Chiropractic Manipulation in Adolescent Idiopathic Scoliosis: a pilot study

Submission date Recruitment status [] Prospectively registered 05/04/2005 No longer recruiting [] Protocol [] Statistical analysis plan Registration date Overall study status 08/04/2005 Completed [X] Results [] Individual participant data **Last Edited** Condition category 15/02/2008 Musculoskeletal Diseases

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number N/A

Study information

Scientific Title

Acronym

MSU-AIS

Study objectives

A large scale, multi-disciplinary, collaborative clinical trial is needed to explore the effectiveness of chiropractic manipulation of patients with Adolescent Idiopathic Scoliosis (AIS). But prior to conducting such a trial, we needed to perform a pilot randomised controlled trial to explore issues of safety, patient recruitment and compliance, treatment standardisation, sham treatment refinement, inter-professional cooperation, quality assurance, outcome measure selection and statistical analysis.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The Institutional Review Board of Borgess Medical Center, Kalamazoo approved the study protocol.

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Adolescent Idiopathic Scoliosis (AIS)

Interventions

Patients were treated for six months by:

- 1. Standard medical care (observation or brace treatment)
- 2. Standard medical care plus chiropractic manipulation
- 3. Standard medical care plus sham manipulation

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

The primary outcome measure was Cobb, and the psychosocial measure was Scoliosis Quality of Life Index.

Key secondary outcome(s))

Not provided at time of registration

Completion date

31/08/2003

Eligibility

Key inclusion criteria

- 1. Children aged 10 16 years
- 2. Diagnosis of Adolescent Idiopathic Scoliosis
- 3. Spinal curvature on Posterior/Anterior (P/A) radiographs of between 20 and 30 degrees measured by the Cobb method in non-braced individuals and 30 to 40 degrees in braced individuals
- 4. Palpatory evidence of subluxation (manipulative lesion) on chiropractic screening examination
- 5. No contraindications to spinal manipulative therapy
- 6. Signed informed consent by parent/quardian
- 7. Signed child assent form
- 8. Availability for follow-up evaluation

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

10 years

Upper age limit

16 years

Sex

All

Key exclusion criteria

- 1. Age less than 10 or greater than 16 years
- 2. Diagnosis other than AIS following clinical, radiographic and advanced imaging assessment
- 3. Contraindications to manipulation
- 4. Congenital or acquired structural spinal abnormalities
- 5. Leg length inequality greater than 3/8 inch
- 6. Pregnancy
- 7. Pain as a primary clinical feature
- 8. Mentally incapacitated patient
- 9. Planning to move/unwilling to return for follow-up
- 10. Previous back surgery
- 11. Significant trauma
- 12. Obesity impairing ability to manipulate

Date of first enrolment

01/08/2001

Date of final enrolment

31/08/2003

Locations

Countries of recruitment

United States of America

Study participating centre 1000 Oakland Drive

Kalamazoo United States of America 49008

Sponsor information

Organisation

Michigan State University (USA) - Kalamazoo Center for Medical Studies

ROR

https://ror.org/05hs6h993

Funder(s)

Funder type

University/education

Funder Name

Michigan State University (USA)

Funder Name

Kalamazoo Center for Medical Studies, Kalamazoo, Michigan (USA)

Funder Name

American Chiropractic Scoliosis Foundation, Fort Collins, Colorado (USA)

Funder Name

Canadian Memorial Chiropractic College, Toronto (Canada)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	Results	21/08/2006		Yes	No