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Latest Study Confirms Accuracy of CS 3600 Intraoral Scanner

ATLANTA—The CS 3600 intraoral scanner has proven itself in trueness in a recent study published in BioMed Central Oral Health. “Accuracy of Four Intraoral Scanners in Oral Implantology: A Comparative In-Vitro Study”¹ found that the CS 3600 performed best in trueness as well as that there were no significant differences found between the four scanners tested in regards to precision.

Trueness is the “ability of a measurement to match the actual value of the quantity being measured,” while precision is the “ability of a measurement to be consistently repeated.” Both are required for a highly accurate scanner.

Two gypsum testing models—one partially edentulous with three implant analogues and one fully edentulous with six implant analogues—were scanned with a highly accurate laboratory scanner. Each model was scanned five times by the four scanners. To determine general trueness, the datasets were reverse engineered by superimposing the scans onto the reference models. The scans were superimposed onto each other in groups to determine precision.

According to the study, “significant differences in trueness were found among the scanners;” the researchers indicated that these differences could impact clinical implications. However, the CS 3600 captured the truest scans of both the partially edentulous and fully edentulous models, meaning the CS 3600 “should be preferable to use in similar clinical settings.”

The final takeaway gleaned from the study was that “no statistically significant differences were found in the precision among the four different IOS (intraoral scanners).”

“We are excited to hear that our CS 3600 intraoral scanner came in first in trueness, and that the study also found that all four scanners offered similar results in precision,” Ed Shellard, D.M.D., sales and marketing, vice president, Carestream Dental, said

The CS 3600’s high speed continuous scanning capabilities allow users to scan in a smooth, uninterrupted manner; unsteady hands or fidgeting patients have little impact on the quality of the final scan. This feature contributes to more accurate digital impressions and faster, easier dual arch acquisition. The scanner’s software features three workflows—restorative, orthodontic and implant-borne restorative—so doctors of all specialties can benefit from its high-quality, HD 3D digital impressions.

For more information about the CS 3600 or any of Carestream Dental’s innovative products, please call 1.800.944.6365 or visit www.carestreamdental.com.

¹Imburgia M, Logozzo S, Hauschild U, Veronesi G, Mangano G, Mangano FG. June 2, 2017. Accuracy of Four Intraoral Scanners in Oral Implantology: A Comparative In-Vitro Study. BMC Oral Health. 17(92): DOI 10.1186/s12903-017-0383-4

About Carestream Dental

Carestream Dental provides industry-leading imaging, CAD/CAM, software and practice management solutions for dental and oral health professionals. With more than 100 years of industry experience, Carestream Dental products are used by seven out of 10 practitioners globally and deliver more precise diagnoses, improved workflows and superior patient care. For more information or to contact a Carestream Dental representative, call 800.944.6365 or visit carestreamdental.com.

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