

Passive Assistive Active Training

passive kinesitherapy Technology



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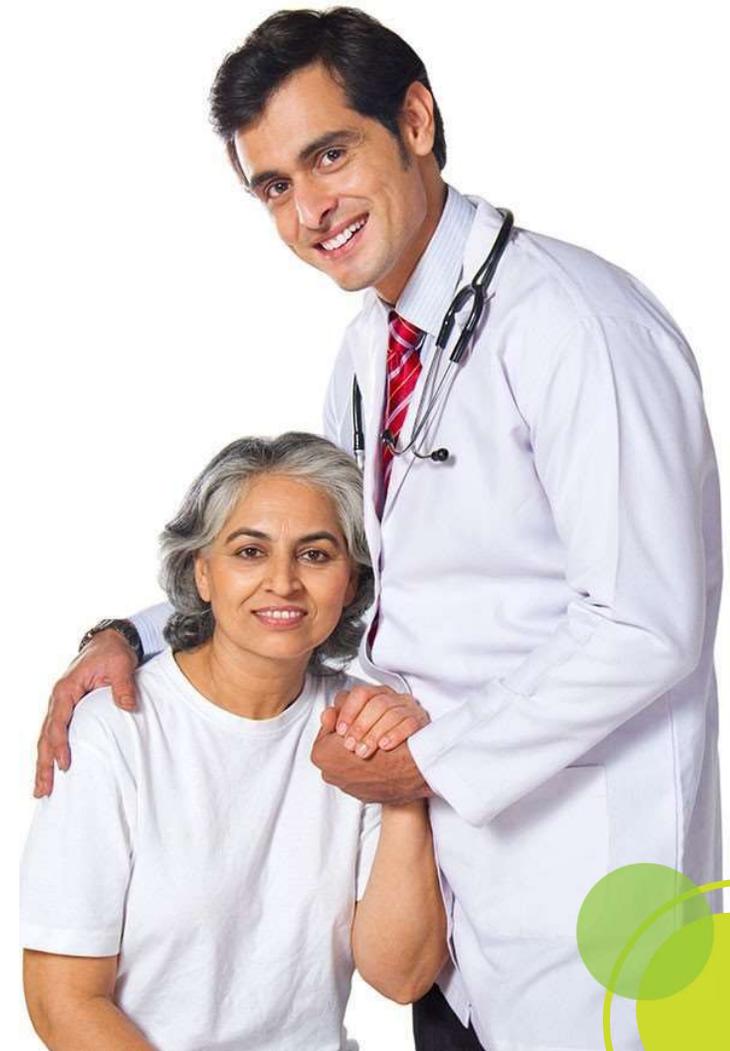


PASSIVE TRAINING

In the case there is no residual motorial activity for the lower limbs, allows to perform passive pedalling movement, in which the feet and the legs are pulled by the motor at a speed previously set (passive kinesitherapy).

When used for the upper limbs, in the case where there is no residual motor activity allows the patient to move passively in a cyclic way.

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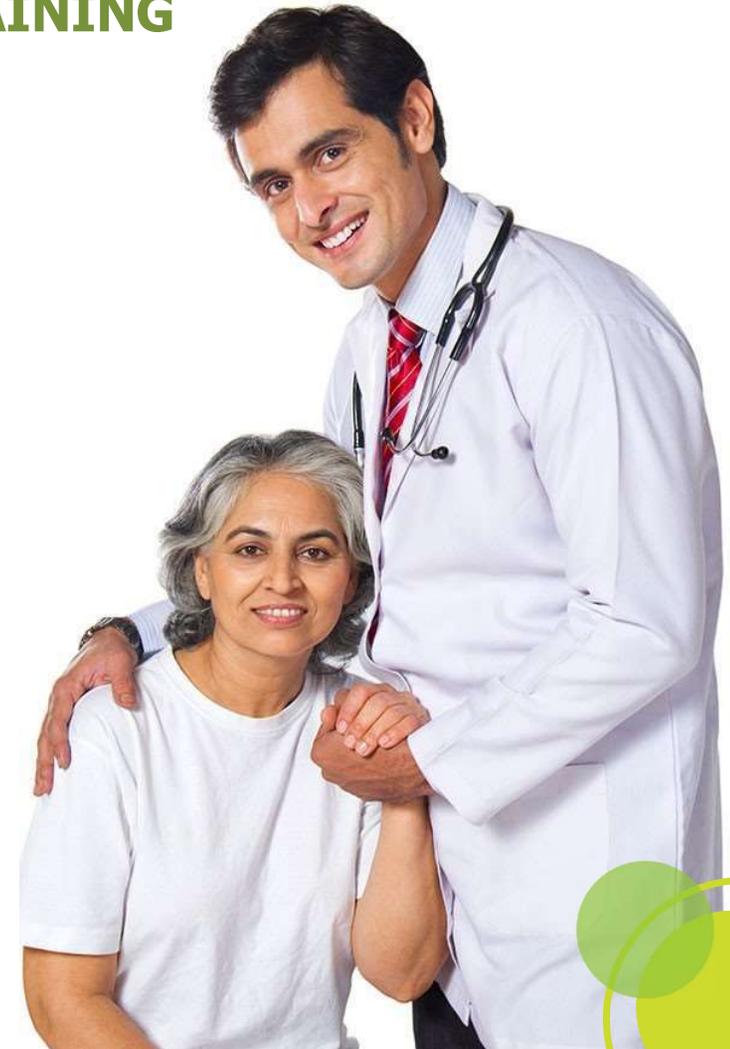
ACTIVE AND ASSISTED TRAINING

Whenever the user is capable of pedaling, even weakly, by using his or her own force, the motor offers assistance to start and maintain the motion at the pre-set speed (assisted movement).

If the user is capable of going over the speed of the motor and keep a pedaling by himself or herself MotoLife may make resistance and it can be adjusted in order to increase the work of the muscles and improve the cardiopulmonary efficiency (active kinesitherapy).

Passing from one mode to the other can happen automatically: the on-board computer checks in real time and continuously the force exerted on the pedals or on the handgrips by the user and it adjusts the level of assistance o resistance of the motor accordingly.

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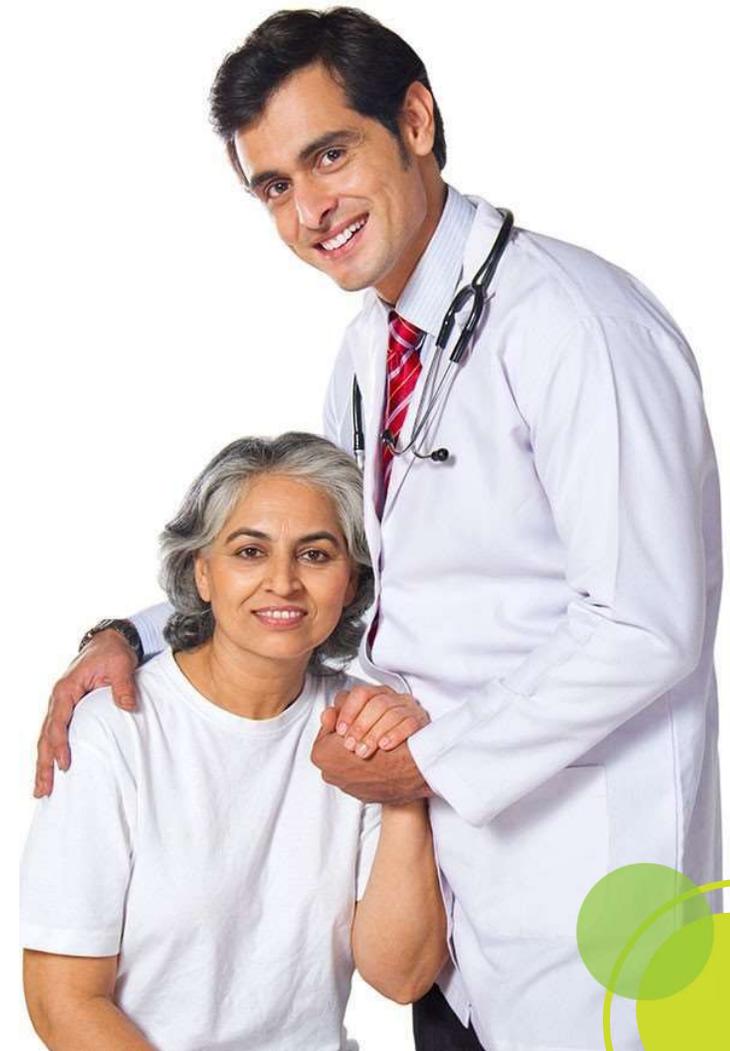


Most Important Safety Control



A safety control is present to detect at all times and in real time if there are any muscular spasms during therapy. The system interrupts the therapy in case a spasm is detected and inverts gradually the direction of the pedalling. The sensibility of the detection can be set to adjust the device in the best way for the user.

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MAIN FEATURES

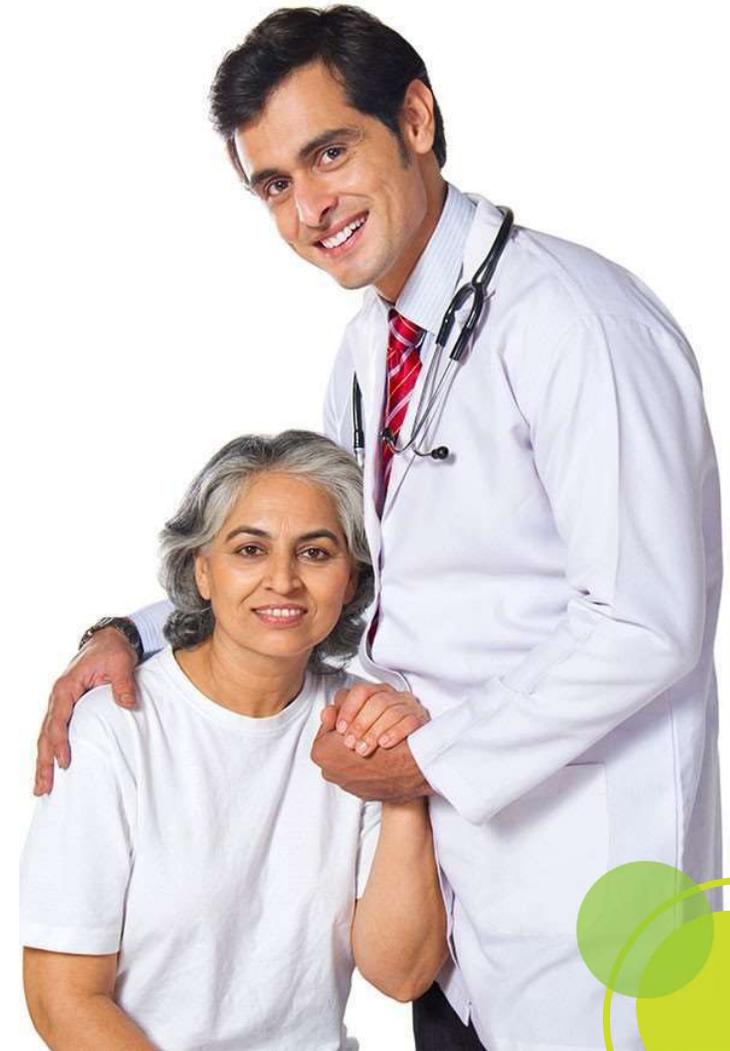
ELECTRONIC FLYWHEEL EFFECT:-

An electronic motor torque effect has been considered and included to reduce the weight and size of the cycle arm-ergometer and to make it easy to move it around.

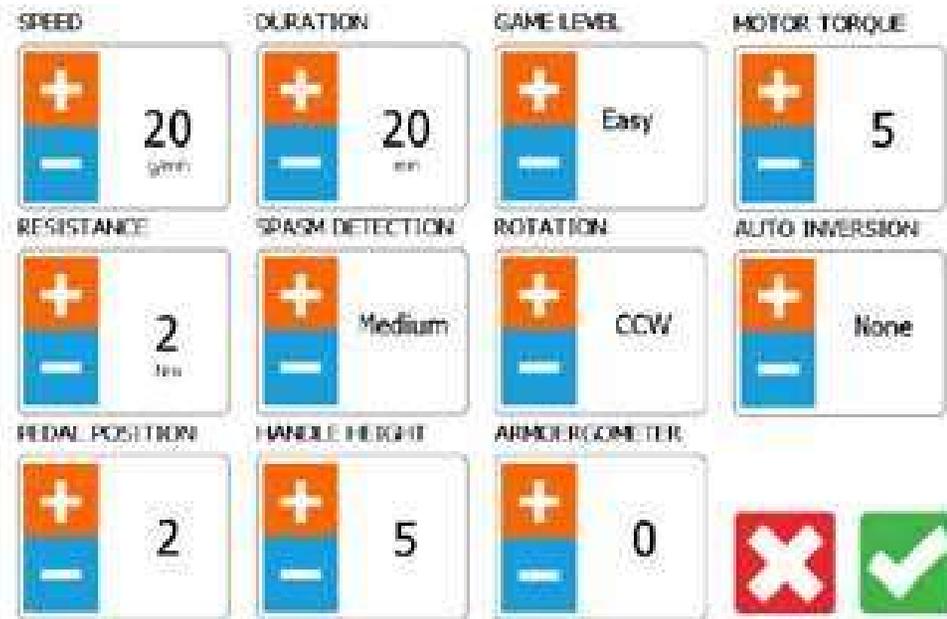
SAFETY FOOT SHELLS:-

In order to make the device be used by patients with zero or reduced mobility of the feet, the pedals are made with a shell shape which assures the holding of the foot at the back and side part.

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INDIVIDUAL SETTING STORAGE



All the working parameters can be adjusted from the therapy settings panel. Considering the MotoLife® runs a multiuser software, for each account the settings are kept in a database and can be recalled subsequently. Also the parameters regarding the settings of the depth of the arm-ergometer, pedal position, etc. are stored by using the settings panel and can be recalled subsequently.

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ADJUSTMENT

TILTING DISPLAY



Pedal position can be changed



Handle position can be changed

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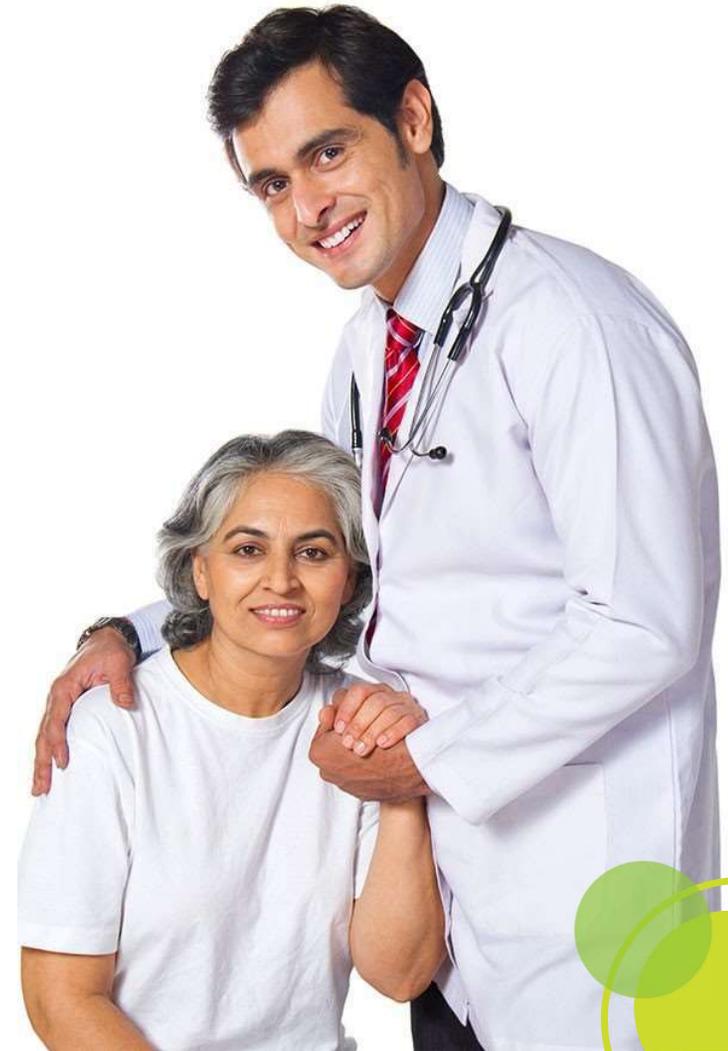


SOFTWARE



The software is multi-user type, and it allows to create, modify and delete different accounts. The settings are stored for each user in a database and they can be recalled when a given account is selected. The account stores the settings of the therapy, both for legs and arms. It also keeps a record of all the training sessions for each account

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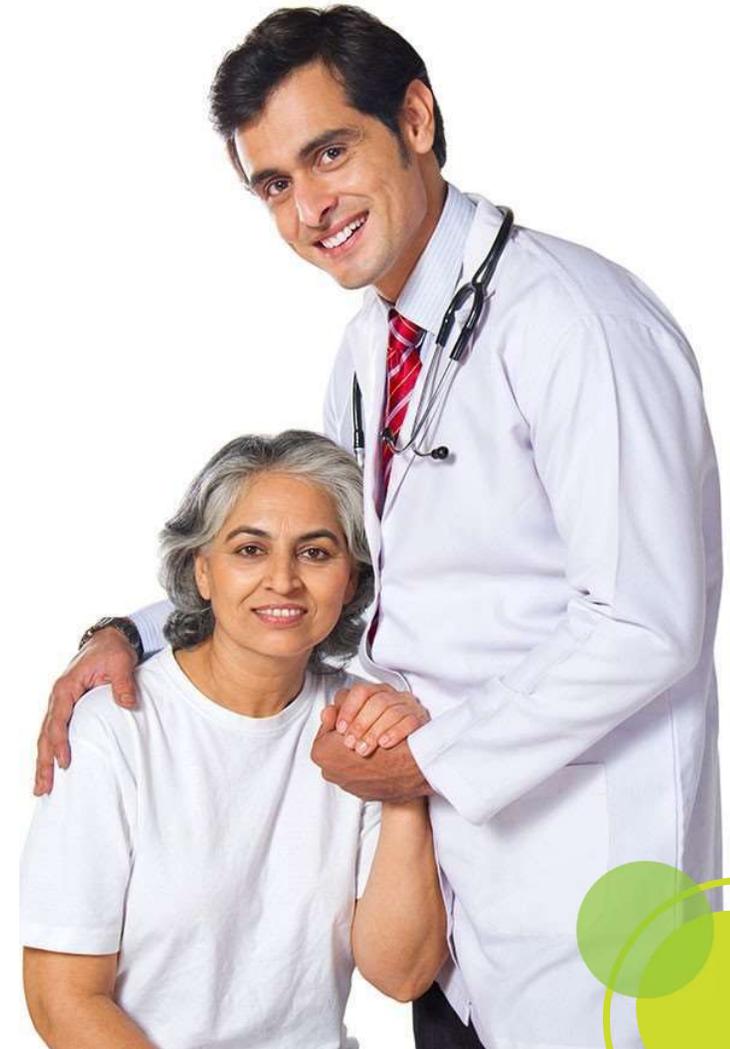




EASY DATA ANALYSIS

By inserting a USB memory drive in the port on the right of the display it is possible to export the data in a text file, in comma separated values (CSV). Such information can be easily imported into an excel file to study the results.

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SOFTWARE GUIDANCE

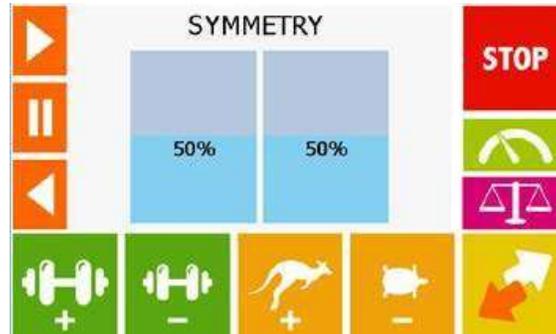


The colorful and easy to use interface keeps the user's attention focused by means of sliding screens which show all the details of the training and aim at improving the exercise by using encouraging expressions which change according to the progress of the session. It is possible to understand in real time the balance between active and passive therapies, having a clear view of the key parameters involved.

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MOTIVATING SOFTWARE



Congratulations! You completed the training session. Keep training assiduously!

Duration :	7 min : 35 s	Average Speed :	18 rpm
Duration in Active :	0 min : 22 s	Maximum Speed :	87 rpm
Duration in Passive :	7 min : 13 s	Average Power :	0.1 Watt
Distance Covered :	0.53 Km	Maximum Power :	2 Watt
Distance in Active :	0.07 Km	Simmetry :	49% - 51%
Distance in Passive :	0.46 Km	Number of Spasm :	1



Sessions Log

Date: 9/1/2017	MARISA PALMA
PKW 0	PKWPOWER 1,6 Watt
DURATION 20 : 0	MEDEMPower 0,6 Watt
DURATION ACTIVE 19 : 28 (97%)	BOGE SPOASIS 51 %
DURATION PASSIVE 0 : 32	LEFT SPNETRY 49 %
PEWUP SPEED 39 g/min	DISTANCE 3,12 Km
PKW SPEED 58 g/min	DISTANCE PASSIVE -
SPDRES 0	DISTANCE ACTIVE 0,04 Km



Sessions Export

Start Date

martedi 12 settembre 2017

End Date

lunedì 4 dicembre 2017

EXPORT DATA

INSERT USB DRIVE



Accessories

Tip Up Protection



Extra Belt



Leg Support



Shoe Pedal For Children



Wrist Band For Therapy Grip



Arm Rest

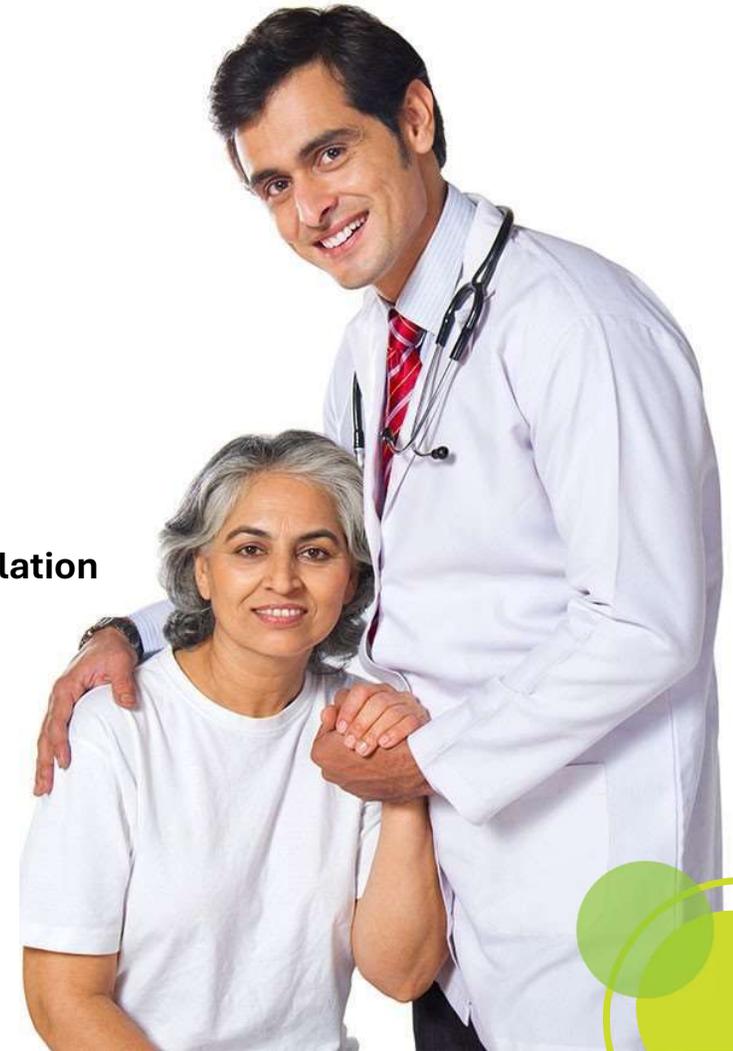


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APPLICATIONS

1. **Post-stroke rehabilitation or brain trauma**
2. **Multiple sclerosis**
3. **Parkinson's disease, paraplegia, cerebral palsy**
4. **Orthopaedic rehabilitation**
5. **Cardiopulmonary conditioning, hypertension and Peripheral circulation**
6. **Movement rehabilitation in geriatrics psychological benefits**

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