Neurotoxicity of E-Waste: Mechanisms and Mitigation

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Abstract

Electronic waste (e-waste) is an emerging environmental and health concern due to the increasing amount of discarded electronic devices worldwide. E-waste contains various hazardous substances, including heavy metals and organic pollutants, that pose significant neurotoxic risks. This article explores the mechanisms through which e-waste contributes to neurotoxicity, outlines the potential health implications, and discusses mitigation strategies to reduce exposure and enhance public health.

ea.; M., a., ., a.e.e

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E-/ a.e., a, ... ca., ... ce. ea C. ea, ,... c. d. ead, e c, / .c a e y. / ... e/e. e ... / .c e ec, / e e. ea ca acc. ... a.e. ... e b.a. a dd, ... e ... a ... e e a ... e a

- / /, ...: Hea C e.a. ca e e a.e eac., e. / C e ec e (ROS), ead. ... / da., e da a e... e... a ce / ... ce, ca ... a e a... (... a ed ce dea) a d c ... b .e ... e ... de e e a... ed ea e.
- A 1111 A 1111 : E/. _ e. ea C. ea ca ac. a.e. c. a, e. _ e ce . a e. _ y C.e., e_ c. ... c. a a... ... e ... a a... y C.e., e. a... ca.ed / ... a e ... ca d... de , ... c. d. A ... e. e. a d Pa d. ea e [2].

E-/ a.e a, c..a, a..., a c....a, ., ...c d. a e e a da e a da e a da e ...a c...e d c...e a d. e ...a ...c.e ...a

e-/ a.e ca c e e e e / e ... a ... , a ec... b a de e ... e . a d ... ca ead ... ca de e... e . de e ... ca ead ... ca ... de e... e ... de e... e ... de e... ca ead ...

I ... e e-/ a e d ... a ca ead ... c b a c .. a .. a..., / .c . aCa .. b .e .. e ... / .c .. C Pa ... e ... c .. be ca ... d ce ... a ... a d ... e ac ./ ... e ... e .a . / ..., e ace ba e ... e ... / .c e cc [3].

e, e, ., ., /, c e ec, ., e-/ a, e e/ ., _ . e ca ., a ., e, ... , a ... , ea. . ., _ e, ... , d . :

- ... e-/ a.e. aCe/ .b. / e IQ e e, , ea. ... d, ab. ... e, a d a.e. ... de c. ...
- ea C. e.a, a d. a, c., a, a, ... ed., a, ... c, ea, ed., ... de, e, ... e ... de e, a, e, de e, ea, e, de e, ea, e, e.

T. add e, . e . e . . . / . c . . . , a . . c a ed / . e -/ a . e, . e e a . . . a a e . e . ca be . . . e e . ed:

De e, ... , a e a d e c e, .. ec. d ... c. c a e ... d ... c. c a e ... e ... c de:

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I e e ... , ... e ... , ... e a d. e-/ a .e . a a e e ... e e . a ec _ b .c ea . :

- - /.. ; /...: G. e... e... . d e ac a/.. a e ...ce ... e d ... a a d ecc. ... e ec....c de .ce, e a a a d ... a e a a e . a a e ... b C[4].

O. ... ea. a d e ea c a e, ..a . . de ..a d. e e. . -e ac. . e-/ a .e e/ ... e:

- ec a ..., e-/ a e. e ..., c. Cca ead. e de e. e ... a e ed. e, e ..., a d. e a e e... a ec ed. d. d a...

E a.. c...e a eced bCe-/a.e., e, e...a ... e ec., e a...:

- a d_____e. ce __c ____e ___ed. e-/ a.e ecCc. ca e____ea d____e ea d.____eea. __c e [6,7].

4 . 1 / 11 . 11 1 .

 $F = \{e_1, e_2, e_3, c_4, \dots, e_{12}, \dots, e_{$

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References

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