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**ANTI-OXIDANT
TREATMENT ROOM**

**HEALTH TECHNOLOGY ASSESSMENT SECTION
MEDICAL DEVELOPMENT DIVISION
MINISTRY OF HEALTH MALAYSIA**

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EXECUTIVE SUMMARY OF ANTI-OXIDANT TREATMENT ROOM

INTRODUCTION

Oxidization is the attachment of oxygen molecules with other atoms or molecules. The inverse of oxidization is restoration. It was claimed that the Anti-oxidant Solution has the reversible effect of oxidization and also has the effect of restoration. Materials such as metal, plastic, rubber, glass, soap, ceramic, print, and chemical fiber undergoing the anti-oxidant solution process would discharge the electron to reactive oxygen molecules nearby (catalytic function). These molecules were unstable and highly reactive, and could damage cells by chemical chain reactions, and caused cancer-promoting mutations or cell death. It was believed that cells from both humans and animals could be oxidized due to the presence of reactive oxygen cells. Oxidized cells are a known cause of cancer and lifestyle-related illnesses. It was claimed that the anti-oxidant solution products, which include houses that were built with the anti-oxidant construction method, would eliminate this reactive oxygen.

This section was instructed by the Director of the Medical Development Division to do an assessment of this technology to see its effectiveness and safety aspects.

TECHNICAL FEATURES

There was no retrievable evidence that the technology was patented nor had any FDA, CE or TGA approval.

A concentrated anti-oxidant solution derived from friendly micro-organisms was invented by Mr. Shinichi Aida and was engrained into building materials. This unique construction process is said to be similar to a Roman caldarium, where hot water was piped beneath the anti-oxidant treated tiles, thus heating the tiles and releasing the anti-oxidants into the air above. The construction method that applies the anti-oxidant solution is called the anti-oxidant construction method.

CONCLUSION

There is no scientific evidence to support the efficacy of anti-oxidant treatment room for diabetic patients. All articles available in the website were just anecdotal evidences and testimonials.

RECOMMENDATION

Based on the above review, anti-oxidant room treatment cannot be recommended. It is not a replacement for standard medical treatment.

More clinical research is warranted to provide evidence on the effectiveness for its use in treating any medical condition.

TITLE: ANTI-OXIDANT TREATMENT ROOM

1. INTRODUCTION

Oxidization is the attachment of oxygen molecules with other atoms or molecules. The inverse of oxidization is restoration. It was claimed that the Anti-oxidant Solution has the reversible effect of oxidization and also has the effect of restoration. Materials such as metal, plastic, rubber, glass, soap, ceramic, print, and chemical fiber undergoing the anti-oxidant solution process would discharge the electron to reactive oxygen molecules nearby (catalytic function). These molecules were unstable and highly reactive, and could damage cells by chemical chain reactions, and caused cancer-promoting mutations or cell death. It was believed that cells from both humans and animals could be oxidized due to the presence of reactive oxygen cells. Oxidized cells are a known cause of cancer and lifestyle-related illnesses. It was claimed that the anti-oxidant solution products, which include houses that were built with the anti-oxidant construction method, would eliminate this reactive oxygen ^{1-2 level III}.

Probiotic bacteria (zymogen) would often contain positive ions. They stayed where the electrons were emitted and where the bad bacterium (saprogen) produced negative ions by itself. Thus the probiotic bacteria (zymogen) preferred to stay and multiply at the place where electrification took place. Water molecules are present in the water, air and soil. Waste is not caused by single molecule but by strong oxidization power. It is capable of naturally joining with other molecule and atom and become a bigger size molecule. Thus, clean water has very small size molecule, and dirty water bigger size of molecule. It attracts more bad bacterium (saprogen) and able to multiply by itself. It was claimed that if more and more anti-oxidant treated products including houses are present in the environment, the electron emitted from anti-oxidant treated products enables the water molecules to be smaller and it would create the environment that is friendly to probiotic bacteria (zymogen). Anti-oxidants products would turn the electrified earth including our body to “become earthed”. This makes the environment a suitable condition for the probiotic bacteria and thus making you healthy. In another words, the anti-oxidant solution would make the air and water good for your health.

The group managing director of the Anti-oxidant centre in Malaysia wrote a letter to Tan Sri Director General of Health on the 2nd of July 2008 requesting his approval to donate 2 anti-oxidant treatment rooms to Hospital Kuala Lumpur for treating patients with diabetic foot ulcer. This section was instructed by the Director of the Medical Development Division to do an assessment of this technology to see its effectiveness and safety aspects.

2. OJECTIVE/ OBJECTIVES

To determine the safety and effectiveness of the anti-oxidant treatment room.

3. TECHNICAL FEATURES

There was no retrievable evidence that the technology was patented nor had any FDA, CE or TGA approval.

A concentrated anti-oxidant solution derived from friendly micro-organisms was invented by Mr. Shinichi Aida and was engrained into building materials. This unique construction process is said to be similar to a Roman caldarium, where hot water was piped beneath the anti-oxidant treated tiles, thus heating the tiles and releasing the anti-oxidants into the air above. The construction method that applies the anti-oxidant solution is called the anti-oxidant construction method.

In the anti-oxidant construction method, the anti-oxidant solution was mixed into ready-mixed concrete used in construction of foundations at the ratio of 500cc per m³, 2 minutes after mixing has begun. After foundations were dry, *Ecoparadise coat* was applied with a roller. It took approximately 2 hours to dry. In areas surrounded by water, two layers/coats were recommended. *Ecoparadise Coat* was applied to the foundations of the floor, wall and ceiling. Also in the anti-oxidant construction method, anti-oxidant solution was mixed with antioxidant ceramic water and used in the mixture of plastering/puttying. *Ecoparadise Wax* was applied onto timber/parquet flooring¹⁻².

4. METHODOLOGY

4.1 SEARCH METHODS

PUBMED, PROQUEST and MEDLINE via EBSCO were searched using the keywords anti-oxidant solution, anti-oxidant treatment room, anti-oxidant construction method, safety of anti-oxidant treatment room, effectiveness of anti-oxidant treatment room either singly or in combination, with the limits to human study, year of publication from 2000 – 2008. In addition websites for existing HTA agency, society websites and cross-referencing of the articles retrieved were also carried out accordingly to the topic.

5. RESULTS AND DISCUSSION

From the search, twenty articles were retrieved. The company was contacted to retrieve more information especially on the anti-oxidant solution used. However the company was reluctant to reveal the exact component of the anti-oxidant solution used which makes it difficult to do an accurate assessment. Only two articles were relevant and taken as references. These articles were anecdotal and testimonials and no actual scientific studies on the anti-oxidant treatment room were found.

The evidence were graded according to the US/Canadian Preventive Services Task Force (Appendix)

5.1 EFFECTIVENESS

It was claimed that people seeking treatment from the centre varies from cancer patients to others seeking respite for a healthier well-being.

Patients were asked to lie for forty minutes on the hotbed in the dry-sauna room with a five-minute break in between. They were advised to drink a glass of anti-oxidant water after the first 20 minutes and upon completing the entire treatment. The anti-oxidant water was made by adding in the water container, with anti-oxidant ceramic that turns tap water into alkaline ionized water and was claimed to improve blood circulation.

It was claimed that alkaline water can slowly reverse the aging process, which is a gradual process of acid waste accumulation. It was claimed to be very effective because the water was able to penetrate deeply to dissolve and remove toxins from the body ^{1-2 level III}. Acid wastes like lactic acid that were insoluble in neutral water became soluble in alkaline water and so can be removed from the body by drinking alkaline water.

Anti-oxidant rejuvenation was claimed to promote anti-ageing and slimming; improves blood circulation; metabolism and blood pressure; reduces blood pressure; reduces cholesterol level and relieves rheumatism pains; swelling; cold and constipation. It was also claimed that diabetic visitors have found their blood sugar levels dropping to normal after multiple sessions while cancer patients was claimed to have the benefit of pain relieve and improved well being ^{1-2 level III}.

Under the anti-oxidant construction method, the anti-oxidant solution has been applied in various ways. Thus, if there were free radicals near the house, the electron would be emitted to the free radical, both inside as well as the outside of the house. By having this effect, the harmful chemicals discharged from various construction materials as well as paints, and smoke from tobacco became less harmful. It was claimed that home electrical appliances used inside the house would not be electrified; and mold and virus would not grow inside the house. Noxious insect such as ticks, cockroaches and rats would not enter the house as the food chain becomes unsuitable for them. The female mosquito which is often attracted to the smell of carbonic acid gas (reactive oxygen) from human and animal would not enter the house. Flies and crows that were attracted to putrid smell would not approach the house ^{1-2 level III}.

5.2 SAFETY

No adverse events have been reported

6. CONCLUSION

There is no scientific evidence to support the efficacy of anti-oxidant treatment room for diabetic patients. All articles available in the website were just anecdotal evidences and testimonials.

7. RECOMMENDATION

Based on the above review, anti-oxidant room treatment cannot be recommended. It is not a replacement for standard medical treatment.

More clinical research is warranted to provide evidence on the effectiveness for its use in treating any medical condition.

8. REFERENCES

1. <http://www.ecoparadise.com.my>
2. Articles, testimonials from the company, Anti-oxidant Centre Sdn Bhd.

9. APPENDICES

9.1. Appendix I- Levels of evidence scale

- I Evidence obtained from at least one properly designed randomized controlled trial.
- II-I Evidence obtained from well-designed controlled trials without randomization..
- II-2 Evidence obtained from well-designed cohort or case-control analytic studies, preferably from more than one center or research group.
- II-3 Evidence obtained from multiple time series with or without the intervention. Dramatic results in uncontrolled experiments (such as the results of the introduction of penicillin treatment in the 1940s) could also be regarded as this type of evidence.
- III Opinions or respected authorities, based on clinical experience; descriptive studies and case reports; or reports of expert committees.

SOURCE: US/CANADIAN PREVENTIVE SERVICES TASK FORCE(Harris 2001)