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Title: The theory of high-altitude corrections to the U.S. Navy standard decompression tables. The cross corrections

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Abstract: The theoretical basis for the Cross high-altitude corrections to the USN Standard Decompression Tables is derived. Providing corrections are made for depth and ascent rate and if no decompression stops are made, a dive at altitude can be transformed to a dive at sea level for which the theoretical tissue responses are mathematically similar to the altitude dive. The transformation fails if decompression stops are required due to the fact that the stop criteria used in the USN Tables do not obey the same rule of transformation. It is shown that the failure of the high-altitude correction is expected to be conservative. Air *Altitude Decompression/*methods *Diving Human Models, Biological Partial Pressure Pressure/*methods Time Factors

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