PALLIATIVE CARE TIPS

Issue # 18 Myoclonus - Seizures - Hyperalgesia

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Myoclonus: Intermittent, irregular, involuntary, jerking movements generally involving the limbs

- 1. Occurs more commonly in patients on higher doses of opioids or in the presence of renal failure.
- 2. Standard approach has been to prescribe benzodiazepines such as clonazepam.
- 3. Our recommended management is to look for reversible causes:
 - a. Correct renal failure and dehydration.
 - b. Change the opioid and decrease the analgesic dose by 20 to 30 %.
 - c. If renal failure is irreversible, decrease the opioid dose and administration interval.
- 4. The management as above will generally resolve the problem. It is extremely unusual in our practice to require the use of benzodiazepines.

Seizures: Occurs in 25 to 30 % of patients with primary or secondary brain cancer.

- 1. Brain and leptomeningeal cancer.
- 2. Infections
- 3. Metabolic or medication (e.g. opioids).
- 4. Untreated myoclonus can progress to seizures.

Treatment:

- 1. Prophylactic management generally recommended in patients who have had a seizure.
- 2. For active seizure:
 - a. Lorazepam 2 mg sc.STAT }
 - b. Midazolam 5 mg sc STAT } repeat as necessary
 - c. Diazepam 10 mg (parenteral) per rectum or I.V. Stat

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- 3. Prophylactic management:
 - a. Phenytoin 300 400 mg per day
 - b. If patient unable to swallow give Phenobarb 30 120 mg sc q8h (this can be very sedating)
- 4. Persistent seizures continuous subcutaneous infusion of Midazolam (rarely required)

Hyperalgesia: This is a somewhat controversial term used to describe the paradoxical reaction of patients having increasing pain with increasing opioid doses. This is thought to be a manifestation of opioid toxicity due to opioid metabolites.

Management:

- 1. Ensure adequate hydration and renal function.
- 2. Change the opioid and decrease the equianalgesic dose by 20 to 30 %

For more detailed management refer to Alberta Health Services Regional Palliative Care Program Evidence-Based Care Management Tools (www.palliative.org):

- 1. Acute Seizure Pharmacological Management in Palliative Patients
- 2. Chronic Seizure Pharmacological Management in Palliative Care

REMEMBER: For referrals, questions, or telephone consultations call 496-1300 weekdays and weekends.

Palliative Care Tips are now available on our Website: www.palliative.org