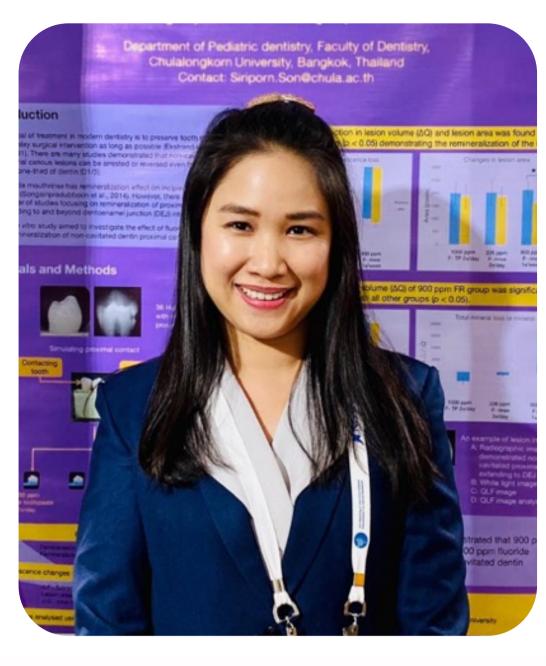


Effect of drinking water after fluoride varnish application on saliva fluoride level

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INTRODUCTION

Fluoride varnish have been widely used in dental clinics especially for pediatric patients. The action of fluoride varnish is slowly releasing fluoride ions into the underlying tooth surfaces and the oral cavity. Fluoride varnish was proved to be safe and effective in preventing dental caries.

However, the post-application information of fluoride varnish is still insufficient.

The post-application instructions in guidelines / recommendations from various

dental organizations are varied.

OBJECTIVE

To investigate the effect

water drinking after

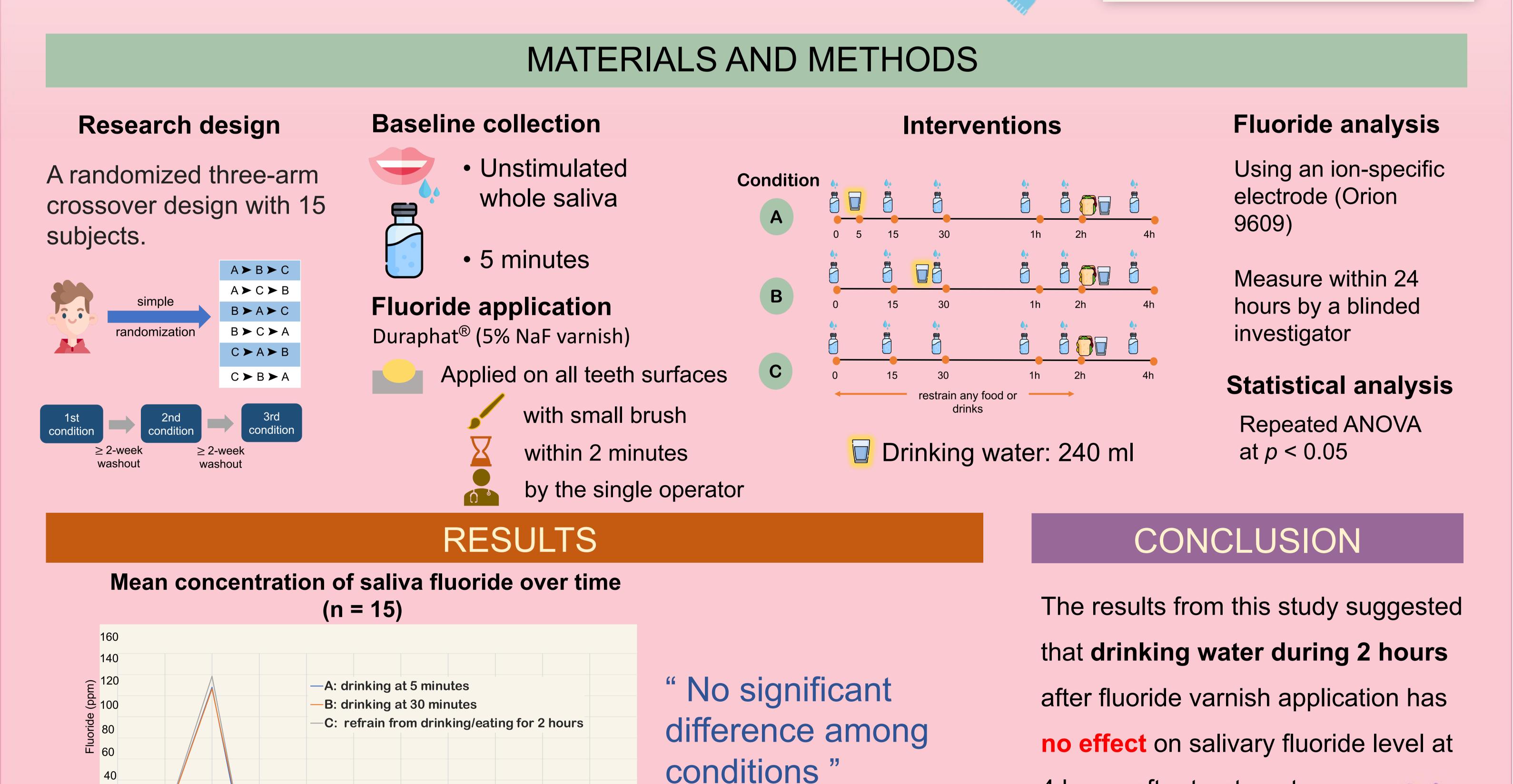
fluoride varnish

application on

the fluoride

retention in the whole

saliva.



4 hours after treatment AA



Time (hour)

Area under curve of fluoride concentration at each time point (n = 15)

| | Time | | | | |
|-----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|
| Condition | 15 min | 30 min | 1 hour | 2 hours | 4 hours |
| A (at 5 min) | 66.98 ± 28.97 ^A | 79.92 ± 35.07 ^B | 98.82 ± 45.66 ^C | 123.38 ± 56.77 ^D | 147.33 ± 66.45 ^E |
| B (at 30 min) | 68.76 ± 35.54 ^A | 82.80 ± 43.68 ^B | 101.58 ± 55.32 ^C | 136.36 ± 81.61 ^D | 171.61 ± 109.78 ^E |
| C (after 2 hours) | 74.61 ± 39.59 ^A | 91.49 ± 46.05 ^B | 115.78 ± 55.89 ^C | 149.89 ± 72.13 ^D | 181.74 ± 88.02 ^E |
| p-value | 0.660 | 0.489 | 0.305 | 0.199 | 0.154 |

Values with the same superscription letters in each row were defined as not significantly different at p<0.05.

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