Three Cleaning Methods on Cleaning Brushes for Medical Instruments: A Comparison of Their Decontamination Effect

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【Abstract】Objective To explore the decontamination effect of different cleaning methods on cleaning brushes for medical instruments, and to provide reference for the terminal cleaning of cleaning tools in the Central Sterile Supply Department. Methods Three groups (with 30 in each group) were established according to the different methods of cleaning: conventional cleaning, standard cleaning and standard cleaning plus ultrasonic cleaning. After washing, the RLU values were determined by the ATP bioluminescence method, and the SPSS 22.0 software was used to analyze the variance among these methods. Results There was a huge difference between the conventional cleaning group and the other groups (p<0.05). The difference between the standard cleaning group and the standard cleaning plus ultrasonic cleaning group was statistically significant (p<0.05). The change before and after the standard cleaning plus ultrasonic cleaning group was the largest, 1207.03 ± 473.23, compared with the conventional cleaning group, the difference was statistically significant (p<0.05). Conclusion Standard cleaning and ultrasonic cleaning with auxiliary cleaning have a good cleaning effect on medical cleaning brushes. The standard cleaning plus ultrasonic cleaning was obviously better than the conventional cleaning.

【Key words】cleaning; cleaning brush; ATP bio-fluorescence method;