



PEER-REVIEW REPORT

Name of journal: World Journal of Psychiatry

Manuscript NO: 53545

Title: Neuroendocrine, epigenetic, and intergenerational effects of general anesthetics

Reviewer's code: 01219902

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's country: Japan

Author's country: United States

Manuscript submission date: 2019-12-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2019-12-25 05:48

Reviewer performed review: 2019-12-25 07:54

Review time: 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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This is really a commendable review of neuroendocrine, epigenetic, and intergenerational effects of general anesthetics. Generally, general anesthetics is considered relatively safe by the public, but it surely has many potential adverse effects. In this sense, the topic this paper deals with is very important. This review encompasses a wide range of papers, and yet the selection of them is really focused. And the papers reviewed here are sufficiently digested for the readers with a good command of English. I believe this review can play a significant role to enhance the attention of the public to the field of anesthetics.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
- Plagiarism
- No

BPG Search:

- The same title
- Duplicate publication
- Plagiarism
- No



PEER-REVIEW REPORT

Name of journal: World Journal of Psychiatry

Manuscript NO: 53545

Title: Neuroendocrine, epigenetic, and intergenerational effects of general anesthetics

Reviewer's code: 02445209

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer's country: Czech Republic

Author's country: United States

Manuscript submission date: 2019-12-24

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2020-02-03 09:22

Reviewer performed review: 2020-02-06 06:13

Review time: 2 Days and 20 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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Dear authors, I only have one comment on your manuscript: - In Introduction, you write that anesthesia early in life may be associated with autism spectrum disorders. There is an increasing evidence in the literature that autism is associated with copy number variations (microdeletions or microduplications of DNA). Do you have any data, your own or from the literature, that anesthesia may induce de novo copy number variations?
The reviewer

INITIAL REVIEW OF THE MANUSCRIPT

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BPG Search:

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- No



PEER-REVIEW REPORT

Name of journal: World Journal of Psychiatry

Manuscript NO: 53545

Title: Neuroendocrine, epigenetic, and intergenerational effects of general anesthetics

Reviewer's code: 03764910

Position: Editorial Board

Academic degree: MD, MSc, PhD

Professional title: Associate Professor

Reviewer's country: Japan

Author's country: United States

Manuscript submission date: 2019-12-24

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2020-02-07 02:31

Reviewer performed review: 2020-02-11 01:32

Review time: 3 Days and 23 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

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In this manuscript, the author explains the results of several recent studies regarding the adverbial influence of general anesthesia in young-adults particularly in the neurocognitive development and transgenerational effects. This issue is of importance and worthy to be discussed more deeply. This manuscript is, however, only a narrative review. The author introduced some latest study of their own as well as recent studies by others. Their quality as an experimental study has not been examined by the author. At least there is no proof of critical reviewing in this manuscript. Therefore, readers cannot completely trust the claim of the author as scientifically appropriate. As far as I know, the adverse effect of GA to offsprings is yet under argument. A systematic review is required to judge the correctness of the author's conclusion. Past studies suggesting harmlessness of GA should also be referred, to be fairly examined. Otherwise, the author should mention the limitation of the presentation in this manuscript. As a minor point, in the introduction section, the author wrote "Such co-occurrence of ADHD and ASD suggests that early-life exposure to anesthesia may be a contributing to a rising number of neurodevelopmental disorders, whose cause are frequently unknown." This sentence is logically invalid because the author never mentions the relationship between ADHD and ASD. To begin with, it is declared that the cause of neurodevelopmental disorders is unknown in the same sentence. In the later sections, the author never discuss particular mental disorders. This sentence should be deleted.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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