Personal Research and Experience on treatment of Eczema

YEUNG Ming Fai

Abstract

Traditionally, the effectiveness of Chinese Medicine is tried by screening directly on human. Different conditions for acute effect on treatment of eczema were tired.

Beef, egg, chicken, asparagus, stir-fried shrimp, crab and eel had proliferation acute effect on eczema. High temperature, high humidity and polluted air environment had proliferation acute effect on eczema. Honey, watermelon, Johnson and Dove moisture cream had proliferation acute effect on eczema. Being excited on playing fighting video games had proliferation acute effect on eczema. Sweating on doing housework had proliferation acute effect on eczema. Sleeping, playing tai-chi, watching television and movie had inhibitory effect on eczema. Applying water extract of claw of the garment of plain silk gauze, triamcinolone acetonide and econazole nitrate cream, oleanolic acid (OA) cream on the skin had inhibitory effect on eczema.

In addition, 1,7-dihydroxy-3,8-dimethoxyxanthone, 1,7,8-trihydroxy-3-methoxyxanthone, 1-hydroxy-3,7,8-trimethoxyxanthone and 1,8-dihydroxy-2,6-dimethoxyxanthone have MAICs on chronic eczema were determined to be 3.13 mg/mL. OA had MAIC of 25 mg/mL on chronic eczema. Luteolin-7-O-glucoside had MAIC of 12.5 mg/mL on chronic eczema.

Keywords: Acute effect, chronic eczema, clinical, personal, experience,

Introduction

Eczema is a form of dermatitis, or inflammation of the upper layers of the skin. The term "eczema" is broadly applied to a range of persistent or recurring skin rashes characterized by redness, skin edema, itching and dryness, with possible crusting, flaking, blistering, cracking, oozing, or bleeding. Areas of temporary skin discoloration sometimes characterize healed lesions, though scarring is rare. It can be broadly divided into three types.

Acute eczema

It refers to a rapidly evolving red rash which may be blistered and swollen (Figure 1).

Chronic eczema

It refers to a longstanding irritable area. It is often darker than the surrounding skin, thickened (lichenified) and much scratched (Figure 2).

Sub-acute eczema

States between acute and chronic eczema (Figure 3).

Background

Unknown inflammatory of the skin appears due to insect bite in 1/6/2006.

Ointment treatment was carried out but not effective. (1/6/2006-1/7/2006)

Folk medicine of Chinese medicinal formulae was used but not effective. (1/7/2006-14/7/2006)

Antibiotic treatment was carried out but not effective. (19/7/2006-31/7/2006)

Eczema was gotten and identified by Wong R. G. in Xiamen Province Chinese Hospital in 1/8/2006 and Zhang Y. Z. in Xiamen First Hospital in 9/9/2006 (Appendix IV). Treatment using Chinese medicinal formulae by oral, bathing together with triamcinolone acetonide and econazole nitrate cream was used for treatment 1/8/2006-9/9/2006. Acute eczema was controlled but not for chronic and sub-acute eczema. From 9/9/2006-5/1/2007, other treatments were

carried out such as other medicinal formulae, ointment, western medicinal pills given by other doctors were used. But these therapies only control the disease but not for recovery, even the treatments were effective, the crisis of relapse leaded to the reappearance of eczema.

Experiment

Determination of effect of factors on eczema

Since 6/1/2007, experiment was carried out to test how the factors in everyday life have acute effect on eczema. They were tested at 12:00 noon everyday and the results were tabulated (Table 1). Any comfortable or uncomfortable feelings are recorded at 7:00 pm. Uncomfortable feeling means feeling of itch and/or the growth of red swollen scar with hot skin. Comfortable feeling means the suppression of red swollen scar and/or release of itch feeling with normal skin temperature. From 7:00 pm to the noon of next day, a balanced diet and things were done as usual. If uncomfortable feelings occurred, triamcinolone acetonide and econazole nitrate cream was applied for the "recovery". It is because clinical studies were shown that triamcinolone acetonide and econazole nitrate cream 1 has inhibitory effect on treatment of eczema. Body was kept in air-conditioned environment (15 – 25 °C) unless otherwise specified. For eating and drinking, rice porridge was eaten only at lunch did not have any significant acute effect on the eczema. So this was acted as a control for the experiment. Eating rice porridge plus one of the other food or Chinese herbal medicine (CHM) could be used to test which food or CHM had beneficial effect or inhibitory effect on eczema. As a result, beef, egg, chicken, asparagus, stir-fried shrimp, crab and eel had proliferation acute effect on eczema. None of the tested food or CHM had strong inhibitory acute effect on eczema. Foods or CHM having no significant acute effect on eczema were used as controls for testing the factors of environment, smearing and physical action. The results were tabulated (Table 2).

As a result, high temperature, high humidity and polluted air environment had proliferation acute effect on eczema.

Honey, watermelon, Johnson and Dove moisture cream had proliferation acute effect on eczema. Being excited on playing fighting video games had proliferation acute effect on eczema. Sweating on doing housework had proliferation acute effect on eczema. Sleeping, playing tai-chi, watching television and movie had inhibitory effect on eczema. Applying water extract of claw of the garment of plain silk gauze, triamcinolone acetonide and econazole nitrate cream, OA mixed with cosmetic emulsifier (Acrylamide/Sodium Acrylate/copolymer/Mineral oil) on the skin had inhibitory effect on eczema.

Determination of minimum acute inhibitory concentration
(MAIC) of compounds isolated from Gentianopsis paludosa
(GP).

As OA mixed with cosmetic emulsifier had acute inhibitory effect on eczema, MAIC is worth to be found. Compounds isolated from GP were tested.

Apparatus

Test-tubes, 10 mL; Measuring cylinder, 10 mL; Electronic balance; Glass rod.

Reagents

Emulsifier (Acrylamide/Sodium Acrylate/copolymer/Mineral oil)

Experimental procedures

Zero-point-one g of compounds was weighed in a test-tube. Four mL of emulsifier (Acrylamide/Sodium Acrylate/copolymer/Mineral oil) was mixed with the compounds. Two-fold serial dilutions were carried out. Each concentration of compounds was applied to chronic eczema at 2:00 pm and feelings were recorded at 7:00 pm everyday. The concentration of compounds used, and feelings of comfortability on chronic eczema were recorded and tabulated (Table 3). MAIC was defined as the concentration of compounds just had comfortable feelings applied to chronic eczema.

Results

Beef, egg, chicken, asparagus, stir-fried shrimp, crab and eel had proliferation acute effect on eczema. High temperature, high humidity and polluted air environment had proliferation acute effect on eczema. Honey, watermelon,
Johnson and Dove moisture cream had proliferation acute
effect on eczema. Being excited on playing fighting video
games had proliferation acute effect on eczema. Sweating on
doing housework had proliferation acute effect on eczema.
Sleeping, playing tai-chi, watching television and movie had
inhibitory effect on eczema. Applying water extract of claw
of the garment of plain silk gauze, triamcinolone acetonide
and econazole nitrate cream, oleanolic acid (OA) cream on
the skin had inhibitory effect on eczema.

In addition, 1,7-dihydroxy-3,8-dimethoxyxanthone,
1,7,8-trihydroxy-3-methoxyxanthone,
1-hydroxy-3,7,8-trimethoxyxanthone and
1,8-dihydroxy-2,6-dimethoxyxanthone have MAICs on
chronic eczema were determined to be 3.13 mg/mL. OA had

Luteolin-7-O-glucoside had MAIC of 12.5 mg/mL on chronic eczema.

MAIC of 25 mg/mL on chronic eczema.

Discussion - Drug development for treatment of Eczema

Eczema is an allergic condition that affects the skin. It can be triggered by just about anything coming in contact with the skin. It occurs in atopic people, who are extra sensitive to skin irritation. Dry, flaky skin appears over red, inflamed areas, causing intense itching and burning. Eczema is a very common condition and it affects all races and ages, including young infants. About 1-2 % of adults have eczema, and as many as 20 % of children are affected. It usually begins early in life, even before asthma or hay fever. Most affected individuals have their first episode before age 5 years. For some, the disease will improve with time. For others, however, eczema is a chronic or recurrent disorder. Although it can occur just once, it usually occurs on and off throughout life, or lasts the entire lifetime. Eczema can be a difficult, frustrating condition. The natural human desire to scratch or

rub an itchy rash just makes the condition worse and treatments can be slow and are not always completely effective. The exact cause of eczema is not known. Although it is activated by the immune system and is related to allergic reactions, it is not the same as other allergic reactions. People with eczema do have the immunoglobulin E (IgE) antibodies produced by the immune system as part of allergic reactions ²⁻³.

Mechanism of the cause of eczema is not known but from the Traditional Chinese Medicine (TCM) point of view, it is related to "hot" and "dampness". Compounds isolated from GP had acute inhibitory effect on eczema. It may be due to its immunomodulatory and anti-inflammatory properties. Finding its biological mechanisms on treating eczema can help synthesize target compounds for treatment of eczema.

References

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Figures



Figure 1 Photo of acute eczema.

Figure 2 Photo of chronic eczema

Figure 3 Photo of sub-acute eczema.

Tables

Table 1. Effect of different factors on eczema related to eating and drinking

| | | Date of testing | |
|-------------------------------|---------------|-----------------------|---------------------|
| | Uncomfortable | No significant change | |
| Factors | feeling | in feeling | Comfortable feeling |
| Eating and drinking | | | |
| Rice porridge only | | 6/1/2007 | |
| | | 7/1/2007 | |
| | | 8/1/2007 | |
| Rice porridge + pork | | 9/1/2007 | |
| | | 10/1/2007 | |
| | | 11/1/2007 | |
| Rice porridge + beef | 28/1/2007 | | |
| | 9/2/2007 | | |
| | 27/2/2007 | | |
| Rice porridge + egg | 29/1/2007 | 26/2/2007 | |
| | 4/3/2007 | | |
| | | | |
| Rice porridge + chicken | 12/1/2007 | | |
| | 30/1/2007 | | |
| | 5/2/2007 | | |
| Rice porridge + carrots | | 18/1/2007 | |
| | | 27/1/2007 | |
| | | 13/3/2007 | |
| Rice porridge + mushrooms | | 13/1/2007 | |
| | | 31/1/2007 | |
| | | 6/2/2007 | |
| Rice with green bean porridge | | 2/2/2007 | |
| | | 5/2/2007 | |

Natura Proda Medica, (1) Aug 2008 Personal Research and Experience on treatment of Eczema

| | | 15/3/2007 |
|-------------------------------|-----------|-----------|
| Rice porridge + spinach | | 3/2/2007 |
| | | 8/2/2007 |
| | | 29/3/2007 |
| Rice porridge + soybean curd | 4/2/2007 | 14/1/2007 |
| | | 7/2/2007 |
| Rice porridge + asparagus | 10/2/2007 | |
| | 14/2/2007 | |
| | 18/3/2007 | |
| Rice with rhizome smilacis | | 15/1/2007 |
| glabrae porridge | | 12/2/2007 |
| | | 14/3/2007 |
| Rice with semen phaseoli | | 16/1/2007 |
| porridge | | 11/2/2007 |
| | | 10/3/2007 |
| Rice with semen coicis | | 17/1/2007 |
| porridge | | 13/2/2007 |
| | | 15/2/2007 |
| Rice with semen nelumbinis | | 26/1/2007 |
| porridge | | 16/2/2007 |
| | | 24/2/2007 |
| Rice with ginseng porridge | | 19/1/2007 |
| | | 17/2/2007 |
| | | 25/2/2007 |
| Rice porridge + steamed shark | | 26/2/2007 |
| fish | | 1/3/2007 |
| | | 2/3/2007 |
| Rice porridge + | 21/2/2007 | 25/1/2007 |
| Fried Salmon | | 9/3/2007 |
| Rice porridge + stir-fried | 20/1/2007 | |
| shrimp | 18/2/2007 | |
| | 3/3/2007 | |
| Rice with crab porridge | 22/2/2007 | |
| | 8/3/2007 | |
| | 11/3/2007 | |
| Rice with abalone porridge | | 21/1/2007 |
| | | 19/2/2007 |
| | | 12/3/2007 |

| Rice with tench porridge | 20/2/2007 | 22/1/2007 |
|---------------------------------|-----------|-----------|
| | | 7/3/2007 |
| Rice porridge + eel | 24/1/2007 | |
| | 6/3/2007 | |
| | 12/3/2007 | |
| Rice with bulbus lilii porridge | | 23/1/2007 |
| | | 23/2/2007 |
| | | 5/3/2007 |

 $Table\ 2\ Effect\ of\ different\ environmental\ factors, factors\ smearing\ on\ skin\ and\ actions\ on\ eczema.$

| | Date of testing | | |
|------------------------------------|-----------------------|--------------------------|---------------------|
| | | No significant change is | n |
| Factors | Uncomfortable feeling | feeling | Comfortable feeling |
| Environment | | | |
| Stay at air-conditioned | | 11/6/2007 | |
| environment (15 – 25 °C) | | 13/6/2007 | |
| | | 16/6/2007 | |
| Stay at temperature > 30 °C | 7/5/2007 | | |
| without air-condition | 18/5/2007 | | |
| | 29/5/2007 | | |
| Stay at humidity > 85 % without | 24/4/2007 | | |
| air-condition | 22/5/2007 | | |
| | 23/5/2007 | | |
| Shopping at street exposed to | 16/4/2007 | | |
| sunlight | 27/4/2007 | | |
| | 22/6/2007 | | |
| Shopping at street beside roadside | 6/6/2007 | | |
| | 18/6/2007 | | |
| | 20/6/2007 | | |
| Shopping at shopping centre | | 17/6/2007 | |
| | | 16/6/2007 | |
| | | 21/6/2007 | |
| Smearing on skin | | | |
| Eloson (Mometasone Furoate | | | 28/2/2007 |
| Cream) | | | 26/5/2007 |
| | | | 30/5/2007 |
| Triamcinolone Acetonide and | | | 30/5/2007 |
| Econazole Nitrate Cream | | | 2/6/2007 |

| Personal Research and Experience of | on treatment of Eczema | | |
|-------------------------------------|------------------------|-----------|-----------|
| | | | 19/6/2007 |
| Aloe juice | | 22/4/2007 | |
| | | 26/4/2007 | |
| | | 30/4/2007 | |
| Honey | 23/4/2007 | | |
| | 28/4/2007 | | |
| | 18/5/2007 | | |
| Milk | | 25/4/2007 | |
| | | 29/4/2007 | |
| | | 2/5/2007 | |
| Water extract of claw of the | | | 21/5/2007 |
| garment of plain silk gauze | | | 24/5/2007 |
| | | | 25/7/2007 |
| Water extract of the body of | | 27/5/2007 | |
| garment of plain silk gauze | | 28/5/2007 | |
| | | 5/7/2007 | |
| Water extract of radix glycyrrhizae | | 29/5/2007 | |
| | | 31/5/2007 | |
| | | 6/7/2007 | |
| Water extract of ginseng | | 1/6/2007 | |
| | | 3/6/2007 | |
| | | 7/7/2007 | |
| Water extract of rhizome smilacis | | 4/6/2007 | |
| glabrae | | 5/6/2007 | |
| | | 7/6/2007 | |
| Water extract of kiwi fruit | | 9/6/2007 | |
| | | 11/6/2007 | |
| | | 10/7/2007 | |
| Water extract of RAB | | 15/6/2007 | |
| | | 19/6/2007 | |
| | | 25/6/2007 | |
| Water extract of crocus sativus | | 26/6/2007 | |
| | | 28/6/2007 | |
| | | 9/7/2007 | |
| Oleanolic acid cream (OA mixed | | | 29/6/2007 |

Oleanolic acid cream (OA mixed 29/6/2007 with Acrylamide/Sodium 30/6/2007 Acrylate/copolymer/Mineral oil) 8/7/2007 Lemon juice 18/5/2007

Natura Proda Medica, (1) Aug 2008 Personal Research and Experience on treatment of Eczema

| (檸檬汁) | 19/5/2007 | | |
|---|-----------|-----------|--|
| | 20/5/2007 | | |
| Watermelon juice (西瓜汁) | 15/5/2007 | | |
| | 16/5/2007 | | |
| | 17/5/2007 | | |
| Johnson moisture cream | 3/5/2007 | | |
| | 4/5/2007 | | |
| | 5/5/2007 | | |
| Dove moisture cream | 6/5/2007 | | |
| | 7/5/2007 | | |
| | 8/5/2007 | | |
| Triamcinolone Acetonide + | | | 9/5/2007 |
| Econazole Nitrate Cream | | | 10/5/2007 |
| | | | 11/5/2007 |
| Neutrogena moisture cream | | 12/5/2007 | |
| | | 13/5/2007 | |
| | | 14/5/2007 | _ |
| Physical action | | | |
| Playing Tai-chi | | | 16/3/2007 |
| | | | 28/3/2007 |
| | | | 9/4/2007 |
| Playing Ba-duan- jin | | 17/3/2007 | |
| | | 10/4/2007 | |
| | | 8/6/2007 | |
| Playing Yi-jin-jing | | 30/3/2007 | |
| | | 11/4/2007 | |
| | | 27/6/2007 | |
| Typing thesis | | 19/3/2007 | |
| | | 12/4/2007 | |
| | | 23/6/2007 | |
| Watching TV | | | |
| | | | 20/3/2007 |
| | | | 20/3/2007 1/4/2007 |
| | | | |
| Watching movies | | | 1/4/2007 |
| Watching movies | | | 1/4/2007 13/4/2007 |
| Watching movies | | | 1/4/2007 13/4/2007 21/3/2007 |
| Watching movies Doing house work with sweating | 22/3/2007 | | 1/4/2007 13/4/2007 21/3/2007 2/4/2007 |

3/4/2007

Natura Proda Medica, (1) Aug 2008 Personal Research and Experience on treatment of Eczema

| 15/4/2007 | | | |
|-----------------------------------|-----------|-----------|-----------|
| Cooking and doing house work | | 4/4/2007 | |
| without sweating | | 17/4/2007 | |
| | | 11/7/2007 | |
| Sleeping | | | 5/4/2007 |
| | | | 24/6/2007 |
| | | | 4/7/2007 |
| Reading books | | 6/4/2007 | |
| | | 19/4/2007 | |
| | | 3/7/2007 | |
| Attend online lessons | | 7/4/2007 | |
| | | 20/4/2007 | |
| | | 2/7/2007 | |
| Playing video games (Fighting | 27/3/2007 | | |
| games) | 8/4/2007 | | |
| | 10/6/2007 | | |
| Playing online games (online chat | | 31/3/2007 | |
| + bridge or Chinese chess in | | 18/4/2007 | |
| www.yahoo.com.hk) | | 21/4/2007 | |

Table 3 MAIC determination of compounds isolated from GP on chronic eczema.

| | | Date of testing | | |
|--|---------------|-----------------|----------------|-------------|
| | | | No significant | |
| | | Uncomfortable | change in | Comfortable |
| Compounds | Concentration | feeling | feeling | feeling |
| Blank (No application of ointment) | - | | 15/7/2007 | |
| | | | 16/7/2007 | |
| | | | | |
| Solvent blank [Application of cosmetic | - | | 17/7/2007 | |
| emulsifier only (Acrylamide/Sodium | | | 18/7/2007 | |
| Acrylate/copolymer/Mineral oil)] | | | | |
| Triamcinolone Acetonide and Econazole | - | | | 19/7/2007 |
| Nitrate Cream | | | | 20/7/2007 |
| 1,7-dihydroxy-3,8-dimethoxyxanthone | 25 mg/ mL | | | 21/7/2007 |
| | | | | 22/7/2007 |
| | 12.5 mg/mL | | | 23/7/2007 |
| | | | | 24/7/2007 |
| | 6.25 mg/mL | | | 25/7/2007 |

| - CONTROL RESIDENCE OF THE STATE OF THE STAT | | | |
|--|-----------------------|-----------|-----------|
| | | | 26/7/2007 |
| | 3.13 mg/mL | | 27/7/2007 |
| | | | 28/7/2007 |
| | 1.56 mg/ mL | 29/7/2007 | |
| | | 30/7/2007 | |
| | 0.78 mg/mL | 31/7/2007 | |
| | | 1/8/2007 | |
| | 0.39 mg/mL | 2/8/2007 | |
| | | 3/8/2007 | |
| | $0.20~\mathrm{mg/mL}$ | 4/8/2007 | |
| | | 5/8/2007 | |
| 1,7,8-trihydroxy-3-methoxyxanthone | 25 mg/ mL | | 6/8/2007 |
| | | | 7/8/2007 |
| | 12.5 mg/mL | | 8/8/2007 |
| | | | 9/8/2007 |
| | 6.25 mg/mL | | 10/8/2007 |
| | | | 11/8/2007 |
| | 3.13 mg/mL | | 12/8/2007 |
| | | | 13/8/2007 |
| | 1.56 mg/ mL | 14/8/2007 | |
| | | 15/8/2007 | |
| | 0.78 mg/mL | 16/8/2007 | |
| | | 17/8/2007 | |
| | 0.39 mg/mL | 18/8/2007 | |
| | | 19/8/2007 | |
| | 0.20 mg/mL | 20/8/2007 | |
| | | 21/8/2007 | |
| 1-hydroxy-3,7,8-trimethoxyxanthone | 25 mg/ mL | | 22/8/2007 |
| | | | 23/8/2007 |
| | 12.5 mg/mL | | 24/8/2007 |
| | | | 25/8/2007 |
| | 6.25 mg/mL | | 26/8/2007 |
| | | | 27/8/2007 |
| | 3.13 mg/mL | | 28/8/2007 |
| | | | 29/8/2007 |
| | 1.56 mg/ mL | 30/8/2007 | |
| | | 31/8/2007 | |

| Personal Research and Experience on tre | eatment of Eczema | | |
|---|-------------------|-----------|-----------|
| | 0.78 mg/mL | 1/9//2007 | |
| | | 2/9/2007 | |
| | 0.39 mg/mL | 3/9/2007 | |
| | | 4/9/2007 | |
| | 0.20 mg/mL | 5/9/2007 | |
| | | 6/9/2007 | |
| 1,8-dihydroxy-2,6-dimethoxyxanthone | 25 mg/ mL | | 7/9/2007 |
| | | | 8/9/2007 |
| | 12.5 mg/mL | | 9/9/2007 |
| | | | 10/9/2007 |
| | 6.25 mg/mL | | 11/9/2007 |
| | | | 12/9/2007 |
| | 3.13 mg/mL | | 13/9/2007 |
| | | | 14/9/2007 |
| | 1.56 mg/ mL | 15/9/2007 | |
| | | 16/9/2007 | |
| | 0.78 mg/mL | 17/9/2007 | |
| | | 18/9/2007 | |
| | 0.39 mg/mL | 19/9/2007 | |
| | | 20/9/2007 | |
| | 0.20 mg/mL | 21/9/2007 | |
| | | 22/9/2007 | |
| Oleanolic acid | 25 mg/ mL | | 23/9/2007 |
| | | | 24/9/2007 |
| | 12.5 mg/mL | 25/9/2007 | |
| | | 26/9/2007 | |
| | 6.25 mg/mL | 27/9/2007 | |
| | | 28/9/2007 | |
| | 3.13 mg/mL | 29/9/2007 | |
| | | 30/9/2007 | |
| | 1.56 mg/ mL | 1/10/2007 | |
| | | 2/10/2007 | |
| 4',5,7-trihydroxyflavone | 25 mg/ mL | 3/10/2007 | |
| | | 4/10/2007 | |
| | 12.5 mg/mL | 5/10/2007 | |
| | | 6/10/2007 | |
| | 6.25 mg/mL | 7/10/2007 | |
| | | | |

| Personal Research and Experience | e on treatment of Eczema | | |
|----------------------------------|--------------------------|------------|--|
| | | 8/10/2007 | |
| | 50 mg/mL | 9/10/2007 | |
| | | 10/10/2007 | |
| | 100 mg/ mL | 11/10/2007 | |
| | | 12/10/2007 | |
| Luteolin-7-O-glucoside | 25 mg/ mL | 13/10/2007 | |
| | | 14/10/2007 | |
| | 12.5 mg/mL | 15/10/2007 | |
| | | 16/10/2007 | |
| | 6.25 mg/mL | 17/10/2007 | |
| | | 18/10/2007 | |
| | 3.13 mg/mL | 19/10/2007 | |
| | | 20/10/2007 | |
| | 1.56 mg/ mL | 21/10/2007 | |
| | | 22/10/2007 | |