrinkles—(See Beauty Culture.)

Writers Cramp—With a medium to a strong current keep No. 1 electrode in light contact with the surface and treat the entire arm and also the finger tips. Treatment should also be taken from the first cervical to the seventh cervical. Treat for 5 minutes twice daily.

Wry Neck—With a strong current and electrode in contact, treat over the back and sides of the neck and back of the ears for 3 minutes, three to four times daily. Complete the treatment by raising the electrode to produce $\frac{1}{4}$ -inch spark, and treat for a few seconds over the entire area. Medical Electricity and Vibratory treatments are also indicated. Pay attention to treating spine from 1st Cervical to 10th Dorsal.

Beauty Culture

Today beauty is as much a science as any other branch of research, and it is up to every man and woman to use the most modern method and those approved by medical authorities.

Throughout the world, High Frequency Violet Rays are used in the better Beauty Shops, and by Specialists and Dermatologists, who specialize in scalp and skin disorders.

Acne, eczema, pimples, blackheads, barbers itch, hives and rashes should be treated by passing the surface electrode rapidly back and forth over the affected area. The electrode should be held in light contact with the skin, using a medium current. The treatment should be taken from 3 to 6 minutes daily.

Where itching is present, raise the electrode from the skin, and apply as strong a spark as is tolerable for a few seconds. This quickly relieves the itching. Usually the first few treatments may seem to aggravate the condition.

Facial Treatment

Wrinkles, Crows Feet, Blackheads, Flabby Tissue

Age first tells in the face and neck, and it is imperative for those who wish to look young and attractive to take daily treatment with High Frequency Violet Ray, and Vibration. Results from these treatments will be beyond your highest expectations.

Bathe the face and neck thoroughly by applying hot towels. Then apply a good grade of cold cream and rub in very thoroughly, using the tips of the fingers, or better still, use the electric vibrator with the rubber cup attached, and with a medium speed go over the face and neck thoroughly. In either treatment, describe small circles.

Wipe off the face thoroughly, then apply High Frequency Violet Ray currents, in very light contact, using a mild current and treat for about 2 minutes. Use the surface electrode over the face and curved throat electrode over the neck. Use No. 5 electrode over and around the eyes, being careful to keep the eyes closed. Treatment can be taken through a handkerchief or talcum powder can be applied on the face and neck so as to allow the electrodes to move freely.

Finish the treatment by applying cold towels, or better still, rub with a piece of ice. Applying witch hazel after treatment will benefit some skins. Persons with very tender skin should take treatments of shorter duration.

Where wrinkles and crows feet are very pronounced, a daily treatment should be taken, otherwise two or three times a week is sufficient, except that before retiring a light massage with the finger tips should be used. In cases of acne, eczema and pimples, a daily treatment is indicated.

Scalp Disorders

High Frequency treatments are indicated in all diseases of the scalp, as Falling Hair, Gray Hair, Dandruff, Baldness, and to promote a luxuriant growth of hair.

Comb rake electrode No. 3 should be used in all scalp treatments. Move the electrode rapidly back and forth over the scalp. Keep it in contact with the scalp, and use a mild current. Treat 4 to 5 minutes every other day. Should the scalp become irritated, use a milder current and of less duration. Never apply the High Frequency current over the scalp or any part of the body if it has been previously rubbed with any solution containing alcohol.

Fulguration

Warts, moles, corns, callouses, birth marks and small growths of any nature are treated by Fulguration. Electrode No. 25 is recommended to obtain the best results, as the metal point can be adjusted by sliding the glass chamber.

The length of the spark should not be more than $1/32$ to $1/16$ inch in length. The length of the spark is tested by bringing the point of glass chamber in contact with a piece of metal and then adjusting the glass chamber. As strong a spark as is tolerable should be used.

In treating growths, do not keep the electrode in steady contact. By a tapping motion of the electrode, fulguration may be obtained with very little discomfort. First, fulgurate around the margin of the growth, then fulgurate the center. This should be done until the growth presents a brown, burnt appearance. There is rarely any bleeding, but usually quite a bit of oozing. A crust or scab will be formed which will fall off in a week to ten days, leaving no scar. If results are not obtained the first time, fulgurate again.

Be careful when treating growths of any kind so that the surrounding tissue is not fulgurated. The tissue can be protected by applying a liberal amount of vaseline around the growth.

Directions for Operating and Taking Care of High Frequency Violet Rays

Read Every Word Before Using Your Instrument

Do not use the instrument on any other voltage than marked on the name plate. We can furnish instruments to operate on all voltages.

Instruments marked 110 Volts can be operated on any voltage from 95 to 120.

(2) **Always** attach the plug of the cord to your electric light socket and turn on the current before starting to operate the instrument, and turn it off when through using. If it fails to operate after you have turned the adjusting knob on the instrument to the **right**, (the same way as you would turn a clock), as far as it will go, then examine your electric light socket. You can do this with a lamp that you know is O. K.—But even if your socket will light a lamp we would advise you to try the instrument on two or three other sockets. There are many different makes of sockets and plugs and sometimes it happens that they do not fit properly together. The center point on plug of instrument must touch center point in your electric light socket in order to make connection.

(3) Start with a mild current and increase gradually. Never take the current so strong that it is uncomfortable.

Some of the instruments have holes in the switchboard for ventilation.

Insert Electrodes into the nozzle of the rubber handle. By turning knob to the right, increases the strength and turning it to the left decreases the strength and also turns off the current. To avoid shocks and sparks, apply Electrode to bare skin before turning on the current.

Turn off and let the instrument cool off about fifteen minutes between each fifteen minutes of operation, to prolong the life of the coils.

Always hold rubber handle at end nearest cord. Holding handle near electrode, will sometimes, when current is turned on full force, cause current to jump from Electrode socket inside of handle, to the hand. This will detract some current from the Electrode and it will lose some of its efficiency.

Talcum powder applied over surface to be treated will allow electrodes to move freely, or treatment can be taken through a thin cloth. Do not oil the Generator.

If the Electrodes do not light up immediately, hold them in the hand for a few minutes while the machine is in operation. This will warm up the Electrode, and help to draw out the current unless the Electrode has become defective. Even a small crack, not visible, will cause air getting in the Electrode and destroy the vacuum.

Do not bring the glass Electrode in contact with any metal as the intense spark produced is liable to puncture the Electrode.

Insert Glass Electrode with a straight push, and remove with a straight pull. Do not twist it.

All Glass Electrodes are vacuum tubes, and while great care is exercised in their manufacture, we cannot guarantee them definitely for a specific period. Should the electrode break and the metal tip get stuck in the socket, it can be removed by unscrewing the cap of rubber handle, where cord goes through and pull out the resonator coil. By inserting a long screw driver through the large opening of handle, the metal tip can be pushed out.

(4) The instrument is adjusted to give the right amount of Current when it leaves our factory. If it is desired to get stronger current for some special treatments, loosen the set screw in the collar below the Violet Ray Adjusting Knob; turn collar one-half turn to the left, then tighten the set screw.

Sometimes when adjusting knob is turned to the right as far as it will go, the instrument will stop, but will commence operating again when the knob is turned back toward the left. In most cases this is caused by the voltage of your current falling below 100 volts; which is due to larger current

consumption than usual, when probably everybody is using the current on your line at the same time. To remedy this, follow directions in above paragraph, except that the collar should be turned about one-half turn to the right.

(5) If current seems too strong use No. 5 Sensitive Electrode.

(6) Should there ever occur a peculiar knocking noise and the glass electrode should fail to light, the Condenser should be replaced.

On some instruments the Condenser is placed on top of the switchboard. This can be removed by simply unscrewing the two knobs on either end of same.

(7) If the glass electrodes do not light up, remove it and touch Nozzle of Rubber Handle to a piece of metal. If a spark is produced the instrument is all right, but the trouble is with the electrode.

If the electrodes do not light up and there is no buzzing, or if the instrument starts and stops during treatment, the cord leading to the rubber handle may be broken. If the cord is broken very close to, or inside rubber handle, then unscrew cap of rubber handle and pull out the Resonator Coil. Sometimes you may find it difficult to remove resonator coil and it will then be necessary to push it out by inserting a screw driver through the nozzle. The cords should be soldered together and well insulated from each other with friction tape.

(9) Should the electrode break and the metal tip get stuck in the socket, it can be removed by pushing it out with a long rod or screw driver. Remove resonator coil by taking out screw on side near end where cord goes through (on outfits that have no screw the end cap be unscrewed) and the coil pulled out by the cord.

(10) If the electrode is not held tight in the socket of the nozzle of rubber handle, press together the metal socket a little, close to where it is split. The metal socket is located on the inside of the nozzle of rubber handle. This can be done with a small screw driver.

It is not necessary to have the electrodes pushed into the socket as far as they will go. Simply insert far enough so that the electrode will not turn while taking treatments.

For Operating Instruments on 220 or 250 Volts

If a Violet Ray instrument wound for 110 Volt Current is to be used on the 220 or 250 Volt Current, it is necessary to use a Resistance Unit in connection.

For operating 110 Volt instrument on 220 Volts, order Resistance Unit No. 86. Price \$6.00.

For operating 110 Volt instrument on 250 Volts, order Resistance Unit No. 87. Price \$6.00.

Care of Electrodes

Although the High Frequency Violet Rays are germicidal in character, the electrodes should be sterilized when the same electrode is used on different patients. The electrodes can be sterilized by keeping them emerged in a solution containing carbolic acid or lysol of a strength of two ounces of carbolic acid or lysol to a pint of water.

Before using electrodes, rinse off the solution in hot water and wipe dry.

Caution!

Important! If the Generator should stop while the current is on, be sure to turn the current off quickly at your electric light socket. This should be done before making adjustments to avoid damage to the Generator.

Do not use the High Frequency current on the scalp after the hair has been treated with a tonic containing alcohol, or other inflammable substance.

Do not use any electrical device that operates from an electric lamp socket when you are in a bath tub or when any part of the body is in contact with a water, gas, sewer pipe or radiator.

Ozone Treatment for

Asthma, Anemia, Bronchitis, Catarrh, Hay Fever, Rose Fever, Colds and Other Inflammations of the Upper Air Passages

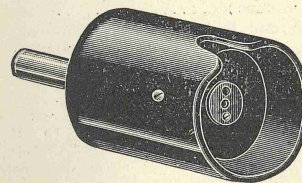
Ozone increases the oxygen of the blood and tissues. Ozone, being simply a concentrated form of oxygen. Therefore, you can readily see how beneficial ozone treatments, as taken with the Elco Health Generator, are for those working in factories, mines, offices or those troubled with Asthma, Hay Fever, Rose Fever, Colds, Catarrh, Bronchitis and their allied ills. These ailments are generally due to insufficient pure air to purify the blood. Ozone will increase the number of red corpuscles and it is claimed that a decrease in white blood corpuscles is produced if they are above normal.

Ozone Generators

These Ozone Generators Can Be Used With All Violet Ray Outfits

Ozone Inhalations are recommended for the treatment of Asthma, Anemia, Bronchitis, Hay Fever, Rose Fever, Catarrh, Coughs, Insomnia, Nervous Debility, Tuberculosis of the Lungs, and all diseases of the Respiratory Organs.

Ozone Generator No. 48



Attach the Ozone Generator to the rubber handle the same as any other electrode. Have the current as strong as possible. The Inhaler should be placed in contact with the face and with the mouth slightly open, take long, deep breaths through the mouth and nose at the same time. If it is difficult to expel the air, slightly tilt it so as to allow the air to escape. To increase the flow of Ozone, the hand may be placed around the inhaler.

Unscrew hard rubber cap and saturate the gauze with Inhalant Solution before using. This will filter the Ozone. Renew the gauze occasionally. Remove the hard rubber cap if unfiltered Ozone is wanted.

Price, complete, with one bottle Ozone Inhalant, \$7.50.

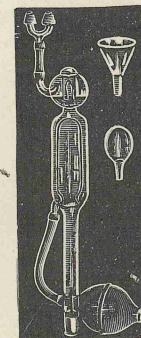
Ozone Generator No. 46

Fill the inhalant chamber one-fifth full with inhalant solution. Attach pressure bulb to lower opening, and either the nasal or mouth electrode to the upper opening. Insert the Ozone Generator securely into the rubber housing and adjust so that a strong current is obtained. The left hand should be placed around the Ozone chamber, and the bulb pressed with the other.

The nose electrode should be placed tightly against the nostrils. Inhaling should be deep and slow, and all the air from lungs completely expelled before taking another breath.

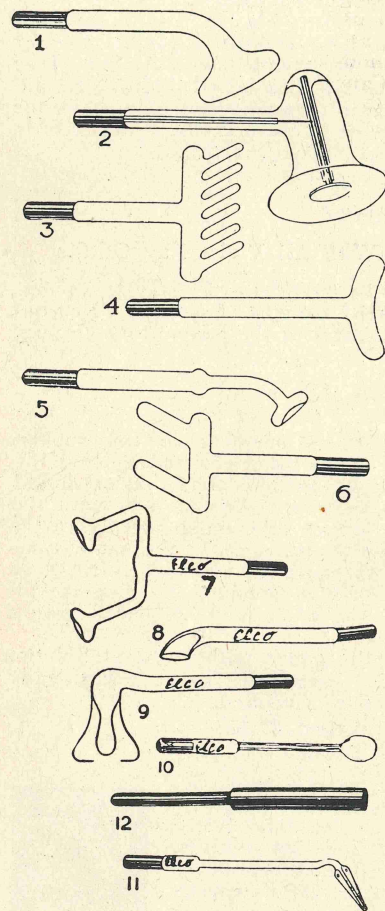
Price, complete with nose and throat piece, funnel, pressure bulb and a bottle of inhalant solution.....\$9.50

Ozone Inhalant, per bottle..... 1.00

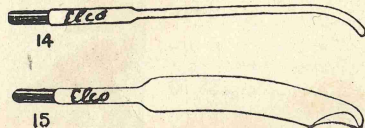


ELECTRODES

Elco Violet Ray Electrodes are made of special glass, blown by highly skilled experts. Each electrode must pass a special rigid laboratory test, to insure it being perfect in every detail. Inasmuch as electrodes are made of glass, we cannot guarantee them against breakage. Internal Electrodes should not be used except under physicians' directions.



PLAIN ELECTRODES



No. 1—Body or General Surface Electrode. For all general treatments.

Price No. 1 (Elco Quality)\$1.00
No. 1A (Common)50

No. 2—Condensed Electrode. This electrode condenses the High Frequency Violet Ray current and produces a strong, even flow of current, together with electrical heat. It is especially adapted for treating all deep seated cases, as stomach and kidney disorders, and for Rheumatism, Arthritis, Sciatica, Lumbago, Neuritis, Bronchitis, Boils, Pains, Paralysis, Obesity and Skin Diseases.

Price No. 2 (Elco Quality)\$3.00
No. 2A (Common) 1.55

No. 3—Comb Rake Electrode. Treatment will relieve Dandruff and Falling Hair, and also promote a healthy and luxuriant growth of hair. Persistent treatment is beneficial to check gray hair. This treatment is now adopted by all scalp specialists to prevent baldness.

Price No. 3 (Elco Quality)\$2.00
No. 3A (Common)95

No. 4—Throat Electrode. External. Designed to fit closely over the neck and for treating arms and legs. Exceptional results may be accomplished in treating Goitre, Tonsillitis, Double Chin and Sore Throat.

Price No. 4 (Elco Quality)\$1.50
No. 4A (Common)50

No. 5—Sensitive and Eye Electrode. This electrode is especially suited for delicate treatment of the Eye, Face, Forehead and around the Ear, Breast, etc. It is also suitable for treating Pimples, Blackheads, Wrinkles, Eczema, Facial Neuralgia, Inflamed Sinus condition and regular Facial treatments. Its shape permits it to fit snugly over the eye. With eye lid closed, treatments can be taken for weak eyes, stimulating Optic nerves, and for general eye troubles.

Price No. 5 (Elco Quality)\$1.00
No. 5A (Common)45

No. 6—Spinal Electrode. Is designed to fit both sides of vertebrae so that treatments may be applied to the nerve centers of the spine. (See chart.) "The Spinal Nerve Centers."

Price No. 6 (Elco Quality)\$1.50
No. 6A (Common)50

No. 7—Double Eye Electrode. For treating both eyes at the same time.

No. 8—Cataphoric Electrode. Made with an indentation so cotton saturated with liquids that do not contain alcohol can be used.

No. 10—Tongue or Spatula Electrode. For mouth or tongue treatment, and for crevices of the face or body.

No. 11—Ear Electrode (Insulated). For treating Deafness, especially Catarrhal Deafness, ringing in the ear, earache and chronic middle ear infections.

No. 12—Metal Saturator Electrode. This electrode is especially valuable in treating Anemia, Nervousness, Insomnia (sleeplessness), High Blood Pressure and for constitutional effects.

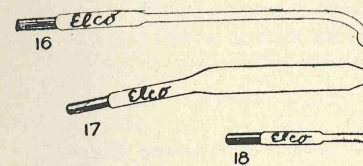
Price No. 12 (Elco Quality)\$1.00
No. 12A (Common)45

No. 14—Urethral Electrode. (Plain.)

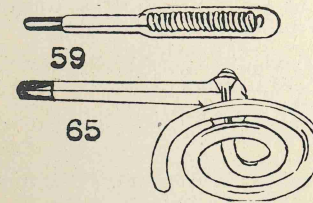
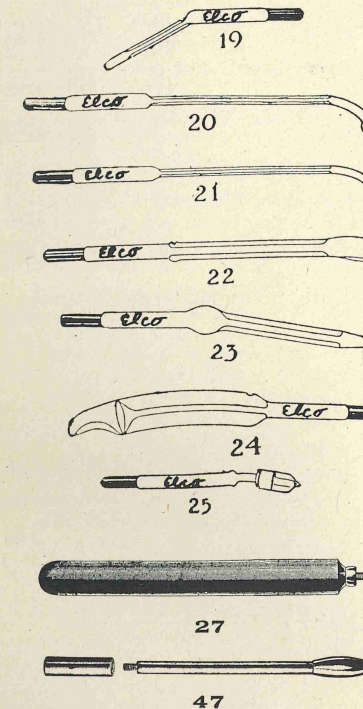
Price \$1.00
No. 15—Vaginal Electrode. (Plain.)

Price \$1.00

ELECTRODES—continued



INSULATED ELECTRODES



No. 16—Internal Throat Electrode. (Plain.)
Price \$1.00

No. 17—Rectal Electrode. (Plain.) Price \$1.00

No. 18—Corn Electrode. May also be used in treating pimples.
Price \$1.00

Insulated Electrodes

Insulated Electrodes are so constructed that the full strength of the current is delivered to the end of the electrode. This permits the current to be dispersed into the orifice of the body, without any loss. In using internal electrodes always insert the electrode into the orifice of the body before turning on the current and turn off the current before withdrawing the electrode.

No. 19—Nasal Electrode. (Insulated.) For treatment of Nasal Catarrh, Rhinitis and nose infections.
Price \$2.00

No. 20—Internal Throat Electrode. (Insulated.) For treatment of tonsillitis, tonsil ulcers and other throat conditions.
Price \$2.00

No. 21—Urethral Electrode. (Insulated.) Used for Gonorrhea, Strictures, Cystitis, etc.
Price \$2.00

No. 22—Prostatic Electrode. (Insulated.) Shaped to fit over the prostate gland. For Impotency, Enlarged or Inflamed Prostatic Gland, Rejuvenation of Organs and weakness.
Price \$2.00

No. 23—Rectal Electrode. (Insulated.) For treatment of piles, hemorrhoids, constipation and other rectal disorders.
Price \$2.00

No. 24—Vaginal Electrode. (Insulated.)
Price \$2.00

No. 25—Fulguration Electrode. Length of spark can be regulated by moving glass chamber over wire. Will remove Warts, Moles and small Growths.
Price \$2.00

Price No. 25 (Elco Quality)\$2.00
No. 25A (Common)90

No. 26—Vaginal Electrode. (Insulated with perforations.) Special construction permits Ozone to be generated within the vagina. Used in all female disorders; ovaritis, vaginitis, ovarian neuralgia, leucorrhea, all pelvic inflammations and menstrual oppressions and rejuvenation of organs.
Price \$3.00

No. 27—Vaginal Electrode. All metal, highly nickel plated. For treating Female Disorders.
Price \$3.45

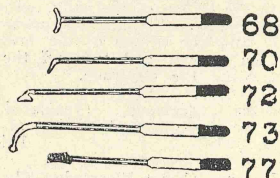
No. 47—Prostatic and Rectal Electrode. All metal, highly nickel plated.
Price \$3.45

No. 59—Glass Saturator Electrode. May be used instead of Metal Saturator Electrode, for saturation treatments. When this electrode is used current cannot be drawn from patient's body.
Price \$2.50

No. 65—Spiral Electrode. For general body treatment to cover larger area than No. 1.
Price \$3.50

Dental Electrodes Insulated

Made only in insulated types. As such splendid results have been attained in treating pyorrhea, infected gums, etc., we are listing a few of the most important dental electrodes.



No. 68—Curved Electrode. For Frontal Gum treatment. Price \$2.00

No. 70—Cavity and Diagnosing Electrode. Price \$2.00

No. 72—For spotting certain areas. Price \$2.00

No. 73—Small Ball Shaped Bulb. For general mouth treatment. Price \$2.00

No. 77—Small Curved. For general gum treatment. Price \$2.00

No. 69—Cataphoric Electrode. For carrying medicaments. Price \$2.00

No. 71—Back Gum Electrode. Price \$2.00

No. 74—Front Gum Electrode. For left side of jaw. Price \$2.00

No. 75—Front Gum Electrode. For right side of jaw. Price \$2.00

No. 76—Small Dental Fulguration Electrode. Price \$2.00

Electrodes (Not Illustrated)

No. 60. Scrotum	4.00
No. 62. Pinis, Medium	7.00
No. 64. Breast	4.00

PROSTATE GLAND TREATMENT ELECTRODE NO. 110

Combination Thermo and Violet Ray



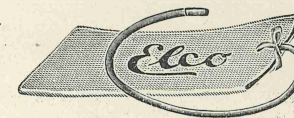
After proving the merits and results of this special prostate electrode for a long time, we do not hesitate to offer it as a home treatment for self application to those afflicted with prostate troubles.

It is a great improvement over other methods in successfully treating the prostate gland in a simple, pleasant and speedy manner.

Besides generating the proper amount of heat, it also gives the beneficial Violet Rays at the same time.

It is substantially made of polished hard rubber and metal. Directions for treatments accompany each electrode. Price \$7.50.

Elco Auto Condensation Pad No. 55



This pad is designed for localized Auto Condensation. The pad as well as the conducting cord is insulated with the best quality rubber. Special flexible construction allows pad to be placed on any portion of the body.

It can be used with any High Frequency Violet Ray instruments and is connected to the rubber handle as an ordinary electrode. These treatments can be taken by sitting on the pad or by placing the pad on any part.

There is no sensation felt in taking these treatments. To determine if the pad is working properly, a small spark can be drawn from the patient, or a glass electrode illuminated if held close to the body.

This treatment is valuable for anemia, insomnia (sleeplessness), nervousness, high blood pressure, digestive disorders, and pains in abdomen, chest and back. The tonic effect of this treatment is stimulating and soothing and is a speedy relief for mental and physical exhaustion. Those on the verge of a physical breakdown, through over-work or worry, will find invigoration and rest through these treatments.

Read what Dr. Noble M. Eberhart says—

Constitutional Effects are derived through auto condensation. These currents increase bodily heat. Some attribute the effect of these currents to the heat they develop in the tissues. In my opinion their principal effects are due to "cellular massage." They have, therefore, a great effect upon metabolism.

The effect of auto condensation in producing cellular massage is appreciated when we realize that the charge in the patient's body must return back into the circuit and then alternate with one of opposite polarity; thus, first a positive and then a negative charge is carried into the body and back again. This produces a to-and-fro wave that acts upon every cell in the organism.

SYNOPSIS OF CONSTITUTIONAL EFFECTS

Increase general metabolism.	Increase secretions.
Increase glandular activity.	Increase eliminations.
Increase temperature and bodily heat.	Lower blood pressure when hypertension exists.
Increase oxidization and hemoglobin.	Soothing to the nervous system.

Medical Books

The following books are published on the benefits derived from Electricity, Vibration, Violet Ray and Ozone. These can be purchased from any medical book store or from us.

Handbook of Electro-Therapy, by Grover Price. Price \$4.00.

Non-Surgical Treatise on Diseases of the Prostate Gland and Adnexa, by George W. Overall. Price \$3.00.

Electricity in Facial Blemishes, by Hayes. Price \$1.00.

High Frequency Practice, by B. B. Grover. Price \$6.00.

High Frequency in Medicine and Dentistry, by Dr. Monell. Price \$6.00.

High Frequency Currents, by Dr. Monell. Price \$6.00.

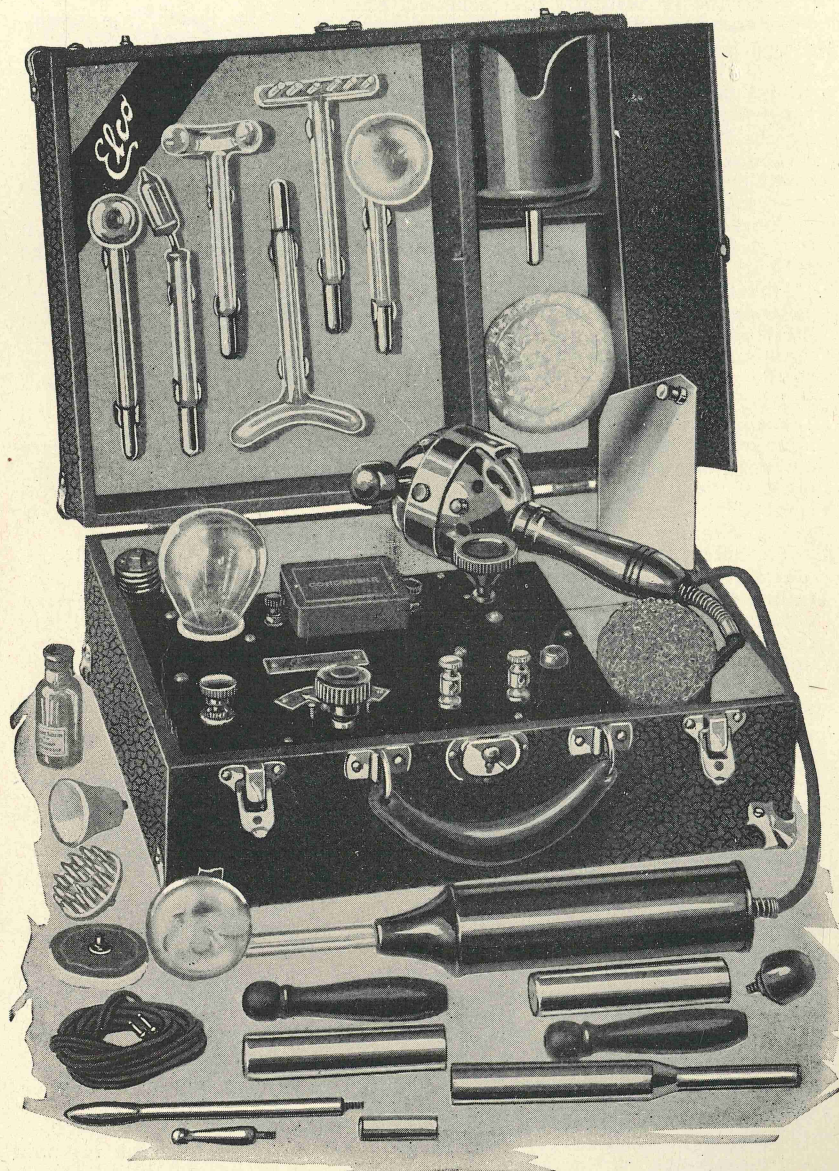
Medical Electricity for Students, by A. R. I. Browne. Price \$4.00.

Electro-Therapeutics for Practitioners, by Francis Howard Humphris, M.D. Price \$6.50.

The Sinusoidal Current as a Curative Agent, by John Harvey Kellogg.

A Brief Physiotherapy Manual, by Noble M. Eberhart, M.D. Price, \$6.00.

Elco Combination Health Generator No. 12

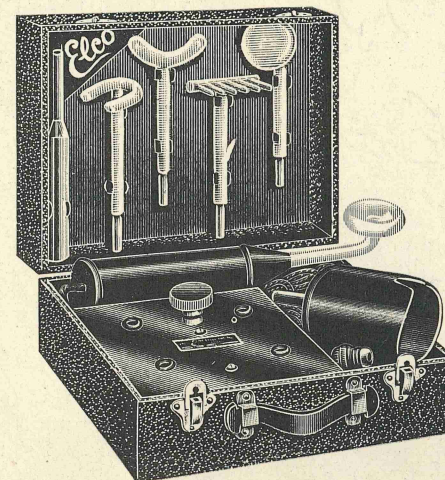


Generates Medical Electricity, Vibration, Violet Ray and Ozone.
Write for Descriptive Literature.

Elco Violet Ray No. 42

With Ozone Generator

Operates on the Electric Lighting Current
Can Also be Furnished to Operate on Batteries



Combined Medical and Beauty Outfit

This is an exceptionally splendid instrument for home use; where treatment with High Frequency Violet Ray and Ozone are indicated. The High Frequency Violet Ray is produced in large quantities of high oscillations that will saturate and stimulate the whole system. Current can be regulated in fine graduations from very mild to extra strong.

Constructed of best material and workmanship throughout. High grade leatherette carrying case, with satin lining in cover. Size $11\frac{1}{2} \times 8\frac{3}{4} \times 5\frac{3}{8}$ inches.

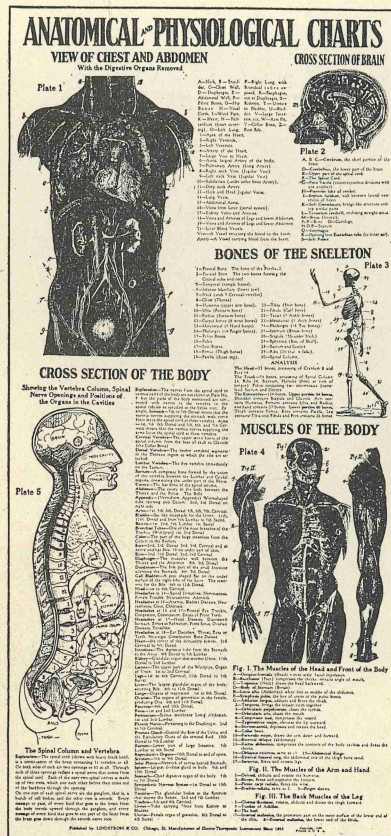
Complete direction book, with charts and instructions for operating and taking treatments is furnished.

The instrument is fully guaranteed, except the glass electrodes.

Furnished with No. 1 Body electrode, No. 3 Comb Rake electrode, No. 4 External Throat electrode, No. 6 Spinal electrode, No. 12 Metal Saturator electrode, and No. 48 Ozone Generator with bottle of Ozone Inhalant.

Net weight 6 lbs. Shipping weight 10 lbs.

Anatomical and Physiological Chart



This chart should be in every home. It will aid you in studying your body to find out where your ailment may be located. It aids in quickly determining what pains mean and thereby may save a life at any time. For instance, this chart will help you locate vermiform appendix pains. Hundreds of lives might have been saved if patients had known the location and character of the pain and received proper attention.

It illustrates and names the bones of the skeleton, shows location of organs, view of chest and abdomen with digestive organs removed and tell where the nerves of the major portions of the body enter the spinal cord.

It is written in plain language so that anyone can understand. The size is 13½x28 inches. Printed in colors on heavy glossed paper and mounted on metal rods at top and bottom. It is suitable for hanging on the wall or rolled up and kept in a drawer.

Price, postpaid\$3.50

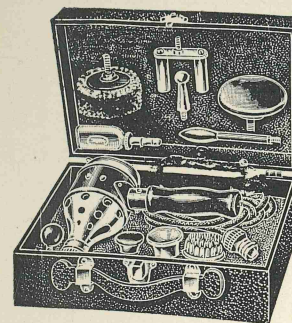
Cellular Massage

The treatments from the High Frequency Violet Ray produce "Cellular Massage," which is very penetrating and acts on diseased tissues, nerves and cells of the body, either by its stimulating or sedative actions.

By generating internal heat, and heat vibrations, electrical stimulations and ozone, diseases produced by germ infections, stagnation of blood, faulty circulation and congestion are treated.

The penetrating healing powers enter, charge and flow from the body in great volume, helping to conquer and drive away pain, disease and weakness.

The remarkable influence can be ascertained if the patient holds the metal electrode and another person holds a glass electrode several inches away from the patient. The glass electrode will light up, showing that currents not only enter the body, but also flow out.



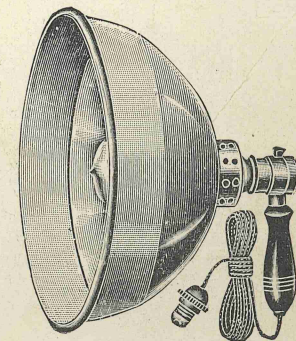
No. 121C. This Electric Massage Vibrator is suitable for both home and professional use. Operates on either the Direct or Alternating Current, 100 to 120 Volts. Equipped with speed regulator and on and off switch conveniently located. It is operated by a high grade, well balanced motor. Both rotary and percussion movements can be obtained.

Furnished with applicators No. 51 soft rubber face, No. 52 soft rubber scalp, No. 53 ball, No. 54 soft rubber sponge, No. 84 small flat disc, No. 55 large flat disc, No. 57 spinal, No. 82 metal ball (small), No. 86 rectal and prostatic; also oil can and Direction Book. Contained in a substantial and attractive leatherette carrying case. Guaranteed for One Year. Shipping weight 6 lbs.

ELCO THERAPEUTIC "SUN RAY" LAMP

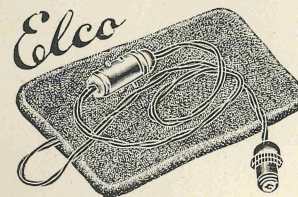
Have "Sun Ray" in Your Home at All Times—It Surely Bakes out Pain

No. 325. A substantial, high grade, scientifically built Therapeutic Lamp of special design. It is known as "Professional Model" because it is recommended and approved by the medical profession, and accepted as standard design among doctors, hospitals, health resorts, sanatoriums and beauty experts.



The reflector is constructed of heavy aluminum. Diameter is 7½ inches. Furnished with a 260 Watt Bulb. Equipped with switch conveniently located on handle, and 6 feet of flexible cord. Can be attached to any electric light socket.

Elco Heating Pad



No. 60. Three Heat Pad. Size 12x15 inches. Constructed of best material throughout. Each pad is tested separate and thermostat tested and set at proper breaking point, while in the pad. The element is sewed on pure asbestos yarn, then sewed on best 8 oz. quality duck and covered with drill. All connections are soldered and non-corrosive.

The Pad is made of Eiderdown "Eberon Wool" and Sanitary Cover is of Nainsook. High grade three heat switch, attached on 10-foot silk covered, very pliable heater cord. Put up in cardboard box. Colors: Tan, maize, grey, white. Tan furnished unless otherwise specified.

SEND FOR COMPLETE CATALOG

HEALTH, POWER AND BEAUTY