Plumb, I.D., Dobson, J., Seeman, S., Bruce, M.G., Reasonover, A., Lefferts, B., Rudolph, K.M., Klejka, J., & Hennessy, T.W. (2021). Acceptibility of household practices to prevent boils in rural Alaska. *Journal of Environmental Health*, 84(1), 26–34.

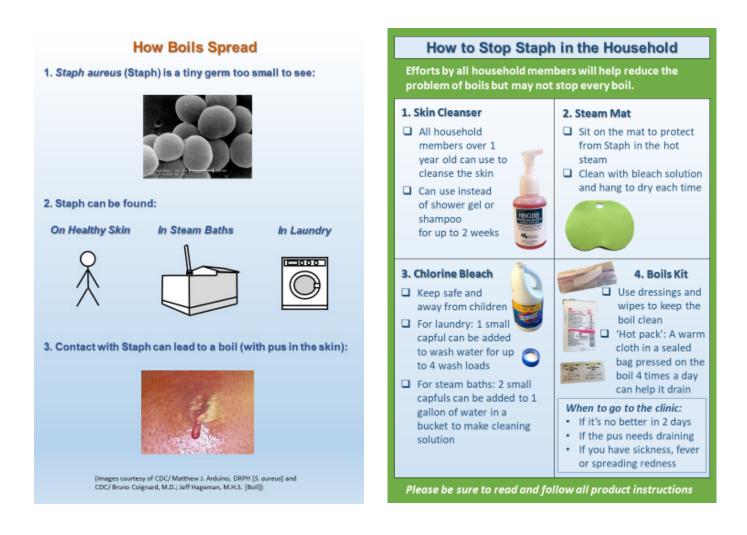
Corresponding Author: Michael G. Bruce, Arctic Investigation Program, Centers for Disease Control and Prevention, 4055 Tudor Center Drive, Anchorage, AK 99508. Email: zwa8@cdc.gov.

Note. This supplemental file was submitted by the authors along with the respective peer-reviewed article and has been posted online due to space limitations at https://www.neha.org/jeh/supplemental. The *Journal of Environmental Health* did not copy edit this file, nor was the file peer reviewed. The authors have provided this supplemental file as extra resources should the reader want more information.

Acceptability of Household Practices to Prevent Boils in Rural Alaska

Supplement 2

Figure S1: Educational materials supporting boils prevention practices and distribution of household kits in a remote Alaska Native community—Alaska, 2016



<u>Table S1: Characteristics of households in a remote Alaska Native community that were surveyed before and after distribution of intervention compared to households only surveyed once—Alaska, 2016</u>

Characteristic	Households surveyed both in baseline and follow up surveys (57 households, 342 members)	Households surveyed only once* (21 households† included in follow up survey, 99 members)	p-value comparison
Household size (median, range)	6 (1,14)	5 (1, 9)	0.091
Age of household members			
<5 years	25 (44%)	8 (38%)	0.648
5 to 15 years	41 (72%)	8 (38%)	0.007
16 to 45 years	54 (95%)	10 (48%)	< 0.001
46 to 65 years	37 (65%)	5 (24%)	0.001
>65 years	13 (23%)	2 (10%)	0.331
Age of interviewee in years (median, range)	52 (21, 84)	39 (23, 79)	0.064
Interviewee female	38 (67%)	13 (62%)	0.695
Household owns steam bath	36 (63%)	4 (19%)	< 0.001
Use of own steam bath per week (median, range)	3 (0,7)	4 (3, 4)	0.483
Use of personal washer for laundry within 2 weeks‡	49 (86%)	12 (57%)	0.012

^{*80} household intervention packs were distributed, including 65 (92%) households included in the baseline survey and 62 (97%) households in the follow up survey. †57 households were included in both baseline and follow up surveys. ‡Use of a personal washer may include use of a washer in another household.

<u>Table S2: Household practices in a remote Alaska Native community before and after distribution of intervention packs to prevent boils (if all participating households included) —Alaska, 2016</u>

Practice within household	Before intervention (N=71)	After intervention (N=64)	P-value
Use of bleach to clean steam bath ≥once per week (if own steam)	27/40 (68%)	33/41 (80%)	0.182
Use of any seat barrier in steam bath	49 (69%)	56 (88%)*	0.010
Sharing of scrubbers for steam bath†	18 (25%)	12 (19%)	0.401
Use of antiseptic scrub in the steam bath	-	16/64 (25%)	-
Use of ≥1 capful of chlorine bleach in personal laundry	25 (35%) ‡	28 (44%) ‡	0.310
Use of hand sanitizer	21 (30%)	40 (63%)	< 0.001

^{*}Including 48 (75%) households who tried newly provided foam seat pad. †After the intervention, 55 (86%) households included members who used the new scrubber. ‡ Including 5 of 11 households without use of a high temperature dryer before the intervention, and 5 of 9 households without use of a high temperature dryer after the intervention.

<u>Table S3: Reasons given for following or not following practices to prevent boils in a remote</u>

<u>Alaska Native community (if all participating households included)—Alaska, 2016</u>

Household practice	Reasons given for following practice* (No. responses)	Reasons given for <i>not</i> following practice* (No. responses)
Cleaning steam bath with bleach	 Keep the steam bath clean (14) Disinfect the steam bath (9) Helps to prevent boils (9) 	- Not enough time (4) - Not necessary (3)
Use of a solid mat in steam bath	 Comfortable to use (4) Hygienic (3) Helps prevent boils (3) 	 Not available (7) Do not like the experience (6) Tradition or habit of not using (6) Not necessary (4) Would increase risk of boils (3) Uncomfortable to use (3) Cleaning other mat easier (2) Not suitable (2)
Use of distributed foam mat in steam bath	 Something new to try (32) Comfortable or liked to use (7) Recommendation from others (2) Prevent boils (2) 	 Too slippery (14) Forgot to try it (5) Uncomfortable when hot (3) Unnecessary (2) Not durable enough (2) Prefer other mats (2)
Use of separate scrubbers	For keeping clean (20)To avoid cross-contamination (2)Tradition or habit (2)	Not available (2)Shared with close family member (2)
Use of new scrubbers	Replace old scrubber (21)Scrubber was new (20)Try something new (3)	Existing scrubber does not need replacing (11)Did not find it (3)
Antiseptic skin cleanser	- Wanted to try it (7)	 Unfamiliar with product (15) Forgot to use, or not tried yet (8) Concern if risk of skin reaction (6) Unnecessary (7)
Adding chlorine bleach to laundry	Better laundry cleaning (7)Disinfection of laundry (15)Tradition or habit (2)	Discoloration of clothes (4)Unfamiliarity with practice (3)

^{*}Responses were categorized by reason given and included if ≥1 response with a particular reason.