

## Supplementary materials

**Supplementary table 1:** List of detailed answers to questions presented in the main text and table 1.

A) Characteristics of survey participants						
<b>All HCPs: In which canton of Switzerland do you practice or work? *</b>	GPs (N=80)		Pharmacists (N=50)			
Aargau	4%	4%				
Basel-Landschaft	1%	4%				
Basel-Stadt	4%	4%				
Bern	14%	8%				
Fribourg	4%	2%				
Genève	6%	14%				
Graubünden	0%	4%				
Jura	4%	0%				
Luzern	3%	2%				
Neuchâtel	6%	0%				
Obwalden	1%	0%				
Sankt Gallen	6%	0%				
Thurgau	4%	0%				
Ticino	4%	4%				
Vaud	19%	18%				
Wallis	5%	4%				
Zug	3%	0%				
Zürich	14%	32%				
Which of the following vaccination(s) did you get in the past 12 months?						
<b>Patients with underlying health conditions (n=326):</b>	No vaccination (51%)	Influenza (22%)	COVID-19 and influenza (19%)	COVID-19 (5%)	Not sure (3%)	
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	No vaccination (24%)	Influenza (31%)	COVID-19 and influenza (31%)	COVID-19 (8%)	Not sure (7%)	
<b>All patients by age and gender, and language</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)
No vaccination	68%	50%	45%	59%	59%	42%
Influenza	18%	23%	21%	19%	20%	25%
COVID-19 and Influenza	10%	18%	28%	10%	13%	25%
COVID-19	4%	6%	4%	7%	6%	0%
Not sure	1%	3%	2%	4%	2%	8%
B) Perception of risk by patients						
Given the heightened risk of respiratory disease transmission, such as COVID-19 and influenza, in crowded spaces such as concerts and public transport, particularly during the winter months, do you plan to actively take precautions to decrease your risk of exposure?						
<b>Patients intending to get a COVID-19 vaccine (n=121)</b>	Yes (82%)	No (7%)	Sometimes (12%)			
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Yes (60%)	No (15%)	Sometimes (26%)			
<b>All patients by age and gender</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)
Yes	34%	42%	43%	42%	45%	67%
No	47%	39%	38%	34%	23%	8%
Sometimes	18%	18%	19%	24%	32%	25%
How would you describe the current risk of COVID-19 to your health?						
<b>Patients intending to get a COVID-19 vaccine (n=121)</b>	Very high risk (3%)	High risk (13%)	Medium risk (50%)	Low risk (31%)	Very low risk (3%)	
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Very high risk (2%)	High risk (13%)	Medium risk (61%)	Low risk (21%)	Very low risk (3%)	

<b>All patients by age and gender, and language</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)	French (n=176)	German (n=418)
Very high risk	1%	1%	0%	1%	0%	0%	0%	1%
High risk	1%	4%	4%	8%	8%	17%	4%	7%
Medium risk	36%	41%	36%	39%	41%	17%	37%	44%
Low risk	43%	37%	53%	31%	39%	42%	42%	31%
Very low risk	19%	18%	6%	21%	13%	25%	17%	17%
<b>How would you describe the current risk of influenza to your health?</b>								
<b>Patients intending to get a COVID-19 vaccine (n=121)</b>	Very high risk (3%)		High risk (13%)		Medium risk (47%)		Low risk (31%)	Very low risk (6%)
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Very high risk (2%)		High risk (19%)		Medium risk (52%)		Low risk (24%)	Very low risk (3%)
<b>All patients by age and gender, and language</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)	French (n=176)	German (n=418)
Very high risk	1%	0%	0%	1%	0%	0%	1%	0%
High risk	4%	7%	6%	7%	7%	25%	8%	6%
Medium risk	36%	41%	34%	49%	47%	25%	50%	39%
Low risk	45%	37%	47%	23%	37%	42%	27%	41%
Very low risk	14%	15%	13%	19%	9%	8%	14%	14%
<b>C) Knowledge about vaccination recommendation and vaccination readiness in patients</b>								
<b>Do you know if an annual COVID-19 vaccination is currently recommended for you?</b>								
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Yes (60%)		No (13%)		I don't know (27%)			
<b>All patients by age and gender, and language</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)	French (n=176)	German (n=418)
Yes	36%	39%	55%	30%	41%	25%	45%	35%
No	29%	27%	17%	25%	20%	25%	19%	27%
I don't know	35%	34%	28%	45%	40%	50%	36%	38%
<b>Do you know if an annual influenza vaccination is currently recommended for you?</b>								
<b>Patients with underlying health conditions (n=326):</b>	Yes (64%)		No (14%)		I don't know (22%)			
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Yes (77%)		No (11%)		I don't know (11%)			
<b>All patients by age and gender, and language</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)	French (n=176)	German (n=418)
Yes	46%	62%	72%	51%	58%	75%	57%	58%
No	25%	19%	9%	18%	13%	8%	16%	18%
I don't know	30%	19%	19%	31%	29%	17%	27%	24%
<b>Do you plan to get a COVID-19 vaccination this year?</b>								
<b>Patients with underlying health conditions (n=326):</b>	Yes (26%)		No (54%)		I don't know (21%)			
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Yes (40%)		No (31%)		I don't know (29%)			
<b>All patients by age and gender, and language</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)	French (n=176)	German (n=418)
Yes	13%	24%	36%	14%	18%	25%	25%	18%
No	67%	56%	43%	67%	53%	50%	49%	62%
I don't know	20%	20%	21%	19%	30%	25%	26%	20%
<b>Do you plan to get an influenza vaccination this year?</b>								
<b>Patients intending to get a COVID-19 vaccine (n=121)</b>	Yes (89%)		No (7%)		I don't know (4%)			
<b>Patients with underlying health conditions (n=326):</b>	Yes (43%)		No (48%)		I don't know (9%)			
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Yes (65%)		No (32%)		I don't know (3%)			

All patients by age and gender, and language	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)	French (n=176)	German (n=418)
Yes	28%	42%	51%	30%	37%	58%	36%	38%
No	57%	49%	45%	61%	52%	42%	49%	54%
I don't know	15%	10%	4%	9%	11%	0%	15%	8%
<b>D) Main barriers and motivators for patients to get vaccinated</b>								
<b>I would not get a COVID-19 vaccination when they are made available because _____." (Rank 1)</b>								
All patients by age and gender	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)		
I don't believe I need another COVID-19 vaccine	33%	32%	45%	21%	33%	67%		
I believe we already have natural immunity against COVID-19	24%	23%	15%	19%	23%	0%		
I am worried about the safety of the updated COVID-19 vaccines	17%	10%	5%	21%	17%	17%		
COVID-19 is not a serious risk to my health anymore	8%	14%	15%	15%	6%	0%		
My symptoms for COVID-19 have been mild and manageable	11%	11%	5%	11%	13%	0%		
The updated vaccines are not effective at protecting against COVID-19	7%	7%	10%	8%	8%	17%		
I cannot afford it or my insurance won't cover it	1%	3%	5%	1%	0%	0%		
I do not have time to travel to a clinic or hospital to get the updated vaccine	0%	0%	0%	3%	0%	0%		
<b>Which factors would motivate you to get the annual COVID-19 vaccine? (Rank 1)</b>								
All patients by age and gender	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)		
Recommendations from healthcare professionals and medical experts	35%	38%	34%	30%	35%	44%		
News that there is a resurgence of COVID-19 cases in my country	22%	18%	17%	22%	23%	11%		
Recommendations from the government or health ministry to get the updated vaccine	8%	15%	11%	14%	16%	0%		
The vaccine being fully funded by health insurance	13%	9%	14%	8%	9%	11%		
Information on the safety of the vaccine	13%	8%	6%	11%	5%	11%		
Information about the effectiveness of the updated vaccine against new variants	6%	7%	9%	13%	9%	22%		
Availability of the updated vaccine at convenient locations and times	4%	5%	3%	2%	4%	0%		
Recommendations from people who have received the updated vaccine	0%	1%	6%	0%	0%	0%		
<b>Which factors would motivate you to get the annual influenza vaccine? (Rank 1)</b>								
All patients by age and gender	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)		
Recommendations from healthcare professionals and medical experts	34%	40%	45%	30%	50%	33%		
News that there is a resurgence of influenza cases in my country	12%	12%	3%	20%	16%	33%		
Assurance on the safety of the vaccine	8%	12%	10%	15%	14%	22%		
The vaccine being fully funded by health insurance	18%	7%	13%	12%	2%	11%		
Recommendations from the government or health ministry to get the updated vaccine	12%	11%	13%	8%	5%	0%		
Information about the effectiveness of the updated vaccine	9%	12%	7%	12%	5%	0%		
Availability of the updated vaccine at convenient locations and times	7%	6%	7%	2%	2%	0%		

Recommendations from people who have received the updated vaccine	1%	1%	3%	2%	7%	0%		
<b>How often do you get recommended annual vaccinations for yourself (e.g., influenza, pneumonia, COVID-19)?</b>								
<b>Patients intending to get a COVID-19 vaccine (n=121)</b>	Always (66%)	Usually (27%)	Sometimes (4%)	Rarely (3%)	Never (0%)			
<b>Patients with underlying health conditions (n=326):</b>	Always (30%)	Usually (15%)	Sometimes (11%)	Rarely (15%)	Never (29%)			
<b>Patients who had COVID-19 at least once in the past 12 months (n=62)</b>	Always (31%)	Usually (34%)	Sometimes (11%)	Rarely (15%)	Never (10%)			
<b>All patients by age and gender, and language</b>	65-69 (M) (n=114)	70-79 (M) (n=229)	80+ (M) (n=47)	65-69 (F) (n=108)	70-79 (F) (n=91)	80+ (F) (n=12)	French (n=176)	German (n=418)
Always	12%	31%	26%	17%	24%	25%	26%	22%
Usually	20%	12%	30%	15%	10%	25%	14%	16%
Sometimes	8%	11%	11%	11%	14%	8%	9%	12%
Rarely	21%	18%	11%	12%	19%	33%	23%	15%
Never	39%	29%	23%	45%	33%	8%	28%	35%
<b>E) HCPs knowledge, perception, and attitude towards COVID-19 and its vaccination</b>								
<b>How effective do you believe updated COVID-19 vaccines are in helping to prevent COVID-19 disease caused by SARS-CoV-2?</b>								
French speakers (n=54)	Extremely effective (9%)	Very effective (28%)	Somewhat effective (56%)	Not effective at all (7%)				
German speakers (n=70)	Extremely effective (6%)	Very effective (33%)	Somewhat effective (57%)	Not effective at all (4%)				
<b>How would you rate the public's awareness and understanding of the importance of COVID-19 vaccination?</b>								
French speakers (n=54)	Very high (0%)	High (15%)	Moderate (54%)	Low (29%)	Very low (1%)			
German speakers (n=70)	Very high (0%)	High (17%)	Moderate (62%)	Low (17%)	Very low (4%)			

Patient survey in green, HCP survey in blue. \*Appenzell Ausserrhoden, Appenzell Innerrhoden, Glarus, Nidwalden, Schaffhausen, Schwyz, Solothurn, Uri have excluded regions that had zero percentages. Capital letters denote statistical difference at the 95% level vs Total. BASE: All respondents.

## Complete list of survey questions HCPs:

- How effective do you believe updated COVID-19 vaccines are in helping to prevent COVID-19 disease caused by SARS-CoV-2?**
  - Not effective at all (5%)
  - Somewhat effective (56%)
  - Very effective (31%)
  - Extremely effective (8%)
- How would you rate the public's awareness and understanding of the importance of COVID-19 vaccination?**
  - Very low (3%)
  - Low (22%)
  - Moderate (59%)
  - High (15%)
  - Very high (0%)
- Which of these statements do you believe is true?**
  - The annual burden of COVID-19 is higher than influenza in Switzerland (34%)

- The annual burden of influenza is higher than COVID-19 in Switzerland (24%)
  - The annual burden of COVID-19 and influenza in Switzerland is around the same (42%)
4. **What are the most common questions or concerns you receive from individuals about COVID-19 vaccines?**
- Questions or uncertainty about their efficacy (56%)
  - Questions or worries about their side effects and any health risks (86%)
  - Questions about their added benefit or value (31%)
  - Questions about vaccine components (i.e., mRNA, proteins, etc) (38%)
  - Questions about the need for booster shots (52%)
  - Questions about natural immunity (24%)
  - Uncertainty about concurrent or closely timed COVID-19 and other vaccinations (26%)
  - Concerns about the need for COVID-19 vaccination after previous infection (i.e., whether recovery provides sufficient immunity and for how long) (53%)
  - Questions about vaccination cost and/or insurance coverage (24%)
5. **Which factors do you believe motivate people to receive an updated COVID-19 vaccine? Rank between 1 to 10, 1 = Most important, 8 = Least important.**
- Information about the effectiveness of the updated vaccine against new variants (Rank 1: 12%)
  - Information on the safety of the vaccine (Rank 1: 11%)
  - Recommendations from healthcare professionals and medical experts (Rank 1: 22%)
  - Recommendations from people who have received the updated vaccine (Rank 1: 3%)
  - Recommendations from the government or health ministry to get the updated vaccine (Rank 1: 15%)
  - Availability of the updated vaccine at convenient locations and times (Rank 1: 1%)
  - News that there is a resurgence of COVID-19 cases in my country (Rank 1: 14%)
  - The vaccine being fully funded by health insurance (Rank 1: 12%)
  - The risk of long COVID (Rank 1: 12%)
  - None of the above [Please void other options if this is selected]
6. **Do you have concerns on the following topics? Participants can answer 'Yes' or 'No' to each topic**
- Effectiveness of the updated vaccine against new variants (Yes: 12%)
  - Safety of COVID-19 vaccines (Yes: 25%)
  - Reimbursement/cost to the individual (Yes: 12%)
  - Availability of the updated COVID-19 vaccines (Yes: 7%)
  - Public confidence in COVID-19 vaccines (Yes: 36%)
  - Communication and guidance from health authorities (Yes: 18%)
  - Duration of immunity provided by the vaccines (Yes: 22%)
7. **Are you aware that COVID-19 and influenza vaccinations can be provided at the same appointment for individuals who can receive/are recommended for them?**
- Yes (92%)
  - No (4%)
  - I'm not sure (5%)

**Complete list of survey questions patients:**

**Health habits**

1. **Given the heightened risk of respiratory disease transmission, such as COVID-19 and influenza, in crowded spaces such as concerts and public transport, particularly during the winter months, do you plan to actively take precautions to decrease your risk of exposure?**
  - Yes (42%)
  - No (37%)
  - Sometimes (22%)

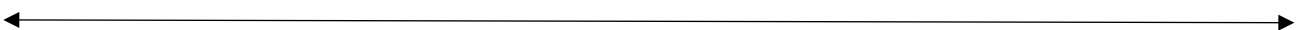
**COVID-19 self-reporting**

2. **How would you describe the current risk of COVID-19 to your health?**
  - Very low risk (17%)
  - Low risk (39%)
  - Medium risk (39%)
  - High risk (5%)
  - Very high risk (1%)

3. **How would you describe the current risk of influenza to your health?**
  - Very low risk (14%)
  - Low risk (37%)
  - Medium risk (42%)
  - High risk (7%)
  - Very high risk (1%)

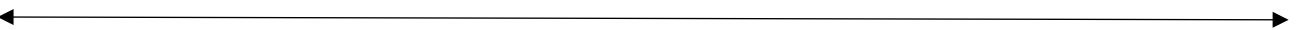
4. **How many times have you tested positive for COVID-19 in the past 12 months?**

1	2	3	More than 3 times	I have tested but not positive for COVID-19	I have not tested
8%	2%	0%	1%	24%	66%



5. **How many times has someone living with you tested positive for COVID-19 in the past 12 months?**

0	1	2	3	More than 3 times	I live alone/ I do not know	They did not test
34%	6%	2%	1%	0%	19%	39%



6. **How often do you get recommended annual vaccinations for yourself (e.g., influenza, pneumonia, COVID-19)?**
  - Always (23%)
  - Usually (15%)
  - Sometimes (11%)
  - Rarely (17%)
  - Never (33%)

7. **Which of the following vaccination(s) did you get in the past 12 months?**
  - Vaccination against COVID-19 (5%)

- Vaccination against influenza (21%)
- Both COVID-19 and influenza vaccinations (15%)
- I did not get the COVID-19 or influenza vaccinations (56%)
- I'm not sure (3%)

### **Motivation and barriers**

**8. Which factors would motivate you to get the annual COVID-19 vaccine? Rank between 1 to 8, 1 = Most important, 8 = Least important.**

- Information about the effectiveness of the updated vaccine against new variants (Rank 1: 9%)
- Information on the safety of the vaccine (Rank 1: 9%)
- Recommendations from healthcare professionals and medical experts (Rank 1: 36%)
- Recommendations from people who have received the updated vaccine (Rank 1: 1%)
- Recommendations from the government or health ministry to get the updated vaccine (Rank 1: 13%)
- Availability of the updated vaccine at convenient locations and times (Rank 1: 4%)
- News that there is a resurgence of COVID-19 cases in my country (Rank 1: 20%)
- The vaccine being fully funded by health insurance (Rank 1: 10%)
- None of the above [Please void other options if this is selected]

**9. Which factors would motivate you to get the annual influenza vaccine? Rank between 1 to 8, 1 = Most important, 8 = Least important.**

- Information about the effectiveness of the updated vaccine (Rank 1: 10%)
- Assurance on the safety of the vaccine (Rank 1: 12%)
- Recommendations from healthcare professionals and medical experts (Rank 1: 39%)
- Recommendations from people who have received the updated vaccine (Rank 1: 2%)
- Recommendations from the government or health ministry to get the updated vaccine (Rank 1: 10%)
- Availability of the updated vaccine at convenient locations and times (Rank 1: 5%)
- News that there is a resurgence of influenza cases in my country (Rank 1: 14%)
- The vaccine being fully funded by health insurance (Rank 1: 10%)
- None of the above [Please void other options if this is selected]

**10. Do you know if an annual COVID-19 vaccination is currently recommended for you?**

- • Yes, it's recommended for me (38%)
- • No, it's not recommended for me (25%)
- • I don't know if it's recommended for me (37%)

**11. Do you know if an annual influenza vaccination is currently recommended for you?**

- Yes, it's recommended for me (58%)
- No, it's not recommended for me (18%)
- I don't know if it's recommended for me (25%)

**12. Do you plan to get a COVID-19 vaccination this year?**

- Yes (20%)
- No (58%)
- Unsure (22%)

**13. Do you plan to get an influenza vaccination this year?**

- Yes (37%)
- No (53%)
- Unsure (10%)

**14. [If answered "No" to Q11] "I would not get a COVID-19 vaccination when they are made available because \_\_\_\_\_." Rank from 1 to 7/8 [depending on the market], 1 = Most important reason, 8 = Less important reason\***

- I am worried about the safety of the updated COVID-19 vaccines. (Rank 1: 15%)
- The updated vaccines are not effective at protecting against COVID-19. (Rank 1: 8%)
- I believe we already have natural immunity against COVID-19. (Rank 1: 21%)
- I don't believe I need another COVID-19 vaccine. (Rank 1: 31%)
- My symptoms for COVID-19 have been mild and manageable. (Rank 1: 11%)
- COVID-19 is not a serious risk to my health anymore. (Rank 1: 12%)
- I do not have time to travel to a clinic or hospital to get the updated vaccine. (Rank 1: 1%)
- I cannot afford it or my insurance won't cover it (Rank 1: 2%)

**15. If you were to get both the COVID-19 and influenza vaccines, would you take them at the same time?**

- Yes (37%)
- No (45%)
- Unsure (18%)

**16. [If answered "No" to Q14] get the COVID-19 and the influenza vaccines at the same time because \_\_\_\_\_." Rank from 1 to 7/8 [depending on the market], 1 = Biggest reason, 8 = Smallest reason\***

- I am worried about the safety of taking the COVID-19 and influenza vaccines at the same time. (Rank 1: 15%)
- The vaccines are not effective at protecting against COVID-19 and influenza. (Rank 1: 13%)
- There is not enough scientific research to support the safety of taking the COVID-19 and influenza vaccines at the same time. (Rank 1: 18%)
- My previous symptoms for COVID-19 or influenza have been mild and manageable. (Rank 1: 13%)
- COVID-19 or influenza does not pose a serious risk to one's health. (Rank 1: 12%)
- I would rather take each vaccine separately. (Rank 1: 28%)
- I cannot engage in strenuous physical activity for a week after getting the COVID-19 and influenza vaccines. (Rank 1: 1%)

**Long COVID**

**17. "I am concerned about the risk of long COVID."**

- Strongly agree (15%)
- Agree (27%)
- Neither agree nor disagree (32%)
- Disagree (14%)
- Strongly disagree (13%)

## Awareness of COVID-19

### 18. Check all the below statements which you think are true

		True	False
a.	Manufacturers update the COVID-19 vaccine regularly to provide protection against the latest strains.	83%	
b.	Most side effects experienced from taking the COVID-19 vaccination are mild and temporary.	68%	
c.	Taking the COVID-19 vaccine lowers the risk of hospitalization from the virus.	76%	
d.	Taking mRNA COVID-19 vaccines involves injecting a small piece of the virus's genetic material, which instructs the body to produce a harmless viral protein that triggers an immune response, without injecting the actual COVID-19 virus.	67%	
e.	I need to get a COVID-19 vaccine once a year	22%	
f.	The government and health authorities are recommending simultaneous vaccination against COVID-19 and influenza this year.	51%	
g.	COVID-19 still causes more cases of severe disease than the seasonal flu.	38%	

### Self-reporting questions

#### 19. What is your preferred language?

- German (70%)
- French (29%)
- Italian (1%)

#### 20. Are you...

- Female (35%)
- Male (65%)

#### 21. Please select your age bracket:

- 65-69 (37%)
- 70-74 (31%)
- 75-79 (22%)
- 80-84 (8%)
- 85-89 (2%)
- 90+ (0%)

#### 22. How often do you see a healthcare specialist?

- Every week (1%)
- Every month (5%)
- A few times a year (73%)
- Every few years (21%)

- 23. Do you have underlying health issues or comorbidities (i.e. high blood pressure, cardiovascular disease, diabetes, pulmonary and/or respiratory diseases, cancer, kidney, or liver problems)?**
- Yes (54%)
  - No (46%)