

Total Energy Emitted: Is this the Most Important Factor for the Efficacy of ESWT?

Athour:

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Device and producing company:

Piezuson 300, WOLF

Introduction:

We want to verify the importance of total energy delivered by comparing the results of using a large focus with low energy density and a small focus with high energy density.

Methods:

The treatment was performed using a Piezuson 300 from WOLF, a focused piezoelectric generator with three different focal dimensions. This study includes: Group A: large focus and low energy density (0.06 mJ/mm²) Group B: small focus and high energy density (0.18 mJ/mm²) Each patient received 4 applications, 2000 shock waves/session.

Results:

The follow-up is ongoing and we will present the results during the meeting.

Discussion:

Last year we presented the preliminary results of a study in which we compared different protocols varying the focus dimension and energy density with a stable value of total energy (mJ) emitted. The evaluation of final data confirmed a strong link between the efficacy of ESWT and the total energy emitted, however we stated that a future study which included more patients was warranted. Hence we continue this work to verify the results of treatment using a new and larger sample of patients.

Conclusion:

Preliminary results seem to confirm the strong dependency between efficacy of ESWT and the total energy emitted. We are currently evaluating the patients in order to obtain final data to draw final conclusions that will be presented at the Congress.