

Professionnels de santé et attitude envers la vaccination Covid-19:

Adhésion ou Acceptation pragmatique?

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Les vaccins contre la Covid-19 : un état des lieux

Groupe Vaccination et Prévention de la SPILF

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Hésitation vaccinale

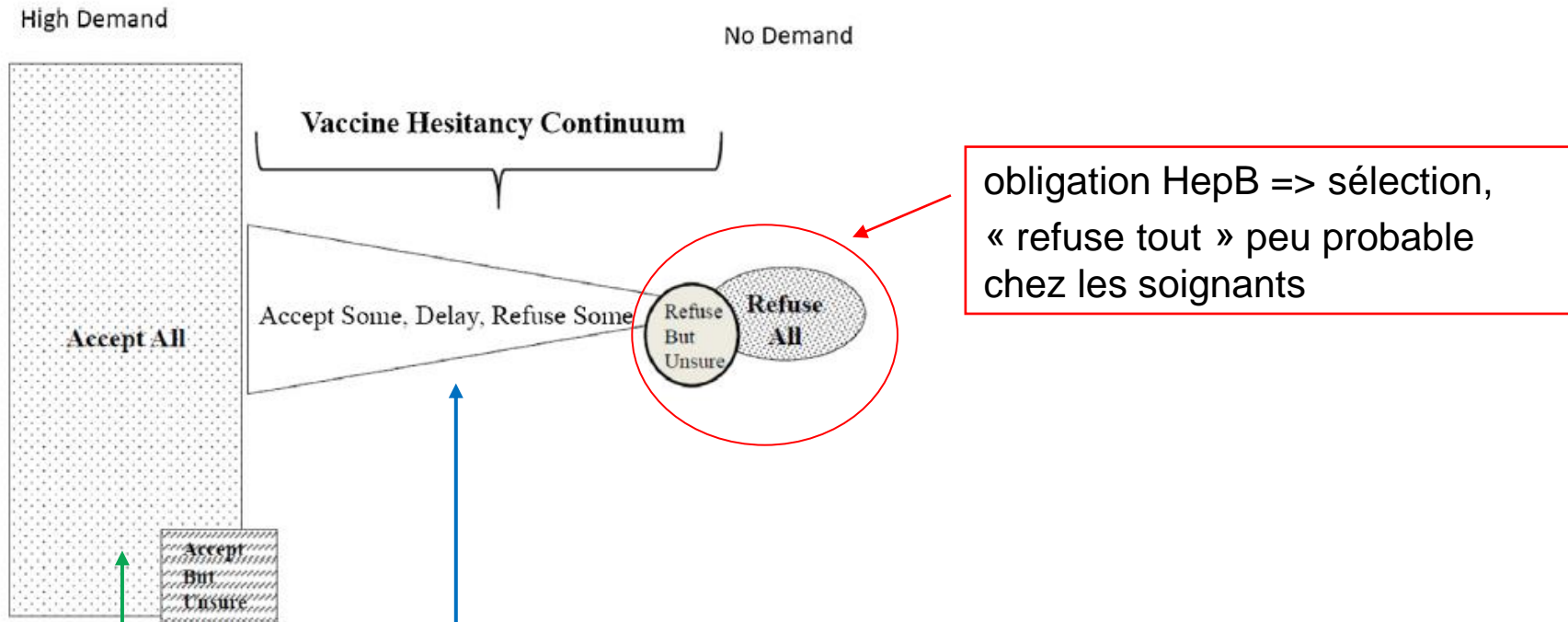
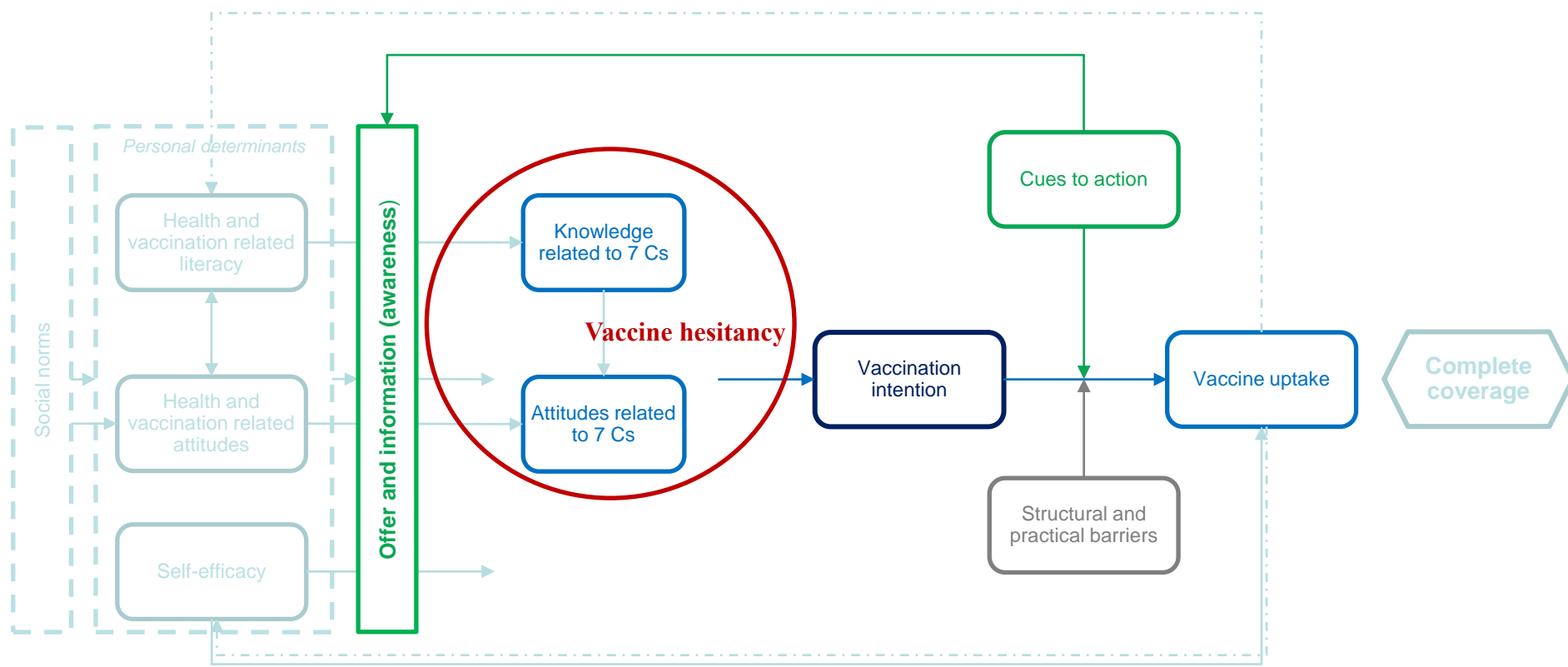


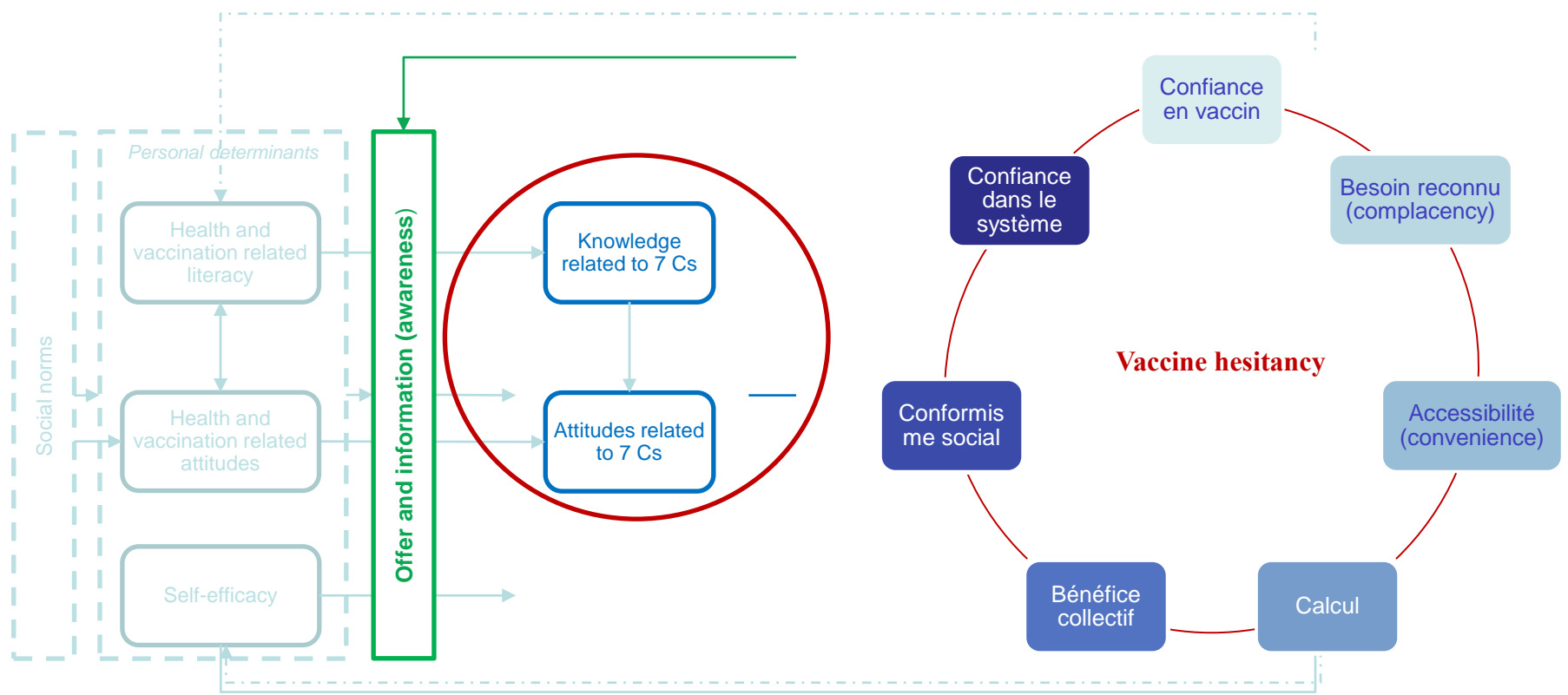
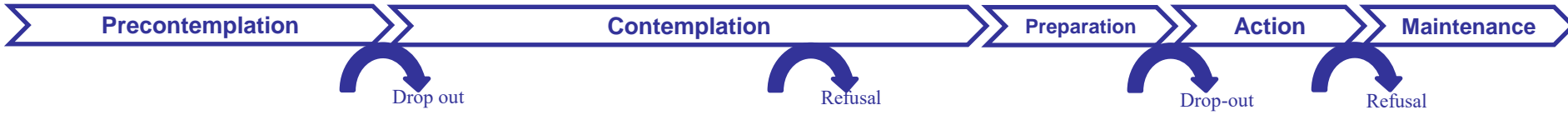
Fig. 1. The continuum of vaccine hesitancy between full acceptance and outright refusal of all vaccines.

Quel pourcentage hésite / refuse certaines vaccinations ?

Où sur le gradient se situent les soignants ?

Quel pourcentage accepte toutes les vaccinations ?





MacDonald NE et al. 2015; Betsch et al. 2018, Moirangthem et al. accepted

Etudes du GERES et partenaires

- **ConjointVac Grippe** : préférences, *2018*
- **Quelle(s) vaccination(s)**: enquête grippe et Covid-19, *été 2020*
- **CappVaCov** transversale *début de campagne 2020/21*
 - ConjointVac : préférences Covid-19
 - KA-7C : connaissances et attitudes selon 7 antécédents de l'hésitation vaccinale
- **CappVaCov « longitudinale »** : enquête transversale juillet-novembre 2021, résultats préliminaires

Donzel et al., Vaccine 2021

Mueller et al., BEH 2020

Diaz Luevano et al., Vaccine 2021

Moirangthem et al., accepted Eurosurveillance

ConjointVac: choix discrets à profil unique

Scenario 1


- **Few of your colleagues** are vaccinated.
- The **management asks** the staff to get vaccinated, to protect patients and reduce days of work lost.
- **Several of your patients** have already been ill with this disease this month.
- The vaccine allows **avoiding 30% of cases for a duration of 1 year**.
- After vaccination, you can wear a **badge "I am vaccinated"**.
- By getting vaccinated, you also **protect your patients**.
- The vaccine's safety profile is well known, it **marginally increases the risk of developing a neurological disease**.

Question:

Do you accept to get vaccinated now?

- Yes
- No

If **yes**, up to which minor side effect would you accept getting vaccinated?

- 
- Pain during injection
 - Pain in the arm during three days
 - Redness and swelling at the injection site during one day.
 - One day of fever during which you need to stay in bed.

Scenario 2


- **Most of your colleagues** are vaccinated
- The **management does not give any message** regarding this vaccination.
- The epidemic situation **is normal**.
- The vaccine allows **avoiding 90% of cases for a duration of 3 years**.
- If vaccinated, you can **wear a badge « I'm vaccinated »**.
- The vaccine provides **only individual protection**.
- This vaccine is **recent but no severe side effect** is known.

Question:

Do you accept to get vaccinated now?

- Yes
- No

If **yes**, up to which minor side effect would you accept getting vaccinated?

- 
- Pain during injection
 - Pain in the arm during three days
 - Redness and swelling at the injection site during one day.
 - One day of fever during which you need to stay in bed.

ConjointVac: niveaux d'attributs

Attributes	Levels
Vaccine Efficacy	1 - The vaccine has 90% efficacy.
	2 - The vaccine has 50% efficacy.
	3 - The vaccine allows prevention of 90% of COVID-19 cases, including severe forms.
Indirect Protection	1 - It is unknown if the vaccine prevents virus transmission to those around you in case of infection.
	2 - If you are infected, the vaccine will stop you from becoming sick from the disease, but it will not stop you from spreading the virus to those around you.
	3 - With the vaccination, you will contribute to the control of the COVID-19 epidemic.
	4 - The vaccination will allow you to meet without risk older people of your family and patient roster.
Vaccine Safety	1 - The clinical trials show an absence of severe and frequent side effects.
	2 - The scientific data suggests that even if you are young, the benefit that the vaccine provides is much larger than the hypothetical risk that we cannot yet rule out.
	3 - The vaccine safety is strictly monitored in a joint effort of European countries.
Protection Duration	1 - Annual vaccine will be necessary.
	2 - The duration and efficacy of the vaccine protection are yet unknown.
	3 - The vaccination will probably be effective for a duration of 3 years.
Recommendation/ Incentive	1 - The ministry of health asks healthcare workers to get vaccinated.
	2 - The vaccination recommendation is issued by a group of health professionals and scientists without any conflict of interest in relation to the vaccine producers.
	3 - 80% of healthcare workers in other European countries have been vaccinated.

Quel pourcentage accepte tout? (accepte tous les scénarios dans une étude de choix discrets)

Grippe 2018: N=1214 hospitaliers, 72% infirmiers, 11% médecins

Covid-19: décembre 2020 - février 2021, N=5234, 23% infirmiers, 9% AS-AH, 28% biomédicaux

	Grippe (2018)		Covid-19 (début de campagne)	
	tous	Par catégorie	tous	Par catégorie
acceptent tous les scénarios	19.4%	Infirm.: 16.5% Med: 37.5%	43.9%	Infirm.: 34.4% AS-AH: 20.0% Biomed 67.0%
acceptent certains scénarios	70.8%	Infirm.: 73.0% Med: 58.6%	38.9%	Infirm.: 46.0% AS-AH: 40.6% Biomed 27.3%
n'acceptent aucun scénario	9.9%	Infirm.: 10.6% Med: 3.9%	17.2%	Infirm.: 20.7% AS-AH: 39.4% Biomed 5.7%

Qu'est-ce qui importe pour changer vers l'acceptation?

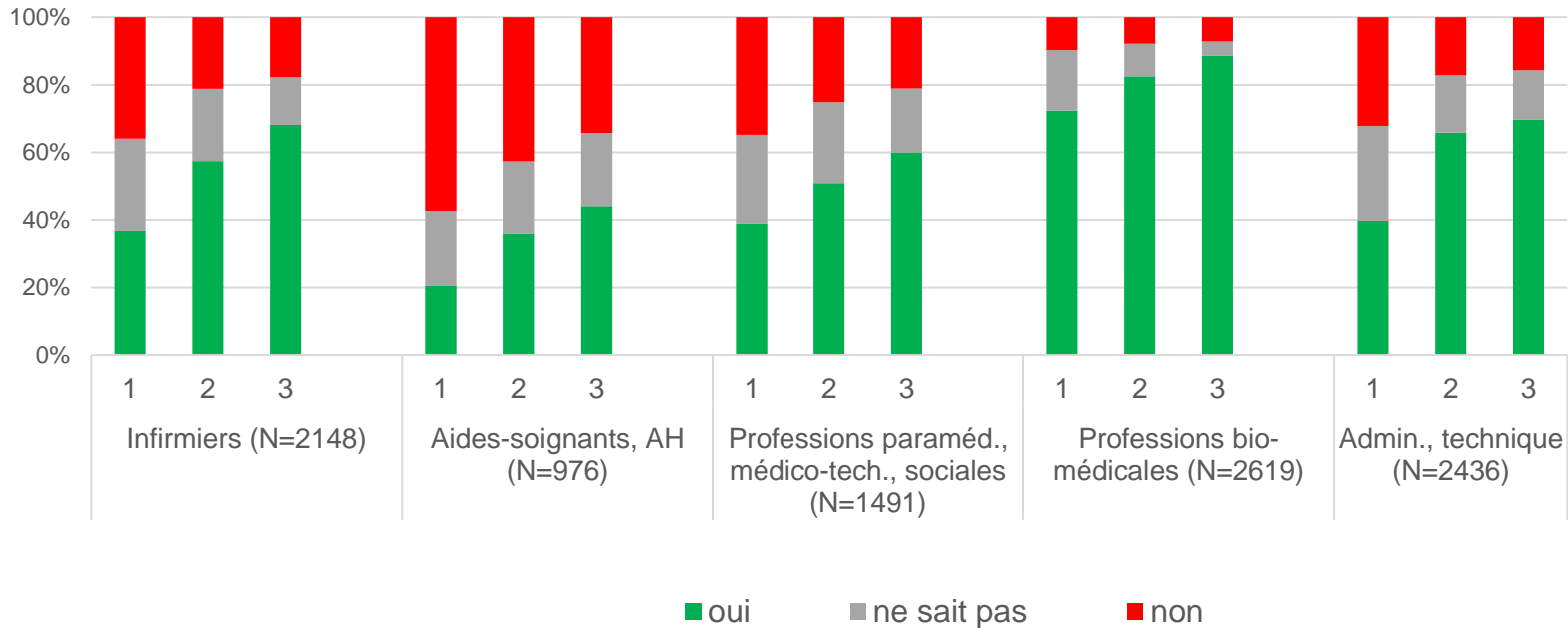
Préférences vaccination anti-grippale (2018) :

- + Situation épidémique
- + Contrôle de maladie, protection famille et patients
- + Efficacité élevée et durable
- + Autres collègues vaccinés
- *aucun effet* : message de la direction
- Controverse sur sécurité, proposition de badge

Préférences Covid-19 (début de campagne) :

- + Contrôle de l'épidémie
- + Ne pas contaminer personnes âgées
- Efficacité 50% (vs 90%), durée de protection inconnue
- Pas de protection indirecte
- « BBR favorable » vs. vaccin sans EI fréquent et sévère

Evolution de l'intention vaccinale Covid-19 (début de campagne)

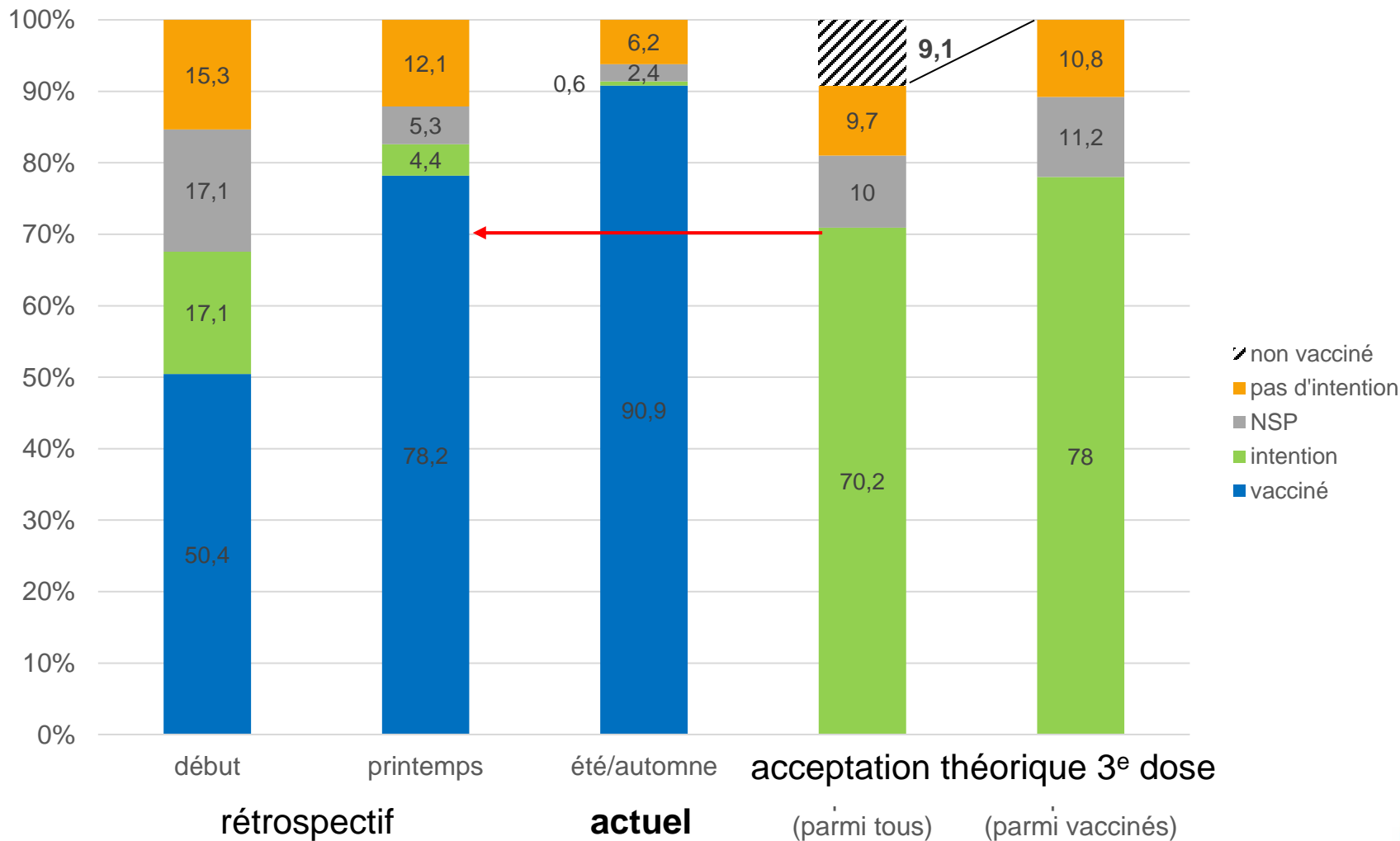


3 périodes de participation :

- 1. du 18/12/20 au 4/01/21** : avant et à partir du lancement de la campagne dans les EHPAD
- 2. du 5/01 au 14/01** : à partir de l'ouverture de la vaccination au personnel de santé de plus de 50 ans,
- 3. du 15/01 au 1/02/21** : à partir des annonces gouvernementales de généralisation du couvre-feu à 18h et d'extension de la vaccination à l'ensemble des personnes de plus de 75 ans et à celles porteuses de certaines maladies chroniques

Et après l'annonce de l'obligation ?

15 juillet – 10 novembre 2021, N=339, 34% infirmiers, 6% AS/AH, 30% biomédicaux



A-7C, lien avec intention/statut de vaccination

décembre 2020 - février 2021, N=5234, 23% infirmiers, 9% AS/AH, 28% biomédicaux

<i>OR des items</i>	Intention (transversal, N=5234)
	Déc 20-janv 21
Vacc. aura plus de bénéfices que de risques	13.5 (10.1-18.0)
Ne craint pas un effet indésirable grave	8.7 (6.8-11.2)
Opinion très favorable dans l'environ. fam/amic	4.6 (3.6-6.0)
Incitation de l'employeur perçue comme motivante	7.3 (4.1-13.2)
Vacc. aussi action collective pour arrêter la crise	5.3 (3.4-8.2)
Craint une forme sévère de la COVID-19	1.8 (1.4-2.4)

Très/un peu d'accord vs. peu/pas du tout d'accord. Accessibilité non représentée

Odds ratios ajustés sur catégorie professionnelle, âge, genre



A-7C, lien avec intention/statut vaccinal

décembre 2020 - février 2021, N=5234, 23% infirmiers, 9% AS/AH, 28% biomédicaux

15 juillet – 10 novembre 2021, N=339, 34% infirmiers, 6% AS/AH, 30% biomédicaux

OR des items	Intention (transversal, N=5234)	Vacciné (KA-7C en été/automne, N=339)		
		« Début de campagne »	« Printemps 21 »	« maintenant » été/ automne 21
Vacc. aura plus de bénéfices que de risques	13.5 (10.1-18.0)	27.2 (5.4-137)	10.2 (3.4-31.0)	7.4 (0.8-68.5)
Ne craint pas un effet indésirable grave	8.7 (6.8-11.2)	2.3 (0.9-5.6)	1.5 (0.5-4.5)	1.9 (0.3-13.9)
Opinion très favorable dans l'environ. fam/amic	4.6 (3.6-6.0)	1.2 (0.4-4.2)	3.6 (1.1-11.8)	9.6 (1.3-73.4)
Incitation de l'employeur perçue comme motivante	7.3 (4.1-13.2)	1.5 (0.3-8.0)	1.1 (0.3-4.5)	1.2 (0.1-12.7)
Vacc. aussi action collective pour arrêter la crise	5.3 (3.4-8.2)	3.0 (0.6-14.6)	7.6 (2.1-26.9)	138 (9.5-2010)
Craint une forme sévère de la COVID-19	1.8 (1.4-2.4)	1.2 (0.6-2.3)	1.3 (0.4-3.6)	0.2 (0.0-8.1)

Très/un peu d'accord vs. peu/pas du tout d'accord. Accessibilité non représentée

Odds ratios ajustés sur catégorie professionnelle, âge, genre

A-7C, lien avec intention/statut de vaccination

décembre 2020 - février 2021, N=5234, 23% infirmiers, 9% AS/AH, 28% biomédicaux

15 juillet – 10 novembre 2021, N=339, 34% infirmiers, 6% AS/AH, 30% biomédicaux

OR des items	Intention (transversal, N=5234)	Vacciné (KA-7C en été/automne, N=339)			Acceptation théorique 3 ^e dose (si vacciné, N=308)
		Déc 20-janv 21	« Début de campagne »	« Printemps 21 »	
Vacc. aura plus de bénéfices que de risques	13.5 (10.1-18.0)	27.2 (5.4-137)	10.2 (3.4-31.0)	7.4 (0.8-68.5)	12.3 (3.5-43.5)
Ne craint pas un effet indésirable grave	8.7 (6.8-11.2)	2.3 (0.9-5.6)	1.5 (0.5-4.5)	1.9 (0.3-13.9)	4.0 (1.4-11.6)
Opinion très favorable dans l'environ. fam/amic	4.6 (3.6-6.0)	1.2 (0.4-4.2)	3.6 (1.1-11.8)	9.6 (1.3-73.4)	2.7 (0.7-10.1)
Incitation de l'employeur perçue comme motivante	7.3 (4.1-13.2)	1.5 (0.3-8.0)	1.1 (0.3-4.5)	1.2 (0.1-12.7)	25.8 (3.4-196)
Vacc. aussi action collective pour arrêter la crise	5.3 (3.4-8.2)	3.0 (0.6-14.6)	7.6 (2.1-26.9)	138 (9.5-2010)	4.1 (0.8-21.7)
Craint une forme sévère de la COVID-19	1.8 (1.4-2.4)	1.2 (0.6-2.3)	1.3 (0.4-3.6)	0.2 (0.0-8.1)	1.1 (0.4-3.1)

Très/un peu d'accord vs. peu/pas du tout d'accord. Accessibilité non représentée

Odds ratios ajustés sur catégorie professionnelle, âge, genre

Conclusion

1/3 des professionnels de santé (biomédicaux: 2/3) accepte facilement la vaccination, peu importe les caractéristiques

2/3 acceptent en fonction des caractéristiques (= « hésitent ») (biomédicaux: 1/3)

Les caractéristiques importantes sont l'efficacité, la protection indirecte, la sécurité, ...

L'intention vaccinale contre la Covid-19 était dynamique dans le temps (avant obligation)

Acceptation théorique d'une nouvelle dose (hors obligation) inférieure au statut vaccinal au printemps 2021

=> pas d'effet positif de l'obligation sur la future intention

=> relation avec l'employeur facteur dominant pour l'intention?

Merci !

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Merci

Explication choix discrets

Attributes	Levels
Epidemic situation (EPI)	<p>The epidemic situation is normal with no worrying number of cases</p> <p>Many of your colleagues have already been sick this year. Many of your patients have already been sick this year.</p> <p>Health authorities think there is a very high risk of infection during the coming season.</p>
Vaccine safety (SAFETY)	<p>This vaccine is well known without a severe side effect. The media speak of a controversy about vaccine safety involving a few medical professionals, while health authorities question the suspicion.</p> <p>This vaccine is well known and has a low marginal risk of developing a neurological disorder.</p> <p>This vaccine is recent but no severe side effect is known.</p>
Vaccine effectiveness (EFFECTIVENESS)	<p>The vaccine allows avoiding 30% of cases over a 1-year period.</p> <p>The vaccine allows avoiding 30% of cases over a 3-5 years period. The vaccine allows avoiding 90% of cases over a 1-year period The vaccine allows avoiding 90% of cases over a 3-5 years period.</p>
Vaccine coverage (COVERAGE)	<p>Vaccine coverage among French HCWs is insufficient</p> <p>80% of French HCWs are vaccinated</p> <p>30% of French HCWs are vaccinated</p> <p>Few of your coworkers are vaccinated</p> <p>Most of your coworkers are vaccinated</p>
Potential for indirect protection (INDIRECT PROTECTION)	<p>The vaccine provides only individual protection</p> <p>Vaccinating yourself allows participation in disease control. Vaccinating yourself will indirectly protect vulnerable people in your family. Vaccinating yourself will indirectly protect your patients.</p>
Incentive (INCENTIVE)	<p>There is no specific action proposed.</p> <p>If vaccinated, you can wear a badge "I'm vaccinated".</p> <p>If your department achieved vaccine coverage above 60%, you will receive a certificate for communication.</p> <p>If the service vaccine coverage is low, hygiene rules will be reinforced.</p>
Attitude of the management (MANAGEMENT)	<p>The management does not give any message regarding this vaccination</p> <p>The management asks the HCW to get vaccinated to protect patients and avoid absenteeism</p>

Explication choix discrets

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