Supporting Information

Topical effect of benzalkonium bromide on wound healing and potential cellular and molecular mechanisms

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This material includes:

**Figure S1** IC25, IC50 and IC75 of PVP-I, BB and CHG.

**Figure S2** Photographs of skin severely corroded after irrigatation with undiluted BB.

**Figure S3** Fluorescence images flow cytometry of cells treated with NS after H2DCFDA probe staining.

| Antiseptics | IC75 (95% Confidence Limits) | IC50 (95% Confidence Limits) | IC25 (95% Confidence Limits) | R square |
|-------------|-----------------------------|-----------------------------|-----------------------------|----------|
| PVP-I (g/L) | 0.012133 (0.010660-0.014579) | 0.008712 (0.007682-0.009845) | 0.006255 (0.005148-0.007151) | 0.9600 |
| BB (g/L)    | 0.009092 (0.007093-0.012557) | 0.004161 (0.003366-0.005195) | 0.001904 (0.001435-0.002392) | 0.9727 |
| CHG (% w/v) | 0.001952 (0.001598-0.002512) | 0.001001 (0.000835-0.001201) | 0.000514 (0.000399-0.000628) | 0.9670 |

**Figure S1** IC25, IC50 and IC75 of PVP-I, BB and CHG
Figure S2 Photographs of skin severely corroded after irrigation with undiluted BB

Figure S3 Fluorescence images flow cytometry of cells treated with NS after H2DCFDA probe staining