

The Dynatron Solaris® Ultrasound Machine: Slower Heating Than Textbook Recommendations at 3 MHz, 1.0 W/cm²

Kara N. Gange, Michael C. Kjellerson, and Christiane J. Berdan

Context: Therapeutic ultrasound clinical parameters are provided in many modality textbooks based on research performed with the Omnisound brand. Literature exists to support variability in heating rates with different manufacturers. It is unknown if the Dynatron Solaris heats at rates consistent with textbook recommendations. **Objective:** Determine the rate of tissue-temperature increases in the medial triceps surae with the Dynatron Solaris® 708 ultrasound unit. **Design:** 3 × 13 repeated measures. Independent variables were tissue depth (1.0, 1.75, and 2.5 cm) and time (13 time periods throughout the treatment). **Setting:** Research laboratory. **Participants:** 30 healthy volunteers (female = 11, male = 19; age 21.30 ± 1.95 y; adipose thickness = 0.54 ± 0.15 cm). **Intervention:** Three thermocouples were inserted into the medial triceps surae at 1.0, 1.75, and 2.5-cm depths. A continuous 3-MHz, 1.0-W/cm² for 20 minutes ultrasound treatment was performed with a Dynatron Solaris 708 machine. **Main Outcome Measures:** Intramuscular tissue-temperature increases at each depth throughout the 20-min treatment. **Results:** There was a significant main effect of depth ($F_{2,52} = 29.76$, $P < 0.001$) and time ($F_{12,312} = 181.59$, $P < .001$) and a significant interaction between times and depths ($F_{24,624} = 15.49$, $P < .001$). The 1.0-cm depth increased 4.22 ± 1.58°C in 6 min (0.70°C/min rate), the 1.75-cm depth increased 3.93 ± 1.94°C in 10 min (0.39°C/min rate), and the 2.5-cm depth increased 3.60 ± 1.86°C in 20 min (0.18°C/min rate). **Conclusions:** The rate of tissue-temperature increase varied at each depth and the 1.0-cm depth was the only rate similar to textbooks. Clinicians will not reach tissue-temperature goals using Omnisound textbook parameters on the Dynatron Solaris 708 at depths greater than 1.0 cm, which may affect clinicians, educators, and state-certification exams.

Keywords: therapeutic ultrasound, heating rates, parameters

Therapeutic ultrasound is a commonly used heating modality that increases intramuscular tissue temperatures when used properly.^{1–12} Increasing the temperature within the target tissue can initiate several physiological responses to assist with the healing process. A 1°C increase above baseline (mild heating) causes mild inflammation and accelerates the metabolic rate, whereas a 2–3°C increase (moderate heating) reduces muscle spasm, pain, and chronic inflammation and increases blood flow within the tissue. Vigorous heating (≥4°C increase) inhibits sympathetic activity and increases collagen extensibility.^{1–6} Many therapeutic modality textbooks provide the rate of muscle heating per minute with associated intensities and frequencies to allow clinicians to set the appropriate parameters to reach their treatment goals.^{1,3–16}

Although textbooks provide clinical parameters, it is imperative to note this information is based on the Draper et al³ study performed with the Omnisound 3000™ machine. Evidence exists that supports

variations in heating capabilities among manufacturers, specifically with the 3 MHz frequency.^{2,3,8} In these studies, the Excel Ultra III (XLTEK, Oakville, Ontario, Canada),² Dynatron 950 (Dynatronics, Salt Lake City, UT),² and Forte 400 Combo (Chattanooga Corp, Chattanooga, TN)⁸ have each produced slower heating rates than textbook parameters based on the Omnisound 3000 research.^{3,13–16} These studies support that heating rates appear to be manufacturer specific and may vary greatly. This variation amongst manufacturers is problematic since they may not produce the desired therapeutic effects if the Omnisound textbook parameters are applied to a machine other than the Omnisound 3000. Furthermore, the BOC¹⁷ and State Licensure¹⁸ exams list many of the textbooks that include these Omnisound parameters as references for the written exams.

In addition to the heating rates, inconsistencies exist for the depth of penetration with 3 MHz ultrasound between the textbook parameters and the literature. In 1995, Draper et al³ examined the rate of temperature increases with a 3 MHz frequency and a variety of intensities at the depths of 0.8 (1/2 value depth) and 1.6 cm (2 × 1/2 value depth). The temperature increases between the depths were similar and the authors

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