

1760 E. Pecos Road  
Gilbert, AZ 85295  
480.553.8999



## AQUILION ONE ACHIEVES GROUNDBREAKING STRIDES IN PEDIATRIC IMAGING

**Marquis Diagnostic Imaging** is pleased to offer **Arizona's First Aquilion ONE "Dynamic Volume" CT Scanner.**

This system scans an entire organ in a single pass and produces 4D videos that show an organ's structure, movement, and blood flow. In comparison, a 64- slice, 128-slice, or 256-slice CT scanner can capture only a portion of an organ in a single pass, forcing physicians to "stitch together" multiple scans of an organ to get a full image.

- > **Aquilion ONE CT scanner reduces radiation/contrast dose**
- > **Pediatric patients are able to be scanned without sedation**
- > **16cm single rotation allows for fastest scan time**

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The speed of our scanner, which covers 16cm in a single 0.35-second rotation, means pediatric patients won't have to test their ability to stay still. When children are imaged with multidetector CT, sedation is sometimes required to keep the patient still long enough to obtain a clear diagnostic image.

Using the Aquilion ONE, fewer pediatric patients will have to be sedated for these exams. This scanner is the fastest CT scanner available with a larger detector, and since pediatric patients' organs are smaller, we can now capture entire organs in one scan. With cardiac scans, we can more easily time the imaging with the beating of the heart.

Another benefit of the Aquilion ONE is the reduced radiation dose. With faster, more complete scans, children can avoid excess radiation exposure. The typical cardiac scan with the Aquilion ONE results in less than 2 millisieverts (mSv) radiation dose, versus 10-15 mSv in a conventional pediatric cardiac exam.

In addition to the speed reducing radiation dosage, the scanner comes with a type of software that automatically measures the size and age of each patient and tailors radiation dose to achieve the best and safest image quality for each exam. This software uses protocols based on the patient's age, size, and type of exam to ensure patients receive only the radiation required to obtain a clear diagnostic image.



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