The effects of different matched color in enclosed cabins on the fine manual operation of the crew

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[Abstract] Purpose: The fine manual operation ability was measured under different matched color of cabin, in order to provide useful data support for the enclosed and confined cabin color design. Method: Repeated measurement methods were employed to collect experimental data. 6 matched color cabins were desinged and 10 subjects were exposed for 21 days in each color matched cabin. 10 subjects have a 5days rest between different color scheme. The arm stability and finger dexterity of the subjects’ were measured in every other 3 days. Result: 3 matched color of the cabins are beneficial to the finger dexterity, but the arm stability is not of significant different under 6 matched color of the cabins. The crew’s fine manual operation was changed in different time of 21 days. Conclusion: The color of the the enclosed and confined cabin can affect the fine manual operation of the subjects. It’s important to match the appropriate color of the enclosed and confined cabin for the improvement of manual operation of the crew. Key words: color match , enclosed and confined cabin, fine manual operation