

USE OF AN OREXIN ANTAGONIST FOR SUBACUTE DELIRIUM

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experience sleep disturbance during hospitalization. Gan To Kagaku Ryoho 2018; 45(Suppl 1): 92–94.

randomized controlled trial. Acute Medicine & Surgery 2018; 5(4): 362-8

4) Azuma K, Takaesu Y, Soeda H, et al: Ability of suvorexant to prevent delirium in patients in the intensive care unit: a

CASE PROPOSAL BACKGROUND Current evidence supports the use of orexin antagonists (OA) What: OAs are well-tolerated soporifics with mild side effect profile that includes 65-year-old man with a history of DLBC lymphoma and sedation, headache, dizziness, and abnormal dreams unipolar depression, admitted w/ febrile neutropenia and 2in cases of hospital delirium^{1,2,3}, and for subthreshold wks of hallucinations and impaired alertness, attention, delirium in hospitalized patients.⁴ Furthermore, OAs are not Who: Patients with disordered sleep and delirium risk, particularly: age >65, memory, and sleep-wake cycle considered deliriogenic or catatonogenic.¹ To our knowledge, dementia, cancer, postoperative, ICU admission, with neuroinflammatory risk no reports exist documenting its role in the management of Low potency D2 blockade (Seroquel PO, then When: (a) Want to promote sleep AND: subacute delirium. • Avoid using a Z drug or anticholinergic / Melatonin failure, insufficient Thorazine IV) precipitated catatonia D2 blockade is contraindicated or not preferred (i.e., high-risk EPS/Catatonia, **OREXIN PATHWAY** LBD, HIV/AIDs, Cancer) Lorazepam effectively lysed catatonia • High risk for alpha-1 antagonism associated fall-risk however exacerbated underlying confusion OX (b) Aim for sedation and sleep regulation during hyperactive delirium Ox Why: Delirium/inflammation/neuronal aging dysregulates melatonin and orexin Clonidine patch and trazodone led to pathways leading to circadian rhythm reversal 5HT hypotension Where: Inpatient general hospital, ICU, Home How long: For delirium: The duration of delirium episode, ~7 days Mirtazapine and then melatonin failed to How Long: For Sleep or Subacute/Subthreshold Delirium: studied up to 4 weeks, regulate his sleep cycle perhaps longer, but risks exist for tolerance among other adverse effects OxR: OxR CONCLUSIONS IV Valproic acid: drowsy, cognition slowed, Excitatory CL Psychiatrists should familiarize themselves with OAs, a relatively new class of and sleep cycle remained dysregulated medication. Its efficacy and safety in treating the complications of delirium HA NA Inhibitory Discharged AMA w persistent warrant its inclusion in their armamentarium, and its tolerability suits medically delirium symptoms vulnerable patients and subsyndromal/subacute delirium, both inpatient and DISCUSSION outpatient. As an outpatient, oral orexin antagonist, For Mr. A, modulation of serotonin, histamine, and melatonin Suvorexant, allowed for restful sleep and REFERENCES pathways did not improve the symptoms of delirium, yet he behavioral control without adverse effects 1) Adams AD: The role of suvorexant in the prevention of delirium during acute hospitalization: A systematic review. J Crit suffered from all the side effects associated with alpha-1, D2, Care 2020, Oct; 59:1-5. doi: 10.1016/j.jcrc.2020.05.006. Epub 2020 May 20. 2) Booka E, Tsubosa Y, Matsumoto T, et al: Postoperative delirium after pharyngolaryngectomy with esophagectomy: a role NMDA/glutamate blockade, and GABA agonism. In contrast, Once Suvorexant was prematurely stopped days later, for ramelteon and suvorexant. Esophagus 2017; 14(3): 229-34. an OA controlled these symptoms without any reported side 3) Kessoku T, Kusakabe A, Matsuura T, et al: Usefulness of suvorexant for complicated delirium in cancer patients who symptoms returned

effects. Furthermore, its discontinuation led to the re-

emergence of initial symptoms.