CLAIMS

~~1. A medicine for a human or a non-human animal, comprising a combination of a general anesthetic and hydrogen, the medicine being used for prevention and/or alleviation of an anesthetic-induced neurological deficit.~~

~~2. A medicine for general anesthesia of a human or a non-human animal, characterized in that a general anesthetic and hydrogen are administered in combination and that the medicine is used for prevention and/or alleviation of an anesthetic-induced neurological deficit.~~

~~3. The medicine according to claim 1, wherein the anesthetic-induced neurological deficit is associated with neuronal apoptosis.~~

~~4. A medicine for prevention and/or alleviation of an anesthetic-induced neurological deficit, comprising a general anesthetic, the general anesthetic being used in combination with hydrogen.~~

~~5. The medicine according to any one of claims 1 to 4, wherein the general anesthetic is an inhalational anesthetic or a liquid intravenous anesthetic and the hydrogen is hydrogen gas.~~

~~6. The medicine according to claim 5, wherein the concentration of the hydrogen gas in the medicine is 0.15 to 7% (v/v).~~

~~7. The medicine according to any one of claims 1 to 6, wherein the medicine is for a fetus, a neonate, an infant, a preschool child, a child or an elderly adult.~~

~~8. The medicine according to any one of claims 1 to 7, wherein the general anesthetic is one or more kinds of anesthetics selected from the group consisting of nitrous oxide, isoflurane, enflurane, methoxyflurane, sevoflurane, desflurane, diethyl ether, propofol and midazolam.~~

~~9. The medicine according to any one of claims 1, 2, and 4 to 8, wherein the anesthetic-induced neurological deficit is a neuromotor deficit, a neurocognitive deficit, a psychocognitive deficit or autism.~~

~~10~~. A method for preparing a medicine for prevention and/or alleviation of an anesthetic-induced neurological deficit, the method using a general anesthetic in combination with hydrogen.

~~11~~2. The method according to claim ~~10~~, wherein the anesthetic-induced neurological deficit is associated with neuronal apoptosis.

~~12~~3. The method according to claim ~~10~~ or ~~11~~ 2, wherein the general anesthetic is an inhalational anesthetic or a liquid intravenous anesthetic and the hydrogen is hydrogen gas.

~~13~~4. The method according to claim ~~12~~ 3, wherein the concentration of the hydrogen gas in the medicine is 0.15 to

7% (v/v).

~~14~~5. The method according to any one of claims 1~~0~~ to ~~13~~ 4, wherein the medicine is for a fetus, a neonate, an infant, a preschool child, a child or an elderly adult.

~~15~~6. Use of a general anesthetic and hydrogen for production of a medicine for prevention and/or alleviation of an anesthetic-induced neurological deficit, the medicine comprising a combination of a general anesthetic and hydrogen.

~~16~~7. Use of a general anesthetic and hydrogen for production of a medicine for prevention and/or alleviation of an anesthetic-induced neurological deficit.

~~17~~8. The use according to claim ~~16~~ 7, wherein the anesthetic-induced neurological deficit is associated with neuronal apoptosis.

~~18~~9. The use according to claim ~~15~~6 or ~~16~~ 7, wherein the general anesthetic is an inhalational anesthetic or a liquid intravenous anesthetic and the hydrogen is hydrogen gas.

~~19~~10. The use according to claim ~~18~~ 9, wherein the concentration of the hydrogen gas in the medicine is 0.15 to 7% (v/v).

~~20~~11. The use according to claim ~~15~~6 or ~~16~~ 7, wherein the use is for a fetus, a neonate, an infant, a preschool child, a child or an elderly adult.

~~21~~12. The use according to claim ~~15~~6 or ~~16~~ 7, wherein the general anesthetic is one or more kinds of anesthetics selected from the group consisting of nitrous oxide, isoflurane, enflurane, methoxyflurane, sevoflurane, desflurane, diethyl ether, propofol and midazolam.

~~22~~13. The use according to claim ~~16~~ 7, wherein the anesthetic-induced neurological deficit is a neuromotor deficit, a neurocognitive deficit, a psychocognitive deficit or autism.