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Rubicon Research Repository > Search Rubicon Rubicon Foundation Archive > Go Undersea Biomedical Research Journal > Advanced Search Please use this identifier to cite or link to this item: 🕑 <u>Home</u> http://archive.rubicon-foundation.org/2528 Title: Neuropsychologic effects of saturation diving Browse Authors: Vaernes, RJ **Communities** (->) Klove, H & Collections Ellertsen, B 🥑 Titles Keywords: saturation (->) **Authors** air 🤒 By Date Neuropsychologic Issue Date: 1989 Abstract: Neuropsychologic status of saturation divers was Sign on to: assessed before and after 300-500 msw dives (deep saturation diving--DSD group) and before updates and after 3.5 yr of ordinary saturation diving My Rubicon (->) (saturation diving--SD group). Average baseline authorized users results showed the divers to be slightly superior 🥺 Edit Profile to nondiving controls. Mild-to-moderate neuropsychologic changes (greater than 10%) impairment) were found in measures of tremor, 🕑 <u>Help</u> spatial memory, vigilance, and automatic reactivity in 20% of the divers after deep dives (DSD group). One year postdive no recovery was observed except for a vigilance test. In the SD group, 20% of the divers showed greater than 10% impairment after 3.5 yr of ordinary saturation diving. Significant reduction in autonomic reactivity was also found and there was a relationship between low autonomic reactivity before saturation diving and number of greater than 10% impairments. For the whole group (DSD + SD divers), negative correlations were found between saturation experience and results on memory and complex visuomotor tests. Years of diving from first to last examination was positively correlated with number of greater than 10% impairments and with reduction in autonomic reactivity. No similar correlations were found to dive variables after about 3 yr of air diving. The mild-to-moderate changes seen in some divers, therefore, seem to be the effects of saturation diving. Since one deep dive may cause an effect similar to the effect of 3.5 yr of ordinary saturation diving, there is reason to believe that

repeated deep diving may lead to more

pronounced neuropsychologic impairment.
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