

# C2Dx™ CRITICAL MOMENTS. CRITICAL DECISIONS.

## COMPARTMENT SYNDROME TRUST AND VERIFY



### OBJECTIVE INPUT FOR DATA-DRIVEN DECISIONS

The STIC Intra-Compartmental Pressure Monitor provides quick and continuous measurements, which adds valuable data to your clinical assessment for a prompt and more informed decision.

*“The measurement of intra-compartmental pressure using the Gold Standard is the most reliable test for proper diagnosis.\*”*



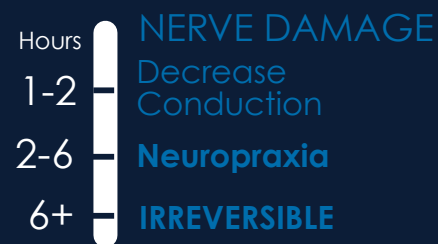
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“The STIC monitor remains my trusted, go-to, tool to measure compartment pressures, guide intervention and optimize outcomes for my patients with leg pain or potential compartment syndrome. It is safe, easy, efficient, dependable

and remains by far the best tool available on the market. Information is key. Why wouldn't I test with a STIC.”

Mark R. Hutchinson MD, FACSM, FAAOS  
Distinguished Professor of Orthopaedics and Sports Medicine  
University of Illinois at Chicago

## THE OUTCOMES FOCUSED ON TIME



### DELAYED TREATMENT

Over 12 hours

**3x** MAJOR AMPUTATION

**3x** MORTALITY

**4+** (hrs) ISCHEMIC INJURY TO MUSCLE/NERVES

**↑46%** INFECTION

### EARLY DETECTION

LENGTH OF STAY

**5.5** ↓ DAYS Overall

**2.4** ↓ DAYS in the ICU

Data based on several clinical studies assessing how time to diagnosis and treatment affects patient outcomes.

### THE STUDY

McQueen et al launched a retrospective study of 1,184 fasciotomy patients to record and analyze the documented use of continuous intra-compartmental pressure monitoring.

### THE RESULTS

**94% SENSITIVITY**  
**98% SPECIFICITY**  
**99% NEGATIVE PREDICTIVE VALUE**

### THE GOLD STANDARD

*“The measurement of intra-compartmental pressure using the gold standard is the most reliable test for proper diagnosis.”*

### A TIMELY DIAGNOSIS IS CRITICAL

Data to support the benefits of testing

Time to diagnosis is one of the most prognostic factors, yet the ambiguity of the clinical signs may lead to delay.

Many clinical exam findings are lagging indicators while pain out of proportion is the only leading indicator. Pain has low sensitivity, is considered subjective and on its own, inconclusive.

The 5Ps (pain, pallor, pulselessness, parasthesias and paralysis)

- Pain is the only reliable early finding
- Individual signs have a low 13 - 54% sensitivity
- Presence of 3+ signs required for 98% sensitivity

Advanced findings show poor recovery times

- Full functionality is rare if muscle weakness is detected
- Only 13% recover any function if paralysis present

McQueen et al recommends pressure measurements in all at risk patients.

- Reduce missed diagnoses and time to fasciotomy
- Critical when findings are absent or hard to ascertain as in obtunded or unconscious patients
- More informed decisions when findings are present
- Objective data within the chart to validate management decisions

### MALPRACTICE, SETTLEMENTS AND JURY AWARDS

Testing can play a vital role in protecting the patient, the hospital and the physician

Compartment syndrome is one of the few true orthopedic emergencies and the consequences can be dire. The malpractice landscape for physicians continues to rise affecting their health and welfare.

## THE COST OF DELAYED OR MISSED DIAGNOSIS

one of the **LEADING CAUSES OF MALPRACTICE CLAIMS** filed against **ORTHOPEDIC SURGEONS** is **MISSED COMPARTMENT SYNDROME**

**87%**

**DELAYS IN DIAGNOSIS**

**TOP REASONS SUITS ARE FILED COMPARTMENT SYNDROME CLAIMS**

**DELAYS IN TREATMENT**

**37%**

**TIME TO RESOLVE CLAIM** AVERAGE **5½ YEARS**

### DECREASE THE RISK OF PLAINTIFF VICTORY

- ⊕ treatment in under 8 hrs
- ⊕ thorough, detailed documentation
- ⊕ clear physician/patient communication
- ⊕ clear physician/physician communication

Compartment Syndrome Plaintiff **WINS 65% OF CLAIMS** vs 25% in all others

**AVERAGE PLAINTIFF AWARD**

**\$1M** | SETTLEMENT  
**\$2M+** | JURY VERDICT

Info based on several closed claims studies discussing indemnity payments and the factors leading to specific case rulings.

“Compartment pressures are a vital adjunct for diagnosis. Measuring has little risk, not measuring can lead to permanent deformity and dysfunction.”

Brit Long, MD, Emergency Medicine Attending Physician  
at San Antonio Uniformed Services Health Education Consortium  
Author, Emergency Physicians Monthly

## STIC Intra-Compartmental Pressure Monitor

- Quick and continuous monitoring options
- Sterile and disposable for a simple, rapid set-up
- Proven accuracy and reliability with strong clinical evidence
- Hand-held with convenient pre-filled syringe for easy transport
- Cost effective with a dedicated CPT code for reimbursement



### Point of care access for device how-to videos

Improper use of the device may cause inaccurate measurements, it is best practice to review the instructions prior to use.

Step-by-step instructions are printed on the back of the device or watch a quick video by scanning the QR Code affixed to the monitor.

The QR code provides direct access to how-to videos, making a timely diagnosis more convenient in the most critical moments.

Quick access to how-to videos



\* Data sources and the full list of references available upon request

Duckworth A.D., Court-Brown C.M., McQueen M.M. (2019) [Pressure Measurement: Surrogate of Ischaemia](#). In: Mauffrey C., Hak D., Martin III M. (eds) *Compartment Syndrome*. Springer, Cham

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Long, Brit, MD, and Michael Gottlieb, MD, RDMS. [The Dreaded Acute Compartment Syndrome](#). EmDOCs.net - Emergency Medicine Education. N.p., 02 Jan. 2019. Web.



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