# RESEARCH PAPER

Topic: An Examination of the Bowen Bunion Treatment

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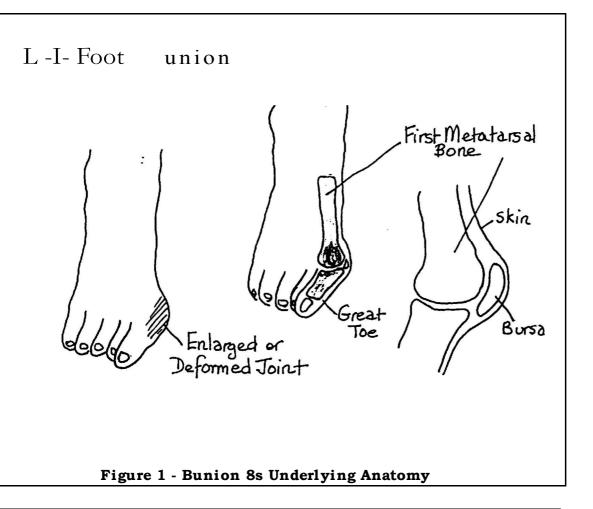
### AN EXAMINATION OF THE BOWEN I BUNION TREATMENT

#### INTRODUCTION

As a Community Nurse one of my goals is to keep people, especially the elderly, safely and painlessly an their feet. As painful feet are not conducive to happiness, wellbeing or successful mobility, and may *even* precipitate falls, this means addressing the needs of those who suffer from painful, swollen bunions

#### **DEFINITION**

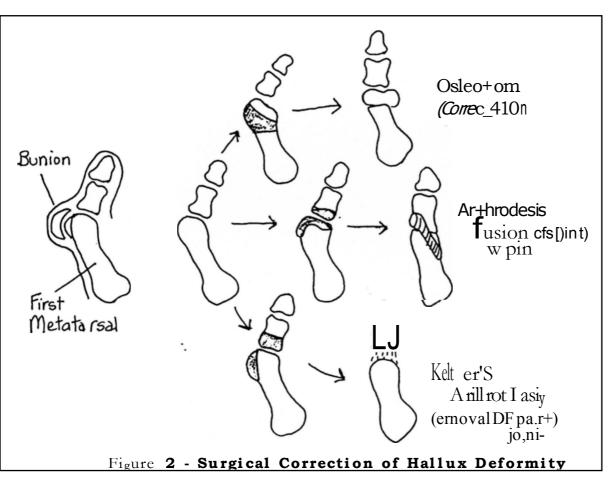
Bunion is a term used by the public to describe deformed forefoot. Actually, the bunion is a painful swelling which develops over a hallux abductovalgus bone deformity of the big toe. The skin and soft tissue over the bony protuberances are subjected to rubbing and pressure, usually from shoes. See Figure 1.



The actual hallux abductovalgus bony deformity has been said to be an inherited characteristic. It may also be due to a muscle imbalance, or lax ligaments, which pull the bones out of alignment. Other causes are fashion shoes (pointy toes and high heels), obesity and overloading, rheumatoid arthritis and injury.

Once the bones are displaced, the condition can gradually worsen as the pressure, imbalance or trauma continues.

The hallux abductovalgus bony deformity can be surgically corrected if the overlying bunion becomes too painful to endure. See Figure 2.



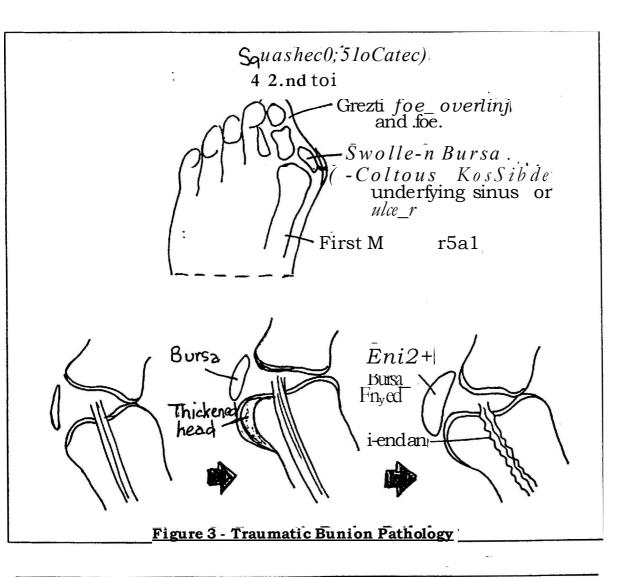
A bunion is actually bursitis or inflammation of the bursa of the medial aspect of the first metatarsal joint.

Bunion bursitis may be caused by trauma or infection or both. Often infection can follow trauma especially in the at-risk client such as the diabetic, who often has compromised sensation in the lower extremities.

Traumatic bunions are caused by rubbing and pressure from the shoes. This causes the fluid cushion (bursa) beneath the skin protecting the joint to swell, and pain results. If the rubbing and pressure continues, the bursa may burst, and the fluid leak into the tissues. A fistula or sinus can then develop and track outward to the skin surface or inward to the joint. Outward discharge from the fistula results in a discharging bunion which may turn into an ulcer. See Figure 3.

Infected bunions can result from the invasion of the wound by microorganisms, or after a procedure, such as debridgement of the callus or enucleation of the thickened skin from the bunion.

Obviously, the tissues of the bunion can recover if the rubbing and pressure stops, and the area is protected from further injury by the use of padding, shields and wide-fronted shoes. It is also known that reabsorption of excess fluid and swelling within the bursal sac can be accelerated by the application of heat.



#### THE BOWEN BUNION TREATMENT

This treatment was recommended by Tom Bowen, who developed the Bowen Technique of relaxation muscle mobilization in Australia earlier this century.

Treatment was carried out by clients in their own home.

The treatment instructions were:

- Mix two tablespoons of Epsom Salts in a bowl of hot water.
- Soak your bunions in this for 20-30 minutes.
- Dry feet, then rub a smear of Iodex into the bunion area.
- 4 Do this every night.

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2

3

The Bowen Bunion Treatment was claimed to reduce bunion size over a period of months to the point where clients complained their shoes were too loose. (Derrick Edmonds 1997)

Obviously the soaking of the feet in hot water applies heat to the bunion, which has already been identified as a means whereby absorption of excess fluid from the swollen bursa may be accelerated.

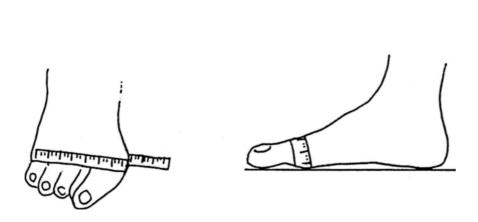
Iodex with Methyl Salicylate is indicated in the Non Prescription Products Guide, 1987, for "bruises, strains and sprains, chilblains when skin is intact, and arthritis". Other uses include "neuritis, myalgia, and some parastic skin infections. Iodex with Methyl Salycilate is for use when the skin is unbroken. If massaged into the bruise and surrounding area, it quickly reduces the pair and discomfort. Iodex with Methyl Salycilate massaged into the skin increases local circulation, and helps to maintain muscle tone."

Epsom Salts (Magnesium Sulphate BP) by Faulding is indicated an the packet for "hot, tired feet and as an aid to the relief of sore joints. Hot tired feet are eased by bathing in a basin of hot water to which one tablespoon of Epsom Salts has been added."

### The Trial

Four elderly clients, all with bilateral intact bunions, and no known allergy or sensitivity to Iodine volunteered to trial the Bowen Treatment. Detailed instructions were given, along with a calendar to mark off treatments as they were carried out.

Regular monthly bunion girth measurements were taken by the same person using standardised paper measuring tape. See Figure 4.



- \* Clients were asked to stand and weight-bear on their feet on a firm/hard surface (not carpet) for measurement.
- \* Variation in pressure changed the measurement by + or 2mm.

Figure 4 - Bunion Measurement Technique

#### RESULTS AND DISCUSSION

The Bowen Bunion Treatment was well accepted by the clients. Compliance with treatment was enhanced by the immediate relaxing effect of the soaking of the feet acknowledged by all participants, with one indicating that she regularly went to sleep during the soaking procedure. See Figure 5

	CLIENT 1	CLIENT 2	amen 3	CLIENT 4
Number of treatments attended	77	85	77	102
Number of treatments possible	83	90	94	103 -
Compliance with treatment	92.8%	94.5%	81.9%	99%

Figure 5 - Compliance with Treatment

All clients reported a reduction in pain or throbbing, mostly within a few days of commencing treatment. Clients 1 and 2 used lodex with 5% Methyl Salicylate while Clients 3 and 4 used lodex with 10% Methyl Salicylate.

All clients had an initial reduction in bunion girth, with the maximum reduction occurring within an average of 58 days of the commencement of treatment. See Figure 6.

	CLIENT 1		CLIENT 2		CLIENT 3		CLIENT 4	
	L	R	L	R	L	R	L_	R
Pre-trial measurement	246	240	240	243	265	254	241	223
trial measure (1) difference	240	240	234	238	260	251 1	240	230
from start	-6	0	-6	-5	-5	-3 1	-1	+2
@ day	28	28	21	21	28	28	1 28	28
	235	232	233	241	250	250	231	
trial measure (2) difference from Start	-11	-8	-7	-2	-15	-4	-10	22 <sub>-</sub> 3
@ day	5 5	55	68	68	54	54	61	61
	237	235	238	240	257	246	223	
trial measure (3) difference from start	-9	-5	-2	-3	-8	-8	-18	22· <del>1</del> -4
_ <b>D</b>	83	83	90	90	94	94	103	102
@ Day								10.3

Girth measurements are in millimetres

Figure 6 Trial Measurements

The maximum girth loss for each client is documented in Figure 7. The greatest girth reduction was 18mm for Client 4. Client 3 reported that her shoes became too Loose, and subsequently after trial measure (2) bought and wore new shoes. The bunion girth then increased for her left foot after she began wearing these new shoes, suggesting trauma was causing a recurrence of the bursitis. Interestingly, she said the bunion was only sore while she was wearing the new shoes.

	CLIENT 1		CLIENT 2		CLIENT 3		CLIENT 4	
	L	R	L	R	L	R	L	R
Pre-trial measurement	246	240	240	243	265	254	241	228
Time of M easure (days)	55	55	68	21	54	94	61	61
Actual Measure	235	232	233	238	250	246	223	223
Maximumloss	11ram	8mm	7mm	5mm	15mm	8mm	LfOrnra	5mm

Figure 7 Days from Start & Maximum Loss

Why did some of the girth measures increase after the initial decrease?

I suspect this was partly due to dients becoming more mobile due to reduced pain and throbbing of the bunions. Two dients indicated they had changed their footwear, and were wearing tighter shoes which they were unable to wear previously.

These factors could have caused increased trauma and pressure to the bursae resulting in swelling.

No clients reported an increase, or return of pain, except with the wearing of new shoes, or after the cessation of treatment.

All clients were surprised when the bunion girth began increasing during the trial as they believed that their bunions were still shrinking.

#### CONCLUSIONS AND RECOMMENDATIONS

There seems to be little doubt in the effectiveness of the Bowen Bunion Treatment in significantly reducing the swelling and pain associated with bursitis of the medical aspect of the first metatarsal joint in hallux abductovalgus in the four clients studied.

The treatment was well tolerated, and there was a high percentage of compliance over a period of months.

There was no apparent difference in the effect of the different lodex preparations.

Clients reported pleasure and relief in the improvement in the condition of their bunions, and were therefore motivated to continue the treatment, even after the completion of the trial. Three clients are continuing with the treatment 12 months alter the Trial, with ongoing relief. Two use it in response to pain. One is using the treatment every second night, (Client 4) and the great toe is now freely mobile and can be aligned normally.

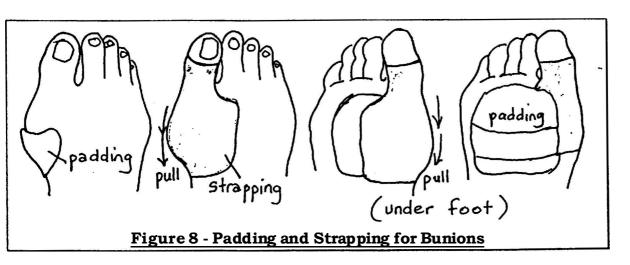
It seems that following the Bowen Bunion Treatment, in order to MAINTAIN the best condition of the deformity, preventative and protective measures need to be implemented.

Any plan to manage bunions long-term should include:

- Management of any trauma, pressure or infection
- 2 Pain relief

1

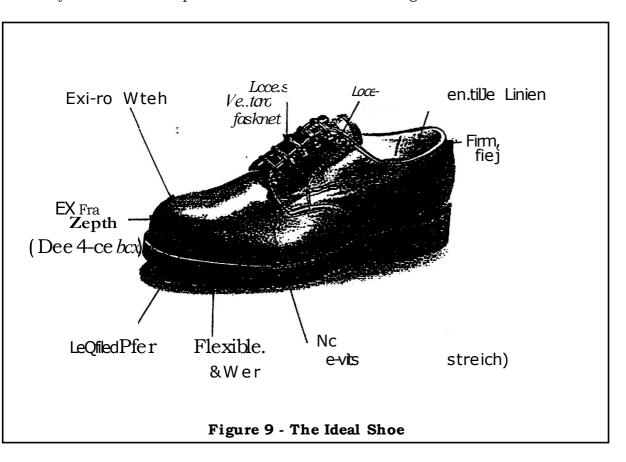
- 3 Measures to reduce the size of the bunion
- Padding or strapping to reduce the valgus deformity, and hence reduce pressure of the shoe on the bunion (see Figure 8).
- 5 Massage and mobilisation of the muscles and joints of the feet to reduce muscle imbalance.
- Regular foot inspection and care to debride callus, and maintain skin and nails in optimum condition.
- 7 Modification of shoes to prevent excessive pressure on the deformity eg extra wide-fronted shoes.



The other option is to look at the **prevention** of the development **of the hallux abductovalgus deformity.** and resultant bution. in the **following ways:** 

- Young children and adults without loss of sensation in their feet should be encouraged to walk bare-footed as rnuch possible, to exercise and tone the muscles and ligaments of the feet.
- Shoes when vorn should have a solid heel counter, a non-slip sole, and be firmly strapped to the feet (see Figure 9).
- 3 High-heeled and pointed-toed shoes should be avoided.
- A professional opinion should be sought early to prescribe orthoses or strapping when any pressure areas develop an **the feet indicated by callus, thickened** skin or pain, including back pain.
- Muscles and ligaments can be strengthened and balanced with exercises and tissue mobilisation techniques like massage or Bol,vtech.

With attention to good footwear, and the healthy exercise of foot muscles, many problems such as hallux abductovalgus and bunions can be avoided **and** mobility and client independence maintained into old age.



#### FURTHER READING/CONTACTS/BIBLIOGRAPHY

Australian Podiatrist Association, Suite 20/450 Elizabeth Street, Surry Hills NSW 2010, Phone (02) 9698 3751, Fax (02) 9698 7116, E-Mail: apoda@apodansw.ora.au

Bowen Therapy Academy of Australia, PO Box 733, Hamilton VIC 3300, Phone (03) 5572 3000, Fax (03) 5572 3144, EMail: bowtechehl40.gone.net.au.

Cailliet, M D Foot and Ankle Pain 3rd Edition F A Davis Philadelphia USA 1997.

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Footcare for Nurses Lamp, Volume 54 Number 3 April 1997.

Lorimer, D (ed) 1993 Neals Common Foot Disorders 4th Edition, Churchill Livingstone 1993.

Quirk, R Foot Disorders in the Elderly Modern Medicine of Australia, November 1991.

#### ANNEXURES

## \* Formula for Iodex with Methyl Salicylate

### Note: Iodex Ja no longer avallable at Pharmacies

Mix together in a glass heatproof dish (with lid)

4g lodine BP (granules)

5m1 Methyl Salicylate BP Available from Pharmacies

90g Petrolium jelly (eg vaseline)

Cover with lid

Heat in microwave until melted

Mix when melted mix and heat in turn until all the Iodine granules have dissolved.

**Note: AVOID** breathing the fumes and avoid the fumes making contact with your eyes as you lift the lid and/or stir the mixture.

### Finished product looks like Vegemite

Pour into AMBER glass jars when about to set. Close lid.

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

AMBER GLASS JARS can be obtained from:

Cos pak International Pty Ltd 161-187 Woodville Road VILLAWOOD NSW 2163

Telephone: 02 97268000

# WHAT TO LOOK FOR IN SHOES

- 1. The shoe should ideally be leather, deep, and wide enough to accommodate the foot. A rounded toe is preferabte. No moccasin styles as they are very shallow. They are also heavily stitched, beware of any seching oft shoes es it does not streich.
- 2. The c,ounter or the back of the shoe should be firm, in other words it should nd be able to be pushed down easily.
- 3. The shoe should have laces or velar) fasteners. People with neuro pathy have trouble keeping shoes on their Feet.
- 4. The sole should be made of rubber and approximately 1cm thick. The shoe should also flex when it is bent into the walking position. Shoes that have leather or artificial soles offer no protection from the Pressures exerted when walking.
- 5. The lining should be smooth and have no rough seams. Put your hand in and feel the ling of the shoe.
- 6. If your patent cannot afford the ideal shoe ask them to look for a cheap runner that has the features mentioned above: The runner should preferably be leather but a combination of vinyl and cloth is okay. This is usually 100% better than what they have been wearing.
- 7. Patients need to purchase shoes in the afternoon when their Feet are most most swollen, if they fit then they will fit in the moming.
- ö. 7datients should never wear new shoes all day. Instruct them to take the shoe home, wear them around the house for about 20 30mins, then take them off. They should then examine their Feet, looking for any red marks, abrasions etc. If there is a problem they should either have the shoes stretched or return them and purchase another pair.
- 9. Never wear open sandals, siip on shoes orthongs.
- .10. Never wear shoes without socks or stockings.
- 11. Use a shoe hom to put shoes on.
- 12. Patients should always check Inside their shoes before wearing them for any rolled or damged lining or any foreign objects.
- 13. Slip pers that are warm, and have a rubber sole are ideal. We recommend sheepskin slip pers or boots to our patients.

# **VAII INT INSTRUGTIONS**

- 1. Mix 2 tablespoons Epsom Salts in a bowl of hot water.
- 2. Soak your bunion(s) in this for 20-30 minutes.
- 3. Dry feet, then rub a smear of IODEX into the bunion area.



5. Mark each treatment off an the calendar supplied.

YOUR FEET WILL BE ASSESSED MONTHLY TO CHECK FOR ANY **CHANGES** 

IF YOU HAVE ANY PROBLEMS AT ANY TIME WITH THE TREATMENT, PLEASE PHONE ME OR YOUR DOCTOR.

Barb Lambeth (02)69 544297



MUER HEALTH SERVICE

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75 IONNSTON STREET WACGA WAC CA

Pr(oNc: (069) 21 5588 FAx: (069) 21 5856

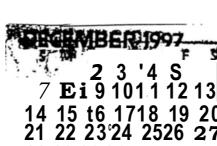
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CLIENT'S Name:
BUNION TRIAL - BUNION GIRTH MEASUREMENTS  1 Pre-treatment
Date Time (a) Girth Measure  2 @ 1 month No. Rx given = ( Date Time
(b) Girth Measure 3 @ 2 months No. Rx given = (
Date Time (c) Girth Measure  4 @ 3 months No. Rx given = (
Date Time (d) Girth Measure  5 @ 4 months No. Rx given = (
Date Time  (e) Girth Measure  6 Trial Completion No. Rx given = (  Date Time (f) Girth Measure
Difference between pre Rx and Trial Completion measure = (a) - (f)