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RESEARCH ARTICLE

Effects of infusion of human methemoglobin solution following hydrogen sulfide poisoning

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Rationale. We have recently reported that infusion of a solution containing methemoglobin (MetHb) during exposure to hydrogen sulfide results in a rapid and large decrease in the concentration of the pool of soluble/diffusible H₂S in the blood. However, since the pool of dissolved H₂S disappears very quickly after H₂S exposure, it is unclear if the ability of MetHb to "trap" sulfide in the blood has any clinical interest and relevance in the treatment of sulfide poisoning. **Methods.** In anesthetized rats, repetition of short bouts of high level of H₂S infusions was applied to allow the rapid development of an oxygen deficit. A solution containing MetHb (600 mg/kg) or its vehicle was administered 1 min and a half after the end of H₂S intoxication. **Results.** The injection of MetHb solution increased methemoglobinemia to about 6%, almost instantly, but was unable to affect the blood concentration of soluble H₂S, which had already vanished at the time of infusion, or to increase combined H₂S. In addition, H₂S-induced O₂ deficit and lactate production as well as the recovery of carotid blood flow and blood pressure were similar in treated and control animals. **Conclusion.** Our results do not support the view that administration of MetHb or drugs-induced methemoglobinemia during the recovery phase following severe H₂S intoxication in sedated rats can restore cellular oxidative metabolism, as the pool of diffusible sulfide, accessible to MetHb, disappears rapidly from the blood after H₂S exposure.

Keywords
 H₂S toxicity, Metallo-compound, Methemoglobin, Rat model

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