

## **Symptoms**

Diane had neck pain resulting from work. When asked by her dentist employer to sit on a Bambach Saddle Seat (which was already in use in the surgery) she discussed the idea with her Osteopath, who said that it was a good idea.

## Introduction to the Bambach Saddle Seat

Diane was instructed how to adjust the tilt and height of the seat and how to assume the best posture for work.

### Result

After she became used to the new position, Diane found the Saddle Seat beneficial. Her neck did not hurt even after a whole day's work when using the Bambach Saddle Seat. Diane said:

I like the way your legs are with your feet on the floor; it is a comfortable way to sit, but you have to get used to it.  $\Sigma$ 



Diane on a conventional, flat dentist stool. Her pelvis, rolled back, collapses her spine, her head and neck strained to see her work. Her right shoulder is raised and statically held to work suction. Diane in a relaxed and natural posture, her spinal curves restored. Her pelvis is rotated to a natural upright position allowing her spine, head, neck and shoulders to work without postural stress.



Mary Gale

### The Award-winning Bambach Saddle Seat

The idea for the Bambach Saddle Seat came to occupational therapist and horsewoman Mary Gale in treating patients who could not sit unsupported on an ordinary seat or wheelchair. Mary found that the same patients could balance quite independently on horseback and assume a symmetrical posture.

It occurred to Mary that if she could replicate the 'saddle position', where the spine is able to assume its natural curves, she would create an ideal seat for therapy as well as for task seating.

A review of literature showed work of Dr A.C. Mandel, who noted that the ideal sitting posture for the human spine is achieved on horseback. Other researchers also concluded that ordinary furniture removes the natural curves from the spine and places great stress on the spinal discs. Anecdotal reports from horse riders who suffered severe back pain on the ground, yet who gained marked relief when mounted in the saddle, were also noted. Several years of experimentation resulted in the Bambach Saddle Seat, deceptively simple in design but incorporating refinements and features that permit sitting for extended periods without loss of a healthy spinal curve. The proof is that the Bambach Saddle Seat is enabling many people who suffer disabling back pain to return to work. The seat also offers the opportunity for normal adults and children to sit to work independently in correct posture and maintaining mobility, but it is especially valuable for many who are physically impaired.



And by Shape

NeoCon Silver Award Design Excellence for Desk/Workstation Task Chairs

Winner ADEX Award for Ergonomic Task Seating

#### Published papers on the Bambach Saddle Seat

T. Verkindere, C. Lacombe, and J. P. Lodter, 'Electromyographic study of the dynamic sitting position suitable for dentists', *L'information Dentaire*, Vol. 80 No. 12 (March 1998)

M. Gale, S. Feather, S, Jensen, G. Coster., 'A Multi Disciplinary Approach to the Design of a Work Seat to Preserve Lumbar Lordosis'. Australian Occupational Therapy Journal, Vol. 36 No. 2 (June 1989)

#### Publication

Mary Gale, The Seated Spine & The Bambach Saddle Seat, Brookvale, NSW, 1997.

# Research papers on the Bambach Saddle Seat have been presented at:

International Conference on Ergonomics Occupational Safety & Health & the Environment, Beijing, October 1988.

Third International Physiotherapy Congress, Hong Kong June, 1990.

The National Safety Council of Australia's Congress, 'Futuresafe', Adelaide, South Australia, May 1992.

'Tadsem', Cumberland College of Health Sciences, University of Sydney Campus, Australia, October 1992.

World Federation of Occupational Therapists Conference – The Scientific Programme Technology Seating Sessions, Imperial College, London, April 1994.

# Research on the Bambach Saddle Seat has been exhibited via poster presentation at:

The World Federation of Occupational Therapists, Melbourne, Victoria, Australia, April 1990.

World Physiotherapy Congress, London, UK, September, 1990.

#### Unpublished papers on the Bambach Saddle Seat

A. Nicholls, Doctor of Chiropractic: 'Report; Physiological Evaluation of the Intact Column-Pelvis-Meningeal System Radiographic Outcome Findings'.

Prof. G. Schumpe, Graduate Physicist/Medical Practitioner: Biomechanical Study of Sitting on the 'Saddle Seat'.

M. Gale, S. Aldrich, S. Jensen, W. Gale, 'Comparison Study of a Saddle Seat with Conventional Office Work Seat'.



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