[0005] It is therefore desirable to provide improved systems and methods for altering the biomechanical properties of connective tissue having advantages not heretofore taught.

SUMMARY OF THE INVENTION

[0006] Systems and methods for altering the biomechanical properties of connective tissue are described herein that overcomes the limitations noted above.

[0007] In general a device for delivering medical treatments is disclosed which comprises a laser for generating a beam of laser radiation, a housing, a controller within the housing, in communication with the laser and operable to control the qualities of the beam of laser radiation in application to a target material, a lens operable to focus the beam of laser radiation onto a target material, and a power source operable to provide power to the laser and controller.

[0007a] In one aspect, there is provided a device for delivering ablative medical treatments to improve biomechanics comprising:

a laser for generating a beam of laser radiation used in ablative medical treatments to improve biomechanics;

a housing;

a controller within the housing, in communication with the laser and operable to control dosimetry of the beam of laser radiation in application to a target material;

a lens operable to focus the beam of laser radiation onto a target material; and

a power source operable to provide power to the laser and controller.

[0007b] In one aspect, there is provided a method of delivering ablative medical treatments to improve biomechanics comprising:

using a laser to generate a treatment beam in a treatment to improve biomechanics;

wherein a controller, in electrical communication with the laser, is used to control dosimetry of the treatment beam in application to a target material;

wherein a lens is used to focus the treatment beam onto the target material; and

wherein a power source is used to provide power to the laser and the controller.

[0007c] In one aspect, there is provided a system of ablating biological tissue to improve biomechanics comprising:

performing an ablating procedure on a biological tissue in a pattern while monitoring the ablating procedure.

[0008] Other features and advantages of the present invention will become apparent from the following more detailed description, taken in conjunction with the accompanying drawings, which illustrate, by way of example, the principles of the presently described invention.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S)

[0009] Illustrated in the accompanying drawing(s) is at least one of the best mode embodiments of the present invention. In such drawing(s):