CEU-UCH Cardenal Herrera University patented a device that can be applied in surgeries to correct deviations in long bones. The research team found how to use the 3D reconstruction of an affected bone to determine the mathematical formula that in a given case is suitable to design such a device. This device is adjusted to a specific deviated bone and enables a surgeon to set the cutting angle that best suits the bone, and, also, to set the location and orientation of holes that accept the future addition of a corrective prosthesis. It enables realigning the body extremity that is operated on, and also increases precision, shortens the time required for the operation, and improves the operation's functional results. The device has already been used with success in operations on animals and could have applications in orthopedic surgery on humans.

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