

**The Pregnant Smoker Stigma Scale - Public Stigma (P3S-PS):
Development and Validation in General French Population**

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Supplementary Material 1. Themes.

Dimensions		
Cognitions	Emotions	Behaviors
Irresponsible	Anger	Inform & Persuade
Thoughtless & Unmindful	Disgust	Moralize & Blame
Selfish	Sadness & Pity	Judge & Disapprove
Immoral	Incomprehension	Criticize & Reproach
Neglectful	Shock	Reprimand & Aggress
Dangerous	Disregard	Support & Understand
Bad Mother	Fear & Worries	No Reaction
Addicted	Discomfort	Avoid & Reject
Stupid		

Note. Themes are derived from a previous study including 100 French adults recruited online and asked about what “most people” think, feel and do when facing a pregnant woman who smoke ([Loyal et al., 2021](#))

Supplementary Material 2. Items Assessing Rejection, Moral Condemnation and Support for Punitive Actions Toward Smokers

Voici plusieurs phrases. Veuillez indiquer si vous êtes d'accord ou en désaccord avec ces phrases. Il n'y a pas de bonne ou de mauvaise réponse. Veuillez répondre le plus sincèrement et le plus spontanément possible.

Here are several sentences. Please indicate whether you agree or disagree with these sentences. There is no right or wrong answer. Please answer as truthfully and spontaneously as possible.

Rejet et Condamnation Morale (Pas du tout, Plutôt pas, Plutôt, Tout à fait)	Rejection and Moral Condemnation (Not at all, Somewhat no, Somewhat yes, Very much so)
Pensez-vous que les fumeurs se soucient assez de la santé des personnes qui respirent leur fumée ? *	<i>Do you think smokers care enough about the health of the people who breathe their smoke?</i>
Pensez-vous que les fumeurs sont un mauvais exemple pour la jeunesse ?	<i>Do you think smokers are a bad example for young people?</i>
Accepteriez-vous d'avoir un rendez-vous amoureux avec une personne qui fume ? *	<i>Would you be willing to go on a date with someone who smokes?</i>
Pensez-vous que fumer est un échec personnel ?	<i>Do you think smoking is a personal failure?</i>
Engageriez-vous une personne qui fume pour s'occuper de vos enfants ? *	<i>Would you hire someone who smokes to take care of your children?</i>
Soutien à des Mesures Punitives contre les Fumeurs (Pas du tout d'accord, Pas d'accord, Neutre, D'accord, Tout à fait d'accord)	Support for Punitive Actions Toward Smokers (Strongly disagree, Disagree, Neutral, Agree, Strongly agree)
Les professionnels de santé devraient avoir le droit de refuser des soins médicaux coûteux aux personnes qui continuent à fumer	<i>Health care professionals should have the right to refuse expensive medical care to people who continue to smoke</i>
Les fumeurs devraient être obligés de révéler qu'ils fument quand ils postulent à un emploi	<i>Smokers should be required to disclose that they smoke when applying for a job</i>
Les fumeurs devraient être obligés de révéler qu'ils fument quand ils louent un logement	<i>Smokers should be required to disclose that they smoke when renting accommodation</i>
Il devrait être interdit de fumer à côté de ses enfants	<i>Smoking should not be allowed around your children</i>
Il devrait être interdit de fumer pendant sa grossesse	<i>Smoking should be banned during pregnancy</i>
Les parents qui fument beaucoup devraient être suivis par les services sociaux	<i>Parents who smoke heavily should be monitored by social services</i>

Note. Item with an asterisk * are reversed.

Supplementary Material 3. The Pregnant Smoker Stigma Scale - Public Stigma (P3S-PS)

Important Note. Please note the scale has been validated in French. The English translation is presented here for comprehension only. Items in grey (10, 13, 18, 22, 28, 32, 33, 34) have been dropped from the final version of the scale. Likert scale range from 1 (*Strongly Disagree*) to 6 (*Strongly Agree*). Item with an asterisk * are reversed.

- Derogative Cognitions: Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and 17.
- Negative Emotions and Behaviors: Items 14, 19, 25, 26, 27, 29, 30 and 31.
- Personal Distress: Items 15, 16, 20 and 21.
- Information Provision: Items 23 and 24.

Nous allons vous présenter plusieurs phrases décrivant des idées, des émotions et des réactions que l'on peut avoir face à une femme enceinte qui fume. Veuillez indiquer si vous êtes d'accord ou en désaccord avec ces phrases. Il n'y a pas de bonne ou de mauvaise réponse. Veuillez répondre le plus sincèrement et le plus spontanément possible. (Pas du tout d'accord, Pas d'accord, Plutôt pas d'accord, Plutôt d'accord, D'accord, Tout à fait d'accord)

We are going to present you with several sentences describing ideas, emotions, and reactions that one might have when facing a pregnant woman who smokes. Please indicate whether you agree or disagree with these sentences. There is no right or wrong answer. Please answer as truthfully and spontaneously as possible. (Strongly disagree, Disagree, Tend to disagree, Tend to agree, Agree, Strongly agree)

JE PENSE QUE...

1. Une femme enceinte qui fume est une irresponsable.
2. Une femme enceinte qui fume est une personne raisonnable *
3. Une femme enceinte qui fume est égoïste
4. Une femme enceinte qui fume est inconsciente
5. Une femme enceinte qui fume se préoccupe de la santé de son bébé *
6. C'est une honte de fumer pendant sa grossesse
7. Une femme enceinte qui fume est digne d'être mère *
8. Une femme enceinte qui fume est quand même une bonne mère *
9. Une femme enceinte qui fume met son bébé en danger
10. Une femme enceinte qui fume à un problème d'addiction

11. Une femme enceinte qui fume est une personne stupide
12. Une femme enceinte qui fume manque de volonté

SI JE VOIS UNE FEMME ENCEINTE QUI FUME...

13. Je ressens de la colère
14. Je ressens du dégout
15. Je ressens de la tristesse pour elle
16. Je ressens de la pitié pour elle
17. Je ressens de l'incompréhension
18. Je suis choqué·e
19. Je ressens du mépris pour elle
20. Je suis mal à l'aise
21. Je suis inquiet·e pour sa santé et celle de son bébé

SI JE CONNAIS UNE FEMME ENCEINTE QUI FUME...

22. Je n'essaye pas de la convaincre d'arrêter de fumer
23. Je lui explique les dangers du tabac

I THINK THAT...

1. A pregnant woman who smokes is irresponsible.
2. A pregnant woman who smokes is a reasonable person *
3. A pregnant woman who smokes is selfish
4. A pregnant woman who smokes is thoughtless
5. A pregnant woman who smokes cares about her baby's health *
6. It's a shame to smoke while pregnant
7. A pregnant woman who smokes is worthy be a mother *
8. A pregnant woman who smokes is still a good mother *
9. A pregnant woman who smokes puts her baby in danger
10. A pregnant woman who smokes has an addiction problem
11. A pregnant woman who smokes is stupid
12. A pregnant woman who smokes lacks willpower

IF I SEE A PREGNANT WOMAN SMOKING...

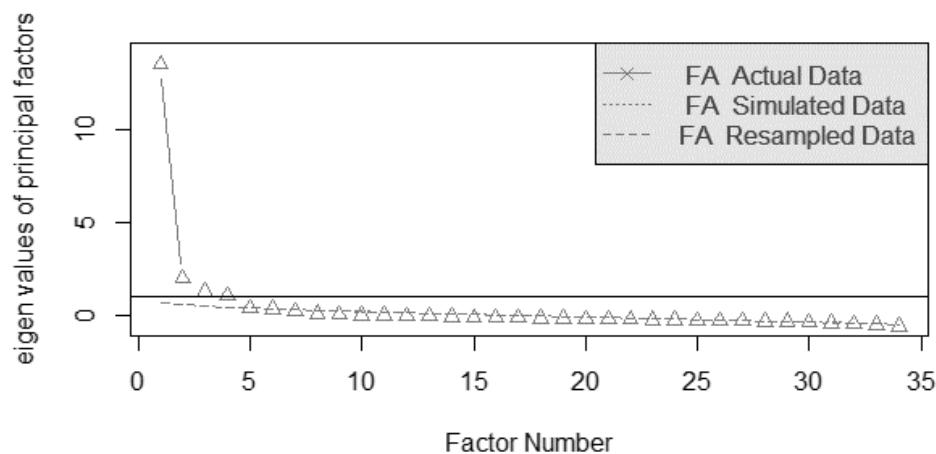
13. I feel anger
14. I feel disgust
15. I feel sad for her
16. I feel pity for her
17. I feel incomprehension
18. I am shocked
19. I feel contempt for her
20. I feel uncomfortable
21. I am worried about her health and the health of her baby

IF I KNOW A PREGNANT WOMAN WHO SMOKES...

22. I don't try to convince her to quit smoking
23. I explain her the risks of smoking

24. Je lui donne des conseils pour arrêter de fumer	<i>24. I give her tips on how to quit smoking</i>
25. Je ne lui fais pas des leçons de morale *	<i>25. I don't lecture her *</i>
26. Je la fais culpabiliser	<i>26. I make her feel guilty</i>
27. Je la juge négativement	<i>27. I judge her negatively</i>
28. Je ne lui fais pas de remarques ou de réflexions	<i>28. I don't make comments or criticisms to her</i>
29. Je lui fais des reproches	<i>29. I reproach her</i>
30. Je reste calme *	<i>30. I remain calm *</i>
31. Je me dispute avec elle	<i>31. I argue with her</i>
32. Je n'ai pas envie de discuter avec elle	<i>32. I don't feel like talking to her</i>
33. Je n'ai pas envie de passer du temps avec elle	<i>33. I don't want to spend time with her</i>
34. J'essaye de la comprendre et de l'aider	<i>34. I try to understand and help her</i>

Supplementary Material 4. Parallel Analysis Scree Plot



Supplementary Material 5. Initial Exploratory Factor Analysis (N=342, Unweighted Least Square, Oblimin Rotation)

Item	Abbreviated Content	DC	NEB	PD	IP	h2	Possible Interpretation
1	Irresponsible	.88	-.02	-.02	.08	.76	
2	Reasonable person *	.75	-.04	-.03	.00	.51	
3	Selfish	.88	-.02	-.06	.03	.72	
4	Thoughtless	.79	.00	.04	.06	.67	
5	Cares about baby's health *	.62	.03	-.09	.06	.38	
6	It's a shame	.71	.10	.07	-.06	.66	
7	Worthy of being a mother *	.57	.30	-.11	-.12	.59	
8	Good mother *	.60	.22	-.11	-.04	.53	
9	Puts her baby in danger	.68	-.18	.20	.06	.47	
10	Addiction problem ^{LL+CL}	.29	-.34	.28	.14	.19	People with addiction trigger both DC and PD but it may seem useless to pressure them (NEB)
11	Stupid	.71	.11	-.01	-.06	.60	
12	Lacks willpower	.71	-.05	.01	.03	.46	
13	Anger ^{LL+CL}	.33	.39	.30	-.02	.65	Anger is caused by infuriating objects (DC) and menace (PD) and is highly behavioral (NEB)
14	Disgust	.16	.59	.26	-.08	.67	
15	Sadness	-.08	-.13	.76	.08	.55	
16	Pity	-.08	.10	.64	.02	.42	
17	Incomprehension	.56	.11	.22	-.03	.56	
18	Shocked ^{CL}	.44	.26	.33	-.03	.67	Shock refers to DC (shocking) and PD (shocked) and might be behavioral (NEB)
19	Contempt	.26	.62	.07	-.07	.72	
20	Uncomfortable	.00	.23	.64	-.06	.52	
21	Worried	.24	-.04	.57	.12	.51	
22	Convince her ^{CL}	.20	.32	-.01	.50	.51	Convincing implies IP but also pressures (NEB)
23	Explain the risks	.19	.25	.18	.54	.59	
24	Tips to quit	.09	.19	.24	.57	.56	
25	Don't give her a lecture *	.11	.52	-.08	.29	.43	
26	Make her feel guilty	.15	.69	-.03	.10	.65	
27	Judge her negatively	.29	.52	.09	-.18	.62	
28	Comments or criticisms ^{CL}	.21	.36	-.01	.40	.47	"Comments" implies IP while "criticisms" implies NEB
29	Reproach her	-.02	.83	-.02	.19	.72	
30	Calm *	-.06	.69	-.02	-.07	.42	
31	Argue with her	-.04	.77	.05	.06	.59	
32	Don't feel like talking ^{CL}	.16	.42	.12	-.39	.46	Avoiding people refers both to a discriminatory NEB and lack of IP
33	Don't want to spend time ^{CL}	.26	.43	.22	-.34	.59	Avoiding people refers both to a discriminatory NEB and lack of IP
34	Try to understand and help ^{CL}	-.18	-.24	.31	.40	.34	Distressing situations (PD) triggers a need for action (IP, "help")
Variance Explained (55%)		24%	17%	8%	5%		

Note. Dimensions: DC (Derogatory Cognitions), NEB (Negative Emotions and Behaviors), PD (Personal Distress) and IP (Information Provision). Item with an asterisk * are reversed. h2 : communalities. Items in grey (10, 13, 18, 22, 28, 32, 33, 34) have been dropped from the final version of the scale because of Low Loadings ^{LL} (<40) or Cross Loadings ^{CL} (<20 difference). Loadings higher than .40 are in **Bold**.

Supplementary Material 6. Descriptive statistics for dimensions and items (N=342)

Factor		Mean (SD)	Skewness	Kurtosis	ICC
Derogative Cognitions (DC)		3.88 (1.10)	-0.13	- 0.75	.90
Item	Factor – Abbreviated content	Mean (SD)	Skewness	Kurtosis	ICC
1	DC - Irresponsible	3.81 (1.58)	- 0.18	- 0.94	.77
2	DC - Reasonable person *	4.95 (1.04)	- 0.65	0.03	.63
3	DC – Selfish	3.79 (1.49)	- 0.13	- 0.75	.77
4	DC – Thoughtless	3.91 (1.56)	- 0.13	- 1.08	.70
5	DC - Cares about baby's health *	4.45 (1.38)	- 0.62	- 0.31	.62
6	DC - It's a shame	3.80 (1.54)	- 0.17	- 0.86	.81
7	DC - Worthy of being a mother *	2.97 (1.41)	0.31	- 0.60	.53
8	DC - Good mother *	3.03 (1.44)	0.34	- 0.68	.66
9	DC - Puts her baby in danger	5.29 (1.02)	- 1.30	0.90	.63
11	DC – Stupid	2.88 (1.62)	0.53	- 0.75	.74
12	DC - Lacks willpower	3.80 (1.54)	- 0.21	- 0.85	.81
17	DC - Incomprehension	3.88 (1.52)	- 0.39	- 0.76	.69
14	NEB – Disgust	2.81 (1.59)	0.53	- 0.75	.76
19	NEB – Contempt	2.66 (1.54)	0.63	- 0.53	.79
25	NEB - Don't give her a lecture *	2.97 (1.56)	0.34	- 0.82	.48
26	NEB - Make her feel guilty	2.36 (1.43)	0.81	- 0.29	.70
27	NEB - Judge her negatively	2.61 (1.48)	0.58	- 0.63	.74
29	NEB - Reproach her	2.44 (1.40)	0.69	- 0.44	.64
30	NEB – Calm *	2.11 (1.18)	1.20	1.52	.67
31	NEB - Argue with her	2.04 (1.26)	1.31	1.34	.43
15	PD – Sadness	3.62 (1.57)	- 0.20	- 0.91	.67
16	PD - Pity	2.99 (1.48)	0.25	- 0.88	.62
20	PD - Uncomfortable	3.71 (1.63)	- 0.30	- 0.99	.63
21	PD - Worried	4.69 (1.36)	- 1.03	0.58	.82
23	IP - Explain the risks	4.27 (1.55)	- 0.61	- 0.57	0.70
24	IP - Tips to quit	4.31 (1.51)	- 0.72	- 0.29	0.69

Note. Item with an asterisk * are reversed. Dimensions: DC (Derogatory Cognitions), NEB (Negative Emotions and Behaviors), PD (Personal Distress) and IP (Information Provision). Intraclass Correlations (ICC) computed after two weeks (N=72, M=13.12, SD=3.15). Skewness higher than 1 and ICC lower than 0.5 are in **Bold**.

Supplementary Material 7. Loadings according to Gender and Smoking status.

Item	Factor – Abbreviated content	Women	Men	Δ	NS	S	Δ
1	DC - Irresponsible	.88	.83	.05	.87	.84	.03
2	DC - Reasonable person *	.74	.56	.18	.68	.66	.02
3	DC – Selfish	.80	.86	.06	.81	.79	.02
4	DC – Thoughtless	.86	.72	.14	.74	.88	.14
5	DC - Cares about baby's health *	.62	.51	.11	.56	.67	.11
6	DC - It's a shame	.80	.85	.05	.85	.81	.04
7	DC - Worthy of being a mother *	.70	.78	.08	.73	.70	.03
8	DC - Good mother *	.69	.70	.01	.71	.69	.02
9	DC - Puts her baby in danger	.64	.52	.12	.55	.59	.04
11	DC – Stupid	.79	.74	.05	.76	.79	.03
12	DC - Lacks willpower	.67	.57	.10	.65	.67	.02
17	DC - Incomprehension	.75	.69	.06	.70	.72	.02
14	NEB – Disgust	.82	.87	.05	.84	.79	.05
19	NEB – Contempt	.88	.88	.00	.87	.82	.05
25	NEB - Don't give her a lecture *	.59	.51	.08	.52	.54	.02
26	NEB - Make her feel guilty	.81	.78	.03	.83	.75	.08
27	NEB - Judge her negatively	.84	.70	.06	.78	.70	.08
29	NEB - Reproach her	.76	.76	.00	.76	.66	.10
30	NEB – Calm *	.58	.45	.13	.51	.57	.06
31	NEB - Argue with her	.69	.70	.01	.68	.73	.05
15	PD – Sadness	.35	.60	.25	.46	.38	.08
16	PD – Pity	.45	.78	.33	.46	.74	.28
20	PD - Uncomfortable	.76	.79	.03	.99	.70	.29
21	PD - Worried	.88	.66	.22	.66	.75	.09
23	IP - Explain the risks	.96	.83	.13	.85	.89	.04
24	IP - Tips to quit	.71	.71	.00	.74	.76	.02

Note. Item with an asterisk * are reversed. Dimensions: DC (Derogatory Cognitions), NEB (Negative Emotions and Behaviors), PD (Personal Distress) and IP (Information Provision). Gender: Men (n=110) and Women (n=229). Smoking: Non-smokers (NS, n=157) and Smokers (S, n=112). Former smokers were excluded. Differences (Δ) between loadings higher than .20 are in **Bold**.