

Molecular Hydrogen Case Studies

Introduction: The following is excerpted from an international patent application for a particular form of gas generator.

The Gas generator we distribute produces the exact same "Brown's Gas" (named after the discoverer Yull Brown in the 1970's) as is described in the following. Being composed of mono-atomic and diatomic (Molecular) Hydrogen, as well as mono-atomic and diatomic Oxygen, it contains the gas that the researches have studied in its segregated state. Brown's Gas has other properties and energies that are also very beneficial to the human body. This gas has been safely used in deep water diving since the 1940's, to remove the risk of decompression sickness, and Nitrogen narcosis when Nitrogen is in the gas that is breathed at depths.

The generator the patent applicant used in his treatments created a lot more gas each minute than the Gas generator does, so he was able to "spray" it out. However, we have found that the Gas generator produces enough to get major effects, as it is a quality issue, versus just quantity that has been observed in the studies done in Asia.

Here is the excerpt - followed by 39 Case Studies performed by the patent applicant.

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Efficacies of Brown's gas currently found by the present inventor are as follows.

1. Elimination or alleviation of myalgia

When Brown's gas was sprayed on the region of the body where myalgia, frozen shoulder, muscular stiffness such as neck stiffness, or bruises is located, 10 alleviation or elimination of pain by rapid relaxation of a muscle was observed. Further, a bruise at a bruised region disappeared and normal skin color was regained.

These phenomena can be explained as follows: sprayed Brown's gas is 15 absorbed in skin and hydrates the muscle where pain occurs to recover the

tissues of the muscle, resulting in elimination of the pain by relaxation of the muscle.

20 2. Alleviation of symptoms and pain of rheumatoid arthritis, degenerative arthritis, etc

When Brown's gas was sprayed onto the lesional regions of patients who suffered from rheumatoid arthritis, knee arthralgia, wrist arthralgia, and knuckle arthralgia, the patients felt less pain and that the joints were relaxed. Acute pain was alleviated by spraying occurred only once. Some patients underwent

pain alleviation so that they had a normal life. These therapeutic effects continued for a considerably extended period of time. Furthermore, in patients who suffered from an aftereffect of knee joint surgery (cruciate ligament implant surgery, cartilage implant surgery), recovery of joint function, together with pain 5 alleviation, was observed. Improvement in the symptoms of Achilles myositis was also observed.

Like for myalgia, these phenomena can be explained as follows: Brown's gas is absorbed through skin and supplies moisture to joint synovial fluid to lubricate joints. There is another interpretation based on the second theory of 10 Brown's gas that monatomic hydrogen contained in Brown's gas serves as active hydrogen in the body. That is, rheumatoid arthritis is known to be an autoimmune disease that spontaneously creates an inflammatory substance that attacks joint synovium, causing joint inflammation. High level of the inflammatory substance intensifies pain, whereas low level of the inflammatory 15 substance alleviates pain. Even though the creation of the inflammatory substance is attributed to a genetic factor and an environmental factor, the gene of interest has not been identified. However, it is known that active oxygen plays an important role in the creation of the inflammatory substance. A serum test

shows a remarkably reduced level of an antioxidative ingredient in a patient
20 with rheumatoid arthritis, relative to a normal person. In this respect, many
attempts have been made to use an antioxidant as an anti-inflammatory agent.
Thus, it is thought that active hydrogen, known to serve as an antagonist to
active oxygen in the body, alleviates rheumatoid arthritis. Further, the spraying
of Brown's gas improved the node and inflammation by gout, which can also
be
explained similarly to that described above.

3. Alleviation of the symptoms of intervertebral disc

Like for arthritis, patients with intervertebral disc experienced alleviation of
5 pain and symptoms after spraying Brown's gas on a lesional region. The
alleviation of pain and symptoms is attributed to hydration of the lesional tissue
of intervertebral disc by Brown's gas absorbed through skin.

4. Elimination or alleviation of headache

10 When Brown's gas was sprayed on the necks of patients with severe
headache, including chronic headache, migraine, and acute headache by impact
applied to the cervical vertebrae in car accident, the patients had a clear
head and rapid alleviation or elimination of headaches. Further, the
therapeutic effect continued over a prolonged period of time (six months, at
15 present) after therapy with Brown's gas.

These phenomena can be explained as follows: sprayed Brown's gas is
absorbed in neck skin and hydrates neck muscles. Therefore, muscle tissues are
relaxed and thus contracted blood vessels are restored to normal. As a result,
blood flow increases and sufficient oxygen supply to the brain is
20 achieved, resulting in disappearance of headache.

5. Elimination of inflammation in wounded region and body region affected by bacterial inflammation, or rapid recovery of the affected regions When Brown's gas was directly sprayed on a wounded region of the body,

it was observed that the wound was rapidly cured. Furthermore, when Brown's gas was sprayed on the body region affected by bacterial inflammation such as laryngitis, otitis media, and sinus infections (ozena), alleviation or rapid elimination of inflammation was observed. This might be possible because 5 Brown's gas destructs or prevents the growth of anaerobic microorganism in the wounded region and various microorganisms in the body region affected by inflammation, and at the same time, helps cell restoration in the wounded region and the body region affected by inflammation. The destruction and prevention of the growth of microorganisms can be sufficiently explained assuming that 10 Brown's gas contains large amounts of reactive oxygen, in particular monatomic and diatomic oxygen based on the second theory of Brown's gas.

6. Prevention of inflammatory and allergic cutaneous reaction

When Brown's gas was sprayed on the skin where allergic reaction 15 occurred, complete disappearance of allergy symptoms was observed. Furthermore, when Brown's gas was sprayed on the skin where non-infectious inflammatory reaction occurred, remarkable improvement of inflammation was observed by spraying occurred only once. It was also observed that the spraying of Brown's gas is effective for the treatment of eye's movement 20 relating nerve disorder due to inflammation in nerve cells at the back part of the head. These therapeutic effects are attributed to cell restoration by hydration of target skin cells by Brown's gas.

It is expected that the effect of Brown's gas on skin can be extended to skin tissue restoration, moisturizing, anti-aging, etc. Therefore, Brown's gas

can also be used as a skin-moisturizing agent for cosmetic purpose.

7. Pain removal or alleviation

5 When Brown's gas was applied to patients with sciatica, pain in right
pelvis, pain by the bone fracture of ankle joint, pain by the bone fracture of wrist
joint, pain by herpes shingles, toothache, menstrual pain, etc., considerable pain
alleviation was observed.

8. Ocular disease

10 Patients with ocular diseases such as simple ocular congestion and
afterimage, sties, epidemic keratoconjunctivitis, glaucoma, and cataract
experienced considerable disease improvement effects by spraying of Brown's
gas.

9. Parkinson's disease

15 When Brown's gas was sprayed on patients with Parkinson's disease,
considerable improvement in paralysis of limbs, speech disorder, dribbling by
excessive salivation, head shaking, trembling of hands, etc. was observed.

20 Furthermore, symptoms removal, improvement, or relief in insomnia by
nervousness, myasthenia by muscle weakness, chilly hands and feet by blood
circulation dysfunction, asthma, gastritis and gastric ulcer, panic disorder,
diabetic peripheral neuropathy, trouble in the left chest by stricture of the heart,
breathing discomfort, etc. was observed.

In addition to cure or improvement of symptoms during or after therapy with Brown's gas, patients experienced the following common effects.

- Lightness and clearness of the head.
- Lightness of the body and good condition.
- 5 - Disappearance of the dimness and redness in the eyes.
- Warm hands and feet and perspiration.
- Good sleep.

These effects are attributed to promoted blood circulation by spraying of Brown's gas, resulting in smooth blood supply to various regions in the body.

10

It is thought that the aforementioned many effects of Brown's gas on the body are closely related to the action and physiological efficacy of water in the body. Therefore, the present inventor thinks that a basic mechanism that can explain the effect of Brown' gas on the body is absorption of Brown's gas through skin, moisture supply and hydration for target tissues, cells, or organs. However, the effect of Brown's gas on the aforementioned various diseases cannot be explained only by simple hydration. Therefore, the present inventor thinks that there will be a more complicated therapeutic mechanism model of Brown's gas. Thus, the present inventor presumes that basic 20 therapeutic mechanism of Brown's gas is strong immunity and activation of the body by smooth blood circulation which are induced by transfer of high energy to a lesional region. In summary, from microscopic points of view, it is thought that high energy transformed into a water gas form called Brown's gas hydrates cell tissues, which activates cells, resulting in cure of lesions.

Symptoms and results in Examples

In the following all Examples, symptoms of diseases and therapeutic results thereof were provided based on the subjective symptoms of patients.

Example 1

Subject: female with the age of 72

Symptoms: degenerative arthritis of two knees; severe pain and stiffness in standing and walking, and numbness.

5 Treatment and effect:

(1) Brown's gas was sprayed on the right knee joint for 30 minutes and on the left knee joint for 30 minutes with a 20-minute pause between the two spraying. Immediately after the spraying, the joints were relaxed and the pain completely disappeared. The patient could walk at a brisk pace on a flat

10 ground with no assistance and did not feel severe pain when she went up and down the stairs.

(2) At the next day after the treatment, the patient felt pain in the knee joints in walking even though the level of the pain was remarkably slight, showing that the therapeutic effect was maintained during the post-treatment 15 period.

(3) At three days after the treatment, a secondary treatment was performed in the same manner as in the section (1).

(4) At two weeks after the secondary treatment, the therapeutic effects were maintained to an extent that the knee joints were relaxed and almost no
20 pain was felt.

The therapeutic effects were identified by X-ray images before and after the treatment with Brown's gas. FIG. 5A is an X-ray image before the primary treatment of the section (1) (November 21, 2003) and FIG. 5B is an X-ray image at two weeks after the secondary treatment of the section (3) (December 31,2003).

Example 2

Subject: female with the age of 54

5 Symptoms: disc symptoms: numbness in the left hand (usual), continued loss of sensation (often) and the fifth and sixth cervical disc fusion (according to the orthopedic diagnosis); severe pain in the left shoulder and arm and stiffness in movement of the arm.

Treatment and effect:

10 1. Primary treatment and effect

(1) First, Brown's gas was sprayed on the fifth and sixth cervical vertebrae for about 15 minutes.

(2) After 5 minutes of the spraying, knuckles were relaxed and the numbness of the hands was gradually alleviated. Pain of the left shoulder
15 disappeared so that the patient could raise her left hand and draw a circle.

(3) Additionally, the spraying of Brown's gas was performed for 45 minutes three times (15 minutes for each). The numbness of the hands completely disappeared within one hour after the treatment. Sensation of the tips of the left knuckles was recovered.

20 (4) At the next day after the treatment, the improved symptoms were maintained.

2. Secondary treatment and effect

(5) At one week after the primary treatment, the patient complained of similar pain before the primary treatment. Brown's gas was sprayed on the

shoulder and the fifth and sixth cervical vertebrae for about 15 minutes. During the spraying, the hand numbness completely disappeared and the arm pain started to disappear. After a 20-minute pause of the spraying, Brown's gas was again sprayed on the shoulder and arm for 15 minutes. The shoulder and 5 arm pain was remarkably alleviated so that the arm could move freely. After 45 minutes, Brown's gas was again sprayed on the shoulder and the disc regions for 15 minutes. The pain completely disappeared and color was regained.

(6) At the next day after the treatment, the shoulder was remarkably 10 relaxed but there was slight pain in the movement of the arm.

Example 3

Subject: female with the age of 68

Symptoms: degenerative arthritis of two knees: severe pain and stiffness 15 in standing and walking, and numbness.

Treatment and effect:

(1) Brown's gas was sprayed on the right knee joint for 15 minutes and then on the left knee joint for 15 minutes. Immediately after the spraying, the patient could walk at a brisk pace and the pain completely disappeared. The 20 patient could walk on a flat ground with no assistance and felt no pain when she went up and down the stairs.

(2) After a 20-minute pause of the spraying, Brown's gas was additionally sprayed on the right and left knee joints (5 minutes for each).

(3) At the next day of the treatment, there was no pain in the left knee joint

but pain was felt in the right knee joint.

(4) At four weeks after the treatment, the therapeutic effects were maintained to an extent that the left knee joint was relaxed and no pain was felt.

5 Example 4

Subject: female with the age of 76

Symptoms: degenerative arthritis of the left knee: remarkably swollen knee joint. In particular, severe pain due to contact between the two bones of the knee joint in walking at stairs or a slope.

10 Treatment and effect:

(1) Brown's gas was sprayed on the left knee joint remarkably swollen by inflammation for 15 minutes. Immediately after the spraying, the knee joint was relaxed and the pain completely disappeared, and the patient could walk at a brisk pace. The patient could walk on a flat ground with no assistance and

15 did not feel severe pain when she went up and down the stairs. Also, it was visually observed that the swelling subsided at the knee joint swollen by inflammation.

(2) After a 20-minute pause of the spraying, Brown's gas was again sprayed on the knee joint for 15 minutes. Additionally, the spraying of Brown's 20 gas was repeated twice in the same manner.

(3) At the next day after the treatment, the pain of the knee joint in walking was remarkably alleviated, showing that the therapeutic effect was maintained during the post-treatment period.

Example 5

Subject: female with the age of 50

Symptoms: severe headache above 10 years.

Treatment and effect:

- 5 (1) Brown's gas was sprayed on the back part of the neck for 15 minutes and on the both shoulders for 10 minutes (for each). During the spraying, the back part of the neck was relaxed and disappearance of headache was felt. After the spraying, the headache disappeared. In addition, the dimness and redness in the bloodshot eyes were removed.
- 10 (2) At the next day after the treatment, slight headache was felt.
- (3) At two weeks after the treatment, only slight headache was felt.

Example 6

Subject: the same person in Example 2

- 15 Symptoms: stretched ligament of the right foot: severe pain and stiffness in walking.

Treatment and effect:

- (1) Brown's gas was sprayed on the right foot for 5 minutes. Immediately after the spraying, the patient stood up and walked, and no pain was felt.
- 20 (2) At the next day after the treatment, no pain was felt in the right foot in walking.
- (3) At ten days after the treatment, the ligament of the right foot was completely cured.

Example 7

Subject: male with the age of 45

Symptoms: right shoulder shock during exercising. In office hours, frozen shoulder spread to the neck so that the neck could not be bent back. Reddish 5 neck due to allergic symptoms at the neck skin.

Treatment and effect:

(1) Brown's gas was sprayed on the shoulder and neck for 15 minutes. The pain completely disappeared. Brown's gas was again sprayed on the feet for 5 minutes.

10 (2) Immediately after the spraying, the patient stood up and walked and felt no pain. In addition, the allergic symptoms at the neck skin completely disappeared and thus the neck skin was restored to normal color.

(3) At the next day after the treatment, no pain was felt and the neck and shoulder was restored to a normal condition.

15 (4) At the three days after the treatment, slight pain was felt in the affected shoulder but there was no trouble in performing daily routine activities.

(5) At 18 days after the treatment, the symptoms were completely cured.

Example 8

20 Subject: male with the age of 44

Symptoms: chronic waist pain and numbness in the both big toes.

Treatment and effect:

(1) Brown's gas was sprayed on the waist for 20 minutes. The patient felt remarkably alleviated pain.

(2) At three days after the treatment, severe waist pain was again felt.

Example 9

Subject: male with the age of 58

5 Symptoms: acute stomachache.

Treatment and effect:

(1) Brown's gas was sprayed on the abdomen with pain for 15 minutes.

(2) Unlike before the spraying in which the abdominal pain was too severe to move, immediately after the spraying, the abdominal pain completely 10 disappeared.

Example 10

Subject: female with the age of 47

15 Symptoms: severe headache above 10 years; edema in the shoulder, the neck, etc., and stiffness in walking, arm raising, and shoulder spinning due to severe pain.

Treatment and effect:

(1) Brown's gas was sprayed on the neck for about 20 minutes. At five minutes after initiation of the spraying, the dimness of the eyes was improved. 20 When the spraying was completed, the patient could gradually spin his neck. The head became clear and the headache disappeared.

(2) Brown's gas was sprayed on the shoulder and the chest five times (20 minutes for each). The patient experienced considerable alleviation of the pain, lightness of the body, and free motion.

Example 11

Subject: male with the age of 51

Symptoms: good condition and no particular disease, but dim eyes when
5 tired.

Treatment and effect:

(1) Brown's gas was sprayed on the neck for about 15 minutes. The dimness of the eyes started to disappear. Small characters at far distance started to be viewed.

10 (2) At the next day after the treatment, activation of the body was felt. In spite of insufficient sleeping, no fatigue was felt and eyesight was regained.

Example 12

Subject: female with the age of 45

15 Symptoms: acute waist pain upon waking. Even during sleeping, the waist pain was too severe to move.

Treatment and effect:

(1) Brown's gas was intensively sprayed on the waist pain region for 25 minutes. At the night of the even day (at 6 hours after the spraying), the 20 spraying of Brown's gas on the same region was additionally performed for 15 minutes.

(2) Until the next day after the treatment, the patient felt no pain during sleeping and had a sound sleep. No waist pain upon waking was felt.

Example 13

Subject: male with the age of 48

Symptoms: acute waist pain and systemic myalgia due to unexpected physical labor (mowing); pain in head shaking and discomfort in sleeping and 5 movement.

Treatment and effect:

(1) Lumbago: Brown's gas was sprayed on the pain region for about 20 minutes.

(2) Myalgia: Brown's gas was sprayed on the shoulder and the muscles 10 and ligaments that support the spine for about 10 minutes.

(3) Immediately after the spraying, the lumbago was alleviated and the myalgia was cured so that the head could be freely shaken. After the treatment, the symptoms were continuously improved with time. At six hours after the treatment, no pain was felt.

15 (4) At two days after the treatment, the symptoms of both the lumbago and myalgia disappeared and no pain was felt. It was considered that the patient was completely cured.

(5) As a result of the intermittent examinations during one month after the treatment, it was concluded that the patient was completely cured.

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Example 14

Subject: male with the age of 51

Symptoms: disc symptoms: numbness in the both hands (usual), continued loss of sensation (often); frozen shoulder was too severe to sleep;

stiffness and pain in the neck.

Treatment and effect:

(1) Brown's gas was sprayed on the neck, shoulder, the fifth and sixth cervical vertebrae, and the waist for about 10-15 minutes (for each).

5 (2) At five minutes after initiation of the spraying on the cervical vertebrae, the numbness of the both hands was gradually alleviated. Within one hour after the termination of the spraying, the numbness of the hands completely disappeared. Sensation of the hands was recovered. Further, during the spraying, the head became clear.

10 (3) As a result of the intermittent examinations during one month after the treatment, it was concluded that the numbness of the hands due to the disc completely disappeared.

Example 15

15 Subject: male with the age of 55

Symptoms: muscular sclerosis of the shoulder and neck above 10 years: severe headache and stiffness in the neck and shoulder.

Treatment and effect:

(1) Brown's gas was once sprayed on the shoulder and neck for 15 20 minutes. The neck was relaxed and the headache disappeared.

(2) At 30 minutes after the treatment, Brown's gas was again sprayed on the same regions for 15 minutes. At 30 minutes after the treatment, Brown's gas was again sprayed on the same regions for 10 minutes. The eyesight was regained and the redness of the bloodshot eyes before the spraying

disappeared, like in use of an eye lotion. The shoulder and neck were remarkably relaxed so that the patient could behave naturally, and the pain almost completely disappeared. Further, the patient became energetic so that he did not feel fatigue.

- 5 (3) As a result of the intermittent examinations during two months after the treatment, it was concluded that the headache completely disappeared.

Example 16

Subject: male with the age of 48

- 10 Symptoms: continued lumbago and neck myalgia through overwork for recent several days; prescription drugs or medicines had not yet been received. Treatment and effect:

(1) Brown's gas was sprayed on the lumbago region for 20 minutes and then on the neck myalgia region for 5 minutes. Immediately after the spraying, 15 the pain completely disappeared. The patient did not feel discomfort and became energetic.

(2) At the next day after the treatment, no symptoms of the lumbago and the neck myalgia were observed. The patient became energetic and felt a good condition.

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Example 17

Subject: male with the age of 68

Symptoms: dwarfness; numbness and loss of sensation in the left leg due to the waist disc; pain of the right hand (frozen shoulder, elbow arthralgia) due

to the cervical disc; and arthritis in the both knees. Treatment and effect:

(1) First, Brown's gas was sprayed on the cervical disc region (fifth and sixth cervical vertebrae) for 10 minutes. The pain was felt in the disc region 5 before the spraying, whereas the pain disappeared at five minutes after the spraying. The frozen shoulder also gradually disappeared.

(2) Brown's gas was sprayed on the elbow with severe pain for 10 minutes. The pain gradually disappeared. Brown's gas was again continuously sprayed on the elbow for 10 minutes.

10 (3) At the next day after the treatment, Brown's gas was sprayed on the right knee joint for 15 minutes. Immediately after the spraying, the patient could go up and down the stairs with no trouble. Brown's gas was sprayed on the left knee joint for 15 minutes. The left foot became warm and the pain of the knee joint disappeared. After 20 minutes, Brown's gas was continuously
15 sprayed on the waist (lumbar vertebrae) for 15 minutes. After the spraying, the patient could easily go up and down the stairs. The color of the patient was regained and the body became warm. The patient, who had been considered as "hopeless case" before the treatment, experienced remarkably alleviated pain and natural behavior after the treatment.

20 (4) At two days after the treatment, the following improvements were observed.

- Disappearance of the pain in the right shoulder and arm due to the disc.
- Complete disappearance of numbness in the left leg.
- Disappearance of the arthritis symptoms in the both knees and no

stiffness in walking at stairs.

Example 18

Subject: male with the age of 56

5 Symptoms: pain due to waist disc dislodgement; stiffness in usual walking; and numbness in the left leg.

Treatment and effect:

(1) First, Brown's gas was sprayed on the waist (lumbar vertebrae) for 20 minutes. Unlike before the spraying, the patient could easily rise from his seat
10 after the spraying. After a 20-minute pause of the spraying, Brown's gas was again sprayed on the same region for 30 minutes. After 1.5 hours, Brown's gas was again sprayed on the same region for 30 minutes.

(2) At the next day of the treatment, the numbness of the left leg disappeared and the waist pain was also remarkably alleviated.

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Example 19

Subject: male with the age of 74

Symptoms: severe pain of the right knee joint; sciatica; severe knee pain and severe stiffness in walking.

20 Treatment and effect:

(1) Brown's gas was sprayed on the knee for 15 minutes. After the spraying, the knee pain completely disappeared. The patient could rise from his seat and go up and down the stairs with no assistance. After a 20-minute pause of the spraying, Brown's gas was sprayed on the waist for 20 minutes.

After the spraying, the legs were relaxed and little stiffness in walking was felt. (2) At the next day of the treatment, the therapeutic effects were maintained and thus no pain was felt.

5 **Example 20**

Subject: male child with the age of 10

Symptoms: myasthenia, which is presently known as an incurable disease: no muscular growth, muscle weakness, and lying down through life.

Treatment and effect:

10 (1) Spraying of Brown's gas was focused on stretching of the contracted ligament of the heels inhibiting walking to achieve muscle relaxation. Primarily, Brown's gas was sprayed on the ligament of the right heel for about 20 minutes. During the spraying, to correct a bouncy walk, the ankles were allowed to be bent forward. After a 20-minute pause of the spraying, the same treatment
15 was applied to the ligament of the left heel. The patient could stand up only for less than three seconds before the spraying, whereas he could stand up for more than 50 seconds after the spraying. The two arms, which had been usually cold before the spraying, became warm. The patient felt energy.

(2) At the next day of the treatment, it was reported that the patient had a 20 sound sleep. However, unlike on the day of the treatment, the patient could not stand up for a long time. However, rehabilitation could be made easier.

(3) At two days after the treatment, a secondary treatment was performed in the same manner as in the primary treatment. The patient could stand up for more than 50-60 seconds after the spraying, like in the primary treatment.

(4) At four days after the secondary treatment, rehabilitation could be made much easier.

Example 21

5 Subject: male with the age of 53

Symptoms: Parkinson's disease: right hand/foot paralysis. The patient was under paralysis therapeutic drug intake (4-5 times per day).

Treatment and effect:

1. Primary treatment

10 (1) Brown's gas was sprayed on the neck (cervical vertebrae) and the head for 10 minutes and then on the right shoulder for 20 minutes. During the spraying, the paralysis symptoms of the right shoulder and arm started to disappear. Also, the paralysis symptoms of the right leg almost completely disappeared (85% recovery rate). The patient could stand up and walk and 15 spin the shoulder, like a normal person. After 30-minute pause of the spraying, Brown's gas was again sprayed on the same regions for 20 minutes. (2) During a 1.5-hour pause of the spraying, slight paralysis symptom appeared. After initiating an exercise, the paralysis disappeared.

2. Secondary treatment

20 (1) At five hours after the primary treatment, Brown's gas was sprayed on the same regions for 30 minutes. At five minutes after initiation of the spraying, the paralysis symptom of the arm completely disappeared. At 10 minutes after initiation of the spraying, the paralysis symptom of the leg also completely disappeared.

(2) In comparison between the primary and secondary treatments, the patient condition after the secondary treatment was much improved, relative to that after the primary treatment. The paralysis completely disappeared and 100% normal condition was recovered.

5 (3) At four hours after the secondary treatment, the normal condition was maintained.

Example 22

Subject: female with the age of 45

10 Symptoms: left frozen shoulder and left head migraine

Treatment and effect:

(1) Brown's gas was sprayed on the left shoulder for 30 minutes. At 10 minutes after initiation of the spraying, the left shoulder was relaxed. During the continued spraying, the migraine disappeared and the left head was
15 relaxed. At 30 minutes after initiation of the spraying, the pain completely disappeared and the head became clear.

(2) At the next day of the treatment, the head became clear, the migraine disappeared, and the left shoulder was relaxed.

(3) At the three days of the treatment, slight pain was felt but the patient
20 condition was improved by 70% or more.

Example 23

Subject: male with the age of 59

Symptoms: gout: dark blue and swollen right foot, paralysis of the bottom

of the foot, and severe pain; diabetic peripheral neuropathy; pain in the right shoulder: difficulty in arm spinning and movement, and severe pain; and rheumatoid arthritis in the both hands.

Treatment and effect:

5 (1) Brown's gas was sprayed on the shoulder and cervical vertebrae (fifth and sixth cervical vertebrae) for 25 minutes and 5 minutes, respectively. During the spraying, the frozen shoulder completely disappeared. Also, the finger pain of the both hands disappeared and the both hands were relaxed.

(2) Brown's gas was sprayed on the top side of the left foot for about
30
10 minutes. At 2-3 minutes after initiation of the spraying, the swelling of the swollen top side of the foot subsided remarkably and the dark blue skin color was also changed to a normal skin color. The severe pain was alleviated and the paralysis disappeared. Immediately after the spraying, the patient could rise from his seat and walk with no pain.

15 (3) At the next day (at 15 hours) after the treatment, it was reported that the patient had a sound sleep, the right frozen shoulder completely disappeared, and the swollen left foot was restored to a normal condition. Pain was felt at an upper part of the leg joint but was at a remarkably alleviated level relative to the pain before the treatment. These effects are attributed to the
20 function of Brown's gas as an antioxidant reducing the level of uric acid which is a causative substance of gout.

(4) At three hours, no frozen shoulder was felt and the shoulder was significantly relaxed. The right foot was also maintained at normal condition. With respect to the right leg on which Brown's gas had not been sprayed, the

pain was alleviated and the swelling disappeared. Even though Brown's gas was sprayed on only the shoulder and neck, the pain of the both hands disappeared. Even though Brown's gas was sprayed on only the left leg, the therapeutic effect was also observed on the right leg. The phenomena might

- 5 be possible because Brown's gas does not stay in its application region but is absorbed in the body and then circulated through the blood stream in the body.

Example 24

Subject: male with the age of 80

- 10 Symptoms: herpes shingles; severe pain like bee stinging, stinging and severe pain even when the hands or clothes brushed against the pain region, and hard life due to continued pain for three years.

Treatment and effect:

(1) Primarily, Brown's gas was sprayed on the back with pain for 40 15 minutes. The pain was alleviated by 70%.

(2) Secondly, Brown's gas was sprayed on the chest for 30 minutes.

The pain was remarkably alleviated.

(3) Brown's gas was again sprayed on the back. The pain was considerably alleviated so that little pain was felt, as compared to the primary 20 and secondary spraying. Next, Brown's gas was sprayed on the left chest. The right chest pain completely disappeared.

(4) The hands and feet became warm by improved blood circulation of the body. Further, unlike before the treatment, a light body condition was maintained.

Example 25

Subject: female with the age of 81

Symptoms: herpes shingles, waist pain, and sciatica

Treatment and effect:

5 (1) Brown's gas was sprayed on the waist (lumbar vertebrae) for
30

minutes. The patient suffered from waist and leg pain in walking due to sciatica before the treatment, whereas the left pelvis and knees were relaxed, no pain was felt, and no discomfort was felt in walking, after the treatment.

(2) Brown's gas was also sprayed on the herpes shingles region. The 10 feeling of relaxation was felt and the pain was remarkably alleviated.

Example 26

Subject: male with the age of 44

Symptoms: eye's movement relating nerve disorder; 10 years ago, 15 inflammation formed in the back part of the head, in which sensory neurons are distributed, affected the optic nerve, thereby resulting in stiffness in facial muscle, stiffness and redness in the eyes.

Treatment and effect:

(1) Brown's gas was sprayed on the back part of the neck for 30 minutes. 20 At five minutes after the spraying, stiffness in the eyes was remarkably alleviated. Also, the facial muscle was relaxed and the redness in the eyes was removed.

(2) At the next day after the treatment, the patient still maintained improved conditions even though the improved conditions did not reach the

improved conditions immediately after the treatment. It was expected that continued treatment would result in remarkable improvement.

(3) At two days after the treatment, the condition of the eyes was still good. Even when the condition of the eyes became bad, it was rapidly
5 recovered by a good rest, unlike before the treatment.

Example 27

Subject: male with the age of 39

Symptoms: tonsillitis due to a cold: difficult to swallow saliva and pain in
10 the left shoulder and the right
arm.

Treatment and effect:

(1) Brown's gas was sprayed on the neck for 30 minutes. The symptoms were improved so that the patient could swallow saliva. The patient was restored to a normal condition by complete removal of the pain by the continued 15 spraying.

(2) To alleviate the frozen shoulder, Brown's gas was continuously sprayed on the neck for 20 minutes. The right shoulder felt the symptoms like electric shock and the frozen shoulder disappeared.

(3) Even after 24 hours of the treatment, the improved condition of the
20 patient was still maintained.

Example 28

Subject: male with the age of 38

Symptoms: chronic headache and panic disorder associated with

depression. The patient was under daily drug intake.

Treatment and effect:

1. Primary treatment

(1) Brown's gas was sprayed on the neck for 30 minutes. In the initial
5 stage of the spraying, dizziness were transiently felt but gradually disappeared.
The patient gradually had a clear head. Because the patient took medicine on
the morning of the day of the treatment, to identify the therapeutic effects of the
Brown's gas took much time.

(2) At the next day after the treatment, the head still maintained a clear
10 condition and no headache was felt.

(3) At two days after the treatment, even though drug intake was
discontinued except the morning of the first day of the treatment, the
therapeutic effects of a clear head and no headache were still maintained and
panic disorder was not observed. During the post-treatment period, disorder
15 symptoms were slightly observed for about 10 minutes but the patient was rapidly
recovered from the disorder symptoms. As can also be seen in another
Examples, the increase in the recovery power of the body might be possible
because Brown's gas does not transiently alleviate symptoms but returns a
lesional region of interest, i.e., lesional tissue or organ, to a normal condition.

20 Therefore, it is thought that the tissue or organ itself has a self-recovery power.

(4) At three days after the treatment, no headache or panic disorder was
observed.

(5) In the morning of the fourth day after the treatment, slight headache
was observed but almost completely disappeared after sound sleep for one

hour.

2. Secondary treatment

(1) In the evening of the fourth day after the primary treatment, Brown's gas was sprayed on the back part of the neck for 25 minutes. The slight pain 5 completely disappeared. After about one hour, Brown's gas was again sprayed on the same region for 10 minutes. The condition of the patient was completely recovered.

(2) At the next day after the treatment, all the disorder symptoms disappeared to become normal like a healthy person. In the afternoon of the 10 day, slight headache was felt. However, it was considered not to be associated with the panic disorder. It might be the aftereffect of the discontinuation of the drug intake.

(3) At three days after the secondary treatment, according to the doctor's diagnosis, the feeling of slight headache might be the aftereffect of the 15 disconnection of the drug intake and would disappear after about 10 days.

3. Tertiary treatment

(1) At 23 days after the secondary treatment, Brown's gas was sprayed on the back side of the head for 30 minutes. Like in the primary and secondary treatments, the head became clear and the body became energetic.

20 (2) At the next day after the treatment, no headache was felt and a good condition was maintained. The patient felt like a healthy person.

(3) It was judged that if the patient would be subjected to continued treatment at least once a month, he could be returned to a normal condition.

Example 29

Subject: male with the age of 42

Symptoms: sore throat and much phlegm due to much smoking (usual).

Treatment and effect:

5 (1) Brown's gas was sprayed on the neck for 10 minutes. During the spraying, the throat felt itchy and prickly.

(2) At the next day after the treatment, the soreness of the throat and phlegm disappeared and the neck was relaxed.

10 Example 30

Subject: male child with the age of 8

Symptoms: rhinitis from an early

age. Treatment and effect:

(1) Brown's gas was directly sprayed into the nose for five minutes. The 15 nose was no longer blocked and the concentrated nasal mucus was continuously swallowed.

(2) At the next day after the treatment, Brown's gas was sprayed into the nose for five minutes. The same effect as in the previous day was observed. It was judged that if the patient might be subjected to continued treatment, 20 remarkable improvements or therapeutic effects would be achieved.

Example 31

Subject: male with the age of 46

Symptoms: Achilles myositis: pain due to the Achilles myositis of the left

ankle above one week. Even though the patient was subjected to oriental medicinal treatment and orthopedic treatment, remarkable therapeutic effects were not obtained. The patient walked with a limp and felt severe pain .

Treatment and effect:

5 (1) Brown's gas was sprayed on the Achilles' tendon for about 10 minutes. At 2-3 minutes after the spraying, severe pain started to disappear and the swelling subsided. After the spraying was completed, the pain almost completely disappeared.

(2) At three days after the treatment, the disorder symptoms were again 10 observed. It might be thought that the therapeutic effects were not maintained due to overwork after the treatment.

(3) Brown's gas was again sprayed on the same region for 10 minutes. Immediately after the spraying, the pain disappeared. The improved therapeutic effects relative to the primary treatment were felt.

15 (4) At the next day after the treatment, the pain completely disappeared and the therapeutic effects were maintained.

Example 32

Subject: female with the age of 70

20 Symptoms: cervical disc: frozen shoulder and hand numbness; severe pain in the top side of the left foot (the pain was too severe to put on her shoes due to an injury caused by falling down 10 years ago); and burning feeling due to gastritis (usual).

Treatment and effect:

(1) First, to alleviate the frozen shoulder due to the cervical disc, Brown's gas was sprayed on the neck for 20 minutes. During the spraying, stiffness and the feeling of pain in the joints were felt. The hand numbness and the frozen shoulder disappeared.

5 (2) After a 30-minute pause of the spraying, Brown's gas was sprayed on the top side of the left foot for 20 minutes. During the spraying, pain transiently appeared in the toes but disappeared. The patient could stand up and walk with no pain and discomfort.

10 (3) Brown's gas was sprayed on the abdomen (the stomach region) for 15 minutes. During the spraying, slight pain was felt in the stomach. The pain gradually became worse but disappeared. Gas was incessantly generated in the stomach.

15 (4) At the next day after the treatment, the pain in the top side of the left foot completely disappeared so that the left foot was restored to a normal condition. The frozen shoulder was remarkably alleviated but was not completely cured. However, the patient could have a sound sleep. Judging from the observation that gas was incessantly generated in the stomach, the gastritis was not improved.

20 (5) At three days after the treatment, the body condition was remarkably improved and no pain in the top side of the left foot and the shoulder was felt. With respect to the gastritis, gas generation did not occur. The patient had a comfort feeling in the stomach and did not feel other disorder symptoms.

(6) At seven days after the treatment, other disorder symptoms were not felt and thus the patient felt that the body was completely restored to a normal

condition. Also, the patient had the feeling of comfort in the stomach and had no trouble in digestion. In addition, it was felt that constipation was removed.

Example 33

5 Subject: female with the age of 35

Symptoms: chronic gastritis (doctor's diagnosis) for seven years. Treatment and effect:

(1) Brown's gas was sprayed on the abdomen for about 15 minutes.

During the spraying, the patient felt icy pain and gas generation in the stomach.

10 (2) At two days after the treatment, the patient had the feeling of comfort in the stomach. At three months after the treatment, the therapeutic effects were still maintained.

Example 34

15 Subject: female with the age of 62

Symptoms: cataract and glaucoma as complications of chronic diabetes.

Treatment and effect:

(1) Brown's gas was sprayed on the eyes for about 20 minutes. During the spraying, the eyes were gradually relaxed and small characters at far distance 20 were vividly viewed and the therapeutic effects were maintained.

(2) During two days after the treatment, Brown's gas was additionally sprayed on the eyes once a day. Continued improvement in the therapeutic effects was observed.

Example 35

Subject: female with the age of 15

Symptoms: epidemic keratoconjunctivitis: swollen, itchy, blar, and bloodshot eyes.

5 Treatment and effect:

(1) Brown's gas was sprayed on the affected eyes for about 10 minutes. During the spraying, the ocular disease symptoms gradually disappeared and the therapeutic effects were maintained.

(2) At 10 hours after the spraying, a secondary spraying was performed.

10 Residual redness in the bloodshot eyes disappeared and the eyes of the patient were restored to a normal condition.

Example 36

Subject: male with the age of 45

15 Symptoms: stricture of the heart: stiffness and severe pain in the left chest and difficulty in breathing.

Treatment and effect:

(1) Brown's gas was sprayed on the affected left chest for about 30 minutes. During the spraying, the pain was gradually alleviated and breathing 20 was comfortable.

(2) The symptoms were alleviated by 70-80%.

Example 37

Subject: female with the age of 36

Symptoms: burn on the shoulder: scabs formed during healing the burn, and severe itch.

Treatment and effect:

(1) Brown's gas was sprayed on the affected region for about 30 minutes.

5 The itchy symptom gradually disappeared. The therapeutic effect was maintained for more than 12 hours after the treatment.

(2) Whenever the itchy symptom was felt, Brown's gas was sprayed on the affected region. It was observed that wound recovery was accelerated.

(3) Brown's gas was also sprayed on an affected region with similar 10 symptoms to a burn, which had been caused after laser therapy for elimination of points on the face, in the same manner as in sections (1) and (2). In this case, the itchy symptom completely disappeared and the wound was healed without leaving scars.

15 **Example 38**

Subject: male with the age of 19

Symptoms: crack of the right wrist by falling down in a hurdle race; casting and frequent numbness in the hands.

Treatment and effect:

20 (1) Whenever the numbness in the hands occurred, Brown's gas was sprayed on the tips of the fingers and the elbow for about 10 minutes. During the spraying, the numbness symptom disappeared and the wrist was relaxed. The therapeutic effects were maintained during a prolonged period of time after the spraying.

(2) At three months after the treatment, the casting was removed. However, since the fingers and wrist were not used for a long time, stiffness and pain were felt. Brown's gas was again sprayed on the knuckles and the affected wrist for three days three times. Even though the doctor in charge
5 diagnosed that rehabilitation had to be made for about one month for recovery, the stiffened wrist was easily relaxed only by the three times spraying of Brown's gas and almost completely restored to a normal condition.

Example 39

10 Subject: male with the age of 67

Symptoms: Parkinson's disease over 17 years

Treatment:

Brown's gas was 30 times (total) sprayed on the affected regions for 27
days ranging from June 15, 2004 to July 11, 2004. The treatment with Brown's
15 gas was performed together with drug intake. As a result, initial and primary
symptoms of the Parkinson's disease and its secondary symptoms including complications could be cured. In this regard, it was judged that the patient could have a normal life.

Effects: following post-treatment symptoms in the patient were provided 20
based on the subjective symptoms of the patient.

- Reduction in the number of drug intake and dosage: reduction from 6 times to 3-4 times.
- Improvement in bradykinesia (slow motion).
- Improvement in stiffness: pain in the neck, shoulder, and joints

disappeared and were relaxed.

- Improvement in walking disorder: the maximum therapeutic effect was that the patient was restored to a normal condition so that he could jump about.

- Improvement in sense of equilibrium: no falling down in walking.

5

- Clear and bright face, loud voice, and clear pronunciation.

- Improvement in swallowing: tongue or neck muscles were activated.

- Improvement in saliva swallowing: the autonomic nerve was recovered and the neck muscle was activated.

- Recovery of the disorder of urination: the urinary color was normal and 10 the disorder of urination was remarkably improved.

- Constipation alleviation: the motion of the intestinal tract was remarkably improved even though there was a difference in the degree of the motion of the intestinal tract according to the type of a food.

- Sexual dysfunction recovery.

15 - Improvement in eyesight: eyesight was regained so that the reading of small characters was possible.

- Removal of perspiration: much sweating in the upper part of the body was improved. - Recovery of dementia disorder: the failure of the memory was improved.

20

- Removal of depression: good feeling.

- Recovery of the disorder of foot sensation: the sensation of the right foot was recovered.

- Sound sleep: sleeping for 6 to 9 hours.

- Headache removal: clear and light head.

- Recovery of the sense of taste: good appetite and weight gain.

Most results from the above Examples were based on short-term observations. Sufficient follow-up tests and additional treatments have not yet been conducted. However, in the short-term experiments, most patients
5 experienced complete removal of symptoms or remarkable improvements during spraying, immediately after spraying, or within 24 hours. These results demonstrate direct action of Brown's gas on the body, as described above.

Furthermore, according to the examination results for the Examples, with respect to a disease with severe symptoms (in particular, for myalgia) with a
10 short onset period, the severe symptoms were almost completely cured by spraying occurred only once. However, with respect to a disease with mild symptoms with a long onset period, the improvement of the symptoms after the treatment was transiently observed, but with time, some symptoms were slightly again observed and some symptoms reached the same level as the original

15 severe symptoms, which will now be described. For the former, lesional tissues, cells, or organs are easily restored to normal conditions by treatment with Brown's gas and the restored conditions are maintained during the posttreatment period. On the other hand, for the latter, even though lesional tissues, cells, or organs exhibit recovered conditions such as alleviation or

20 disappearance of the symptoms, the recovered conditions are transient and thus return to the conditions before the treatments.

However, some diseases with a long onset period were remarkably improved by repeated treatment with Brown's gas, and remarkable increase in

the recovery power of the body was observed in some of the Examples. The increase in the recovery power of the body might be possible because Brown's gas does not transiently alleviate symptoms but returns a lesional region of interest, i.e., lesional tissue or organ, to a normal condition, whereby the tissue or organ itself has a self-recovery power. These results show that diseases with

5 severe symptoms and a long onset period can also be completely cured by repeated treatment with Brown's gas.

The therapeutic effects of Brown's gas are also observed on non-application regions of the body, in addition to application regions. This might be possible because Brown's gas does not stay in its application region but is 10 absorbed in the body and then circulated through the blood stream in the body.

Industrial Applicability

Through the above-described various Examples, it can be seen that application of Brown's gas to the body induces various therapeutic effects such 15 as muscle relaxation and pain removal in myalgia, alleviation of symptoms and pain in arthritis, symptom alleviation in intervertebral disc, inflammation prevention and cure in wounded regions, prevention of inflammatory and allergic cutaneous reaction, recovery of headache and numbness, etc. These various effects of Brown's gas on the body, which have been demonstrated by

20 illustrative examples, are essentially associated with the action and efficacy of water in the body. According to the present invention, various diseases of mammals can be treated or alleviated using Brown's gas_

Furthermore, a Brown's gas supply apparatus according to the present invention can more easily supply Brown's gas for a therapeutic purpose.

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