European Psychiatry S95

O0072

Pharmacovigilance analysis of the Vigibase on antidepressants-related withdrawal syndrome in adults and adolescents

C. Gastaldon¹*, G. Schoretsanitis², E. Arzenton³, E. Raschi⁴, D. Papola¹, G. Ostuzzi¹, U. Moretti³, E. Seifritz⁵, J. M. Kane⁶, G. Trifirò³ and C. Barbui¹

¹WHO Collaborating Centre for Research and Training in Mental Health and Service Evaluation Department of Neuroscience, Biomedicine and Movement Sciences Section of Psychiatry, University of Verona, Verona, Italy; ²Department of Psychiatry, Northwell Health, The Zucker Hillside Hospital, Glen Oaks, New York, USA, United States; ³Section of Pharmacology, Department of Diagnostics and Public Health, University of Verona, Verona; ⁴Pharmacology Unit, Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy; ⁵Department of Psychiatry, Psychotherapy and Psychosomatics, Hospital of Psychiatry, University of Zurich, Zurich, Switzerland and ⁶Department of Psychiatry, Northwell Health, The Zucker Hillside Hospital, Glen Oaks, New York, USA, United States

 * Corresponding author.

doi: 10.1192/j.eurpsy.2023.277

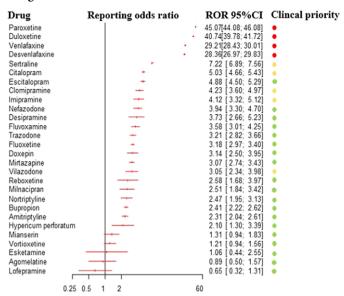
Introduction: Antidepressant discontinuation may cause withdrawal syndrome in some cases. However, evidence on this syndrome related to individual antidepressants is limited, as well as about individual risk factors for severe reactions.

Objectives: To ascertain whether each individual antidepressant is associated with an increased reporting of withdrawal syndrome as compared with other medications, and to examine clinical risk factors for severe reactions.

Methods: We conducted a pharmacovigilance study, with a case/non-case design. We included reports of antidepressant-related withdrawal syndrome from the VigiBase, the WHO global database of individual case safety reports of suspected adverse drug reactions. We performed a disproportionality analysis (calculating reporting odds ratio (ROR) and the Bayesian information component (IC)) of reports of antidepressant-related withdrawal syndrome, comparing antidepressants to all other drugs and to buprenorphine (as a positive control). Antidepressants with significant disproportionate reporting were ranked in terms of clinical priority. We compared serious versus non-serious reactions to determine clinical risk factors for severe reactions.

Results: Based on 31,688 reports of antidepressant-related with-drawal syndrome, we detected a disproportionate reporting for 23 antidepressants. The ROR for antidepressants altogether, compared to all other drugs, was 14.26 (95%CI:14.08-14.45), 17.01 for other antidepressants (95%CI:16.73-17.29), 13.65 for SSRIs (95% CI:13.41-13.90) and 2.8 for tricyclics (95%CI:2.59-3.02). Based on clinical priority ranking, the strongest signals were found for paroxetine, duloxetine, venlafaxine and desvenlafaxine (figure 1), being comparable to buprenorphine. Severe reactions were more frequently reported in males, adolescents, persons with multiple medications, and with longer treatment duration.

Image:



Conclusions: Antidepressants are associated with increased reporting of withdrawal syndrome compared with other medications, with differences between individual antidepressants. Clinicians should be aware of such differences, when prescribing and discontinuing these drugs, as well as of the risk to experience more severe withdrawal symptoms in specific cases.

Disclosure of Interest: C. Gastaldon: None Declared, G. Schoretsanitis Consultant of: Dr. Schoretsanitis has served as a consultant for HLS Therapeutics, E. Arzenton: None Declared, E. Raschi: None Declared, D. Papola: None Declared, G. Ostuzzi: None Declared, U. Moretti: None Declared, E. Seifritz Grant / Research support from: Dr. Seifritz has received educational grants, consulting fees and lecture honoraria from Janssen Cilag, Lundbeck, Angelini, Otsuka, Servier, Ricordati, Vifor, Sunovion, Schwabe and Mepha, Consultant of: Dr. Seifritz has received educational grants, consulting fees and lecture honoraria from Janssen Cilag, Lundbeck, Angelini, Otsuka, Servier, Ricordati, Vifor, Sunovion, Schwabe and Mepha, J. Kane Shareolder of: LB Pharmaceuticals and Vanguard Research Group, Consultant of: Dr. Kane has been a consultant and/or advisor for or has received honoraria from Alkermes, Allergan, LB Pharmaceuticals, H. Lundbeck, Intracellular Therapies, Janssen Pharmaceuticals, Johnson and Johnson, Merck, Minerva, Neurocrine, Newron, Otsuka, Pierre Fabre, Reviva, Roche, Sumitomo Dainippon, Sunovion, Takeda, Teva and UpToDate , G. Trifirò Grant / Research support from: he was the scientific director of a Master program on pharmacovigilance, pharmacoepidemiology and real-world evidence which has received non-conditional grant from various pharmaceutical companies; he coordinated a pharmacoepidemiology team at the University of Messina until Oct 2020, which has received funding for conducting observational studies from various pharmaceutical companies (Boehringer Ingelheim, Daichii Sankyo, PTC Pharmaceuticals). He is also scientific coordinator of the academic spin-off "INSPIRE srl" which has received funding for conducting observational studies from contract research organizations (RTI Health

S96 Oral Communication

Solutions, Pharmo Institute N.V.)., Consultant of: Dr. Trifirò has served in the last three years on advisory boards/seminars funded by SANOFI, Eli Lilly, AstraZeneca, Abbvie, Servier, Mylan, Gilead, Amgen; , Speakers bureau of: Dr. Trifirò has served in the last three years on advisory boards/seminars funded by SANOFI, Eli Lilly, AstraZeneca, Abbvie, Servier, Mylan, Gilead, Amgen; , C. Barbui: None Declared

O0073

Pharmacovigilance analysis of the Vigibase on neonatal withdrawal syndrome following in utero exposure to antidepressants

C. Gastaldon¹*, E. Arzenton², E. Raschi³, O. Spigset⁴, D. Papola¹, G. Ostuzzi¹, U. Moretti², G. Trifirò², C. Barbui¹ and G. Schoretsanitis⁵

¹WHO Collaborating Centre for Research and Training in Mental Health and Service Evaluation Department of Neuroscience, Biomedicine and Movement Sciences Section of Psychiatry; ²Section of Pharmacology, Department of Diagnostics and Public Health, University of Verona, Verona; ³Pharmacology Unit, Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy; ⁴Department of Clinical Pharmacology, St Olav University Hospital, Trondheim, Norway and Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology, Trondheim, Norway and ⁵The Zucker Hillside Hospital, Department of Psychiatry, and Department of Psychiatry, Zucker School of Medicine, at Northwell/Hofstra, New York, United States *Corresponding author.

doi: 10.1192/j.eurpsy.2023.278

Introduction: Evidence on neonatal withdrawal syndrome following antidepressant intrauterine exposure is limited, particularly for antidepressants other than selective serotonin reuptake inhibitors (SSRIs).

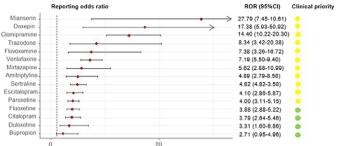
Objectives: To ascertain whether maternal antidepressant treatment may be associated with withdrawal syndrome in neonates, investigating the comparative reporting between individual antidepressants and classes.

Methods: We performed a case/non-case pharmacovigilance study, searching reports of withdrawal syndrome in newborns in the VigiBase, the WHO database of suspected adverse drug reactions. Disproportionality analysis was performed, estimating reporting odds ratio (ROR) and the Bayesian information component (IC). Antidepressants were compared to all other medications, to methadone, and within each class of antidepressants (SSRIs, tricyclics (TCA) and other antidepressants). Antidepressants were ranked in terms of clinical priority, based on a semiquantitative score.

Results: We retrieved 406 reports of neonatal withdrawal syndrome in 379 neonates related to 15 antidepressants. Compared to all other drugs, disproportionate reporting was detected for antidepressants altogether (ROR: 6.18, 95%CI:5.45-7.01), for TCAs (10.55, 95%CI:8.02-13.88), other antidepressants (ROR: 5.90, 95% CI:4.74-7.36) and SSRIs (ROR: 4.68, 95%CI:4.04-5.42). All antidepressants showed a significant disproportionality, apart from bupropion (figure 1). We did not find any disproportionate reporting for any antidepressant compared to methadone. The clinical priority ranking showed moderate clinical priority for all antidepressants, with the exception four, that had a weak one (figure 1). Most frequently reported symptoms were respiratory symptoms

(n=106), irritability/agitation (n=75), tremor (n=52) and feeding problems (n=40).

Image:



()

20
Figure 1. reporting odds ratios (RORs) with95% Confidence intervals (95%CI) and clinical priority ranking. Yellow = moderate clinical priority ranking priority.

Conclusions: Exposure to antidepressants in utero is associated with moderate signals of disproportionate reporting for neonatal withdrawal syndrome for most antidepressants. Clinicians should pay extra attention to neonates with antidepressant-treated mothers.

Disclosure of Interest: C. Gastaldon: None Declared, E. Arzenton: None Declared, E. Raschi: None Declared, O. Spigset: None Declared, D. Papola: None Declared, G. Ostuzzi: None Declared, U. Moretti: None Declared, G. Trifirò Grant / Research support from: he was the scientific director of a Master program on pharmacovigilance, pharmacoepidemiology and real-world evidence which has received non-conditional grant from various pharmaceutical companies; he coordinated a pharmacoepidemiology team at the University of Messina until Oct 2020, which has received funding for conducting observational studies from various pharmaceutical companies (Boehringer Ingelheim, Daichii Sankyo, PTC Pharmaceuticals). He is also scientific coordinator of the academic spin-off "INSPIRE srl" which has received funding for conducting observational studies from contract research organizations (RTI Health Solutions, Pharmo Institute N.V.)., Consultant of: has served in the last three years on advisory boards/seminars funded by SANOFI, Eli Lilly, AstraZeneca, Abbvie, Servier, Mylan, Gilead, Amgen, Speakers bureau of: has served in the last three years on advisory boards/seminars funded by SANOFI, Eli Lilly, AstraZeneca, Abbvie, Servier, Mylan, Gilead, Amgen, C. Barbui: None Declared, G. Schoretsanitis Consultant of: Dr. Schoretsanitis has served as a consultant for HLS Therapeutics and Thermo Fisher Scientific.

Child and Adolescent Psychiatry

O0074

Claudin-5, occludin, zonulin and tricellulin levels of children with attention deficit/hyperactivity disorder

H. Ferahkaya¹, O. F. Akca²*, I. Kılınç³ and T. Baysal⁴

¹Child and Adolescent Psychiatry, Dr. Ali Kemal Belviranlı Women and Children's Hospital; ²Child and Adolescent Psychiatry; ³Biochemistry and ⁴Pediatric Cardiology, Necmettin Erbakan University Meram School of Medicine, Konya, Türkiye

*Corresponding author.

doi: 10.1192/j.eurpsy.2023.279