LETTER TO THE EDITOR

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DEXMEDITOMIDINE AND ITS INCREASING APPLICATION IN NONOPIOID DETOXIFICATION

Dear Editor:

I read with great interest the recent article by Nasr et al. in a recent issue of your esteemed journal. The article was highly thought provoking. Interestingly, dexmedetomidine is also useful in other nonopiate detoxifications.

For instance, dexmedetomidine is of great benefit in cocaine detoxification. It attenuates the increase in myocardial consumption of oxygen as well as reduces the tachycardia induced by cocaine by virtue of central sympatholysis.2,3 Dexmedetomidine also decreases the dopaminergic response to cocaine intake thereby augmenting the threshold to cocaine-induced seizures.4 Especially, patients who have to undergo cerebral angioplasty for cerebral vasospasm following cocaine withdrawal benefit from dexmedetomidine administration.5 Dexmedetomidine is also useful in mitigating hypertensive emergencies especially in individuals with cocaine-induced aortic aneurysms.6

Similarly, dexmedetomidine can decrease the accentuated cardiac stimulation seen following intoxication with stimulants such as methylphenidate.7 It also mitigates the associated peripheral sympathetic effects and behavioral changes such as agitation. Besides this, dexmedetomidine is also highly useful in attenuating the symptoms of opioid withdrawal especially in new born infants and pediatric patients.8,9

The above examples clearly illustrate the benefits of dexmedetomidine in cocaine and methylphenidate detoxification and the need for further studies to fully study its safety.

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