Biograph mCT Flow

FlowMotion, the end of stop and go.

 Answers for life.
Using FlowMotion Technology to Overcome Today’s PET/CT Challenges

Until now, PET examinations have been performed in sequential bed positions, alternating between acquisition and patient table motion. As such, image quality and quantitative accuracy have always been restricted, and scans often resulted in higher dose and greater patient anxiety. Powered by Siemens' revolutionary FlowMotion™ technology, Biograph mCT Flow™ is the world’s first PET/CT system to eliminate the demand for stop-and-go imaging.

1 Finest Detail in Every Organ

**Challenge**
Inherent complexity of stop-and-go scanning has limited the routine use of advanced PET/CT imaging technologies.

**Solution**
With FlowMotion examinations, parameters such as speed, image resolution and motion management can be easily adjusted to the precise dimensions of organs and routinely incorporated into a single scan for every patient.

**Benefit**
The five-year survival rate for NSCLC patients may more than double if caught earlier. Routine use of motion management, enabled with FlowMotion, supports the early detection of small lesions.

2 Accurate Quantification in All Dimensions

**Challenge**
Insufficient overlap of sequential bed acquisitions may cause varying noise sensitivity, resulting in variability of quantitative measurements.

**Solution**
FlowMotion technology eliminates overlapping bed acquisitions while maintaining uniform noise sensitivity across the entire scan range, enabling quantitative accuracy in all dimensions.

**Benefit**
Therapy monitoring offers patients the ability to make early treatment decisions in order to help reduce the cost of ineffective therapies, which can exceed USD $92,000 annually.
## Minimum Dose and Maximum Speed

**Challenge**  
Scan planning with bed positions is time consuming and may lead to CT over scanning to cover the desired scan range.

**Solution**  
FlowMotion allows easy anatomy-based scan planning where only the desired area is scanned.

**Benefit**  
Five-minute diagnostic PET•CT, with flexible CT-like range planning and low dose features with zero CT overscan, enables physicians to meet the dual mandate for high patient safety and maximum efficiency.

## Open Comfort for All Patients

**Challenge**  
Standard bore sizes limit the amount of patients who can be referred for scanning. Patients sense when a scan is not progressing, which may make the scan seem longer and cause patient motion and anxiety, leading to dissatisfaction.

**Solution**  
Biograph mCT Flow is the first-and-only PET•CT to combine a large 78 cm bore with FlowMotion’s continuous sense of scan progress, offering the ability to accommodate virtually all patients.

**Benefit**  
Wide bore combined with continuous sense of progression accommodates a wider range of patients and improves exam satisfaction.

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1 Biograph mCT Flow and mCT Flow Edge are not commercially available in all countries. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local Siemens organization for further details.
2 Based on volumetric resolution available in competitive literature for systems greater than 70 cm bore size. Data on file.
5 Five-minute scan with TrueV and UltraHD.
6 Patients up to 227 kg (500 lb).