NURSING CLINICAL STANDARD

EXTERNAL FIXATOR

PURPOSE: To outline the management of patient with external fixators.

SUPPORTIVE

DATA:

External fixation is a versatile method of immobilization that utilizes percutaneous transfixation with pins/wires in bone attached to a rigid external frame allowing a wide range of anatomic correction. It may be used for upper extremity, lower extremity, or pelvic conditions.

ASSESSMENT:

- 1. Assess a minimum of every 8 hours:
 - Neurovascular status of affected extremity
 - Appearance of pin sites
 - Alignment of affected limb
 - Ability to adapt to physical limitation associated with external fixation
 - Stability of external fixator frame
 - Signs/symptoms of infection
 - Pressure points for redness

INFECTION CONTROL:

- 2. Assess for pain a minimum of every 4 hours (every 2 hours ICU)
- 3. Perform percutaneous pin care as ordered.

PATIENT SAFETY:

- 4. Keep siderails up and bed in low position when patient is unattended.
- 5. Ensure call light is within reach.
- 6. Obtain adequate assistance when moving patient. Use appropriate assistive devices (e.g. Hover lift, turning sheet).
- 7. Cushion pressure points with pillows or off -load

PATEINT /FAMILY

TEACHING:

- 8. Teach patient/family:
 - Safety maneuvers to balance self with frame and use of assistive devices
 - How to perform pin care
 - Do not use fixator to reposition patient
 - To inform nurse of increase in pain, numbness, tingling, paresthesia of affected limb.

REPORTABLE CONDITIONS:

- 9. Report the following to the provider:
 - Change in neurovascular status
 - Signs/symptoms of pin site infection (increasing drainage)
 - Malalignment of affected extremity
 - Inability to adapt to physical limitations associated with external fixation
 - Loose pins or frame

ADDITIONAL STANDARDS:

- 10. Refer to the following as indicated:
 - Fall/Injury Prevention
 - High Risk for Peripheral Neurovascular Dysfunction
 - Immobility
 - Pain Management
 - Wound Management
 - Pressure Ulcer Prevention and Management
 - Pin Site (Orthopedic) Care Procedure

DOCUMENTATION:

- 11. Document in accordance with documentation standards.
- 12. Document in iView Systems Assessment Navigator Band under "Orthopedic Device/Immobilizer/Cast", add dynamic group under device: "External fixator"
- 13. Document pin care in iView: Customize view for "Pin Wire Care Information" and add dynamic group

Initial date approved:	Reviewed and approved by:	Revision Date:
03/95	Professional Practice Committee	08/95, 10/00, 03/05, 08/14, 03/15,
	Pharmacy & Therapeutic Committee	06/19
	Nurse Executive Committee	
	Attending Staff Association Executive Committee	

REFERENCES:

Holmes, S. B., Brown, S. J. (2005). Skeletal pin site care: National Association of Orthopaedic Nurses guidelines for orthopaedic nursing. *Orthopaedic Nursing*, *24*(2), 99-107.

Lagerquist, D., Dabrowski, M., Dock, C., Fox, A., Damond, M., Sandau, K. E., & Halm, M. (2012). Care of externalFixator pinsites. *American Journal of Critical Care*, 21, (4), 288-292.