Lehigh Valley Health Network

LVHN Scholarly Works

Patient Care Services / Nursing

Conference Learnings

Pamela Swoyer BSN, RN, CCRN Lehigh Valley Health Network, Pamela.Swoyer@LVH.COM

Follow this and additional works at: https://scholarlyworks.lvhn.org/patient-care-services-nursing



Let us know how access to this document benefits you

Published In/Presented At

Swoyer, P. (2013, May 20-23). *Conference learnings*. Presented at: The 15th Annual Trauma Symposium: Atlanticare, Atlantic City, NJ.

This Presentation is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact LibraryServices@lvhn.org.

CONFERENCE LEARNINGS

15th Annual Trauma Symposium: Atlanticare
Atlantic City, N.J.
May 20-23, 2013



Pamela Swoyer BSN RN CCRN TNICU

A PASSION FOR BETTER MEDICINE."



LEHIGH VALLEY HEALTH NETWORK

Conference Topics

Multiple Trauma Related Topics were covered including:

- Abdominal Compartment Syndrome
- Updates in Burn Care
- Surgical Emergencies in the Elderly
- Damage Control Resuscitation
- Aquatic Spinal Cord Injuries
- Severe Traumatic Brain Injury
- Advances in Neuro Critical Care Diagnostics

Learning to Consider for LVHN

Advances in Neuro Critical Care Diagnostics

CT Angiography: maps blood vessels using 3-D models. Helpful in diagnosing strokes, aneurysms, and vessel stenosis. Models allows visualization from all sides for aneurysms leading to interventional treatment ie: coiling, as opposed to surgery in some cases.

Learning to Consider for LVHN

 CT Perfusion Angiography: Evaluates qualitative vs. quantitative blood flow.

Blood volume MAP:

- a. Cerebral blood flow (perfusion)
- b. Cerebral blood volume (infarct)
- c. Mean transit time (perfusion

Learning to Consider for LVHN

MR Spectroscopy: uses energy release as a spectrum of chemicals rather than an image. Use creatanine as the standard chemical. Other chemicals are released are compared to creatanine. If "normal" chemicals are increased or decreased, it can be determined if ti is a tumor, necrosis or ischemia.

Cerebral Microdialysis: Uses a small catheter in brain so that dialysate fluid can be instilled, allowed to equilibrate and analyzed. Gives a "real time" view of what is going on. Lactate shows anaerobic metabolism; glutamate shows possible seizure activity; glycerol is a marker of cell breakdown and can indicate necrosis. Glucose decrease can indicate hyperactivity or seizure in the brain; or a decrease in blood flow.

LEHIGH VALLEY HEALTH NETWORK

Group Discussion

ACTION ITEMS



