Medical Directive/Delegation of Controlled Acts

Division of Orthopaedic Surgery (Hospital)

| Title: Physician Assistant in Orthopaedic Surgery | Number: |
|---|-------------------------------|
| Activation Date: | Sponsoring/Contact Person(s): |

| Order/Delegation: Hospital Procedures | Appendix Attached: Yes ⊠ No □ |
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| Recipient Patients: | |

Specific conditions or circumstances that must be met before directives can be implemented

- 1. The patient must be a registered patient of *(hospital)*, registered to the Emergency Department or an Outpatient clinic and
- 2. A physician, who has signed as an authorizer of this medical directive is responsible for this patients care, and
- 3. The patient, or appropriate legal guardian, consents to the plan of care and to receiving care from the Physician Assistant.

Contraindications to directive implementation

The medical directive may not be implemented if:

- 1. The patient is not a registered patient of *(hospital)*, registered to the Emergency Department or an Outpatient clinic.
- 2. The patient, or legal guardian for that patient, does not consent to the plan of care, or to receiving treatment from the Physician Assistant, or
- 3. The patient is not under the care of an authorizing physician.

| Authorizea impiementers: | | |
|--------------------------|---|--|
| | | |
| Name: | Title: | |
| | Canadian Certified Physician Assistant (CCPA) | |
| Signature: | CAPA Number: | |
| | | |

Guidelines for Implementing the Order/Delegation:

It is the policy of *(hospital)* to support the use of Medical Directives and/or delegation of controlled acts in accordance with the Regulated Health Professions Act and the regulatory colleges of health professionals. Within this framework the Division will utilize Physician Assistants to provide exemplary clinical care, improve patient safety, enhance the patient experience, provide continuing medical education to future health care workers and support research.

This Medical Directive authorizes the performing of a History, Physical Examination and Clinical Treatment by the Physician Assistant (PA) in the Division of Orthopaedic Surgery. It is incumbent upon the PA to practice within the scope of their training and practice, as well as the training and practice of the attending staff.

The PA working within the Division of Orthopaedic surgery may perform a history, physical assessment and treatment procedures as ordered on the appended Order Tables and Medication Tables, provided that the Physician Assistant has met the education requirements and demonstrated competence.

Documentation and Communication:

Documentation

Treatments that have been implemented and the patient's response to therapy, if applicable, will be documented in the clinical record as per hospital documentation standards.

The following will be documented on the appropriate MD order sheet/section of the clinical record:

- a. The name of the medical directive
- b. The orders given
- c. The name, signature and designation of the Physician Assistant implementing the order The following will be documented in the clinical record:
 - a. The patient assessment,
 - b. The directive implementation,
 - c. Treatments that have been implemented and,
 - d. The patients' response to therapy, if applicable.

Communication Path

The Physician Assistant will contact the authorizing physician if clarification of any aspect of the medial directive is required. The MRP responsible for the patient will be notified of the completion of treatments and the patient's response to treatment. Any untoward events resulting from this medical directive will be relayed to the authorizing physician as soon as reasonably possible.

This medical directive will be communicated to:

- 1. All Orthopaedic Surgery Division medical staff, full and part time status
- 2. All Emergency Department and Critical Care Unit medical staff, full and part time status
- 3. All Emergency Department and Critical Care Unit nursing staff, full and part time status
- 4. All Nursing staff on (unit location), full and part time status
- 5. All operating room staff on (unit location)
- 6. All orthopaedic staff in (unit location), full and part time status
- 7. Members of the (unit location)
- 8. The Department of Diagnostic Imaging
- 9. The Department of Laboratory Medicine
- 10. Health Data Resources
- 11. Pharmacy
- 12. Occupational Therapy

| Review and Quality Monitoring Guidelines: | Appendix Attached: Yes ⊠ No □ Title: Appendix D |
|--|---|
| 14. Social Work 15. Speech Language Pathology | |
| 13. Physical Therapy | |
| | |

Procedure Log

All PAs must complete the procedure log prior to performing the procedures independently, at the discretion of the attending orthopaedic staff. During the first three months of practice, the PA is expected to perform all procedures under supervision.

| Administrative Approvals (as applicable): | | | |
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| Signature: | | | |
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| Approving Physicians/Authorizers: | | | | |
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| Authorizing Physicians with Signature | | | | |
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Appendix A:

Medical Directives of Physician Assistant in Orthopaedic Surgery: Hospital Procedures

According to the Regulated Health Professions Act, members of a health profession have the authority to accept an order or delegation to a controlled act(s) and that are deemed appropriate by their regulatory college from a health care provider who is authorized to perform the controlled act(s).

This medical directive provides authority both for (i) physician assistants (PAs) to accept an order or delegation to a controlled act(s) from a physician within their level of competence and (ii) nurses to accept an order as outlined in this medical directive from a physician. When nurses accept an order under this medical directive, they are not directly accepting the order from the PA but are carrying out the physician's order set out in this medical directive based on their own assessment of (i) the appropriateness of carrying out the task/treatment and (ii) whether the task/treatment is within their scope of practice and level of competence. This order may be relayed to the nurse by the PA.

Group 1 activities are those that the PA may perform either prior to or after discussion with the MRP/clinical fellow/senior resident.

Group 2 activities are those that the PA must discuss with the MRP/clinical fellow/senior resident prior to performing.

All PAs in their probationary 3 month period are required to discuss all Group 1 activities with the MRP/clinical fellow/resident team.

Please note that for all radiologic tests, the MRP must be specified when ordering the test so that Medical Imaging has an MRP of record to contact for urgent findings.

| Procedure | Group 1 | Group 2 | Indications | Contraindications |
|--|---|---|--|--|
| 1) Acute, Non- Traumatic Chest Pain | The PA may implement an order for, or perform, venipuncture for all or some of the following: - CBC, diff, glucose, electrolytes, urea, creatinine, CK, VBGs, D-Dimer, Troponin, PT/ INR, digoxin level if on such medication. The PA may implement an order for, or administer, supplemental oxygen. The PA may implement an order for, or perform, 12 Lead EKG. The PA may implement an order for CXR | The PA may implement an order for ABGs following discussions with the MRP. The PA may implement an order for obtaining CT-PA following discussions with the MRP. | For Supplemental Oxygen: If O ₂ Sat less than 94% R/A, HR is greater than 120 bpm or the patient exhibits: palpitations, chest pain, shortness of breath, lightheadedness, dizziness, syncope, or diaphoresis then 100% O ₂ via non rebreather mask. For CXR: Patients presenting with Dyspnea and other symptoms consistent with pneumonia, pneumothorax, PE, foreign body inhalation or have a known pulmonary disease For CT PA: Patients presenting with dyspnea with a high index of suspicion for PE | For CXR: Known or suspected pregnancy For CT PA: Poor renal function Allergy to contrast Known or suspected pregnancy |
| 2) Admission Orders | | The PA may implement and perform admission orders following discussion with MRP. | Following discussion with MRP. | |
| 3) Advanced diagnostic imaging: CT Scan, Ultrasound, | The PA may implement an order for CT scan to investigate significant | The PA may implement an order for advanced diagnostic imaging and interventional | As per clinical demands +/- MRP approval as outlined As per Interdepartmental | Known or suspected pregnancy if a CT is contemplated. |

| and MRI, | musculoskeletal injury in | radiology after discussion with | Agreement | |
|----------------|--|--|---|--|
| Interventional | an acute, traumatic | the MRP if it is in compliance | On the Emergency Frequent | Known or suspected |
| radiology | setting. | with the Interdepartmental Agreement with Diagnostic Imaging in a non-acute setting. | Request Roster of EDIS | renal failure if injected dye is part of the protocol. |
| | | | | Allergy to contrast material. |
| | | | | MRI contraindications per the Department of Diagnostic imaging published list as written on the MRI requisition. |
| 4) Bracing | The PA may apply and | | Immobilize a fracture or | Patient refusal. Patient refusal. |
| | remove a brace on a patient when clinically indicated. | | unstable joint | |
| 5) Casting | The PA may apply and remove a fiberglass or plaster cast on a patient when clinically indicated. | | Immobilize a fracture or unstable joint | Patient refusal. |
| 6) CCAC | The PA may implement orders for initiation and re-initiation of CCAC services via RM&R. Including but not limited to PSW, OT/PT, Stoma, Wound Care, Nursing, IV Abx, prior to discussion with MRP. | | Where appropriate indications for each exist. | |
| 7) Chest Tubes | | The PA may write orders | For Removal: | |

| | | regarding chest tube management. Additionally, following discussion with the MRP or consulting service and obtaining patient consent the PA may remove chest tubes. | As per MRP/consulting service. | |
|-----------------------------------|---|---|---|---|
| 8) Closed Reduction | The PA may assist in performing a closed reduction of a displaced fracture, dislocation or deformity. | The PA may perform a closed reduction of a displaced fracture or dislocation after discussions with the MRP. | Fractures that are displaced, shortened, angulated or unstable. | Undisplaced fractures, displaced fractures not affecting function, fractures where open reduction is indicated (e.g. severe comminution), a reduction that cannot be maintained or fractures produced by traction forces. |
| 9) Compartment Pressure Checks | The PA may assist in compartment pressure checks using the Stryker compartment pressure monitor. | The PA may perform compartment pressure checks using the Stryker compartment pressure monitor following discussions with the MRP. | Patients with a high clinical suspicion for compartment syndrome. As above plus: Patients who are unresponsive Patients who are uncooperative (e.g. developmentally delayed, or intoxicated patients) Patients with peripheral nerve deficits attributable to other causes (e.g. tibial fracture with peroneal nerve | Application of monitor on areas with overlying cellulitis (relative contraindication) |

| | | | injury) | |
|---------------------------------------|--|--|---|--|
| 10) Consultations | The PA may implement an order for consultations for inpatient and outpatient services. Including but not limited to: medicine, geriatrics, palliative care, medical oncology, radiation oncology, radiology (including interventional), wound care, stoma nurse, APS, psychiatry, gastroenterology. | The PA may implement and perform orders suggested by consulting specialties after discussion with MRP. | As indicated for each specialty. | |
| 11) Diabetes or Suspected Diabetes | The PA implement an order for, or perform, venipuncture for all or some of the following blood tests and/or urine tests prior to discussing the patient's case with their respective Most Responsible Physician: - CBC, diff, glucose, electrolytes, urea, creatinine, lactate, ketones Blood culture x 2 if febrile - Urine R&M and C&S PAs may implement an order for CXR | | Adult patient with established or suspect new onset diabetes For Portable CXR: Patients presenting with disease or complications suspected to be of diabetic origin | Patient refusal For Portable CXR: Known or suspected pregnancy |
| 12) Diet | The PA may implement | | Where appropriate | |

| | orders for diet including but not limited to: NPO, clear fluids, full fluids, low residue, soft diet and diet as tolerated. | | indications for each exist. | |
|-----------------------------|---|---|---|---|
| 13) Digital Nerve Blocks | The PA may assist in the application of a Digital Web Space, Transthecal or Wrist Nerve Block. | The PA may perform the application of a Digital Web Space, Transthecal or Wrist Nerve Block following discussions with the MRP. | Lacerations beyond the mid- proximal phalanx, nail bed injuries, foreign bodies in the digit, finger fractures and finger and/or nail bed infection. | Infection of the tissues through which the needle will pass, compromised blood supply and an allergy to the anaesthetic. Epinephrine should not be used for digital nerve blocks, especially in patients at risk for digit infarction or ischemia (peripheral vascular disease or diabetes mellitus) |
| 14) Discharge | | The PA may implement and perform discharge orders. Including but not limited to: discharge summaries and electronically signing off, leave of absence letters and prescriptions in association with MRP, following discussion with MRP. | Following discussion with MRP. | |
| 15) Dyspnea | The PA may implement an order for, or perform, all or some of the following blood tests and X rays prior to discussing the | | Patient with entrance complaint of subjective or objective dyspnea | Patient refusal or under the age of 18 years For Portable CXR: |

| patient's case we respective Most Responsible Physical Control | sician: tes, urea, tose, in (if female), sis. lement an form, 12 lement an form tess with te a rate of the lock. tess if BP less teater than testural than 20 s than and/or th clinical then tis tts should | For Portable CXR: Patients presenting with dyspnea of unknown, suspected pulmonary origin, or known cardiac disease Guidelines: 12 Lead ECG to be presented immediately to Most Responsible Physician for review if suggestive of arrhythmia, ischemia of any type, or if patient is symptomatic with abnormal vital signs For Supplemental Oxygen: If O ₂ Sat less than 92% R/A, HR is greater than 120 bpm or the patient exhibits: palpitations, chest pain, lightheadedness, dizziness, syncope, or diaphoresis then O2 via an appropriate delivery mechanism. If O ₂ Sat less than 90% R/A then adjust Fi O ₂ to maintain O ₂ greater than 92%. | Known or suspected pregnancy |
|--|---|--|------------------------------|
|--|---|--|------------------------------|

| | to the MRP | | | |
|---------------------------|------------------------------|--|------------------------------|----------------------|
| 16)Electromyography | | The PA may order and | To aid in the diagnosis of | Severe coagulopathy, |
| and Nerve | | interpret needle | peripheral nerve and muscle | blood dyscrasia, |
| Conduction Studies | | electromyography and nerve | pathology, including but not | implanted cardiac |
| | | conduction studies following | limited to peripheral | defibrillator. |
| | | discussions with the MRP | neuropathy, entrapment | |
| | | | neuropathy, radiculopathy | |
| | | | and muscle disorders. | |
| | | | | |
| | | | | |
| 17) Emergency | The PA may implement | The PA may implement the | As per individual Medical | |
| Department Consults | the following medical | following the following | Directives outlined in this | |
| | directives in the setting of | medical directives in the | document | |
| | consults in the Emergency | setting of consults in the | | |
| | Department. | Emergency Department | | |
| | - Ordering and performing | following discussions with the | | |
| | the drawing of blood | MRP. | | |
| | - Ordering x-rays | - Performing the aspiration of | | |
| | - Ordering and | joint fluid | | |
| | administering tetanus | - Assist in the reduction of a | | |
| | - Ordering and | displaced or | | |
| | administering antibiotics | dislocated/subluxed fracture | | |
| | (cephalosporins, | or joint | | |
| | aminoglycosides, | - Ordering CT scans and MRI | | |
| | penicillins, macrolides, | scans | | |
| | sulpha combinations, | - Discharging a patient whom | | |
| | tetracyclines and other | responsible care has been | | |
| | unclassified antibiotics) | transferred to the orthopaedic service | | |
| 18) Foley Catheter | The PA may implement or | Service | For Insertion | For Insertion: |
| 10) I oley callielei | perform an order for the | | Pre-operatively | Urethral Trauma |
| | insertion and removal of a | | Accurate Ins and Outs | Pelvic Fractures |
| | foley catheter prior to | | Difficulty voiding | 1 Civic i lactares |
| | discussion with MRP. | | For Removal | For Removal: |
| | discussion with MIRE. | | I OI NEIIIOVAI | I OI NEIIIOVAI. |

| 19) Hospital Ward | The PA may implement | The PA may implement the | When the indications for insertion no longer exist. As per individual Medical | Epidural Subsequent pelvic surgery. |
|------------------------------------|---|--|---|--|
| Consults | the following medical directives in the setting of consults in the hospital inpatient ward. Ordering and performing the drawing of blood Ordering x-rays Ordering and administrating therapeutic medication as outlined in Appendix C. | following the following medical directives in the setting of consults in the hospital inpatient ward following discussions with the MRP. - Performing the aspiration of joint fluid - Assist in the reduction of a displaced or dislocated/subluxed fracture or joint - Ordering CT scans and MRI scans | Directives outlined in this document | |
| 20) Incision and Drainage | | The PA may implement and perform an order for incision and drainage after discussion with MRP. | Fluctuant and/or purulent abscess. | Anatomical challenges Patient refusal. |
| 21) Joint Aspiration and Injection | | The PA may perform a joint aspiration and/or joint injection after discussion with MRP. | For Aspiration: High clinical index of suspicion for septic joint. For Injection: As part of a patient's treatment plan for osteoarthritis, gouty arthritis, and other inflammatory joint pathology. | For Aspiration: Patient refusal. For Injection: Active infection (e.g. cellulitis, Tuberculosis) Patient refusal Bleeding dyscrasias, Charcot joint, Joint prosthesis (relative contraindication) |

| 22) JP Drain | | The PA may implement an order for the removal of a JP drain after discussion with MRP and/or consulting services. | As per MRP and/or consulting services. | |
|---|--|--|--|---|
| 23) MOHLTC Provincial Medical Directive for the use of Tamiflu during an Influenza Outbreak | The PA may implement the MOHLTC Provincial Directives for Prescribing Tamiflu | | As per MOHLTC Directive | Known or suspected pregnancy Patient refusal. |
| 24) NG Tubes | The PA may order an X-ray following insertion to ensure appropriate placement and auscultation of stomach with air flush. | The PA may implement an order for the insertion and removal of an NG tube after discussion with MRP. | Insertion Indications: Administration of medications Removal When indications for placement no longer exist. | Insertion: Severe facial trauma Esophageal Stricture Total gastrectomy Esophageal surgery |
| 25) Outpatient Clinic Prescriptions | The PA may write a prescription for physical therapy, massage therapy, joint bracing, orthotics or orthosis in an outpatient clinic setting. | The PA may write a prescription for non-opioid analgesics (Acetaminophen, NSAIDs), non-benzodiazepine muscle relaxants and neuropathic pain medication following discussions with the MRP. | For Group 1: Patient clinically appropriate for mobilization or rehabilitation. Patient requiring the use of bracing, orthotics or orthosis for return to function. For Group 2 For the management of acute nociceptive (somatic, visceral) and/or neuropathic pain. | For Group 2: Patients with known history of gastric, kidney or liver disease (relative contraindication). |

| 26) PICC lines | | The PA may implement an order for the insertion and removal of a PICC line following discussion with MRP. | Insertion TPN, bloodwork, following discussion with MRP Removal When indications for insertion are no longer valid. Following discussion with MRP | Insertion Skin infection at site, known central vascular occlusions, dialysis fistula, ipsilateral radical mastectomy and lymphedema, sepsis, bleeding disorder |
|-------------------|---|---|--|---|
| 27) Rehab and LTC | The PA may implement orders for initiation and re-initiation via RM&R for rehab and LTC prior to discussion with MRP. | | When appropriate indications for each exist, following discussion with interdisciplinary specialties and families where applicable. | |
| 28) Sepsis | In the event that a patient is suffering from known or suspected sepsis, the PA may implement an order for, or perform all or some of the following: - CBC, electrolytes, BUN/Cr, Arterial Blood Gases, glucose, INR and PTT, Blood cultures x 2, urine analysis and C&S, wound cultures. The PA may implement an order for a CXR. The PA may implement an order or perform 12-lead ECG | Following discussion with the MRP, the PA may order an ultrasound, CT, or drainage procedure for further evaluation and management of the sepsis. | Fever Unwell patient | Patient refusal |

| | The PA may implement an order for or perform intravenous access with Normal Saline at a rate of 75-150 mL/h or Saline lock. Large bore access if BP less than 90 or HR greater than 100 mmHg or postural change greater than 20 mmHg | | | |
|-------------------------------|--|--|---|--|
| 29) Splinting | The PA may apply and remove a fiberglass or plaster splint on a patient when clinically indicated. | | Immobilize a fracture or unstable joint | Patient refusal. |
| 30) Suturing above the fascia | | The PA may perform a procedure below the dermis, including probing, cleansing, removal of a foreign body and suturing of the wound. Order and administer the following local anaesthetic agents: - Lidocaine Plain 1% or 2% solution - Bupivacaine 0.25% or 0.5% solution - Lidocaine with epinephrine 1% or 2% solution Order and administer the following topical anaesthetic | Wound requiring primary closure | Allergy or sensitivity to local anaesthetic agents L.E.T. and lidocaine with epinephrine is contraindicated in/on the following: mucous membranes, digits, nose, ear, penis and burns |

| | | 1 . | | |
|-------------------|--------------------------|-----------------------------------|---|--------------------------------------|
| | | agents: - L.E.T. (lidocaine 4.3%, | | |
| | | epinephrine 0.05%and | | |
| | | tetracaine 0.5%) | | |
| 31) Traction | The PA may apply skin | The PA may assist in the | For fractures, dislocations | Skin traction that |
| | traction to the patient | application of the following to | and/or instability that cannot | requires greater than 10 |
| | with fractures and | the patient following | be treated by means of | lbs. of sustained force |
| | dislocations. | discussions with the MRP. | casting. | may not be applied due |
| | | - Thomas Splint | | to increased risk of skin |
| | The PA may assess a halo | - Pelvic Binder | | disruption and irritation. |
| | traction device for | - Halo Traction Device | | |
| | maintenance. | | | |
| 32) VAC and Wound | The PA may implement | The PA may implement and | For Simple Wound Dressing | For Simple Wound |
| Dressing | and perform an order for | perform an order for the | Sterile management of an | Dressing: |
| | simple wound dressing | application and removal of | active wound site. | Visible bowel |
| | application and changes. | negative pressure wound | | |
| | | therapy (VAC) following | For Negative Pressure | For Negative Pressure |
| | | discussion with MRP or | Wound Therapy | Wound Therapy: |
| | | consult service | Post-operative and dehisced surgical wounds | Malignancy in the wound |
| | | | | Untreated osteomyelitis |
| | | | Pressure ulcers | |
| | | | | Non-enteric and |
| | | | Diabetic/neuropathic ulcers | unexplored fistulas |
| | | | Traumatic wounds | Necrotic tissue with eschar present. |
| | | | Skin flaps and grafts | · |
| | | | Venous insufficiency ulcers | |
| | | | Explored fistulae | |
| 33) Wound | | The PA may implement and | Necrotic tissue | Visible bowel |
| Debridement | | perform an order for wound | | |

| | debridement after discussion with MRP. | | |
|-------------------|--|-------------------------------------|---------------|
| 34) Wound Packing | The PA may implement and perform an order for wound | Purulent discharge from wound site. | Visible bowel |
| | packing after discussion with MRP. | As per MRP | |
| 35) Other | Procedures and orders not discussed above may be carried out by the PA | | |
| | following discussion with, and at the discretion of, the MRP | | |

Appendix B:

Medical Directives of Physician Assistant in Orthopaedic Surgery: Operating Room

It is the policy of (hospital) to support the use of medical directives and/or delegation of controlled acts in accordance with the Regulated Health Professions Act and the regulatory colleges of health professionals. Within this framework the Division will utilize Physician Assistants to provide exemplary clinical care, improve patient safety, enhance the patient experience, provide continuing medical education to future health care workers and support research.

According to the *Regulated Health Professions Act*, members of a health profession have the authority to accept an order or delegation to a controlled act(s) and that are deemed appropriate by their regulatory college from a health care provider who is authorized to perform the controlled act(s).

This Medical Directive authorizes the performing of specific duties and procedures in the operating room by the Physician Assistant (PA). It is incumbent upon the PA to practice within the scope of their training and practice, as well as the training and practice of the attending staff.

The PA, working within the Operating Room may perform procedures as ordered on the appended Order Tables, provided that the Physician Assistant has met the education requirements and demonstrated competence.

| Procedure | Group 1 | Group 2 | Indications / Contraindications | Competency Verification |
|--|--|---|---|---|
| 1. Importing/loading of digital imaging | The PA may implement an order for importing/loading of digital imaging for surgical navigation prior to discussion with MRP. | | Indications: Patient confirmed to undergo surgical procedure Contraindications: Patient not confirmed to undergo surgical procedure. | |
| 2. Marking and confirming of a surgical site | | The PA may implement an order for confirming and marking a surgical site after discussion with MRP. | Indications: Patient confirmed to undergo surgical procedure Contraindications: Patient not confirmed to undergo surgical procedure. Patient allergy to marking materials. Patient refusal. | Marking must be verified and confirmed by MRP or fellow. |
| 3. Positioning of the patient | The PA may position a patient in the operating room prior to discussion with MRP if discussion regarding positioning occurred previously for the same operative procedure. | The PA may implement an order for positioning of a patient in the operating room after discussion with MRP. | Indications: Patient confirmed to undergo surgical procedure. Contraindications: Patient not confirmed to undergo surgical procedure. Positioning may exacerbate pre-existing patient injury. Patient refusal. | Positioning for each surgical procedure must be verified three times by an attending staff surgeon, fellow or senior surgical resident. |
| 4. Conducting the surgical brief | | The PA may conduct a surgical | Indications: Patient confirmed to undergo | Surgical brief must be verified three times by an |

| | | brief after discussion with MRP. | specific surgical procedure. Contraindications: Patient not confirmed to undergo surgical procedure. Patient deemed not fit for surgery as per anaesthesia. Patient refusal. | attending staff surgeon, fellow or senior surgical resident. |
|---|--|---|--|---|
| 5. Conducting the surgical timeout | The PA may implement an order to conduct the surgical timeout prior to discussion with MRP. | | Indications: Patient confirmed to undergo surgical procedure. Contraindications: Patient not confirmed to undergo surgical procedure. Patient deemed not fit for surgery as per anaesthesia. Patient refusal. | Surgical timeout must be verified three times by staff attending surgeon, fellow or senior surgical resident. |
| 6. Sterile Surgical Prepping | The PA may implement an order to conduct surgical sterile prepping prior to discussion with MRP. | | Indications: Patient confirmed to undergo surgical procedure. Induction / intubation completed. Contraindications: Patient not confirmed to undergo surgical procedure. Patient deemed not fit for surgery as per anaesthesia. Patient refusal. | The PA must complete and show proof of completion of the appropriate corresponding LMS module for "Skin Prepping Protocols" |
| 7. Sterile scrubbing, gowning and gloving | | The PA may perform scrubbing, and gloving following | Indications: The PA instructed by MRP to scrub into OR. | The PA must complete sterile scrubbing, gowning and gloving session provided by |

| | | instruction to scrub by MRP, fellow or senior surgical resident. | Contraindications: PA not instructed by MRP to scrub into OR. | Medical Education. |
|--------------------------------------|---|--|--|--|
| 8. Draping a patient | The PA may perform draping of a patient prior to discussion with MRP. | | Indications: Patient confirmed to undergo surgical procedure. Induction / intubation completed. Contraindications: Patient not confirmed to undergo surgical procedure. Induction/intubation not completed. | Draping technique must be verified three times by a staff attending surgeon, fellow or a senior surgical resident. |
| 9. Assisting with surgical procedure | | The PA may implement orders for assisting with a surgical procedure as per ongoing discussions (preoperative or intraoperative) with MRP | Indications: As instructed by MRP. Senior surgical resident, fellow or staff attending surgeon must be in attendance in the OR suite. Contraindications: Not instructed by MRP. | Verification is based on each attending staff surgeon/fellow/senior surgical resident – PA relationship |
| 10. Using Electrocautery | | The PA may implement orders for using cautery intra-operatively after discussion with MRP. | Indications: Hemostasis must be achieved. Superficial tissue destruction / dissection. Contraindications: Not instructed by MRP. | Verification of use of electrocautery is based on staff attending surgeon/ fellow/senior surgical resident – PA relationship. |

| | | | Considerations: Patients with permanent pacemaker or ICD may require interrogation in the pacemaker clinic pre and post exposure to electrocautery. | |
|--|--|--|--|--|
| 11. Camera Operation | The PA may implement orders for operating a camera intra-operatively prior to discussion with MRP. | | Indications: Surgical procedure requires use of camera (eg. Laparoscopy). Contraindications: Surgical procedure does not require use of camera. | Operation of camera must be verified three times by staff attending surgeon, fellow or senior surgical resident. |
| 12. Application or removal of extremity traction/splints | | The PA may implement orders for the application or removal of extremity traction/splints following discussion with the MRP | Indications: Application – For fractures, dislocations and/or instability that cannot be treated by means of casting. Removal – When extremity traction/splint no longer indicated. Contraindications: Surgeon preference. | Procedure must be verified by staff attending surgeon, fellow or senior surgical resident. |
| 13. Application/removal of external fixator frame/pin | | The PA may implement orders for the application or removal of | Indications: Application – For the skeletal stabilization of open/closed fractures with severe soft-tissue | Procedure must be verified by staff attending surgeon, fellow or senior surgical resident. |

| | | external fixator frame/pin following discussion with the MRP | compromise, limb shortening or when internal fixation not indicated at that time. Removal – When external fixator frame/pin no longer indicated. Contraindications: Surgeon preference. | |
|---|---|--|---|--|
| 14. Intraoperative compartment pressure measurement | | The PA may implement orders for the intraoperative measurement of compartment pressure following discussion with the MRP | Indications: Assessment of compartment pressures for the evaluation and documentation of possible compartment syndrome. Contraindications: Relative contraindication on areas with overlying cellulitis. | Compartment pressure measurements must be verified by staff attending surgeon, fellow or senior surgical resident. |
| 15. Skin closure with staples. | The PA may implement orders for skin closure with staples prior to discussion with MRP. | | Indications: Linear incisions requiring primary closure with good edges for approximation. Contraindications: Cellulitis or suspected infection. Severely contaminated wounds. Fascia not intact. Patient allergy. | Skin closure with staples must be verified three times by staff attending surgeon, fellow or senior surgical resident. |
| 16. Skin closure with glue | | The PA may implement orders for skin closure with glue after | Indications: Small linear incisions requiring primary closure with good edges | Skin closure with glue must be verified three times by staff attending |

| | | discussion with MRP. | for approximation. Incisions under low tensions. Surgeon preference. Contraindications: Cellulitis or suspected infection. Severely contaminated wounds. Jagged or stellate incisions. High moisture areas (eg. axillae/perineum/hands/feet) Fascia not intact. Patient allergy. Surgeon preference. | surgeon, fellow or senior surgical resident. |
|------------------------------------|---|----------------------|--|--|
| 17. Skin closure with steri-strips | The PA may implement orders for skin closure with steristrips prior to discussion with MRP. | | Indications: Incisions requiring primary closure under low tension. Can also be used as an adjunct to suture or staple closures in high-tension wounds, May be used as reinforcement for wounds after early suture or staple removal. Surgeon preference. Contraindications: Cellulitis or suspected infection. Severely contaminated wounds. Jagged or stellate incisions. Areas of high tension or repetitive motion. High moisture areas (eg. axillae/perineum/hands/feet) Fascia not intact. Patient allergy. Surgeon preference. | Skin closure with steristrips must be verified three times by staff attending surgeon, fellow or senior surgical resident. |

| 18. Suturing above the fascia | | The PA may implement an order for suturing above the fascia after discussion with the MRP. The PA may perform a procedure below the dermis, including probing, cleansing, removal of a foreign body, and suturing of a wound or incision | Indications: Incision requiring primary closure. Securing drains. Stoma creations. Contraindications: Cellulitis or suspected infection. Fascia not intact. | Suturing above the fascia must be verified three times by an attending staff surgeon, fellow or senior surgical resident. Completion of a CME suturing course is an asset. |
|--|--|---|--|---|
| 19. Incising above the fascia | | The PA may implement an order for incising above the fascia after discussion with the MRP. | Indications: Incision for a surgical procedure. Contraindications: Prosthesis (expander or Implant) immediately under skin or poor soft tissue coverage. Fascia not intact. | Incising above the fascia in the operating room must be verified three times by an attending staff surgeon, fellow or senior surgical resident. |
| 20. Applying post- operative dressing | The PA may implement an order for applying post-operative dressing prior to discussion with MRP. | | Indications: Surgical incision requiring post- operative dressing. Contraindications: | Applying post-operative dressing must be verified three times by an attending staff surgeon, fellow or senior surgical |

| | | | Surgeon preference. | resident. |
|--|--|---|---|--|
| 21. Application of post-operative negative pressure wound therapy dressing | | The PA may implement an order for applying post-operative negative pressure wound therapy (VAC) dressing following discussion with MRP. | Indications: Risk reduction of post-operative wound infection, seroma formation and wound dehiscence. Contraindications: Malignancy in the wound. Untreated osteomyelitis. Non-enteric and unexplored fistulas. Necrotic tissue with eschar present. | Applying post-operative negative pressure wound therapy must be verified three times by an attending staff surgeon, fellow or senior surgical resident. |
| 22. Application of post-operative splints/orthoses | | The PA may implement an order for applying post-operative splints/orthoses following discussion with MRP. | Indications: To immobilize a bone or joint. Contraindications: Surgeon preference. | Applying post-operative splints/orthoses must be verified by an attending staff surgeon, fellow or senior surgical resident. |
| 23. Escorting patient to the post-operative area and giving signover | The PA may escort patients to the post-operative area and give sign-over to the appropriate teams. | | Indications: Following completion of surgical procedure, anaesthesia confirmation and bed availability. Contraindications: Anaesthesia team has not given approval to proceed to recovery. Bed is unavailable. | Escorting patient to the post-operative area and giving sign-over must be verified three times by attending staff surgeon, fellow or senior surgical resident. |

Appendix C:

Medical Directives of Physician Assistant in Orthopaedic Surgery: Medications

According to the *Regulated Health Professions Act*, members of a health profession have the authority to accept an order or delegation to a controlled act(s) and that are deemed appropriate by their regulatory college from a health care provider who is authorized to perform the controlled act(s).

This medical directive provides authority both for (i) physician assistants (PAs) to accept an order or delegation to a controlled act(s) from a physician within their level of competence and (ii) nurses and allied health professionals to accept an order as outlined in this medical directive from a physician. When nurses or allied health professionals accept an order under this medical directive, they are not directly accepting the order from the PA but are carrying out the physician's order set out in this medical directive based on their own assessment of (i) the appropriateness of carrying out the task/treatment and (ii) whether the task/treatment is within their scope of practice and level of competence. This order may be relayed to the nurse or allied health professional by the PA.

To implement these directives the Physician Assistant must complete the requirements of Section No 1 and be in compliance with all hospital and departmental policies. The most responsible physician must be a signatory of these directives.

Group 1 medications may be initiated either before or after discussion with the most responsible physician at the professional judgment of the Physician Assistant. All cases must be discussed with the Attending Physician while the patient is in hospital.

Group 2 medications must routinely be discussed with the most responsible physician prior to initiation. There are limited exceptions when a group 2 drug becomes Group 1 if the safety of the patient is jeopardized by any delay (see medications list).

Renal dosing: The notation "(RF)" after a Group 1 drug requires that the PA consider dosage adjustment. The PA can consult an online database for Drug Dosing in Renal Impairment (link) before initiating therapy. In dialysis patients, all medications must be discussed with the most responsible physician prior to initiation (i.e., the drugs assume Group 2 status).

For all new graduate Physician Assistants still on probation and all Physician Assistant trainees all medications are classified Group 2.

The medication history, potential for drug allergy, prior use of analgesics and antimicrobials, and the possibility of pregnancy must be explored prior to implementing this directive.

| Therapeutic Indication or Therapeutic Drug Class | MEDICATIONS & DOSAGE RANGES (RF) = consider renal dosage adjustment | | |
|--|--|--|--|
| • | | | |
| PA, there must be a mandatory review by the Program Co-Directors (Medical Director and Patient Care Manager) to investigate the circumstances from an operational and systems perspective. | | | |

2) Analgesics / Antipyretics

After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order for alleviating pain or fever.

The PA cannot prescribe narcotics as per Federal Law.

Group 1

Acetaminophen

Up to 1000 mg PO/PR Q6-8H/PRN

*Not to exceed 4g/day

Diclofenac (Voltaren®, Solaraze®)

1% top. 2 g (upper extremities)/4 g (lower extremities) q6hr

* Not to exceed 8 g/day to any single joint of upper extremities; 16 g/day to any single joint of lower extremities

3% top. 0.5 g BID

Diclofenac (Pennsaid®)

1.5% (16.05mg/mL; dropper bottle) Apply 40 gtt on each painful knee QID

2% (20mg/pump actuation) Apply 40 mg (2 pump actuations) on each painful knee BID

Group 2

ASA

325-650 mg PO or 650 mg PR Q4-6H PRN

To be held for 5 days prior to surgical intervention unless otherwise specified or indicated by MRP

Ibuprofen

200-400 mg PO Q4-6H or PRN

*Contraindicated in Kidney Failure

*Relative contraindication during post-operative

Celocoxib (Celebrex®)

200-400mg PO Q12-24H PRN

*Contraindicated in Kidney Failure

*Relative contraindication during post-operative period and risk of leaks

Naproxen

250-500 mg PO Q8-12H or PRN (usual max 1,000 mg per day)

*Relative contraindications during post-operative period and risk of leaks

Pain only: Indomethacin

Up to 50 mg PO Q6H

Ketorolac (RF)

Up to 30 mg IV Q6H or PRN (max 120 mg/day)

| 3) Anticoagulation After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order anticoagulation. | Group 1 DVT Prophylaxis: Enoxaparin (RF) 40 mg SC daily or 40 mg SC BID (patients >100kg) | Group 2 Therapeutic anticoagulation: Apixaban Dabigatran Enoxaparin (therapeutic dose) Heparin (therapeutic dose) Rivaroxaban Warfarin |
|---|---|---|
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order for an infectious disease. | Antibiotics: Group 1: Amoxicillin 500 mg PO Q8H Ampicillin (RF) 1-2 g IV Q4-6H Amoxicillin-clavulanate (Clavulin®) 500 mg PO Q8-12H or 875 mg Q12H Cefazolin (RF) 1 g IV Q8H 2 g IV once daily for outpatient treatment (with probenecid) Metronidazole 500 mg PO Q8-12H or 500 mg IV Q12H Clindamycin 150-450 mg PO Q6H 600-900 mg IV Q8H | Group 2 Ceftriaxone 1 g IV once daily Up to 2 g Q12H for meningitis, endocarditis, osteomyelitis Ciprofloxacin (RF) 500-750 mg PO Q12H 400 mg IV Q12H Clarithromycin 250-500 mg PO Q12H Cloxacillin 500-1,000 mg PO Q4-6H 1-2 g IV Q4-6H Co-trimoxazole (RF) Trimethoprim/Sulfamethoxazole (TMP/SMX): 2 tabs PO or 10 mL IV Q12H Levofloxacin (RF) |

| | | 750 mg PO/IV once daily |
|---|--|--|
| | Adjuncts: | Nitrofurantoin (RF) |
| | Group 1 | 50-100 mg PO up to QID |
| | Probenecid 1 g / PO once prior to IV dose of cefazolin or ceftriaxone Tobramycin Gentamicin | Adjuncts: Group 2 Piperacillin-tazobactam Vancomycin Antivirals: Acyclovir Famciclovir Oseltamivir Valacyclovir Antifungals: Nystatin Fluconazole |
| 5) Antinauseants / | Group 1 | Group 2 |
| Antiemetics After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order for nausea. | Dimenhydrinate (Gravol®) 25-50 mg PO Q4-6H PRN 50-100 mg PR Q4-6H PRN 12.5 to 50 mg IV Q4-6H PRN Ondansetron 4 mg PO/IV Q6H PRN | *Prochlorperazine *Metoclopramide (RF) 10 mg PO/IV QID or Q4-6H PRN *Contraindicated in immediate post-op period |

| 6) Blood Products | | Group 2 |
|---|--|--|
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may write the order 'as per Dr' (most responsible physician). Prior to initiation, the order must be discussed with the most responsible physician. The PA must have successfully completed the current prescribed course provided by the (hospital) Blood Bank. | | All blood product(s) Indications: 1. Discussion with and approval by MRP. 2. Must fall within the published (hospital) guidelines as documented on the intranet. 3. Must have documented and a signed order on the patient record to hospital standards. 4. Unless circumstances do not permit the patient must have read, or had an opportunity to read, the hospital information package for transfusion patients Contraindications: 1. Known prior adverse reaction to blood products of any nature or known antibody issue. 2. Failure to achieve any of the above 4 indications. It is the Canadian legal standard that the MRP or his physician delegate must: 1). Discuss risk benefits with the patient in person. 2). Sign the blood consent form. |
| 7) Cardiovascular Therapy After implementation of a complete history and physical examination and applying due consideration to | EC ASA (antiplatelet therapy) 81-325 mg PO once daily Furosemide 20-40 mg PO/IV; may repeat as necessary Nitroglycerin lingual spray 0.4 to 0.8 mg (1-2) | Calcium gluconate Diltiazem Furosemide >40 mg Magnesium sulfate |

| appropriate investigations available, the PA may order for suspect disease of cardiovascular origin. If the patient has an acute STEMI and a physician is not in attendance, the PA may activate the Code STEMI Team but then must immediately inform the most responsible physician. 8) Corticosteroid Therapy | sprays) stat; may repeat x 2 at 5-min intervals With SPB >100mmHG Nitroglycerin Transdermal Patch 0.2 to 0.8 mg applied once daily (remove QHS to allow 10-12 h drug-free period) With SPB >100mmHG | Group 2 |
|---|---|---|
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order the following corticosteroid therapeutic interventions. | Hydrocortisone 1-2 mg/kg IV Prednisone Up to 1 mg/kg PO once daily Prednisolone (Pedipred® oral solution) Up to 1 mg/kg PO once daily | Methylprednisolone (Solu Medrol®) Up to 2 mg/kg IV; may repeat Q4-12H Stress corticosteroids post-op |
| 9) Diabetes Therapy After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order | Group 1 The PA may resume the patient's home dosage of both insulin and non-insulin antihyperglycemic agents. | Group 2 Glucose / Dextrose Chewable Tablet or Gel 3-4 chew tabs or 1 tube of gel PO stat; may repeat after 15-20 min if BG still < 4 mmol/L Dextrose 50% Injection (50 mL syringe) 12.5 g (25 mL of D50W) IV slow bolus; may repeat |

| the following interventions | | Dextrose 10% IV Infusion (500 or 1000 mL bag) |
|---|--|--|
| for management of blood | | 12.5 g (125 mL of D10W) infused IV as rapidly as |
| glucose. | | possible (e.g., over 10 min); may repeat |
| | | <i>Insulin</i> SC or IV |
| | | Non-insulin antihyperglycemic agents |
| 10) Fluid & Electrolyte | Group 1 | |
| Therapy | Any plain IV solution (no KCl) routinely stocked | |
| After implementation of a | | |
| complete history and physical | Potassium chloride ORAL if serum K < 3.2 | |
| examination and applying | mmol/L | |
| due consideration to | 8 to 40 mmol oral SR tab (K-Dur, Slow-K) | |
| appropriate investigations | 20-40 mmol (15-30 mL) oral liquid | |
| available, the PA may order | | |
| fluid and electrolyte therapy. | Magnesium Sulfate if serum Mg < 0.7 mmol/L | |
| | Magnesium sulphate 2 g in 100 mL IV solution | |
| | over 1 hour via central or peripheral venous | |
| For patients in the pre- operative or post-operative | access. | |
| period who are unable to | Calcium gluconate if serum Ca < 2.20 mmol/L | |
| intake adequate p.o. fluids. | CL CALT NOT USED Coloium dunameter 1 c in FO | |
| Electrolytes should be | CL SALT NOT USED Calcium gluconate: 1 g in 50 | |
| checked prior to starting any | mL IV solution, 2 g in 100 mL IV solution over 1 | |
| solution. | hour | |
| | Phosphate Potassium/Sodium if ser P < 0.87 | |
| | mmol/L | |
| | AND serum K < 3.5 mmol/L with peripheral IV | |

access

Potassium phosphate 15 mmol in 500 mL IV solution over 4 hours. Do not give additional K replacement as 15 mmol of potassium phosphate provides 22 mmol of K.

AND serum K ≥ 3.5 mmol/L

Sodium phosphate 15 mmol in 100 mL IV solution over 2 hours via peripheral or central venous catheter.

OR

Phosphate Novartis effervescent tablet 1000 mg PO/NG x 1 dose.

| 11) Gastrointestinal Therapy | Acid Suppressants / Antacids: | Laxatives: |
|---|---|---|
| After implementation of a | Group 1 | *contraindicated in the early post-operative period for |
| complete history and physical | Antacid | GI surgery |
| examination and applying due consideration to | Magnesium & aluminum hydroxide (Gelusil®) | Group 2 |
| appropriate investigations | 15-30 mL PRN | Lactulose |
| available, the PA may order | Pantoprazole | 15-30 mL once or twice daily |
| for disease of suspect GI | Acid suppression: 40-80 mg PO/IV per day | Magnesium Citrate |
| origin. | (given once or twice/day) | 75 to 300 mL PO; repeat as necessary |
| | Ranitidine (RF) | Magnesium hydroxide |
| | 150 mg PO twice daily50 mg IV Q8-12H | 30-60 mL PO; repeat as necessary |
| | *Contraindicated in patients with known or suspected C.diff infection The PA may also order and implement a bowel regiment as outlined by the (hospital) Bowel Order Sets. | Na Phosphate (Fleet Enema)130 mL PR; repeat as |
| | | necessary |
| | | Polyethylene Glycol 17 g PO once or twice daily |
| | | Sennosides |
| | | 2-4 tabs PO once or twice daily |
| | | Antidiarrheals: |
| | | Group 2 |
| | | Diphenoxylate |
| | | 2 tabs (5 mg) PO 3-4 times a day |
| | | Loperamide |
| | | 2 tabs PO stat; then 1 tab PO after each loose BM (max |
| | | 8 tabs per day) |
| 12) Local Anaesthesia | Group 1 | |
| After implementation of a | Bupivacaine 0.25% or 0.5% | |

| complete history and physical | Via SC infiltration (for dose, see CPS) | |
|--|--|--|
| examination and applying due consideration to indications, contraindications and appropriate investigations available, the PA may order or use for local anesthesia. | EMLA (2.5%prilocaine, 2.5%lidocaine) Apply topically with occlusive dressing 1 hour before procedure LET Solution (lidocaine 4%, Epinephrine 1:1000, Tetracaine 0.5%) Apply topically avoiding mucous membranes and open wounds | |
| | Lidocaine 1% or 2% with or without epinephrine 1:100,000 or 1:200,000 Via SC infiltration (see CPS) | |
| | Lidocaine Viscous 2% 5-15 mL orally (may swish & spit / swallow) PRN (max 60 mL per day) | |
| | Lidocaine Topical Solution 4% Apply 2.5 to 10 mL topically to oropharyngeal, tracheal and bronchial areas pre-procedure | |
| 13) Neuropathic Pain | Group 1 | Group 2 |
| Therapy | Capsaicin (Capzasin®) | Calcium Channel Alpha-2-delta Ligands |
| After implementation of a | 0.025-0.1% cream – top. TID to QID for 3-4 | Gabapentin (Neurontin®) |
| complete history and physical | weeks | 300 mg PO Q8-24H up to 1200mg Q8H |
| examination and applying due consideration to | *Not to exceed 4 applications/day | *Decrease dosage to twice per day in renal |
| appropriate investigations | | impairment |
| available, the PA may order | | Pregabalin (Lyrica®) |
| for neuropathic pain | | 75-600 mg/day PO divided Q8-12H |
| | | *not to exceed 300mg in patients with creatinine |

| | | clearance less than 60 ml/min |
|--|---|-------------------------------|
| 14) Ophthalmologic Therapy | Group 1 | |
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order for ophthalmologic disease. | Lacrilube® eye ointment Instill into affected eyes up to Q6-8H Tears Naturale® eye drops 1-2 drops into affected eyes up to Q2H | |
| 15) Outpatient Medications for Maintenance Therapy | Group 1 The PA may prescribe (without prior discussion | |
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order the continuation of medications in hospital that were being taken by the patient as treatment for preexisting conditions. | with a physician) any medication that the patient was taking as an outpatient and that requires continuation while the patient is being assessed and treated in Hospital. | |
| The PA cannot prescribe narcotics or controlled or targeted drugs as per Federal Law. | | |
| The PA must not prescribe any medication deemed in | | |

| their professional opinion to be causing the presenting complaint. The PA must not prescribe oral medications for a patient deemed at significant risk of requiring anaesthesia or deep conscious sedation. | | |
|---|--|--|
| 16) Respiratory Therapy | Group 1 | |
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order for respiratory disease. Any nebulizer therapy must be in compliance with the current (hospital) policy (Infection Prevention & | Budesonide (Pulmicort®) 400–2400 μg/day divided BID Ipratropium MDI: 4-8 puffs Q15-20 min x 3 for acute asthma Then 2 puffs QID or PRN NEBULIZER: 500 mcg/2 mL inhalation sol PRN Salbutamol MDI: 4-8 puffs Q15-20min x 3 for acute asthma Then 2 puffs QID or PRN NEBULIZER: 2.5 to 5 mg inhalation sol PRN Naloxone (Narcan®) | |
| Control). | 0.4-4 mg IV/IM/SC; repeat q2-3min PRN | |
| | *Not to exceed 10 mg (0.01 mg/kg) | |
| 17) Sedative / Hypnotics for Sleep | Group 1 Melatonin 1-3 mg PO qhs prn (max 5 mg) Zopiclone 3.75-7.5 mg PO qhs prn | |

| 18) Skeletal Muscle Relaxant | Group 1 | |
|---|--|---|
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order for skeletal muscle spasms | Methocarbamol (Robaxin) 1500 mg PO q6hr for 48-72 hours then decrease to 4-4.5 g/day divided q4-8hr *Not to exceed 8 g/day | |
| After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order wound therapy. | Any hospital approved ward stock antiseptic skin cleansing agent(s) Hydrogen Peroxide 3% solution Apply to affected areas to cleanse wounds or ulcers as needed Polysporin cream or ointment Apply to affected areas BID-TID Tetanus & Diphtheria Toxoids (Td Adsorbed) Booster dose in patients aged 7 yrs or older:0.5 | Surgifoam Apply as directed to achieve homeostasis Tissue Glue Apply as directed Surgicel Apply as directed to achieve homeostasis |

| 20) Miscellaneous After implementation of a complete history and physical examination and applying due consideration to appropriate investigations available, the PA may order the miscellaneous medications listed here following discussions with the MRP | Group 2 Tamsulosin Tranexamic acid Vitamin K |
|--|--|
| In the unlikely circumstance that a fully certified staff PA, for whatever reason, finds themselves asked to see a life-threatening illness and the most responsible physician is not available <u>and</u> it is the professional judgment of that PA that any further delay significantly and imminently jeopardizes the life of that patient, the PA is authorized to take whatever action is deemed appropriate to maintain the life of the patient and may intervene with any of the above listed medications (Group 1 or 2) and act within the full current ACLS guidelines as sanctioned by the Ontario Heart & Stroke Foundation. | Prescribing and actions must be in complete compliance with the latest ACLS Provider and ACLS Advanced algorithms. |
| In the event that this Directive is used by a staff PA, there must be a mandatory review by the Program Co-Directors (Medical Director and Patient Care Manager) to investigate the circumstances from an operational and systems perspective and to elicit any learning that may pertain. | |
| Any order not described above may be written by the PA, following discussion with MRP: "XYZ, as per verbal order from DR. MRP." | |

| Appendix D: |
|-------------|
|-------------|

Procedure Log

| SUPERVISING PHYSICIAN: PHYSICIAN ASSISTANT: | | START DATE: END DATE: | | | |
|--|----------|--------------------------|---|-----------------|----------|
| Criteria | Physicia | an Sign Off-For e | e ach directly sup (Minimum of 5) | ervised procedu | re/skill |
| PROCEDURE OR SKILL | #1 | #2 | #3 | #4 | #5 |
| Administration of local anesthesia | | | | | |
| Admit patients from Ambulatory setting to Inpatient Orthopaedic Unit | | | | | |
| Application of sling | | | | | |
| Application of Thomas splint | | | | | |
| Appropriate referrals for Consulting services including | | | | | |
| other Allied Health Professionals | | | | | |

| Π | | <u> </u> | <u> </u> | I |
|----------------------------------|--|----------|----------|---|
| Appropriate usage of E-Sheet for | | | | |
| order entry (outpatient) | | | | |
| Consulting other medical | | | | |
| specialties and co-signing other | | | | |
| medical specialties suggested | | | | |
| orders | | | | |
| Dispenses appropriate | | | | |
| medications/prescription | | | | |
| Educates patients regarding | | | | |
| treatment plan including | | | | |
| risks/benefits | | | | |
| Managing Wound Infections | | | | |
| Obtains Complete History - New | | | | |
| patient | | | | |
| Obtains Informed consent for a | | | | |
| procedure | | | | |
| procedure | | | | |
| Order, consent for transfusion | | | | |
| Ordering appropriate diagnostic | | | | |
| imaging tests | | | | |
| Ordering cultures; understands | | | | |
| indications | | | | |
| Performs appropriate physical | | | | |
| exam for patient complaint | | | | |
| Perform drain removal | | | | |
| Perform dressing | | | | |
| placement/change/removal | | | | |
| Performs Focused History - | | | | |
| Follow-up patient | | | | |

| | 1 | 1 | 1 | |
|-------------------------------------|-------|---|---|---|
| Perform splint/cast application: | | | | |
| Elbow | | | | |
| Perform splint/cast application: | | | | |
| Hand/Wrist | | | | |
| Perform splint/cast application: | | | | 1 |
| Long Leg | | | | |
| Perform splint/cast application: | | | | |
| Short leg/foot/ankle | | | | |
| Short leg/loot/alikle | | | | |
| Suture placement/removal | | | | |
| Understands criteria for certain | | | | - |
| | | | | |
| patient dietary restrictions | | | | |
| Understands criteria for ordering | | | | |
| catheter and drain placement | | | | |
| (PICC, pleural catheter, peritoneal | | | | |
| catheter) | | | | |
| Diagnosis and Management of: | | | | |
| | | | | |
| Ankle Fractures | | | | |
| | | | | |
| Bursitis | | | | |
| | | | | 1 |
| Carpal Fractures | | | | |
| - Carparriacian co | | | | |
| Carpal Tunnel Syndrome | | | | |
| carpar raminer symmetric | | | | 1 |
| Clavicle Fractures | | | | |
| Ciavicie Fractures | | | | 1 |
| Elbow Dislocation | | | | |
| LIBOW DISIOCATION | | | | 1 |
| Enisondulasis of the Elbour | | | | |
| Epicondylosis of the Elbow | | | | |

| | | T | | T |
|------------------------|--|---|--|---|
| Femur Fractures | | | | - |
| Foot Fractures | | | | _ |
| Hand Fractures | | | | _ |
| Hip Dislocation | | | | |
| Hip Fractures | | | | |
| Humeral Fractures | | | | _ |
| Knee Dislocation | | | | _ |
| Ligamentous Injury | | | | _ |
| Meniscus Injury | | | | |
| Osteoarthritis | | | | |
| Patellar Dislocation | | | | |
| Pelvic Fractures | | | | |
| Radial/Ulnar Fractures | | | | |
| Rib Fractures | | | | |
| Rotator Cuff Tear | | | | |
| Scapular Fractures | | | | |

| | | | | | | 1 | | |
|---|--------------------------------------|--|--|--|--|---|--|--|
| Septic Arthritis | | | | | | - | | |
| Shoulder Dislocation | | | | | | | | |
| Tarsal Fracture | | | | | | - | | |
| Tendon Strain/Rupture | | | | | | | | |
| Tibia/Fibular Fractures | | | | | | - | | |
| Vertebral Fractures | | | | | | | | |
| Diagnosis and Initial Management | Diagnosis and Initial Management of: | | | | | | | |
| Anemia | | | | | | | | |
| Bowel Dysfunction (Constipation/Diarrhea) | | | | | | | | |
| DVT (suspected/proven) | | | | | | | | |
| Dyspnea | | | | | | - | | |
| Electrolyte Imbalance | | | | | | | | |
| Fatigue | | | | | | _ | | |
| GERD | | | | | | | | |
| Nausea/Vomiting | | | | | | | | |
| Pain | | | | | | | | |

| Peripheral neuropathy | | | |
|-----------------------|--|--|--|
| Rash | | | |

| Other | #1 | #2 | #3 | #4 | #5 |
|-------|----|----|----|----|----|
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