

## CarePICS, LLC Announces New Measurement Tool to Augment Their Remote Clinical Imagery System

**RALEIGH, N.C. - Jan. 5, 2016 - [PRLog](#)** -- CarePICS, LLC, with headquarters located in Raleigh, NC, is pleased to announce the introduction of a revolutionary new auto-measurement planimetry tool designed to be the next generation in wound assessment technology. CarePICS' CTO, Terry Williams, described the technology as "a fusion between best clinical practices and new evolving software edge detection algorithms that are now available for integration into imagery applications." He further commented, "Clinical science in wound care is very much a trained eye environment ... we do not believe that a computer program can take the place of this acumen, but we do think we may aid in general determination of wound edges and morphology identification, then let the wound care professional determine exact clinical parameters with their overview."

The term *fusion* in the dictionary is defined *as a merging of different parts to make a stronger whole*. The manual mathematical methods currently utilized for determining surface area of a wound are woefully inaccurate and often time length and width are transposed from one week to the next when measurements are taken. Planimetry algorithms in digital imagery software where the clinician traces the outline of the wound have become commonplace in the last ten years but require fairly intensive user interface to trace the wound edges. And recently the emergence of totally automated imagery analysis systems have emerged but leave little room for humanistic clinical analysis.

Now, with the introduction of CarePICS Fusion©, consistency and accuracy of measurements are possible to a very high standard but still leave the practice of medicine to the clinician. This initiative has its sentience in our development center in Denver, Colorado. This team, comprised of graduates with advanced computer and applied sciences degrees from Virginia Polytechnic Institute, the University of North Carolina, the University of Colorado and the University of Denver, brings together a group with the skill sets that truly define a clinical imagery company.

The new CarePICS Fusion© tool is a client-side algorithm that automatically determines the edges of the wound utilizing a set of proprietary mathematical methods aimed at identifying points in a digital image at which the image brightness changes sharply or, more formally, has discontinuities. The points at which image brightness changes sharply are typically organized into a set of curved line segments termed *edges*. In addition to the detection system, the algorithm fuses a manual planimetry methodology that allows the clinician to tweak the line sets of the edges if not in agreement with the interpolated values ... thus giving the care professional last overview of clinical wound metrics, such as length, width and surface area.

Therefore a fast, accurate and easy to use tool now exists that allows measurement of wounds in any environment, whether it is utilized as a screening tool in a busy general medicine practice, a predictive aid in wound assessment in home health or a skilled nursing facility or a time saver to staff in a wound care clinic. This, coupled with our interactive front-end that provides voice, text and email interaction between users, brings a state of the art patient encounter tool for wound care management. CarePICS, LLC will be demonstrating this breakthrough technology at the upcoming SAWC meeting in Atlanta, Georgia in April. We encourage all attendees to attend a hands-on demonstration of all aspects of our remote clinical imagery management tool. [www.carepics.com](http://www.carepics.com)

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