

Potential Role of Oral Rinses Targeting the Viral Lipid Envelope in SARS-CoV-2 Infection

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100

3,4 D
5
6 12
A-C -2A
(E C)
13,14
6 12 A

(C -229E)
15 17

... B ...
...
... B ...
... / ... (... 1).

**Low Concentrations of Ethanol Cause Swelling,
Interdigitation, and Leakage in Model Membranes**

B ... 1980 ... 1990 ...
... (...) ...

Table 1.

Reference	Study Design / Population	Exposure	Outcome
39	Case-control study of influenza A virus infection	Exposure >3.4 (20%)	...
40	Family study of interdigitated influenza A virus	Exposure 2 (11.8%)	...
41	Case-control study of influenza A virus infection	Exposure 86 (0.5%)	...
42, 44	Case-control study of influenza A virus infection	0.6, 2.1 (3.5%, 12.3%, /)	...
45	Case-control study of influenza A virus infection	26.9% exposure (:)	...
AD 2010	Case-control study of influenza A virus infection	21.6% exposure, 30-	>99.99%
46	Case-control study of influenza A virus infection	20% (:) exposure	...
47	Case-control study of influenza A virus infection	30- exposure, 34% (:)	...
48	Case-control study of influenza A virus infection	20% exposure; 30-	40% ...
49	Case-control study of influenza A virus infection	1 (5.9% :) exposure	A ... 10%
50	Case-control study of influenza A virus infection	3, 4 (18%, 23.5%)	...
51, 52	Case-control study of influenza A virus infection	Exposure >5% 10%:	...
53	Case-control study of influenza A virus infection	60	...
54	Case-control study of influenza A virus infection	21.6% exposure, 30-	0 ... 11/20 ... 0
54	Case-control study of influenza A virus infection	21.6% exposure, 30-	0 ... 12/20 ... 18/20 ... 60
(, ...)	Case-control study of influenza A virus infection	60% exposure, 70% exposure	>99.99%

...

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Membrane Perturbation Without Lysis can Dampen Enveloped Virus Infectivity

...

Mouthwash Preparations that Show Activity Against Enveloped Viruses in Published Studies

1. [Chlorhexidine gluconate](#) (0.12%) mouthwash shows activity against enveloped viruses like herpes simplex virus (HSV-1) and influenza A virus.

2. [Benzalkonium chloride](#) (0.001%) mouthwash shows activity against enveloped viruses like HSV-1 and influenza A virus.

3. [Benzalkonium chloride](#) (0.001%) mouthwash shows activity against enveloped viruses like HSV-1 and influenza A virus.

Chlorinated Water or Hypertonic Saline Rinsing

Underpinning

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