

# Supplementary Materials: Personal Care Product Use in Pregnancy and the Postpartum Period: Implications for Exposure Assessment

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**Table S1.** Unique PCP co-use combinations for participants during the weekday 48 h time period (T1A). 62 of the 63 participants reported PCP co-use (use of more than 1 PCP in a 48 h time period). There were 56 unique co-use combinations for the 62 participants.

PCP Combination	No. Users	% Users
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, hair, skinclea, lip	3	4.8
anti, oral, condit, shampoo, bodysoap, face, lotion, skinclea	2	3.2
anti, oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, lotion, hair, skinclea	2	3.2
anti, oral, condit, shampoo, bodysoap, soap, face, skinclea	2	3.2
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, skinclea, lip	2	3.2
bodysoap, soap	1	1.6
oral, makeup, eyemakeup, skinclea	1	1.6
oral, bodysoap	1	1.6
oral, shampoo, soap, skinclea	1	1.6
oral, shampoo, bodysoap	1	1.6
oral, shampoo, bodysoap, eyemakeup, face, skinclea, lip	1	1.6
oral, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, skinclea	1	1.6
oral, condit, shampoo	1	1.6
oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, lotion, hair, skinclea, lip	1	1.6
oral, condit, shampoo, bodysoap, soap, lip	1	1.6
oral, condit, shampoo, bodysoap, soap, lotion, hair, skinclea	1	1.6
oral, condit, shampoo, bodysoap, soap, eyemakeup, face, lotion, skinclea	1	1.6
oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, hair	1	1.6
oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, skinclea	1	1.6
anti, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, hair	1	1.6
anti, oral, eyemakeup, makeup, lotion	1	1.6
anti, oral, soap, face, lotion, hair	1	1.6
anti, oral, soap, makeup, face, lotion, skinclea	1	1.6
anti, oral, bodysoap, soap, eyemakeup, makeup, face, lotion, hair, lip	1	1.6
anti, oral, shampoo, bodysoap, face, skinclea	1	1.6
anti, oral, shampoo, bodysoap, soap	1	1.6
anti, oral, shampoo, bodysoap, soap, skinclea	1	1.6
anti, oral, shampoo, bodysoap, soap, hair	1	1.6
anti, oral, shampoo, bodysoap, soap, lotion, skinclea	1	1.6
anti, oral, shampoo, bodysoap, soap, face	1	1.6
anti, oral, condit, shampoo, bodysoap, face, lotion, hair	1	1.6

Table S1. Cont.

PCP Combination	No. Users	% Users
anti, oral, condit, shampoo, bodysoap, face, lotion, hair, skinlea, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, makeup, face, lotion	1	1.6
anti, oral, condit, shampoo, bodysoap, eyemakeup, face, lotion	1	1.6
anti, oral, condit, shampoo, bodysoap, eyemakeup, face, lotion, skinlea, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, lotion, hair, skinlea, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, skinlea	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, lotion, skinlea	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, face, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, face, hair	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, face, lotion	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, face, lotion, skinlea	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, face, lotion, hair, skinlea	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, makeup, face, skinlea	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, makeup, face, lotion, hair	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, makeup, face, lotion, skinlea, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, face, lotion, hair, skinlea	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, hair, skinlea	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, lotion, hair	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, lotion, hair, skinlea, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, hair, lip	1	1.6
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, hair, skinlea	1	1.6

**Table S2.** Unique PCP co-use combinations for participants during the weekend 48 h time period (T1B). 66 of the 67 participants reported PCP co-use (use of more than 1 PCP in a 48 h period). There were 62 unique co-use combinations for the 66 participants.

PCP Combination	No. Users	% Users
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, hair, skinlea, lip	3	4.5
anti, oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, lotion, hair, skinlea	2	3.0
oral, shampoo, bodysoap, soap	2	3.0
shampoo, bodysoap, lotion	1	1.5
condit, shampoo, bodysoap, eyemakeup, makeup, lotion, skinlea, lip	1	1.5
oral, face, lip	1	1.5
oral, eyemakeup, makeup, face, lotion, lip	1	1.5
oral, soap, face, lotion	1	1.5
oral, bodysoap, face, lotion, skinlea	1	1.5
oral, bodysoap, soap, eyemakeup, makeup, lotion, lip	1	1.5
oral, shampoo, eyemakeup, makeup, lotion, lip	1	1.5
oral, shampoo, soap, eyemakeup, makeup, face, lotion, hair, skinlea	1	1.5
oral, shampoo, bodysoap, face, lotion, hair, lip	1	1.5
oral, shampoo, bodysoap, soap, face, lotion, skinlea	1	1.5
oral, shampoo, bodysoap, soap, face, lotion, hair, skinlea	1	1.5
oral, condit, shampoo, eyemakeup, makeup, hair, skinlea	1	1.5
oral, condit, shampoo, eyemakeup, makeup, lotion, hair, skinlea	1	1.5
oral, condit, shampoo, soap, face, lotion, skinlea, lip	1	1.5
oral, condit, shampoo, soap, eyemakeup, lotion, lip	1	1.5
oral, condit, shampoo, bodysoap, makeup, face	1	1.5
oral, condit, shampoo, bodysoap, eyemakeup, lotion, lip	1	1.5
oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, skinlea, lip	1	1.5
oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, lotion, hair, skinlea	1	1.5
oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, lotion, hair, skinlea, lip	1	1.5
oral, condit, shampoo, bodysoap, soap, lotion, skinlea	1	1.5
oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, skinlea	1	1.5
anti, shampoo, bodysoap, soap, eyemakeup, face, lotion, hair, skinlea	1	1.5
anti, oral, soap, lotion, skinlea	1	1.5
anti, oral, soap, lotion, hair, skinlea	1	1.5
anti, oral, soap, face, lotion	1	1.5
anti, oral, bodysoap	1	1.5
anti, oral, bodysoap, soap	1	1.5
anti, oral, shampoo, bodysoap, soap, lotion	1	1.5
anti, oral, shampoo, bodysoap, soap, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, hair, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, face, lotion	1	1.5
anti, oral, condit, shampoo, bodysoap, face, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, face, lotion, hair, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, face, lotion, hair, skinlea	1	1.5

Table S2. Cont.

PCP Combination	No. Users	% Users
anti, oral, condit, shampoo, bodysoap, makeup, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, eyemakeup, face, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, eyemakeup, makeup, lotion, skinlea, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, hair, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, eyemakeup, makeup, face, lotion	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, hair	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, lotion	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, face	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, face, lotion	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, face, lotion, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, face, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, makeup, lotion, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, makeup, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, makeup, face, lotion, skinlea, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, makeup, face, lotion, hair	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, makeup, face, lotion, hair, skinlea, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, face, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, lotion, skinlea, lip	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, skinlea	1	1.5
anti, oral, condit, shampoo, bodysoap, soap, eyemakeup, makeup, face, lotion, hair, skinlea	1	1.5

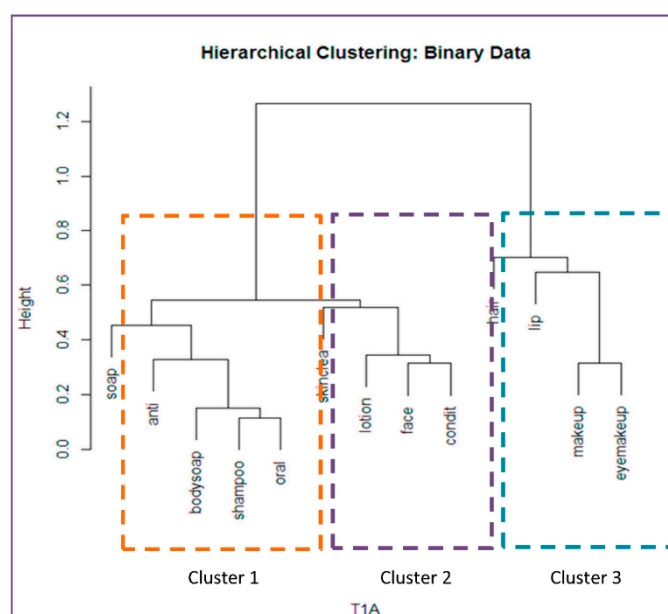
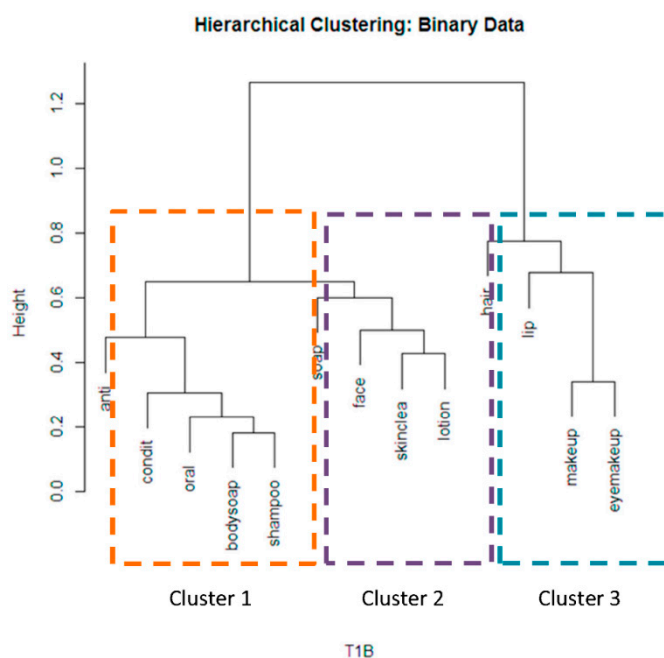


Figure S1. Dendrogram representing hierarchical clustering from study time period T1A weekday (48 h, weekdays, n = 63).



**Figure S2.** Dendrogram representing hierarchial clustering from study time period T1B weekend (48 h, weekend,  $n = 67$ ).

### Abbreviations/Definitions

PCP: personal care product

T1A: first trimester study period, weekday

T1B: first trimester study period, weekend

makeup: general makeup and cosmetics

lip: lip products

eyemakeup: eye makeup and cosmetics

hair: hairstyling products

condit: conditioner

bodysoap: body soaps

skincea: facial soaps, cleansers and washes

oral: toothpaste and mouthwash

soap: hand soaps, sanitizers and soap not otherwise specified

anti: deodorant and antiperspirants

lotion: body lotions, creams and oils

face: face lotions and creams



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