



Oregon Health & Science University
Hospitals and Clinics Provider's Orders

PO1500



GEN: DELIRIUM: ACUTE CARE UNIT

Page 1 of 6

ACCOUNT NO.
MED. REC. NO.
NAME
BIRTHDATE

Patient Identification

ALL ORDERS MUST BE MARKED IN INK WITH A CHECKMARK (✓) TO BE ACTIVE.

Allergies: _____ Weight: _____ kg

Diagnosis: _____

Service: _____ Attending: _____

DELIRIUM (ACUTE ENCEPHALOPATHY): ACUTE CARE UNIT

Based on your clinical judgement and prior diagnostics, use this order set if the patient has delirium (inattentiveness) + (acute/fluctuating course) + (disorganized thought +/- altered consciousness).

Confusion Assessment Method (CAM), gold standard for delirium screening:

http://ozone.ohsu.edu/healthsystem/HIS/po1654_CAM.pdf

Common Drugs Linked to Confusion/Delirium:

http://ozone.ohsu.edu/healthsystem/HIS/po7289_drugs_linked_to_delirium.pdf

WORK UP CAUSE OF DELIRIUM

Evaluate for dehydration, metabolic derangement, constipation, urinary retention, primary CNS event, infection, prescribed / illegal / OTC drug toxicity.

Labs (if no current labs)

- Basic Metabolic Set (Na, K, Cl, TCO2, BUN, Cr, Glu, Ca) ONCE
- Complete Metabolic Set (Na, K, Cl, CO2, BUN, Creat, Gluc, Ca, AST, ALT, Bili Total, Alk Phos, Alb, Prot Total) ONCE
- CBC, with Differential ONCE
- Blood Gases, Arterial - Lab COLLECT NOW, X1
- Vitamin B-12 ONCE
- Drug Screen, Urine; No Confirm COLLECT NOW, X1
- Digoxin, Plasma ONCE
- Magnesium, Plasma (monitoring for haloperidol) ONCE

Diagnostic Studies

- X-Ray Portable Chest 1 View Routine, ONCE
Reason for Exam/Referral Diagnosis? Assess for infection
- CT Head WO Contrast Routine, ONCE
Reason for Exam/Referral Diagnosis? Delirium

Signature: _____ Date: _____ Time: _____

Print Name: _____ Pager: _____

ONLINE 3/23/2017

Downtime version of Epic 304007289

PO-7289



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MEDICATION OPTIMIZATION

Review all current medications and taper/discontinue those that are high risk for delirium or are unnecessary

Evaluate risk-benefits of discontinuing centrally acting medications (benzodiazepines, anticholinergics, antispasmodics, opiates, muscle relaxants, etc.)

Preferred treatment options:

Avoid	Alternatively, Use:
promethazine (PHENERGAN), prochlorperazine (COMPAZINE)	ondansetron (ZOFRAN)
famotidine (PEPCID)	omeprazole (PRILOSEC)
diphenhydramine (BENADRYL), hydroxyzine (VISTARIL)	fexofenadine (ALLEGRA)
zolpidem (Ambien)	melatonin
digoxin >125 mcg daily if over 65	

Titrate down medications based on patient condition (opioids, benzodiazepines, SSRIs)

Calculate creatinine clearance using Cockcroft Gault; renally dose all medications:

<http://www.mdcalc.com/creatinine-clearance-cockcroft-gault-equation/>

More Common Drugs Linked to Confusion/Delirium:

http://ozone.ohsu.edu/healthsystem/HIS/po7289_drugs_linked_to_delirium.pdf

- IP Consult to Clinical Pharmacist Routine, CONTINUOUS
Reason for Consult: Delirigenic medication review

NON-PHARMACOLOGIC MANAGEMENT OF DELIRIUM

Discontinue all tethers as able:

- In Orders Manager, discontinue all orders for tethers as able, including Foley catheter, intravenous catheters, SCDs, telemetry, NG tubes.

Environmental management:

- Move to room with window as soon as available (private room preferred).
- Encourage family to be at bedside as often as able.
- Provide as much OOB mobility as tolerated, ideally to chair TID for meals.

Nursing

- Do not check Vital Signs 10pm-6am to allow for sleep Routine, CONTINUOUS
- Move to room with window as soon as available Routine, CONTINUOUS
Private room preferred.
- Encourage family to be at bedside as often as able Routine, CONTINUOUS
- Check Orthostatic Blood Pressure Routine, ONCE

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- Measure Post Void Residual Routine, ONCE
- Notify MD Routine, CONTINUOUS
 - Oxygen Saturation < 92%;
 - Post-void residual > 400 mL;
 - No BM in 48 hours

PHARMACOLOGIC MANAGEMENT OF DELIRIUM

Pain

- acetaminophen (TYLENOL) tablet 1,000 mg, oral, THREE TIMES DAILY
- oxyCODONE (immediate release) (ROXICODONE) tablet 2.5-5 mg, oral, EVERY 4 HOURS AS NEEDED for moderate pain
- HYDROMorphone (DILAUDID) injection 0.2 mg, intravenous, EVERY 2 HOURS AS NEEDED for severe pain or pain unresponsive to oral medications
Chart pain score. Administer slowly over 2 to 3 minutes.

Bowel Care (Single Response)

- Patient taking PO
 - senna-docusate (SENOKOT S) 8.6-50 mg 2 Tabs, Oral, TWICE DAILY
Hold for >2 BM per day
 - polyethylene glycol (MIRALAX) powder 17g, Oral, DAILY
To administer 17 grams, dissolve 1 packet in 240 mL of water. Hold for > 2 BM per day
 - polyethylene glycol (MIRALAX) powder 34g, Oral, THREE TIMES DAILY AS NEEDED for no BM for 2 days.
To administer 34 grams, dissolve 2 packet in 480 mL of water.
 - bisacodyl (DULCOLAX) PR 10 mg, Rectal, DAILY AS NEEDED if no BM in past 2 days
 - Notify provider:
Notify provider if no BM over 72 hours. . Notify provider to discontinue bowel care orders if > 2 BM per day x 2 days. Notify provider if scheduled doses are not given for 2 days.
- Patient on feeding tube
 - senna (SENOKOT) liquid 10 mL, Feeding Tube, TWICE DAILY
Hold for >2 BM per day
 - docusate sodium liquid 100 mg 100 mg, Feeding Tube, TWICE DAILY
Hold for >2 BM per day
 - polyethylene glycol (MIRALAX) powder 17g, Feeding Tube, DAILY
To administer 17 grams, dissolve 1 packet in 240 mL of water. Hold for > 2 BM per day

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- polyethylene glycol (MIRALAX) powder 34g, Feeding Tube, THREE TIMES DAILY AS NEEDED for no BM for 2 days.

To administer 34 grams, dissolve 2 packet in 480 mL of water.

- bisacodyl (DULCOLAX) PR 10 mg, Rectal, DAILY AS NEEDED for no BM in past 2 days

- Notify provider:

Notify provider if no BM over 72 hours. . Notify provider to discontinue bowel care orders if > 2 BM per day x 2 days. Notify provider if scheduled doses are not given for 2 days.

Sleep

- melatonin tablet 1 mg, oral, AT BEDTIME

Circumstances Requiring Alternate Management (Consults)

For alcohol withdrawal, see GEN: ALCOHOL WITHDRAWAL (PO-1712).

Sedative-hypnotic or other drug overdose - Call the Poison Control Center at x4-8689

- IP Consult to Geriatric Medicine Routine, ONCE
Indication for Consult: Patient aged 80 years or more with delirium
Ordering/Responsible Provider: _____ Pager: _____
- IP Consult to Neurology Routine, ONCE
Reason for Consult: Primary CNS event
- IP Consult to Neurological Surgery Routine, ONCE
Reason for Consult: Head trauma
- IP Consult to Psychiatry Routine, ONCE
Reason for Consult: Primary psychiatric disorder or agitated behaviors unmitigated after pharmacologic interventions fail
- IP Consult to Palliative Care Routine, ONCE
Reason for Consult: Management of terminal delirium
- IP OT - Eval and Treat Adult
- IP Speech - Eval and Treat Adult
- IP Consult to Nutrition Routine, ONCE
Reason for Consult: _____

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**PHARMACOLOGIC MANAGEMENT OF DANGEROUS BEHAVIORS / HALLUCINATIONS
(HYPERACTIVE DELIRIUM)**

For patients whose symptoms of **hyperactive delirium** threaten their own safety or the safety of others (paranoid, combative, misperception of environment), or result in the interruption of essential therapy and non-pharmacologic measures have failed.

Acute Management (< 72 hours, reversible cause) - Haloperidol (Single Response)

Haloperidol (recommended first-line agent for most patients)

- AVOID haloperidol in patients with Parkinson's Disease, Lewy Body Dementia (consider QUetiapine)
- Use haloperidol with caution in patients at risk for seizure
- Avoid high doses or combinations of antipsychotics in patients with prolonged QT interval (see orders below)
- Single doses greater than 2 mg or doses greater than 10 mg/day (oral and/or IV/IM) require daily EKG
- Usual dose is 2-5 mg PO/IV/IM every 2 hours; maximum 30mg/day
- For patients > age 65, start 0.5 mg; maximum 10 mg/day

Haloperidol [**Patient < 65 years old**]

haloperidol (HALDOL) tablet 2-5 mg, oral, EVERY 30 MINUTES AS NEEDED for dangerous behaviors (threat to self or others). May repeat dose every 30 minutes until patient is calm but not sedate

Notify provider if GREATER THAN 1 administration in 12 hours

Or

haloperidol lactate (HALDOL) IV 2-5 mg, intravenous, EVERY 30 MINUTES AS NEEDED for dangerous behaviors (threat to self or others). If unable to take oral. May repeat dose every 30 minutes until patient is calm but not sedate.

Notify provider if GREATER THAN 1 administration in 12 hours

Or

haloperidol lactate (HALDOL) injection 2-5 mg, intramuscular, EVERY 30 MINUTES AS NEEDED for dangerous behaviors (threat to self or others). If unable to take oral or IV. May repeat dose every 30 minutes until patient is calm but not sedate.

Notify provider if GREATER THAN 1 administration in 12 hours

Haloperidol [**Patient 65 years old or greater**]

haloperidol (HALDOL) tablet 0.5-1 mg, oral, EVERY 2 HOURS AS NEEDED for dangerous behaviors (threat to self or others). May repeat every 2 hours until patient is calm but not sedate.

Notify provider if GREATER THAN 1 administration in 12 hours. Do NOT exceed 10 mg/day

Or

haloperidol lactate (HALDOL) IV 0.5-1 mg, intravenous, EVERY 2 HOURS AS NEEDED for dangerous behaviors (threat to self or others). If unable to take oral. May repeat every 2 hours until patient is calm but not sedate.

Notify provider if GREATER THAN 1 administration in 12 hours. Do NOT exceed 10 mg/day

Or

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Notify provider if GREATER THAN 1 administration in 12 hours. Do NOT exceed 10 mg/day

QUETiapine (*Single Response*)

Caution in patients with constipation, urinary retention, hypotension

- [Patient < 65 years old] QUETiapine (SEROQUEL) tablet 25 mg, oral, AT BEDTIME
- [Patient 65 years old or greater] QUETiapine (SEROQUEL) tablet 12.5 mg, oral, AT BEDTIME

Monitoring

For new therapy of haloperidol (IV, IM, PO) >2 mg per dose, or ≥10 mg total daily dose, patients should receive:

- Baseline 12 lead ECG for QTc evaluation and monitor vital signs as soon as possible. Treatment may be initiated without baseline ECG or assessment of HR if agitation is sufficient to pose a danger to the patient or others.
- Baseline K and Mg levels drawn, repletion and monitoring as indicated to maintain K of > 4 mEq/L and Mg > 2 mEq/L

- 12 Lead ECG- QT monitoring Routine, ONCE

Indications:

Evaluate QT Interval for any patient receiving Haloperidol

- Potassium, Plasma ONCE
- Magnesium, Plasma ONCE

Non-Emergent New IV Therapy

- Baseline 12 lead ECG for QTc evaluation within 24 hours of the first dose or as soon as medically safe
- When there is an increase in dose, consider serial ECGs to monitor QTc until a stable dose is achieved
- Baseline K and Mg levels drawn, repletion and monitoring as indicated to maintain K of > 4 mEq/L and Mg > 2 mEq/L
- Consider discontinuation of haloperidol if QTc > 500 msec or QTc interval increases 60 msec from baseline

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