

VACUUM CYLINDER SUSPENSION SYSTEM (OR PRESSURE CYLINDER)

A vacuum or pressure cylinder system replaces the negator spring system. Adjustments could be made more easily and would be infinitely variable. G level adjustment could be made easily with patient standing on a scale.

Advantages

1. Adjustability is infinite from 0 to patient's full wt.
2. Vertical mode.
3. Bidirectional.
4. Can be used to study gait f load.
5. Good for lower extremities, back.
6. Now space simulation - motivation.
7. Would enable gymnastics in advanced P.T. patient.
8. Lower cost than negator spring system.

Disadvantages

1. Awkward at first.
2. Time in rig may be limited.