Letter to Editor

A Comment on "Add-on Aripiprazole for Atypical Antipsychotic-induced, Clinically Significant Hyperprolactinemia"

Sir,

Use of add-on aripiprazole (ARIP) for antipsychotic-induced hyperprolactinemia (hPRL) is currently an increasingly deployed strategy on clinical grounds. Sound evidence base supports this approach, and this is replicated in the current study.^[1] Having said so, a few comments are worthy of mention.

- 1. Although it sounds rational, this is an exemplar of antipsychotic polypharmacy,^[2] and cost-effectiveness should be factored in
- 2. This strategy might be superior to swapping to PRL-sparing antipsychotic only when the patient is symptomatic, and there seems a risk to compromise the therapeutic response
- 3. This strategy has been proven to be efficacious with risperidone-induced hPRL more than amisulpride-induced hPRL^[3]
- 4. Use of long-acting injectable forms has been noted to be associated with lower levels of hPRL than oral forms.^[4] This might be a reasonable option, especially when compliance is questionable
- 5. Although not that much, tolerance to antipsychotic-induced hPRL has been demonstrated. The plateau occurs commonly in the 4th month, with a decline of levels thereafter.^[5] Hence, if the patient is asymptomatic, monitoring serum prolactin and "wait-and-see" strategy might make better sense
- 6. Doses of ARIP in this study, $13.8 \pm 7.4 \text{ mg/day}$, are a sort of higher than usually used. Doses above 6 mg/d were not found to be any better^[6]
- 7. Mechanistically, D2/D3 partial agonism by ARIP can explain this indication. However, 5-HT2A antagonism is also contributory, boosting DA tone in the tuberoinfundibular pathway^[7]
- 8. Use of dopaminomimetic agents instead, albeit in theory might be psychotomimetic, has been demonstrated to be an effective without psychotic decompensation.^[8] Use of bromocriptine, in particular, is advantageous, by virtue of antidiabetic actions, to mitigate other metabolic parameters induced by atypical antipsychotics, to alleviate extrapyramidal side effects, and to help with negative domain schizophrenia^[9]

- 9. Most importantly, especially when ARIP is used at high-dose ranges, this regimen might result in "pharmacodynamic failure" and "pharmacologic relapse."^[10] ARIP is notorious for D2 tenacity. It would compete and eventually displace risperidone, and it would be more of D2 partial agonist (30% of DA agonism) "stabilizing DA" at receptor landscape counterbalancing DA blockade by risperidone in the first place and as such compromising previous therapeutic response. It then behooves clinicians to be mindful of these "combs" that might be unwittingly contribute to treatment failure (or pseudoresistance)
- 10. While rare, reports of paradoxically ARIP-induced hPRL abound in literature.^[11]

Moreover, hPRL was reported in prodroma phase and untreated schizophrenics.^[12]

The bottom-line is that aripiprazole is neither ambrosia nor panacea!

Financial support and sponsorship Nil.

Conflicts of interest

There are no conflicts of interest.

Ahmed Naguy

Kuwait Centre for Mental Health, Shuwaikh, State of Kuwait

Address for correspondence: Dr. Ahmed Naguy CAP Centre, Kuwait Centre for Mental Health, Jamal Abdul-Nassir Street, Shuwaikh, State of Kuwait. E-mail: ahmednagy@hotmail.co.uk

REFERENCES

 Raveendranthan D, Rao NP, Rao MG, Mangot AG, Varambally S, Kesavan M, et al. Add-on aripiprazole for atypical antipsychotic-induced, clinically significant hyperprolactinemia. Indian J Psychol Med 2018;40:38-40.

- Naguy A. Antipsychotic polypharmacy in psychiatric practice: Is it really doomed? Australas Psychiatry 2017;25:200-1.
- Paulzen M, Gründer G. Amisulpride-induced hyperprolactinaemia is not reversed by addition of aripiprazole. Int J Neuropsychopharmacol 2007;10:149-51.
- Bushe C, Shaw M, Peveler RC. A review of the association between antipsychotic use and hyperprolactinaemia. J Psychopharmacol 2008;22:46-55.
- Eberhard J, Lindström E, Holstad M, Levander S. Prolactin level during 5 years of risperidone treatment in patients with psychotic disorders. Acta Psychiatr Scand 2007;115:268-76.
- Yasui-Furukori N, Furukori H, Sugawara N, Fujii A, Kaneko S. Dose-dependent effects of adjunctive treatment with aripiprazole on hyperprolactinemia induced by risperidone in female patients with schizophrenia. J Clin Psychopharmacol 2010;30:596-9.
- 7. Torre DL, Falorni A. Pharmacological causes of hyperprolactinemia. Ther Clin Risk Manag 2007;3:929-51.
- Lee MS, Song HC, An H, Yang J, Ko YH, Jung IK, et al. Effect of bromocriptine on antipsychotic drug-induced hyperprolactinemia: Eight-week randomized, single-blind, placebo-controlled, multicenter study. Psychiatry Clin Neurosci 2010;64:19-27.
- Naguy A, Al-Tajali A. Bromocriptine mitigated paliperidone metabolic and neuro-hormonal side effects and improved negative domain in a case of early onset schizophrenia. Nord J Psychiatry 2016;70:318-9.
- Naguy A, Abu-Zeid M. The oft-times overlooked "pharmacologic" relapse in schizophrenia. Australas Psychiatry 2017;25:201-2.

- McQuade RD, Stock E, Marcus R, Jody D, Gharbia NA, Vanveggel S, et al. A comparison of weight change during treatment with olanzapine or aripiprazole: Results from a randomized, double-blind study. J Clin Psychiatry 2004;65 Suppl 18:47-56.
- Aston J, Rechsteiner E, Bull N, Borgwardt S, Gschwandtner U, Riecher-Rössler A, et al. Hyperprolactinaemia in early psychosis-not only due to antipsychotics. Prog Neuropsychopharmacol Biol Psychiatry 2010;34:1342-4.

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

Access this article online	
	Quick Response Code
Website:	
www.ijpm.info	
	16.2.23
DOL	
DOI:	
10.4103/IJPSYM_IJPSYM_47_18	回来的教育

How to cite this article: Naguy A. A comment on "add-on aripiprazole for atypical antipsychotic-induced, clinically significant hyperprolactinemia". Indian J Psychol Med 2018;40:299-300.

© 2018 Indian Psychiatric Society | Published by Wolters Kluwer - Medknow