

EMHA Migraine Stigma Surveys

Final Analysis

November 30th, 2023



Objective of the project

The project aims to assess the **origin** and **impact** of **stigma** on migraine patients in Europe, as well as understand patients' need for a better understanding of their condition

1

Phase 1 is currently in place, and it involves a digital survey. The survey explores topics such as patients' understanding of migraine terminology, sources of stigma, specific types of stigma affecting patients, and potential solutions

2

Phase 2 will focus on preparing a scientific paper to advocate for a paradigm shift in addressing patient stigma. The Prescient team will conduct discussions with EMHA, experts, and partners, along with a literature review on stigma's definition and impact



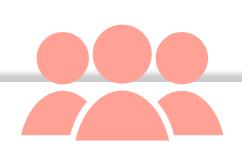
The project aims to raise awareness about stigma associated with migraine, drive positive change, and improve support for migraine sufferers





EMHA Migraine Stigma Survey

The content from "EMHA Migraine Stigma Survey" was divided into the following 4 categories



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Section 1: Demographics

Sex Age

Country of residence

Family Employment

Perception of stigma among selected diseases

Section 2: Understanding of disease (migraine sufferers)

Severity Impact

Frequency Response

Understanding of terminology Support

Perception of stigma

Section 3: Feelings toward taxonomy / language

Perception of terms used to describe migraines

Degree of stigma associated with terms

Additional terms to describe migraine

Section 4: Stigma perception

Perception of non-sufferers

Relationships

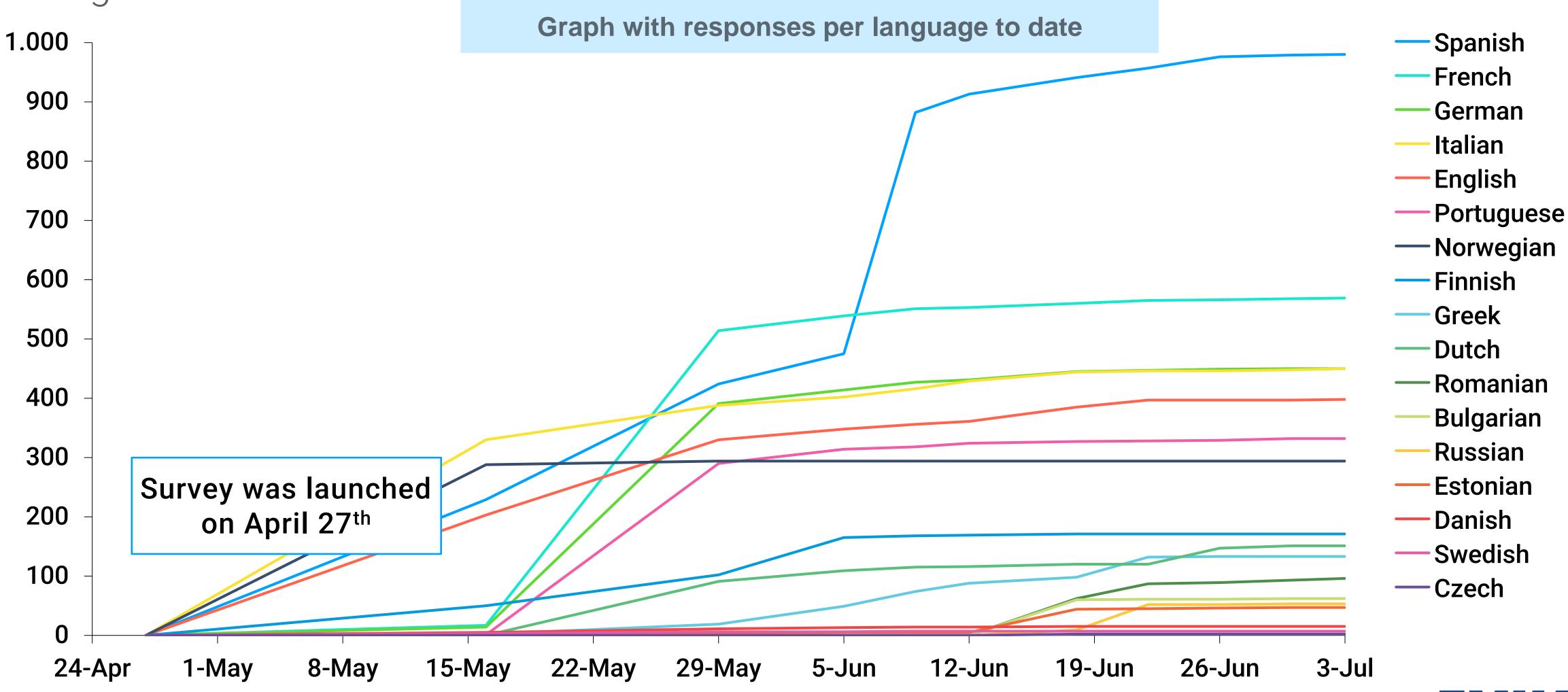
Support & Reaction

Work-related stigma



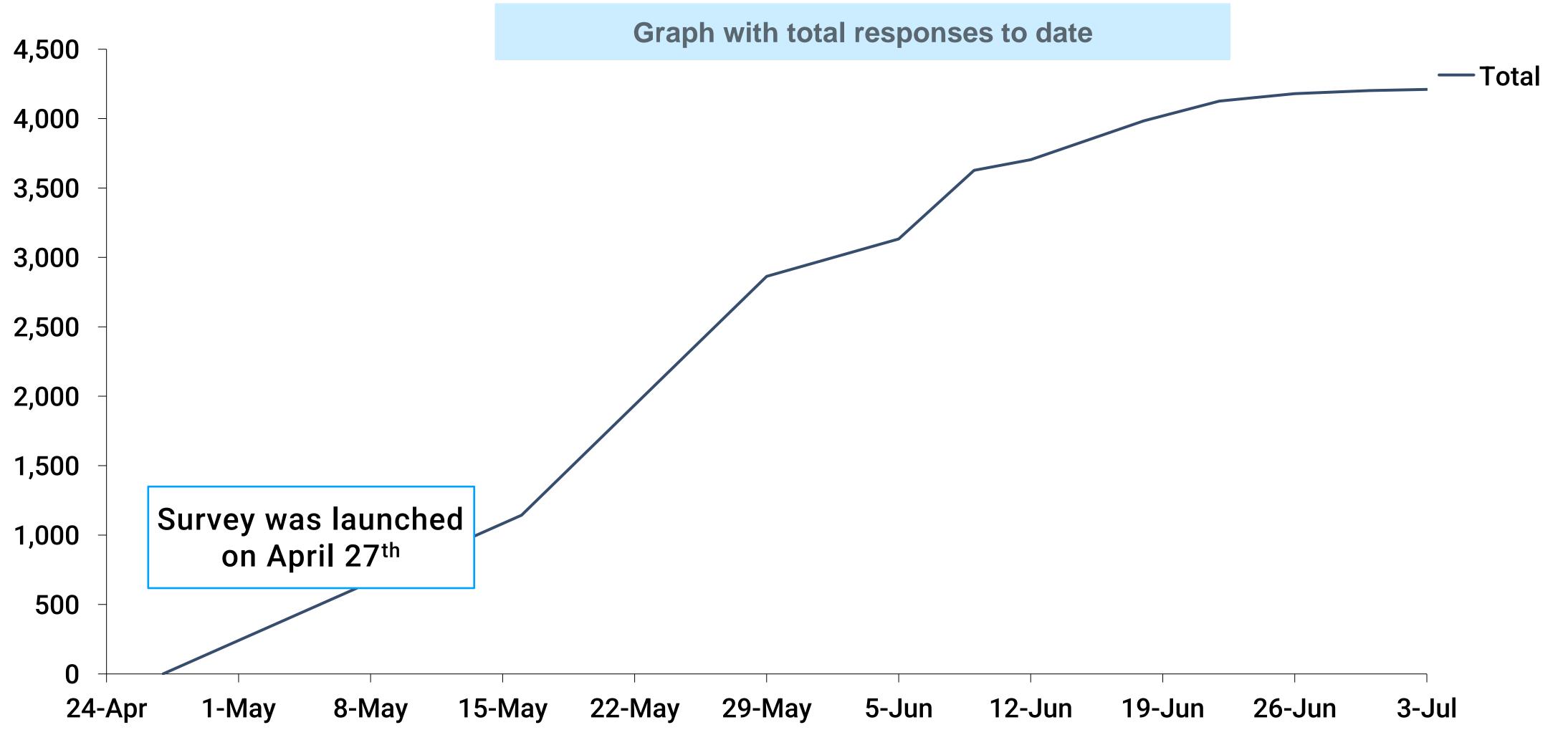
Response rate per language

The surveys with the highest response rates have been Spanish, French, German, Italian and English



Total response rate

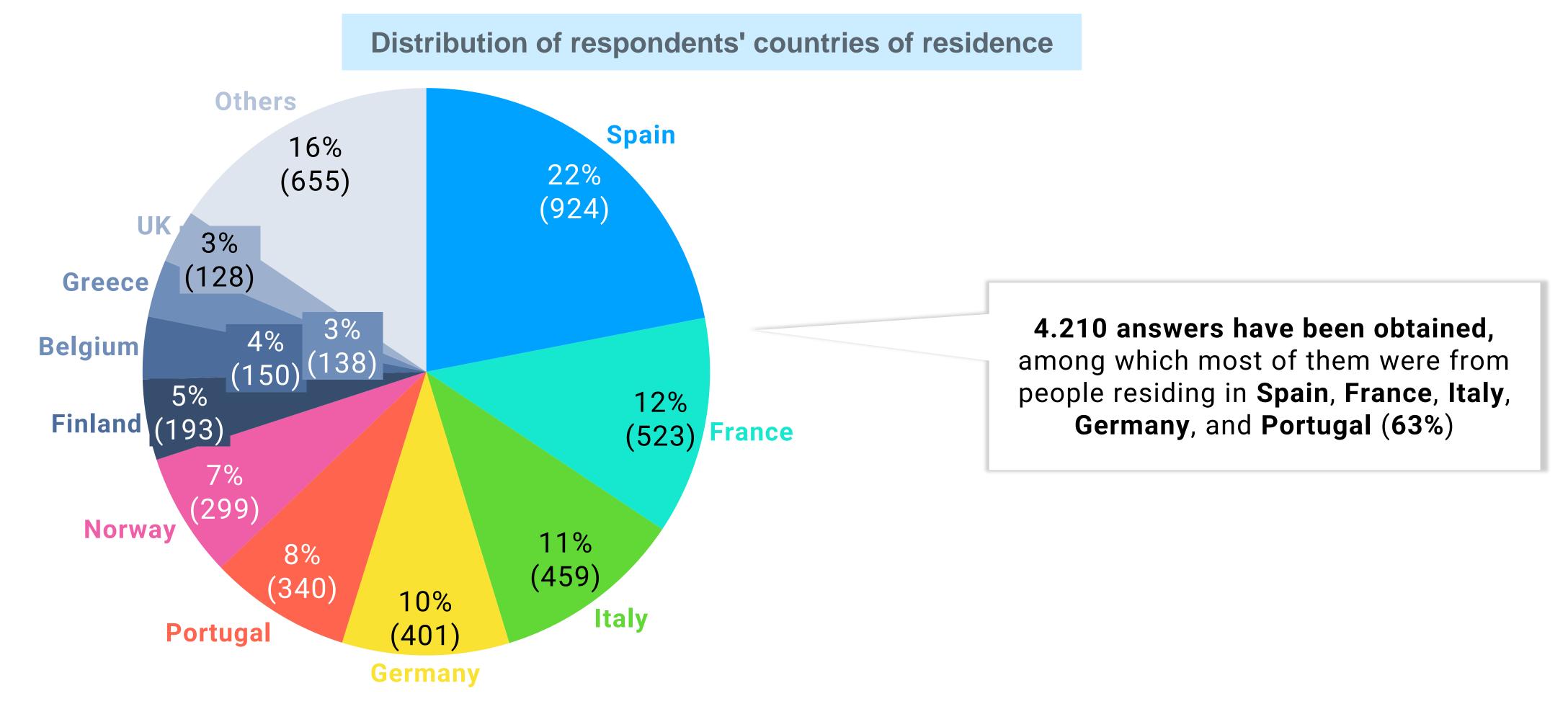
A total amount of 4.210 answers have been obtained





Countries of residence

On the other hand, if we look at the countries of residence of the respondents, the most represented ones are also Spain, France, Italy, and Germany, while Portugal emerges, and the UK loses traction

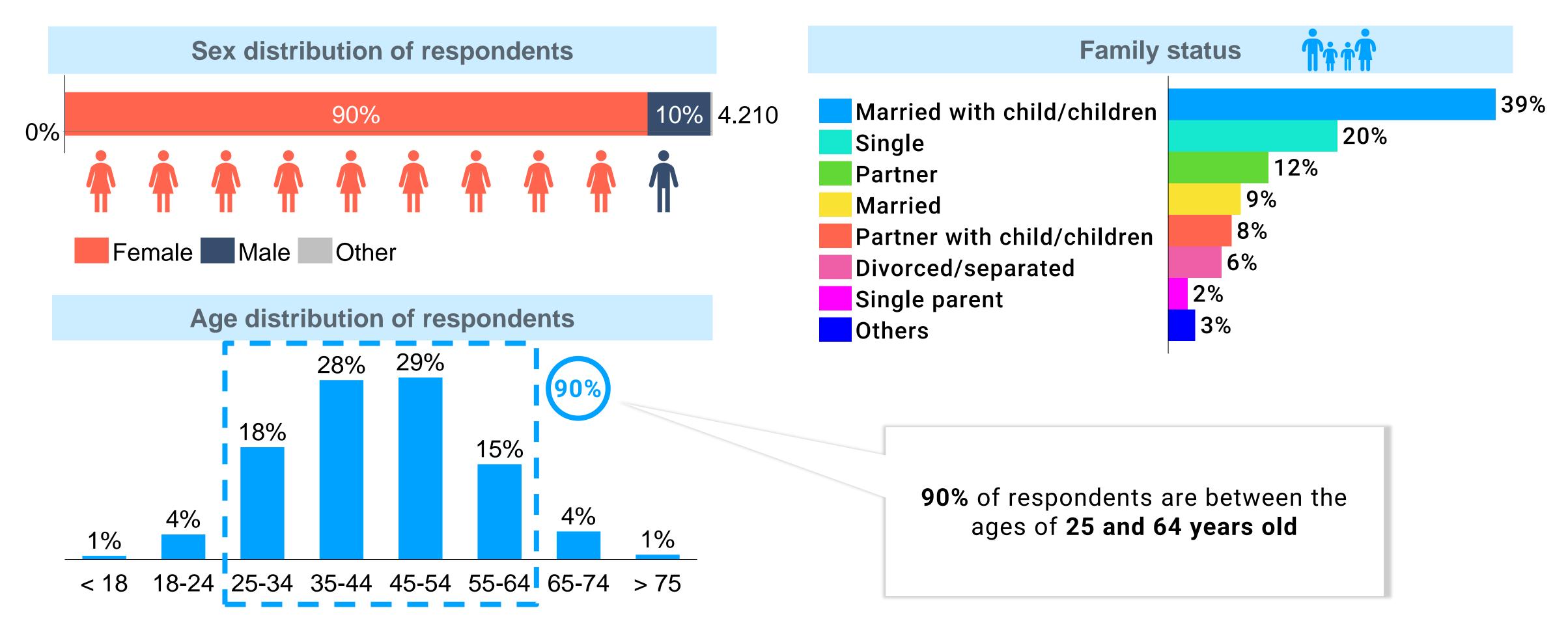






Sociodemographic data (1/2)

Population corresponds mainly to women between 25 and 64 years of age, married with children



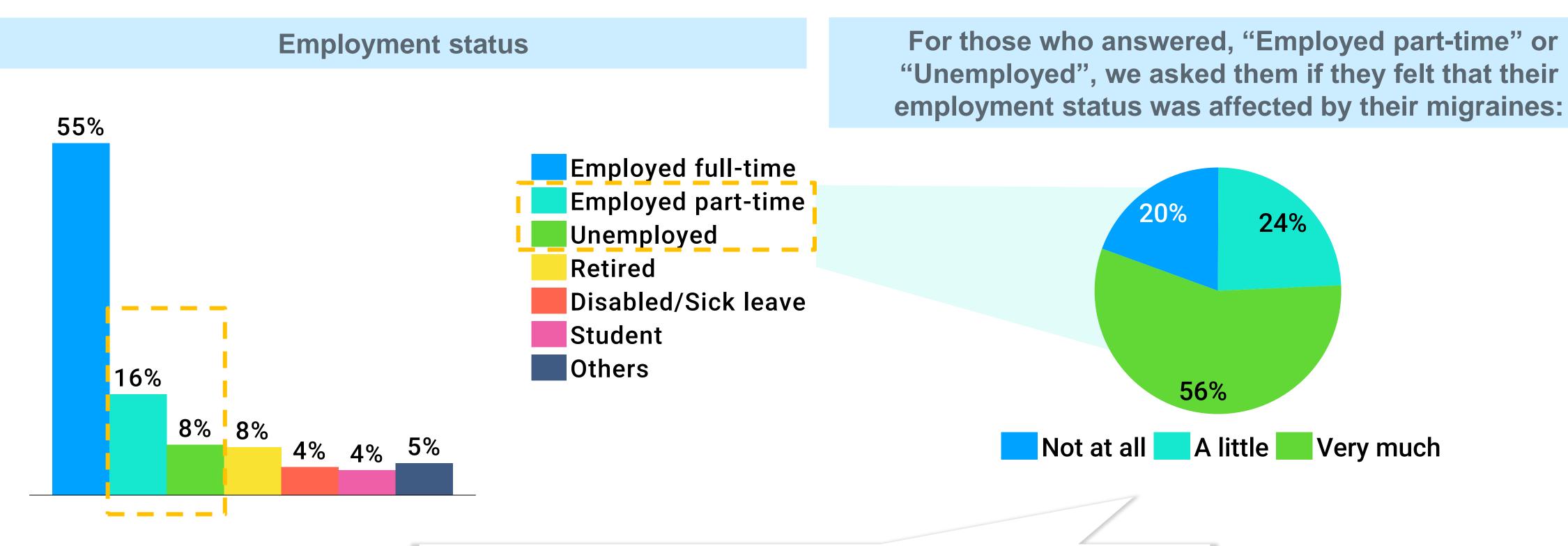






Sociodemographic data (2/2)

In addition, most of them (71%) are employed full or part-time, followed by 16% unemployed or retired



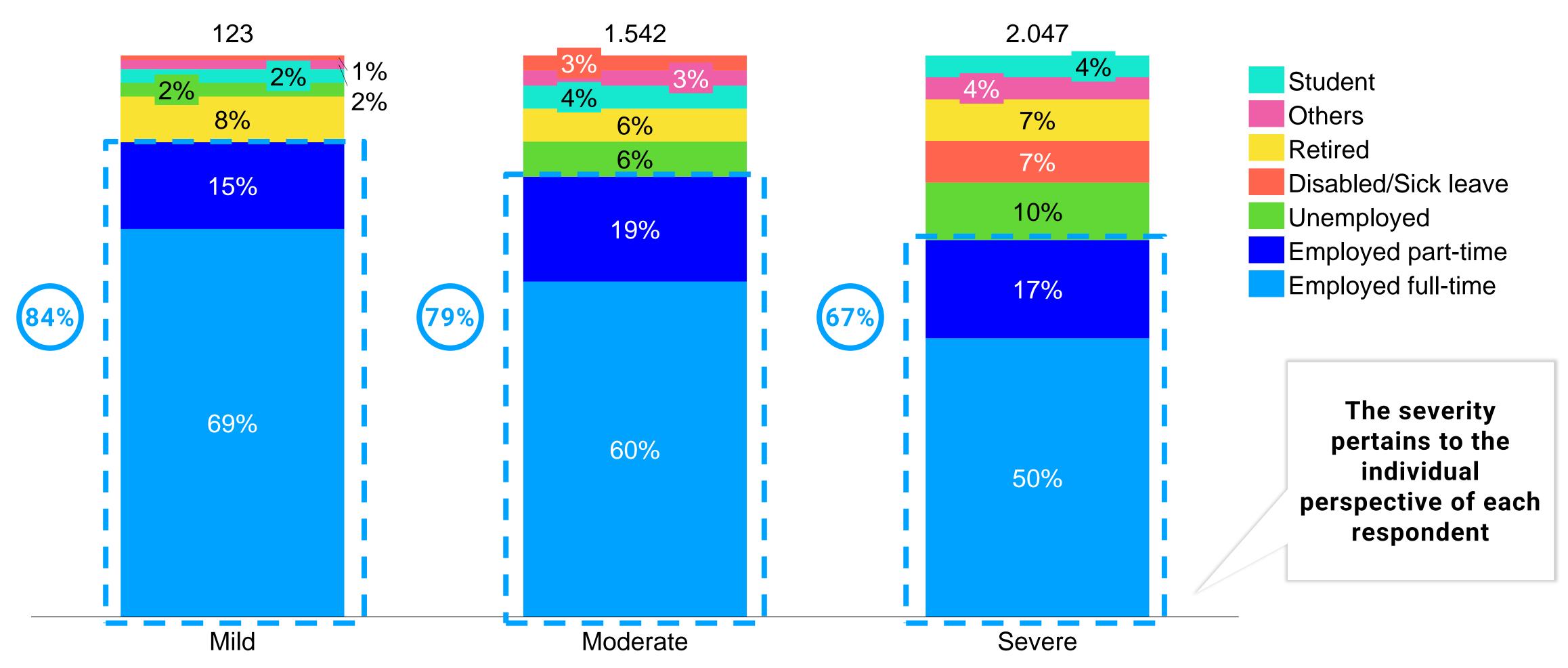
24% of the respondents were employed part-time or unemployed, among which 80% think that their employment status has somehow been affected by migraines





Employment status vs severity of the disease

The level of employment exhibits a distinct correlation with the severity of the disease: as the severity increases, the employment rate declines proportionally

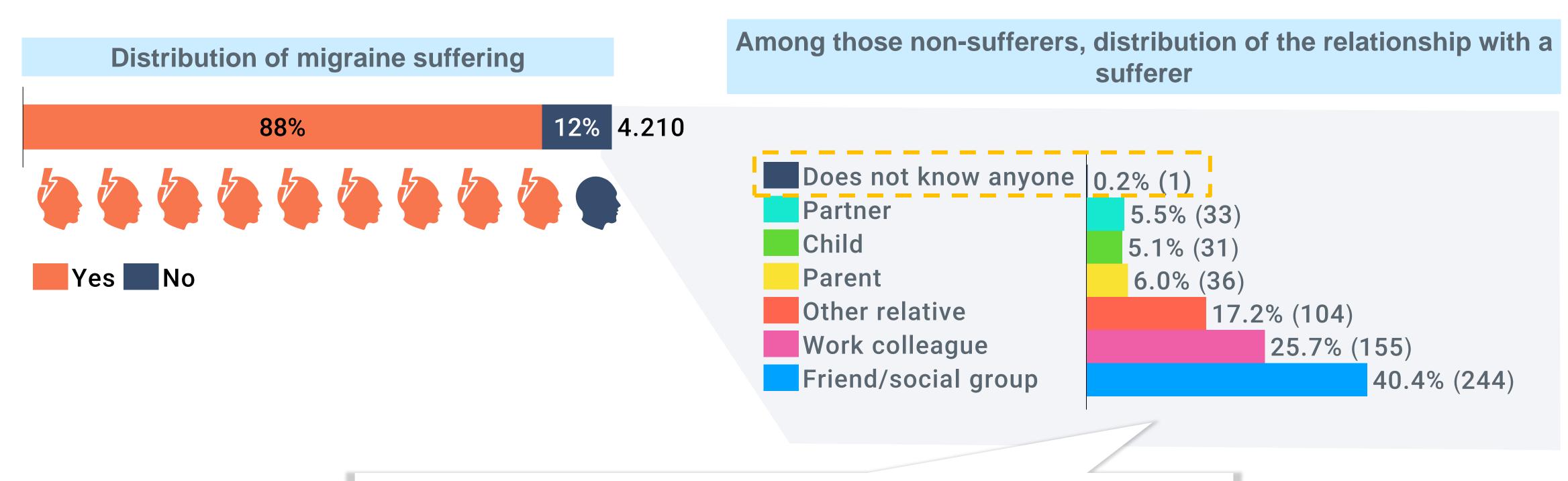






Sufferers vs non-sufferers

Within the sample, 88% of the respondents suffer from migraines. In addition, among non-sufferers, only 0.2% do not have any relationship with sufferers



Out of all the **non-sufferer respondents**, only **0.2**% of them **reported no** relationship with a **migraine patient**, which may give some **bias** to the results regarding non-sufferers



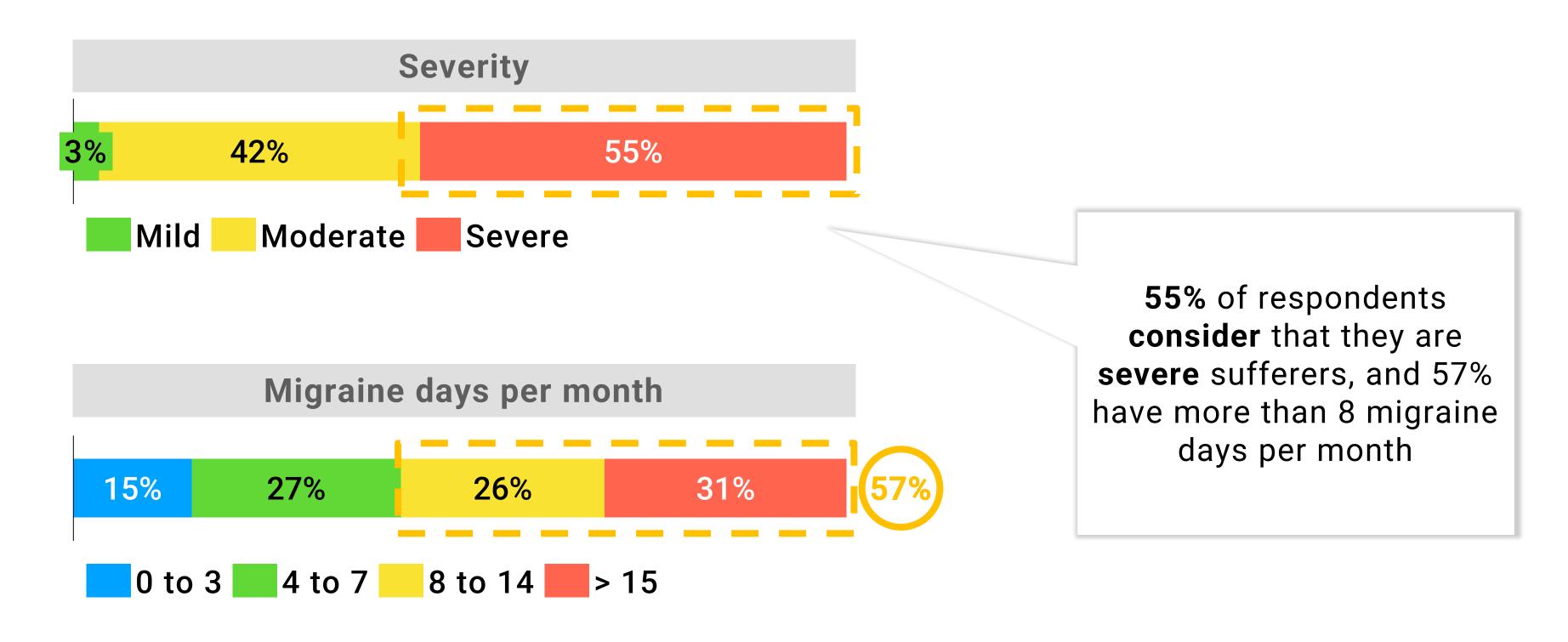




Migraine sufferers' perception of their disease

Most respondents are considered severe patients, with more than 8 migraine days per month

Regarding migraine sufferers, they were asked to describe their attacks (most frequent ones, those representing >60%) according to different parameters and these were the results:

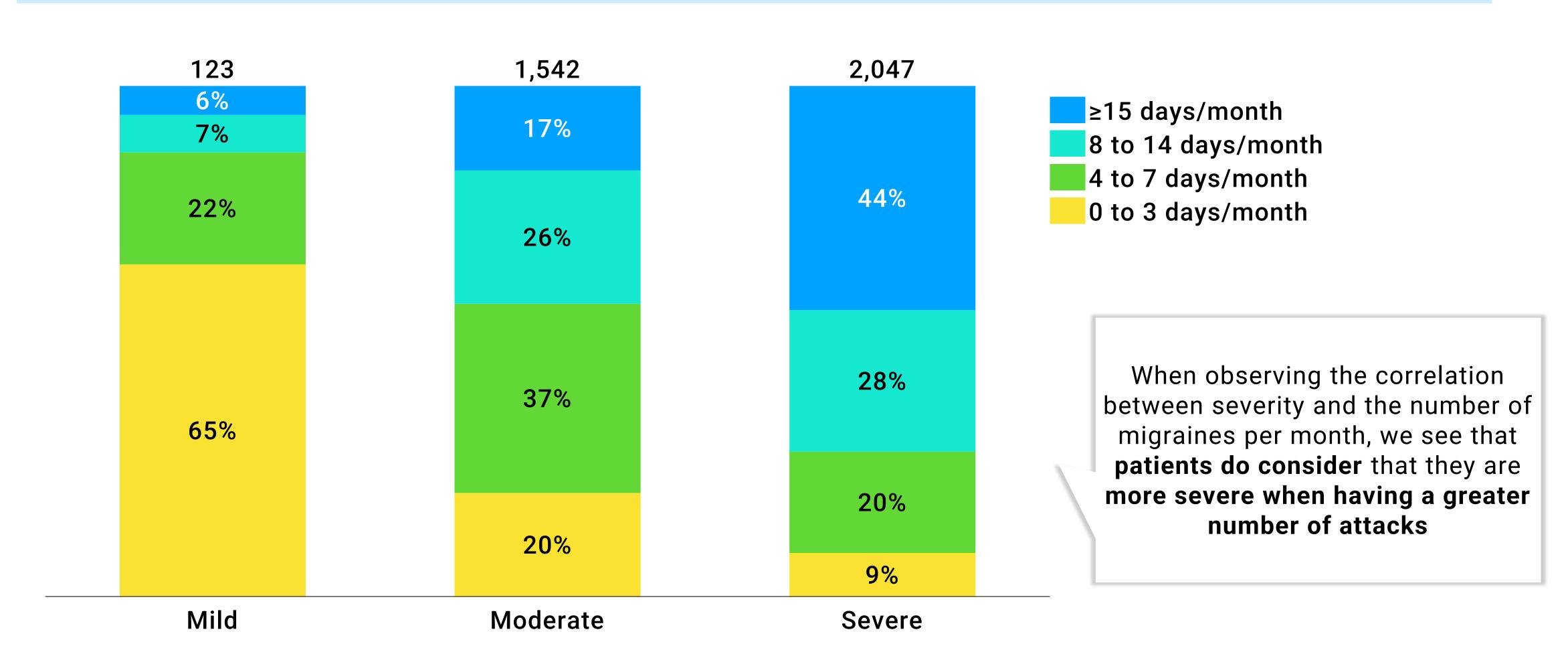






Migraine sufferers' perception of their disease

Correlation between the severity and the number of migraine days per month



Notes: Sample size: 3.712

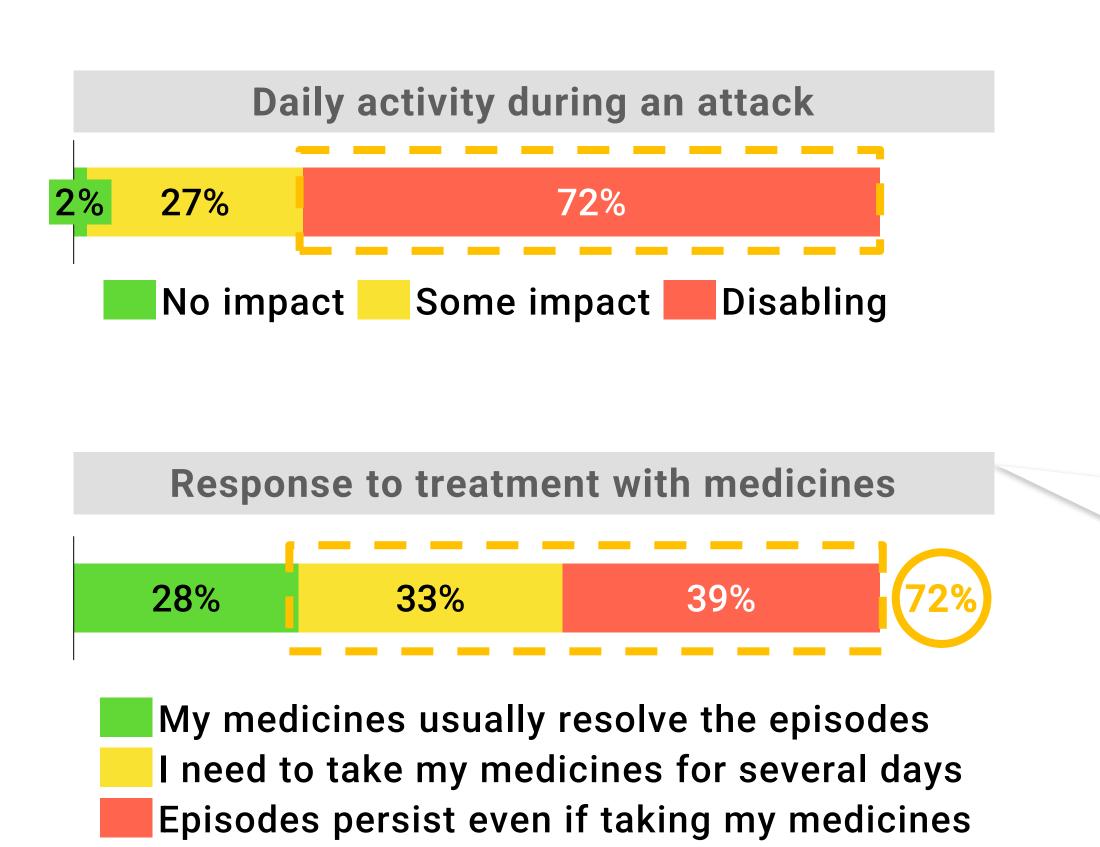




Migraine sufferers' perception of their disease

Most respondents are considered severe patients, with more than 8 disabling attacks per month

Regarding migraine sufferers, they were asked to describe their attacks (most frequent ones, those representing >60%) according to different parameters and these were the results:

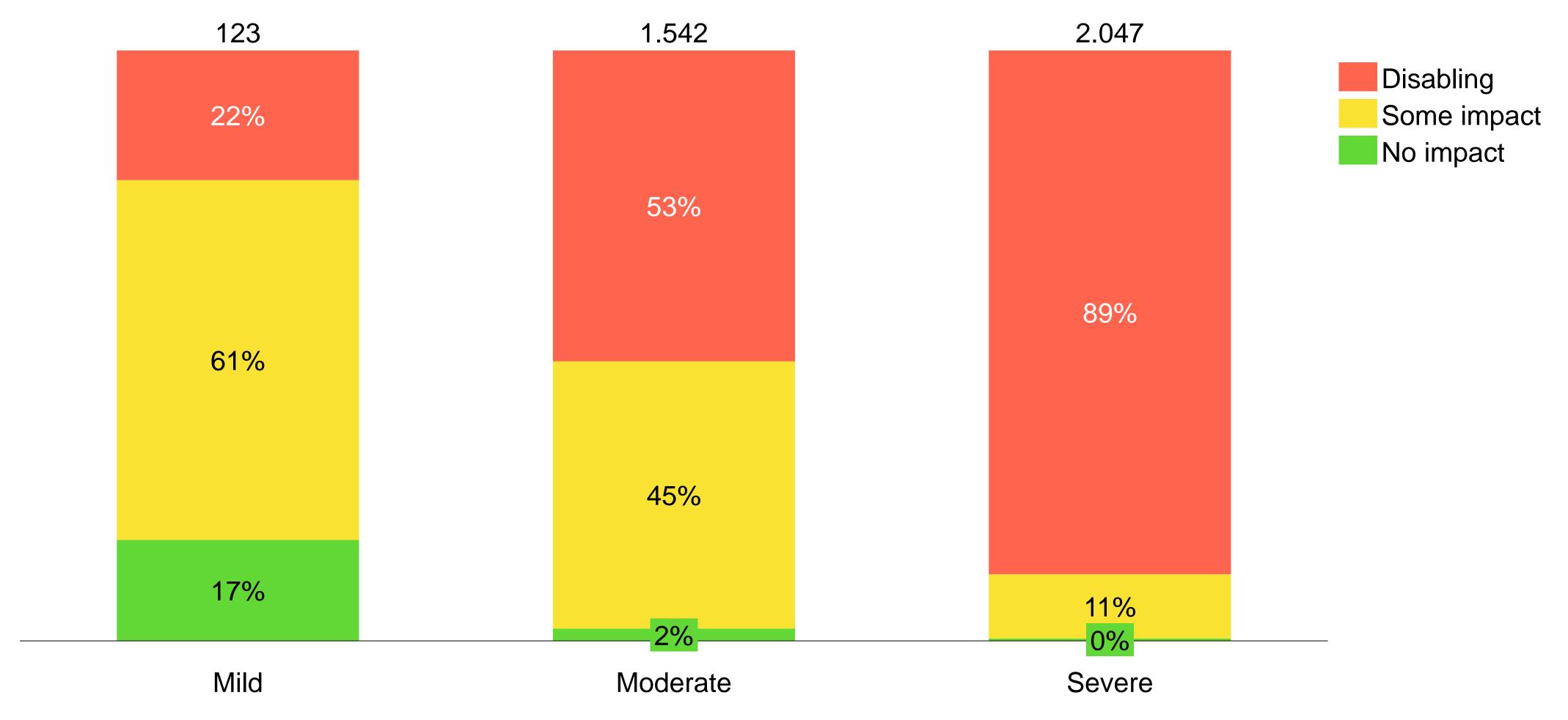


- Migraine episodes have some degree of impact on daily activity almost <u>always</u>
- Treatment seems to provide good control of episodes in less than 1/3 of respondents



Response to treatment vs severity

The impact on their daily activity exhibits a distinct correlation with the severity of the disease: as the severity increases, the level of disability increases proportionally

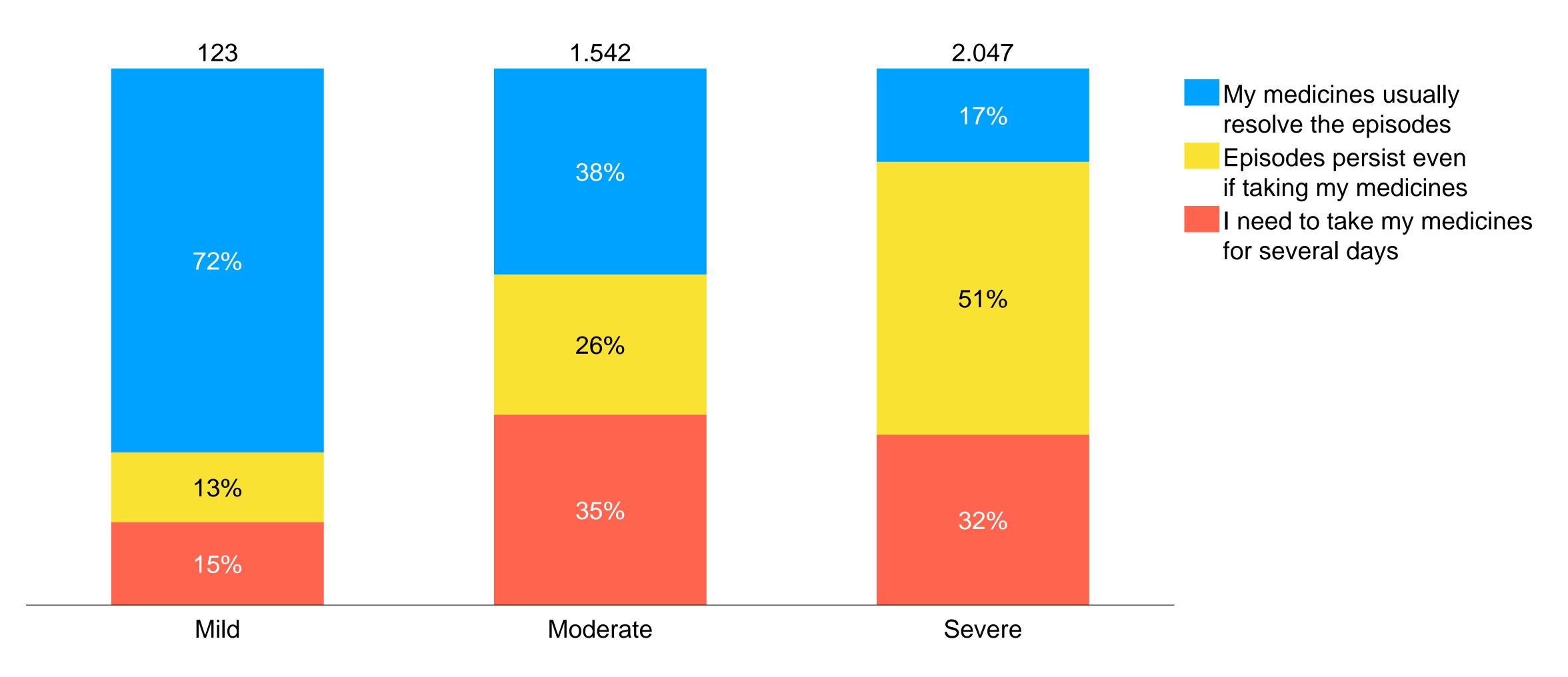








Response to treatment vs severity



Notes: Sample size: 3.712



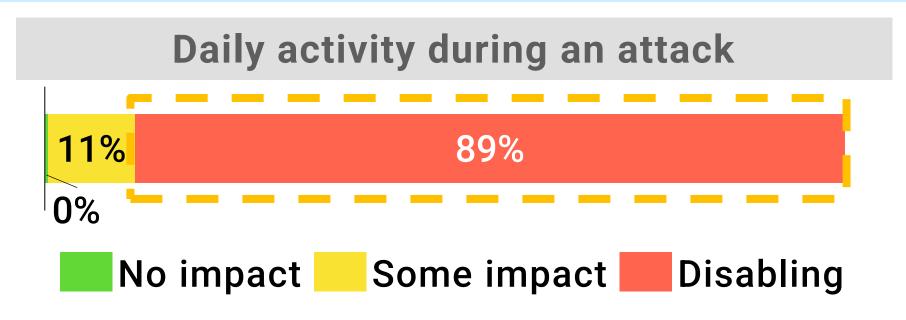
MIGRAINE SUFFERERS **

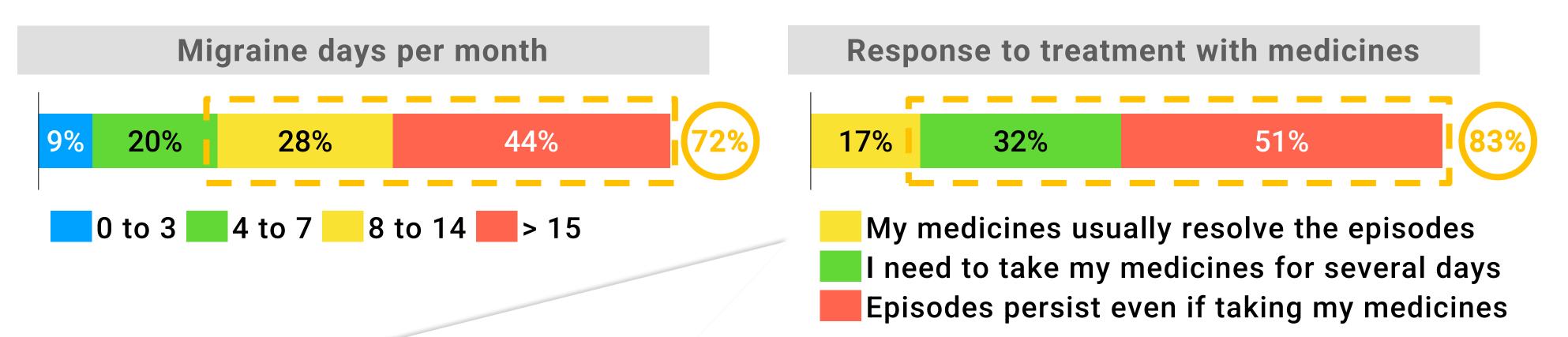
Migraine sufferers' perception of their disease

SEVERE

On the other hand, if we focus on the **SEVERE PATIENTS**, we can see that 89% are completely disabled during an attack and that 72% have more than 8 migraine days per month

Regarding only **SEVERE PATIENTS**:





When analyzing severe patients, we can see that their attacks are 89% disabling (vs 72% average from all patients), that 72% have > 8 migraine days/month (vs 59%), and that 83% of said episodes are usually not resolved with their medicines (vs 72%)

The number of migraine days a month clearly correlates with the perception of severity of the illness **Patients with** severe migraine experience more disability during the episodes, and in half of these cases, episodes are not resolved with their treatment





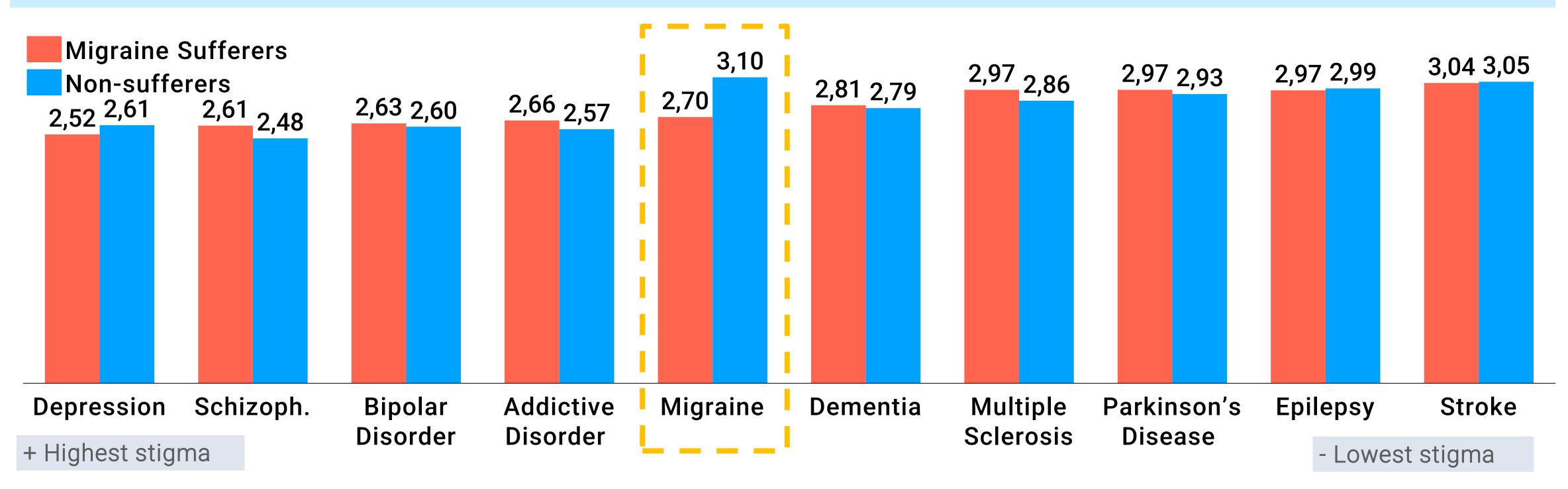




Disease-related Stigma

Mental diseases are considered more stigmatizing than other neurological diseases, migraine sufferers consider their disorder to be more stigmatizing than dementia, Parkinson's or stroke

Level of stigma associated with a mental or neurological disease, with 1 indicating the most significant cause of stigma



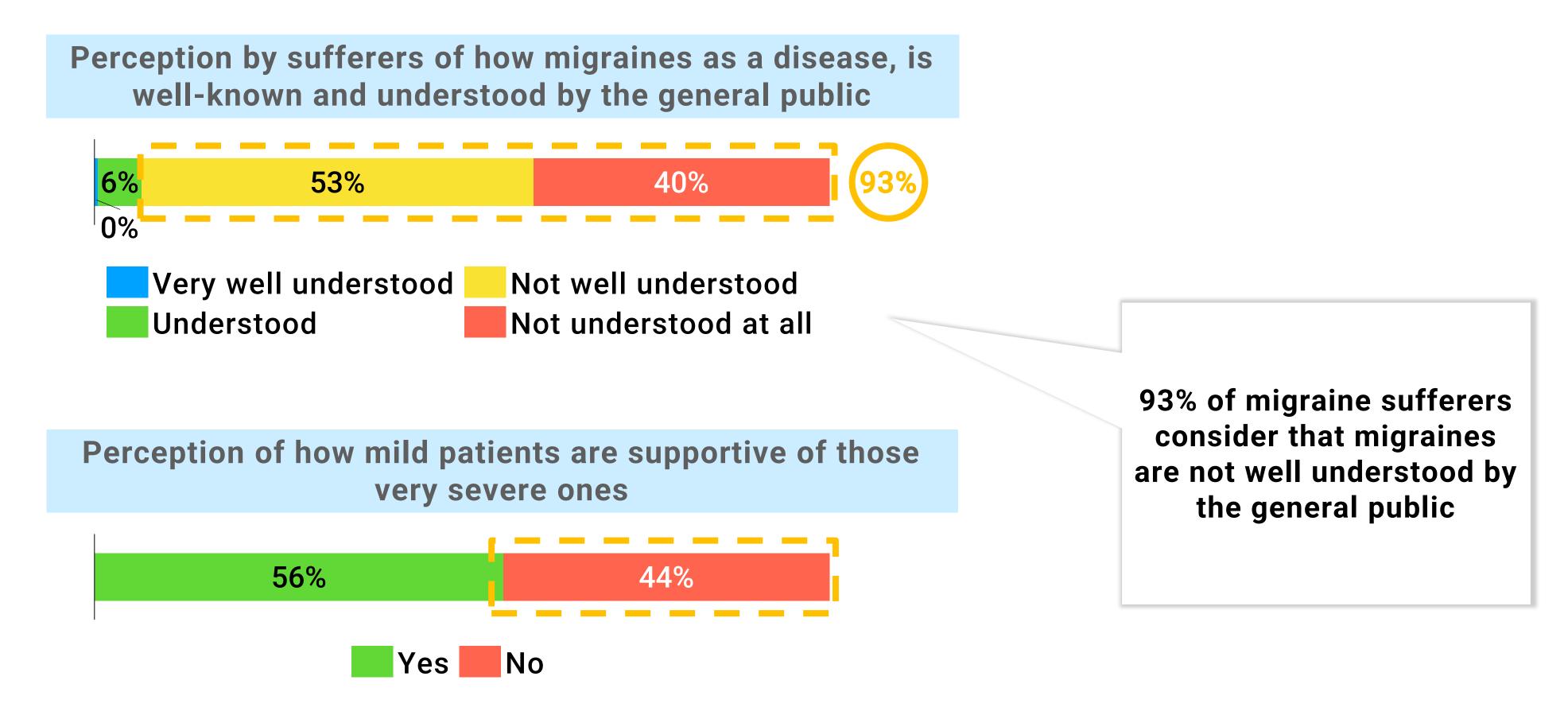
Non-sufferers, despite the bias of most of them having a relationship to a migraine-sufferer, have given migraines the lowest stigma rating (3,10)





Migraine stigma for <u>sufferers</u>

The focus now turns to the stigma associated with migraines: migraine sufferers were asked to rate their perception of people with their disease





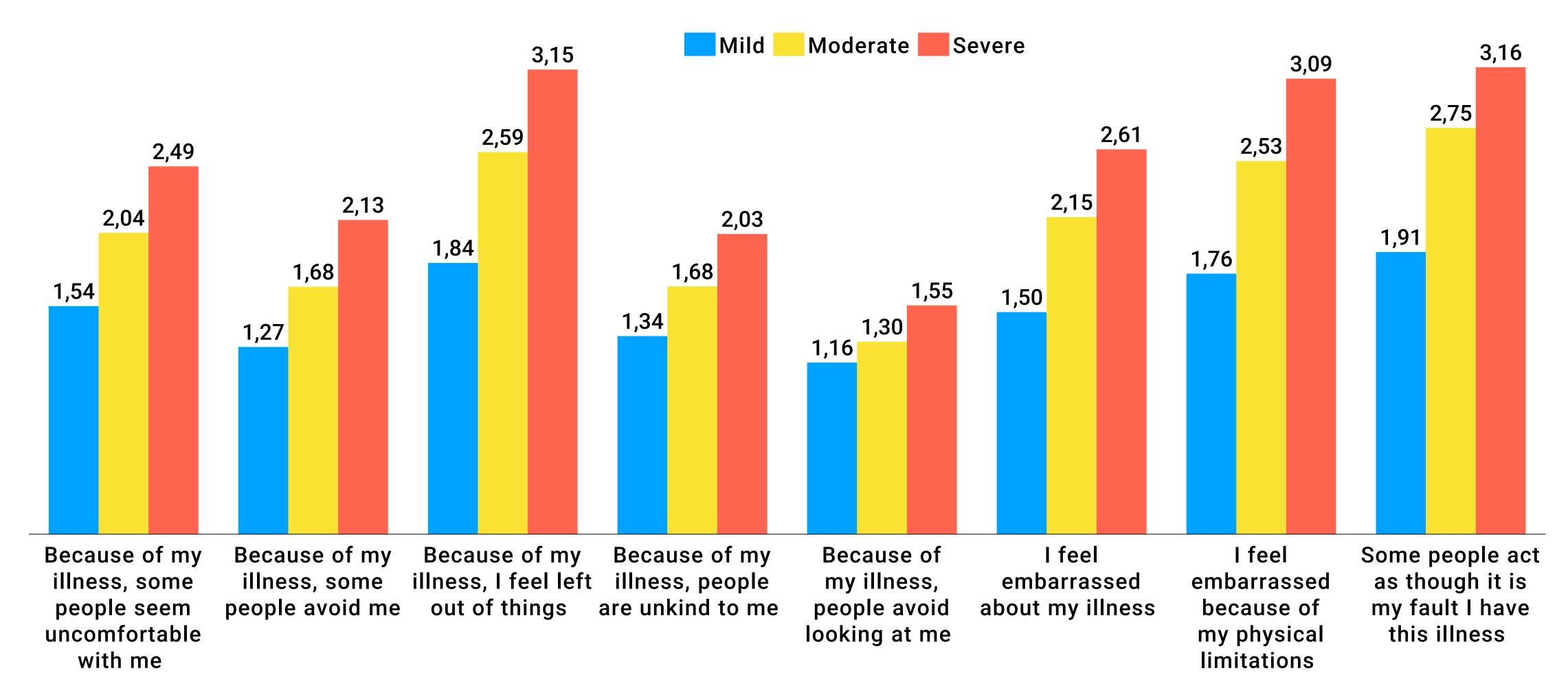
Migraine stigma for <u>sufferers</u>

The focus then turned to the self-stigma associated with migraines: migraine sufferers were asked to rate their feelings

Stigma Scale for Chronic Illness (SSCI) 8-item: Because of my illness, people avoid looking at me 1,43 1,86 Because of my illness, people are unkind to me 1,91 Because of my illness, some people avoid me Never 2,27 Because of my illness, some people seem uncomfortable with me Sometimes 2,38 I feel embarrassed about my illness 4 - Often 2,81 I feel embarrassed because of my physical limitations 5 – Always 2,87 Because of my illness, I feel left out of things 2,95 Some people act as though it is my fault I have this illness



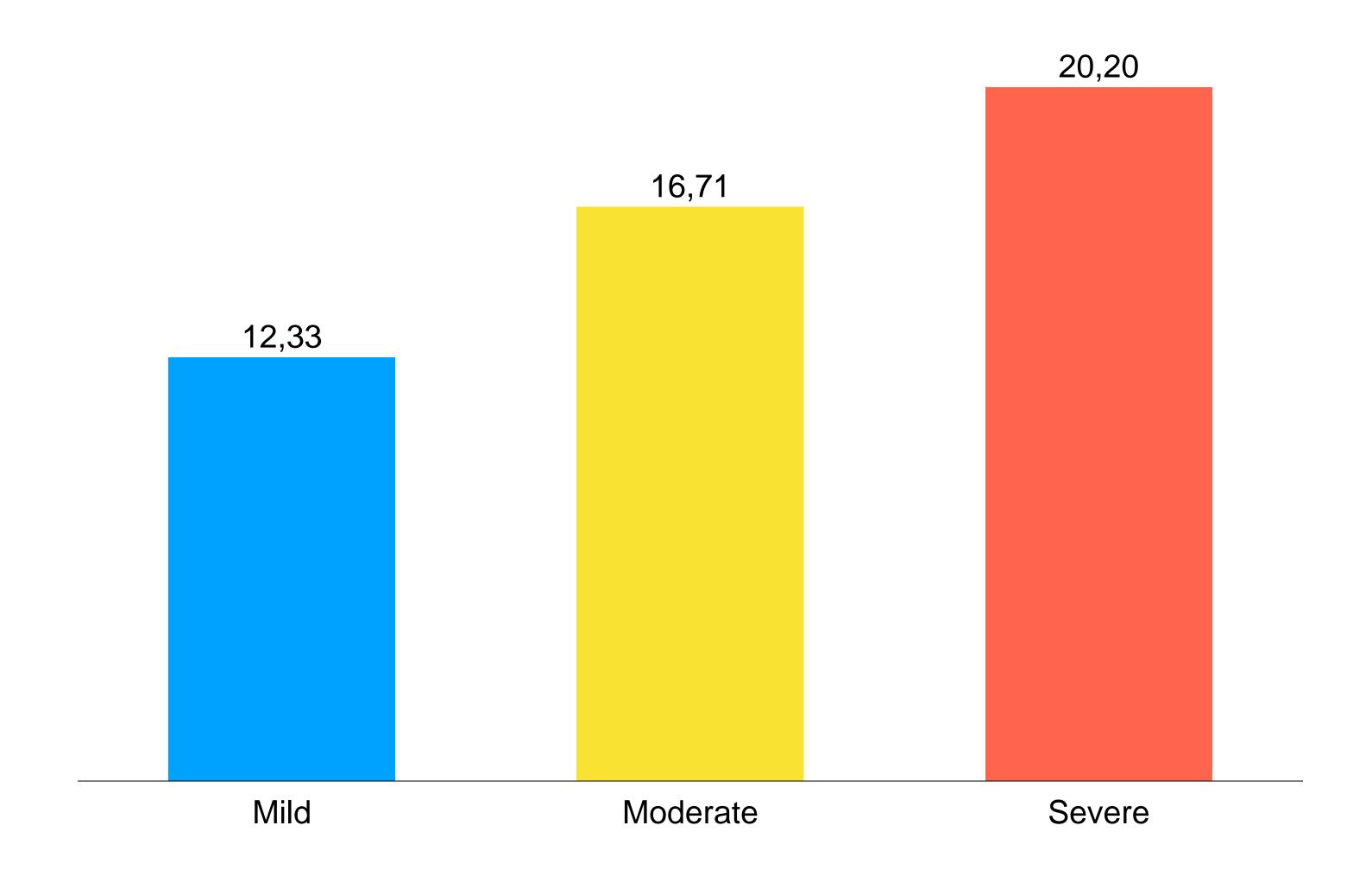
SSCI split per severity of the disease





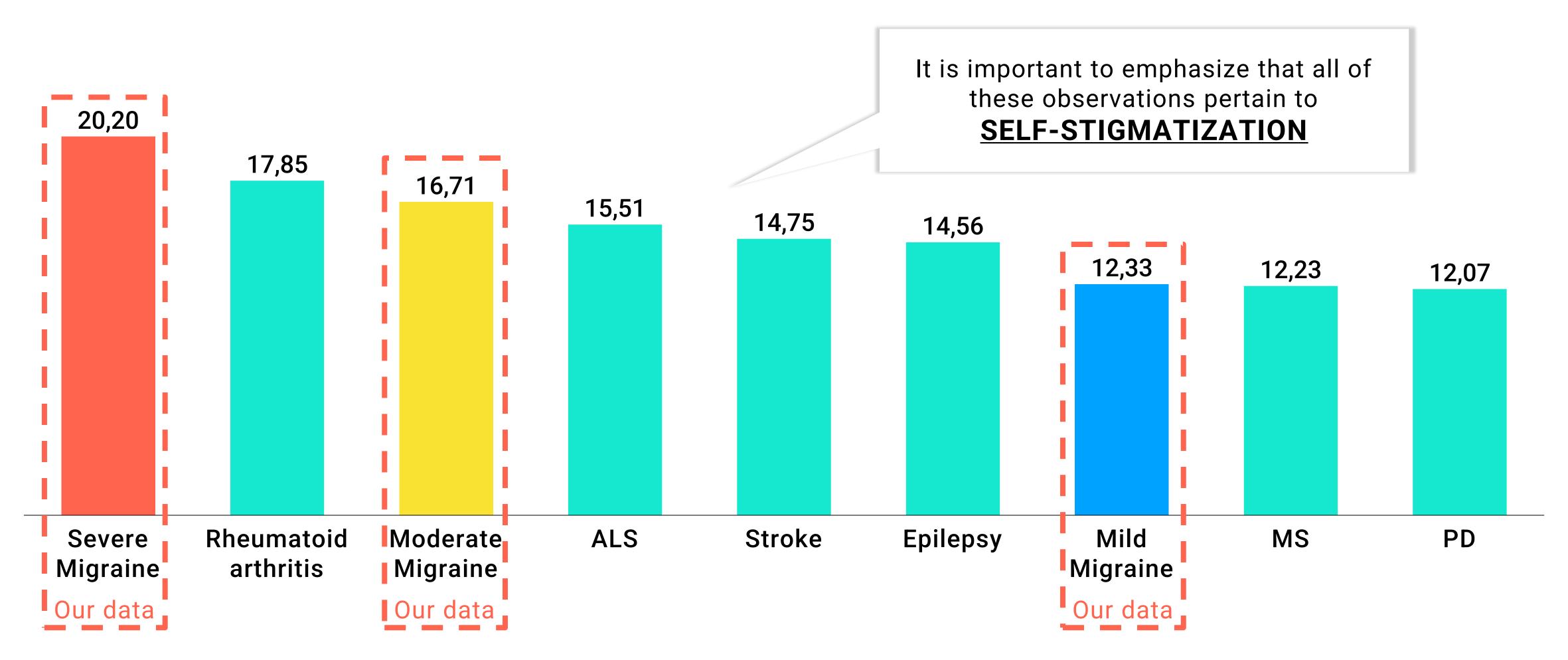


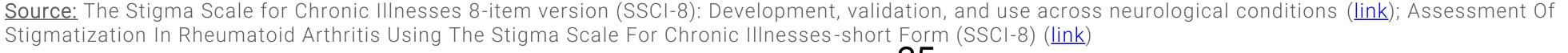
Total rank of SSCI per severity of the disease



Stigma Scale for Chronic Illness (SSCI) 8-item:

Based on the responses to the SSCI-8 items questionnaire, migraine is ranked as more stigmatizing than other chronic diseases, but strongly varies according to the severity





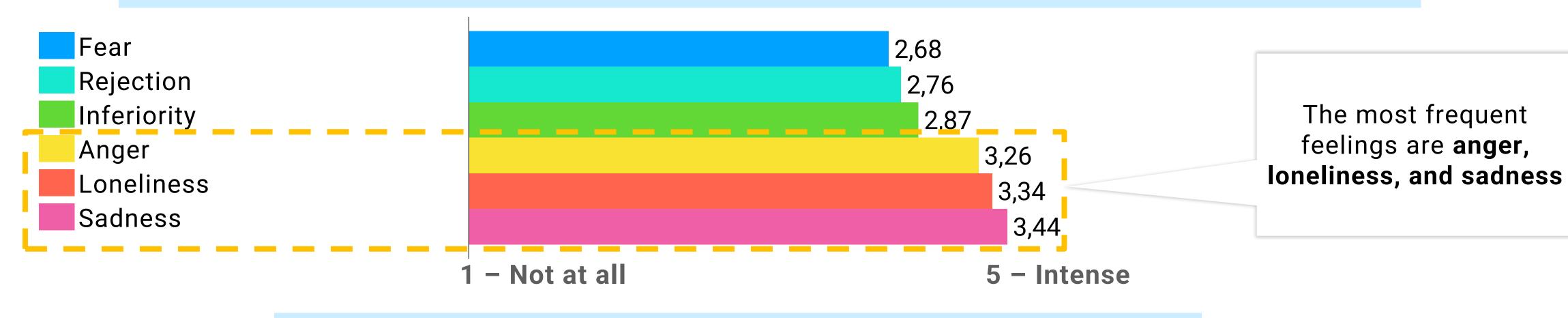




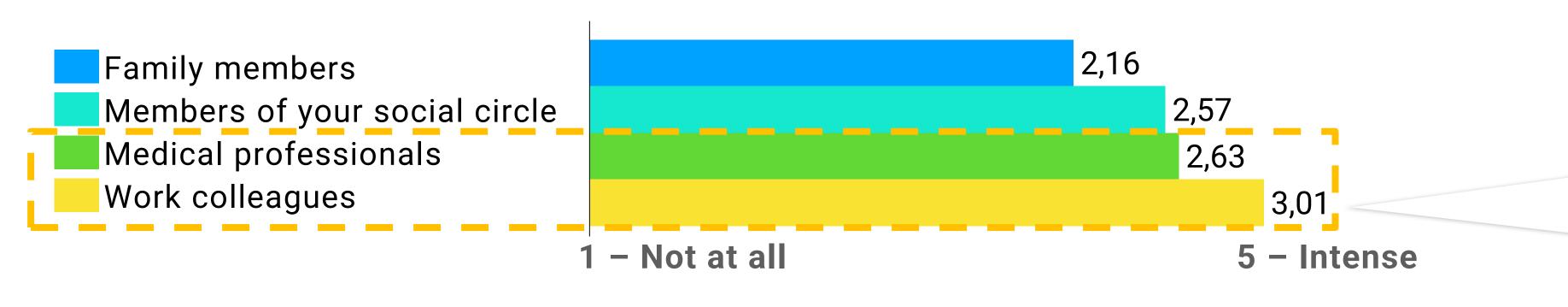
Migraine stigma for <u>sufferers</u>

Stigma produces anger, loneliness, and sadness and is mostly perceived within the work environment and among medical professionals

How strongly do you feel the following emotions when experiencing stigma related to your migraine



How strongly do you feel stigma with the following people in your life?



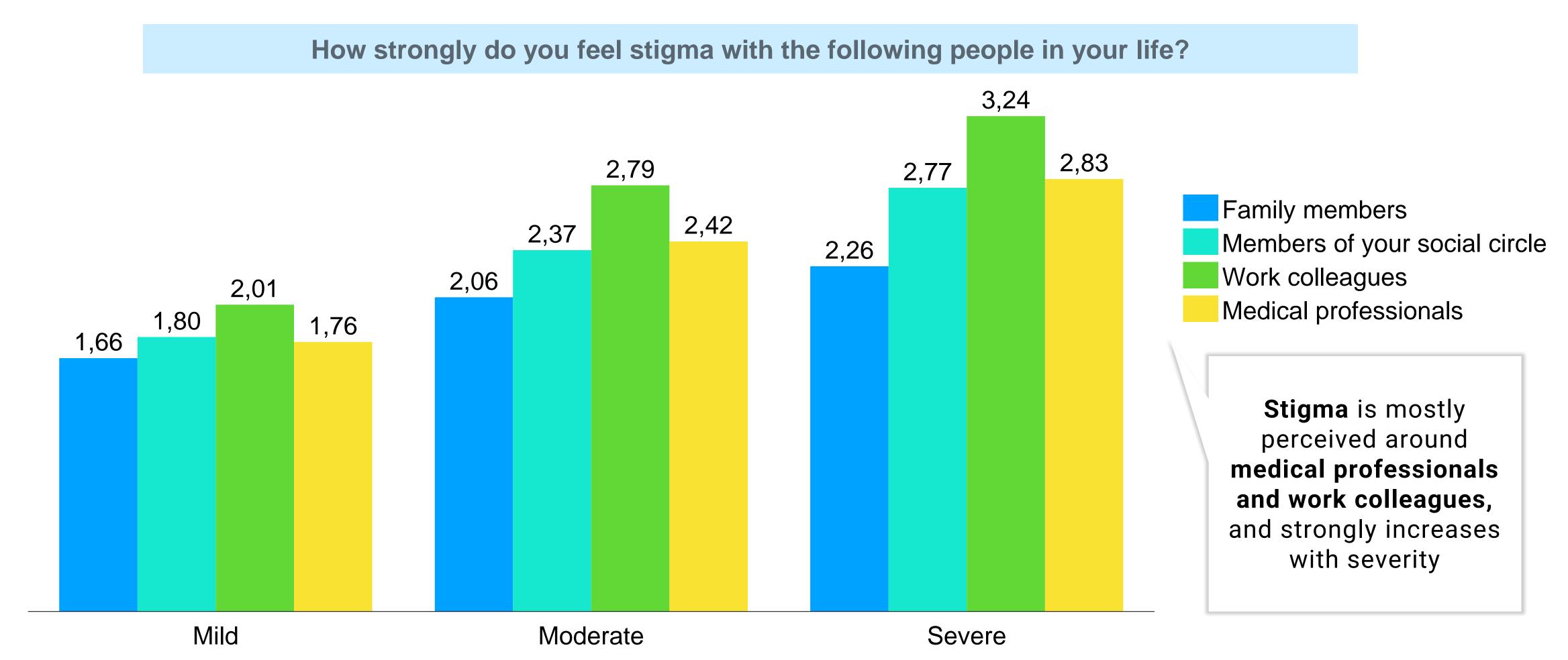
Stigma is mostly perceived around medical professionals and work colleagues





Migraine stigma for <u>sufferers</u>

Stigma is mostly perceived within the work environment and among medical professionals, especially in moderate and severe patients



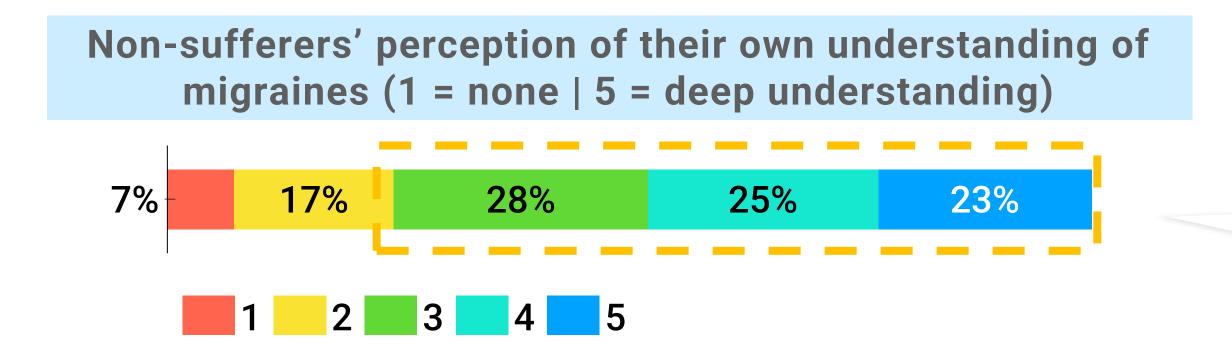






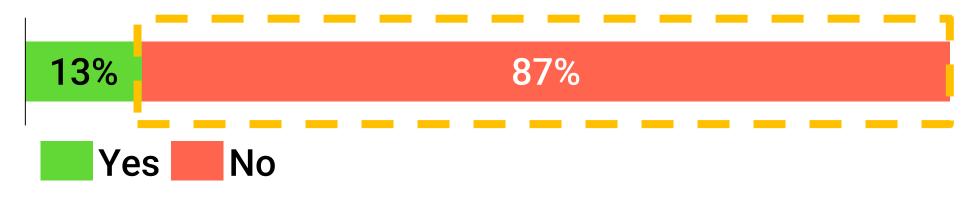
Migraine stigma for non-sufferers (1/3)

Non-sufferers consider the disease is not well understood by general public



76% of non-sufferer respondents believe that they have a good understanding of migraines, which again highlights the possible bias in this survey





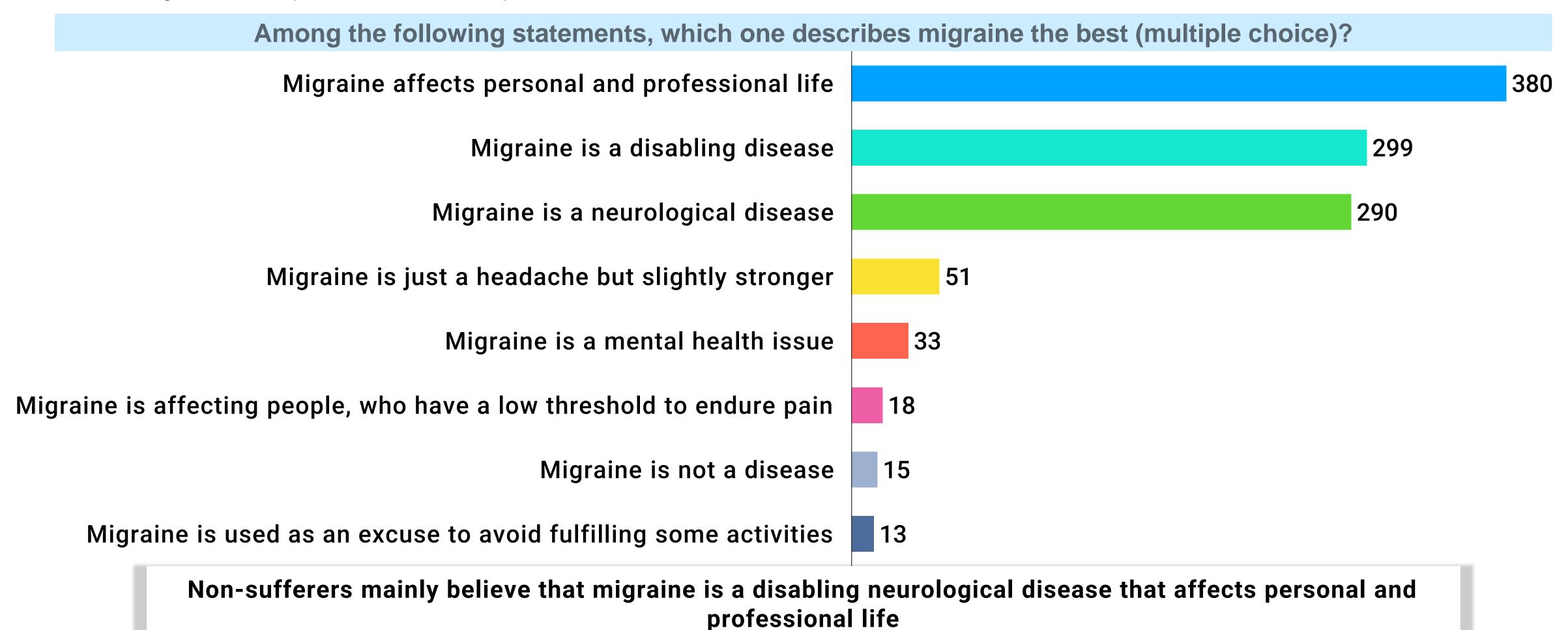
87% of non-sufferer respondents consider that migraines are not well understood by the general public, very much in line with the sufferers who rated this same question with 93%





Migraine stigma for non-sufferers (3/3)

Majority of responders know migraine is a neurological disease with an impact in daily activity and in personal and professional life



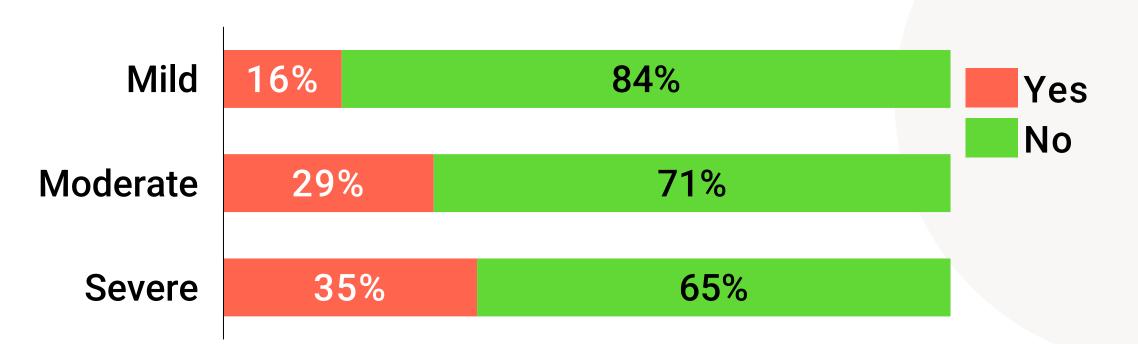




Medical professionals' stigma for sufferers

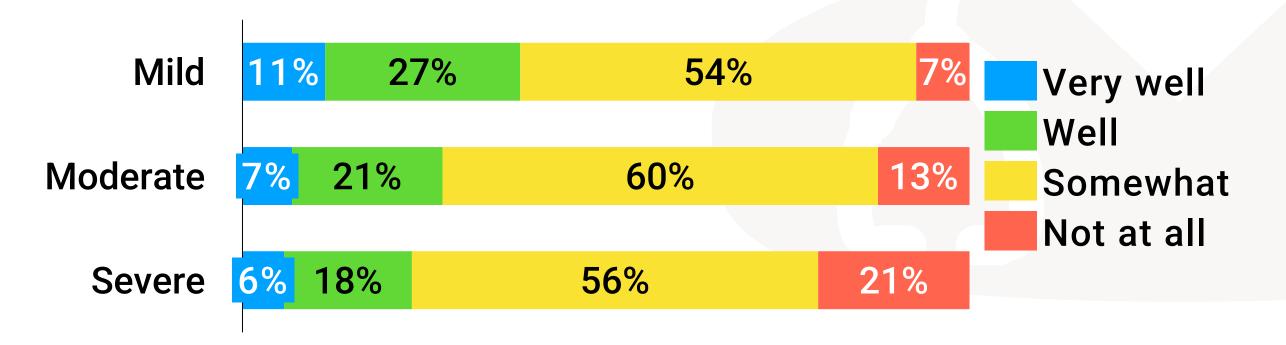
Regarding medical professionals, there is a clear linear relationship between the severity of migraine and their perception of medical professionals' understanding of what it is like to live with migraines





As severity increases, so too does reluctance to seek medical advice due to feeling embarrassed

How well do you feel medical professionals understand what it is like to live with your condition?



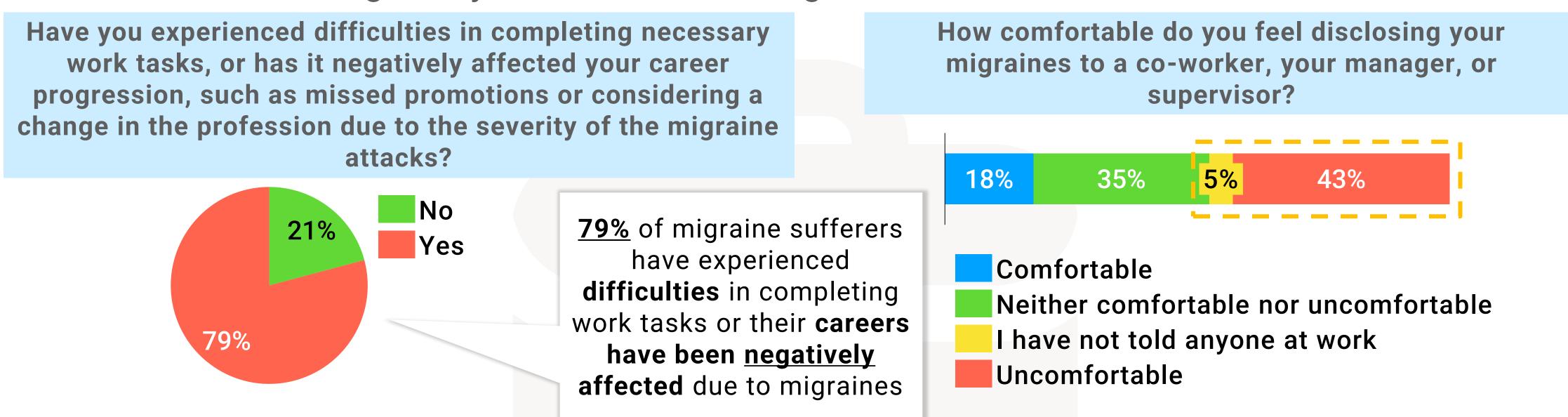
Similar to above, as severity increases, so too does a perception in lack of understanding from medical professionals



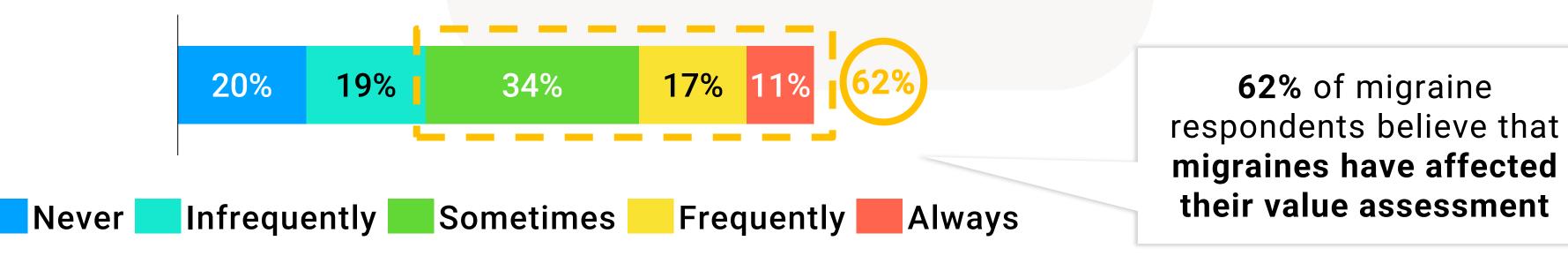


Work-related stigma for <u>sufferers</u>

80% of migraine sufferers have experienced difficulties in completing work tasks or their careers have been negatively affected due to migraines



How do you feel your condition affects the way in which your direct manager assesses your value to the company?



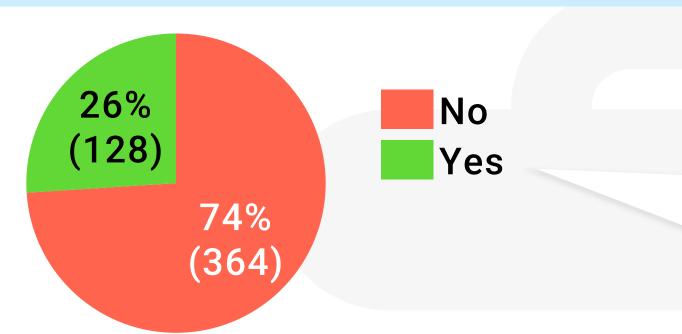




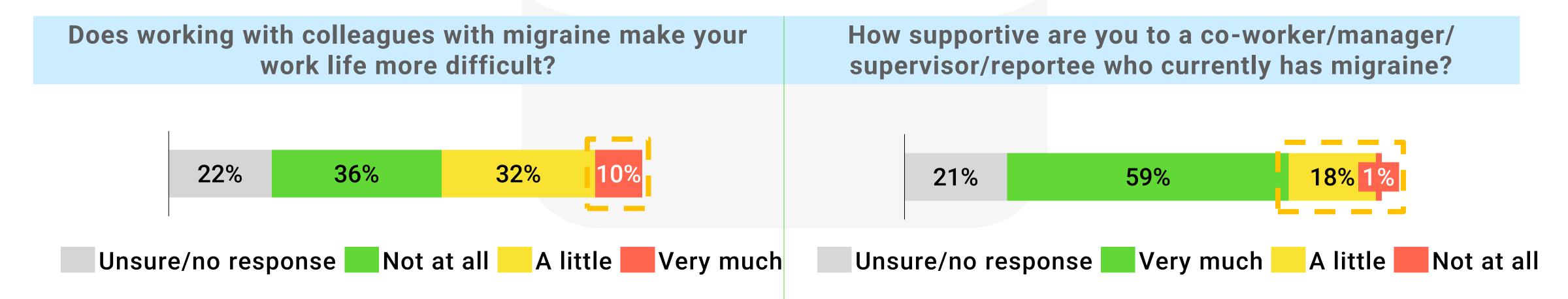
Work-related stigma for non-sufferers

On the other hand, only 26% of non-sufferers believe that working with migraine patients affects the way in which they are evaluated, and only 10% that it makes their work life more difficult

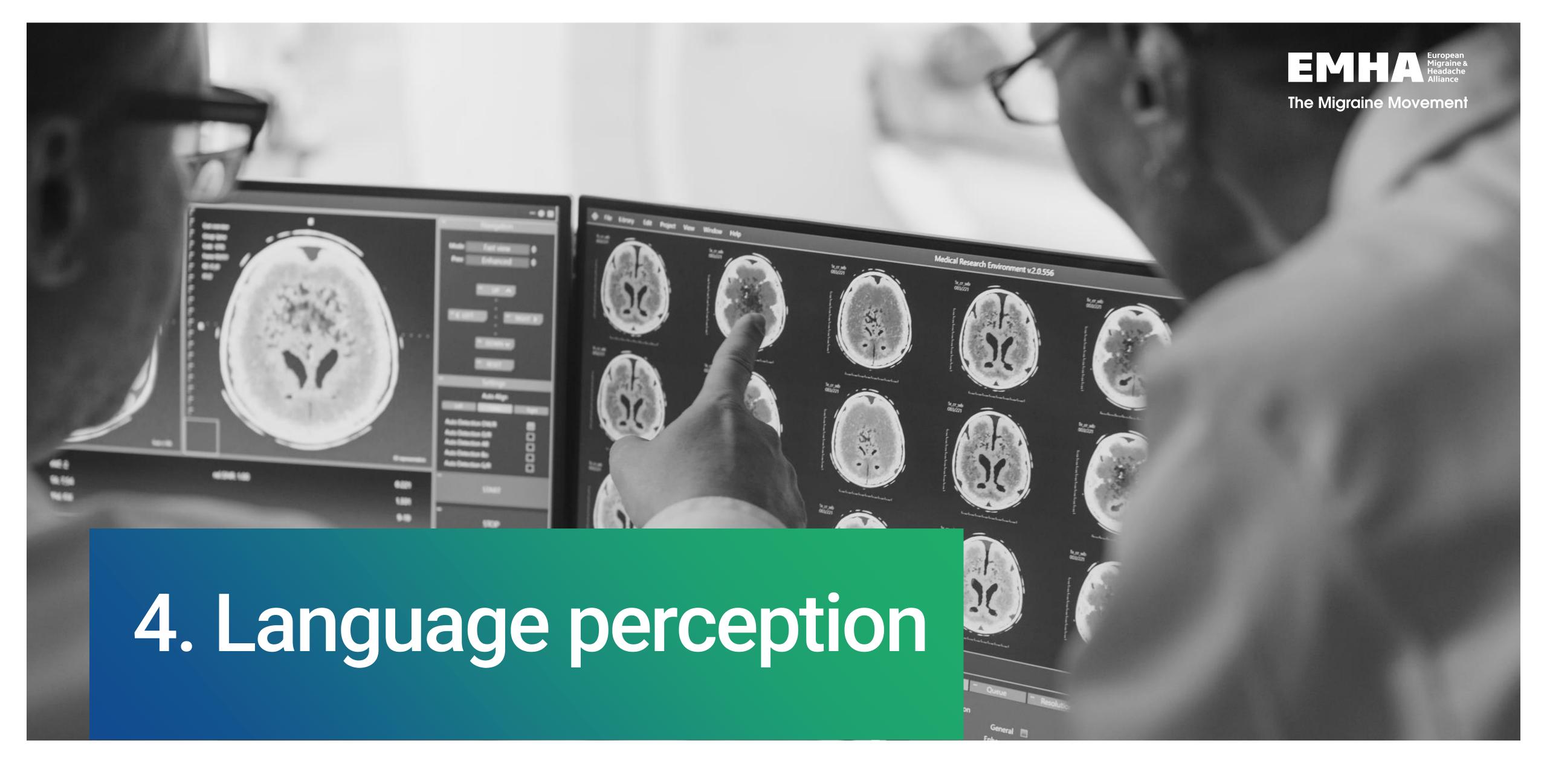
Does working with someone who has migraine affect the way in which you assess their performance?



Only 26% of non-sufferers believe that working with migraine patients has affected their performance assessment, while 62% of migraine sufferers relate that their condition has impacted to how their direct manager assesses their value to the company







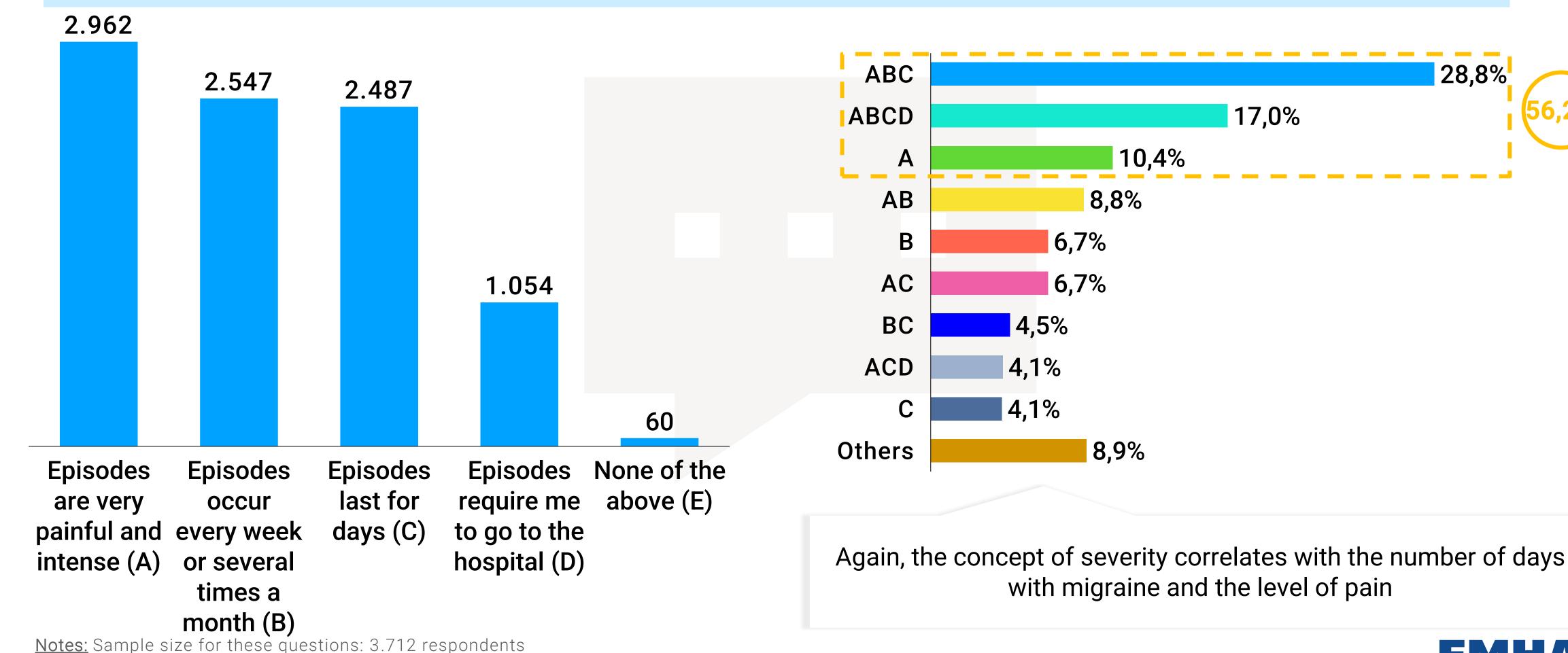


28,8%

Migraine terminology - Severe

When migraine sufferers were asked about their understanding of the word 'Severe', most of them agreed that it refers to very painful and intense episodes that last for days and occur every week or several times a month

Q13-17: What is your understanding of the following terms used to describe migraine (multiple choice)



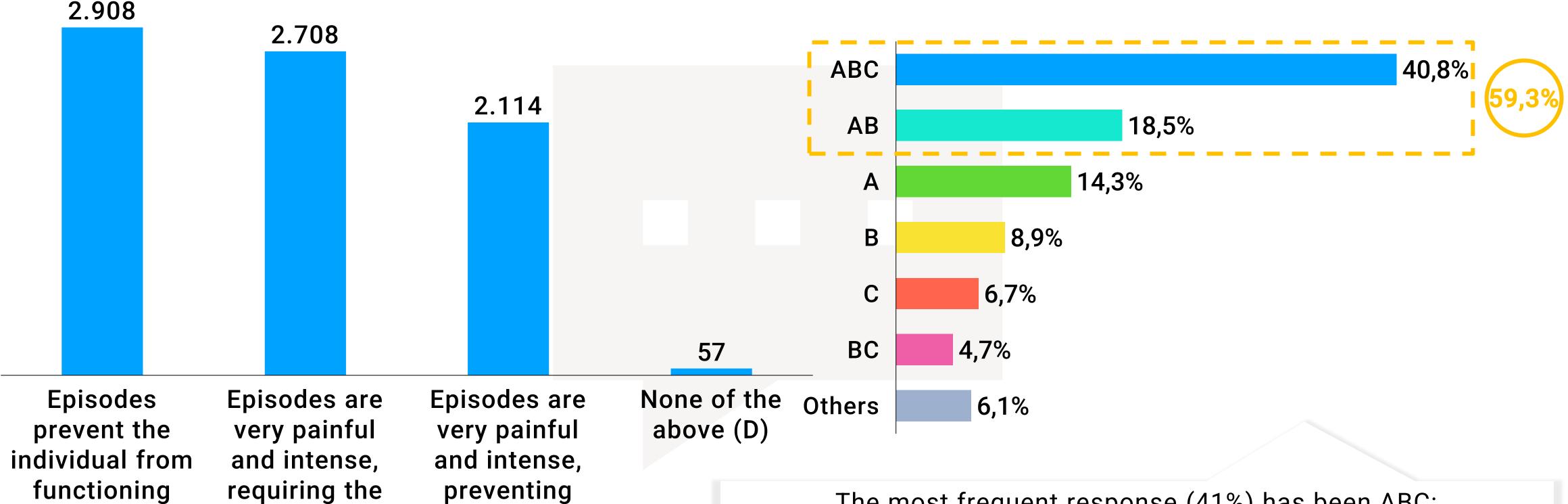




Migraine terminology - Disabling

In addition, when asked about the word 'Disabling', they agreed that episodes prevent the individual from functioning normally & are very painful and intense, requiring them to stop all activity





The most frequent response (41%) has been ABC: Episodes **prevent the individual from functioning norma**

Episodes prevent the individual from functioning normally & are very painful and intense, requiring them to stop all activity during their occurrence & even for days after them



normally

during their

occurrence (A)

individual to

stop all activity

during their

normal activity

even for days

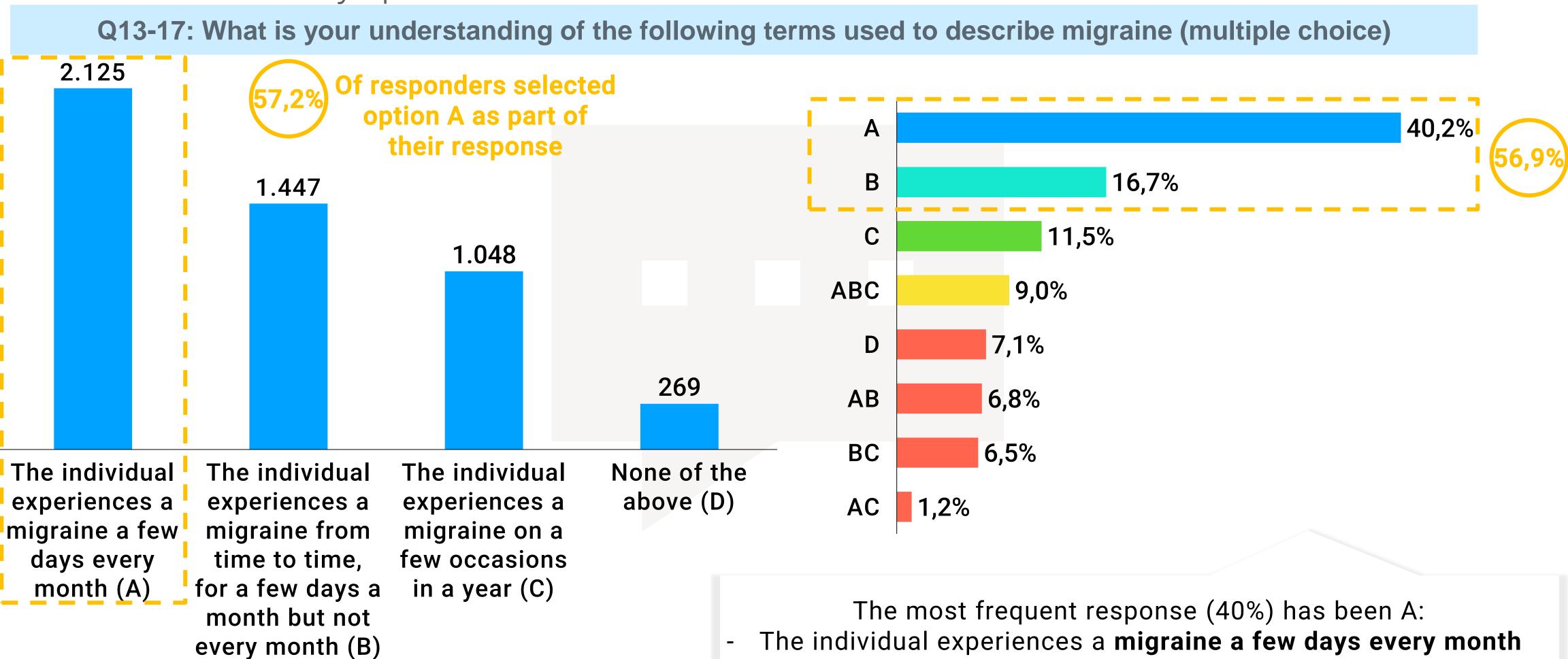
after them (C)





Migraine terminology - Episodic

Episodic migraines according to science: Episodic migraine is defined as having a migraine on fewer than 15 days per month



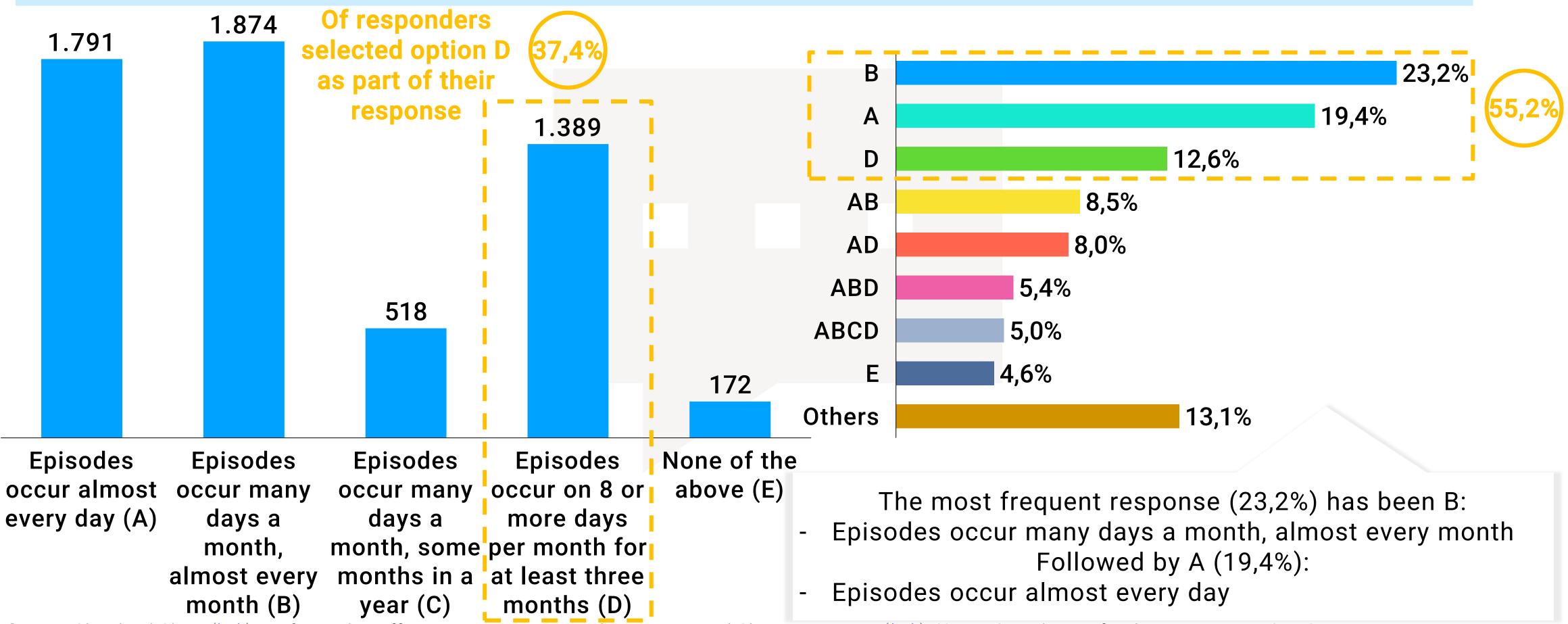




Migraine terminology - Chronic

Chronic migraines according to science: Having chronic migraine means you have at least 8 migraines per month for at least 3 months, or 15 or more days per month





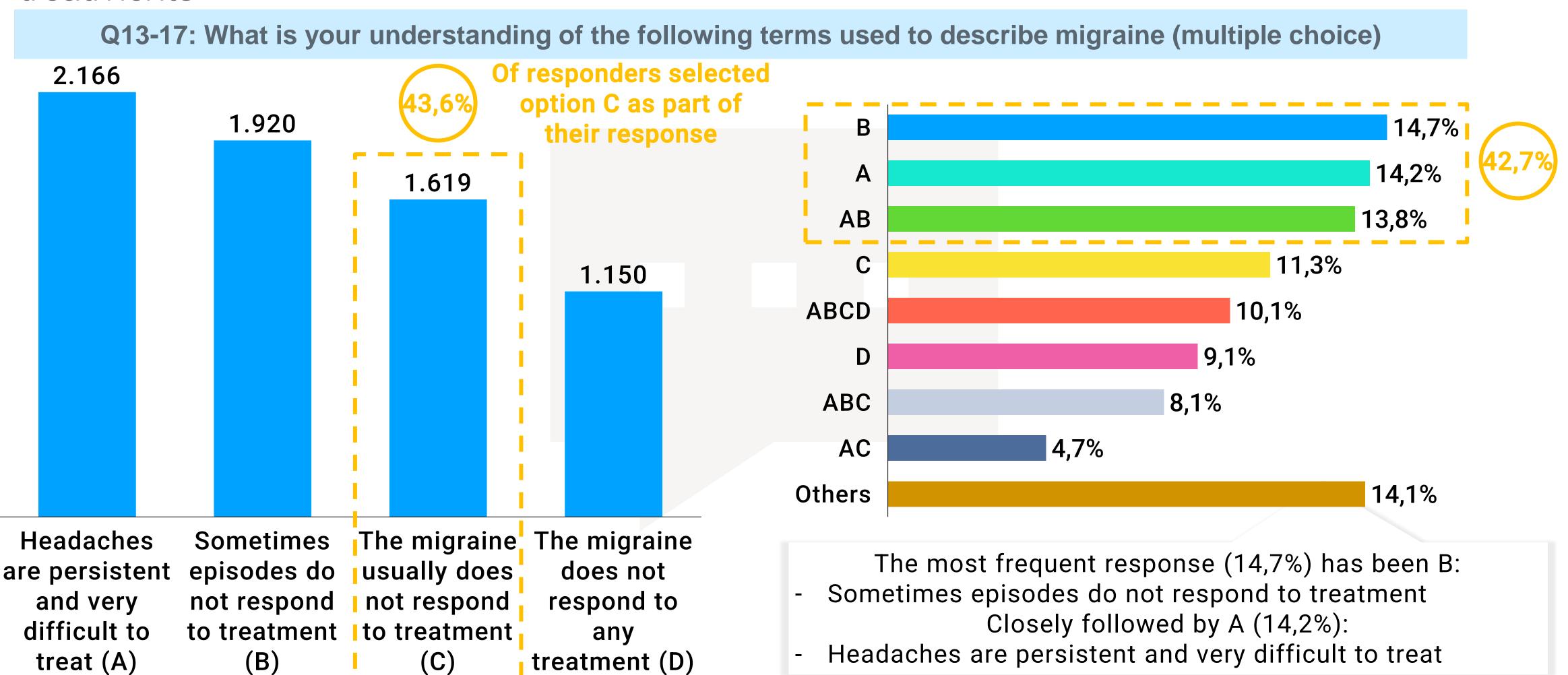
<u>Source:</u> Cleveland Clinic (<u>link</u>) | Defining the Differences Between Episodic Migraine and Chronic Migraine (<u>link</u>). <u>Notes:</u> Sample size for these questions: 3.712 respondents





Migraine terminology - Refractory

Refractory migraines according to science: Failure to respond to 5 classes of preventive treatments



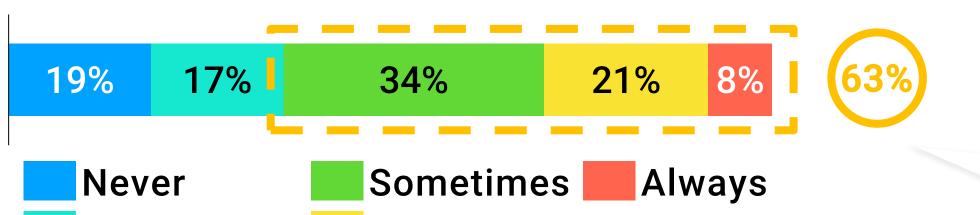


Language stigma

Infrequently

Migraine sufferers confess feeling more stigmatized when their disease is devalued by comparing it to a simple headache due to a lack of knowledge





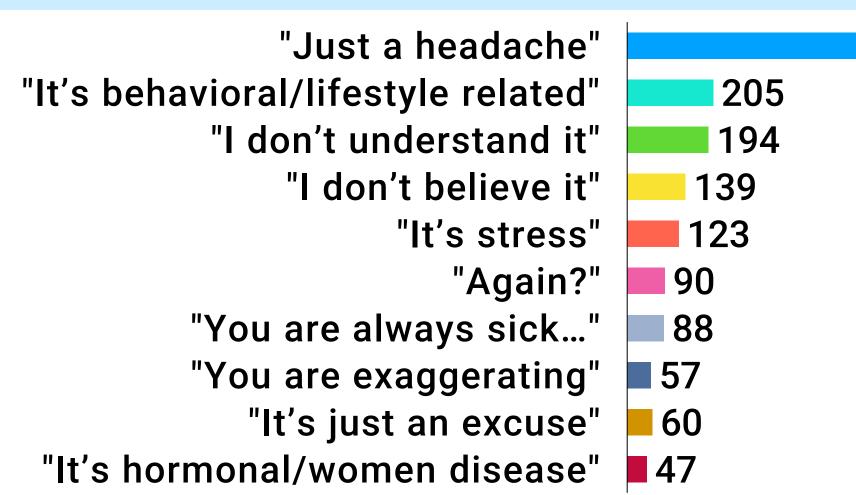
Frequently

Severe Disabling Episodic Chronic Refractory

63% of the participants confess to having felt stigmatized by the use of the terms mentioned above (severe, disabling, episodic, chronic, refractory)

escribes your migraine?

Are there any other terms that you perceive negatively when someone describes your migraine?



However, when asked an open-ended question, it is striking that what is **perceived as the worst** is when the **severity of the disease** is **minimized** by comparing it to something like a headache



Language stigma

"Drama queen"

"I have headaches too... take an ibux

and it'll go away"

MIGRAINE SUFFERERS *

NOTEXHAUSTIVE

"Again?!"

"You are always sick"

"I find it stigmatizing when it is toned down"

"Take a rest"

"You always cancel plans"

"It's psychological"

"Still?!"

"Disabled"

that our lifestyle is not adequate"

"I don't understand, you look good"

"It may be the weather"

"Boring"

"Unreliable"

"You can not tolerate stress"

"Any description of a mild irrelevant disorder"

EADACHE

"It is hormonal"

"A migraine is nothing, you are always exaggerating, I have it too and I can do my daily activities"

"The term "trigger": seems to refer to the fact

"Unpredictable"

"It's not a big deal"

"Drink water"

The Migraine Movement

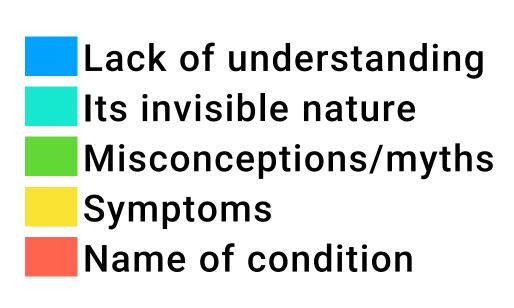
"Lazy"

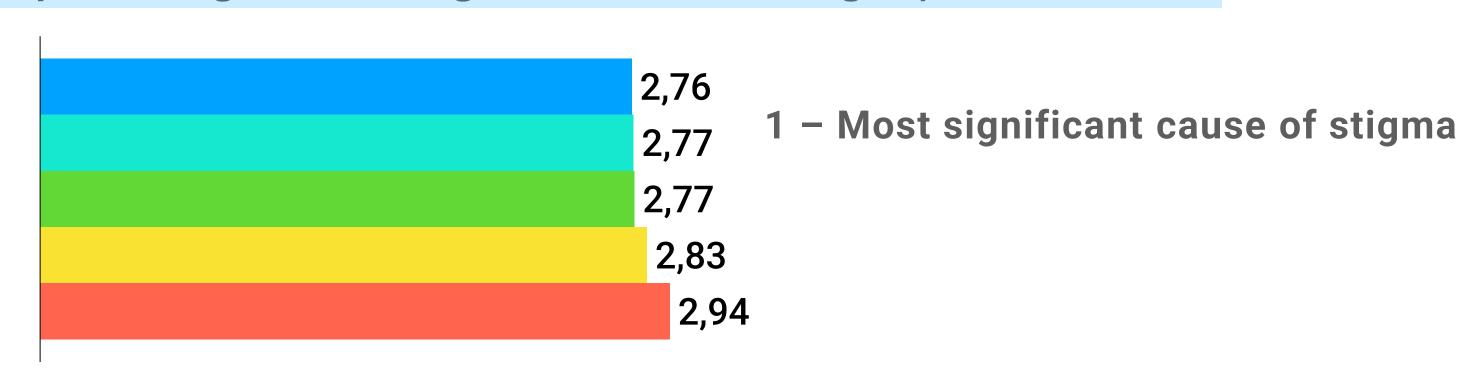


Cause of stigma

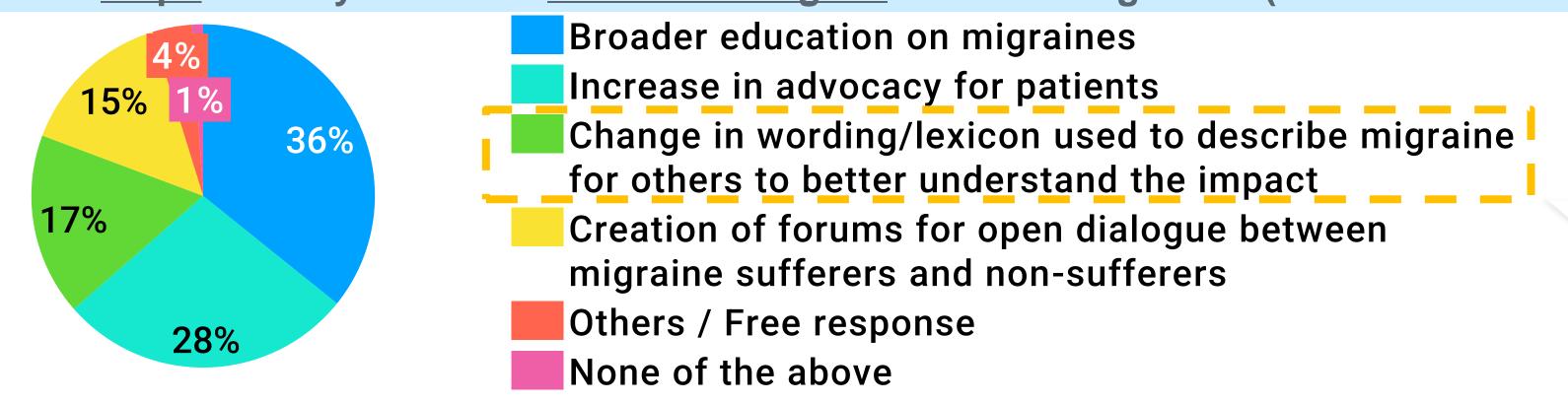
In addition to the more standard approaches to reduce stigma (education and increase in advocacy) there is a clear call for changing the medical lexicon used to describe the disease

What do you believe is the <u>root cause</u> of stigma toward your illness? (please rank them from 1 to 5, with 1 representing the most significant cause of stigma)?





What steps would you take to reduce the stigma related to migraines (click more than one if applicable)?



17% of migraine sufferers think that an interesting step to reduce the stigma could be changing wording/lexicon





Additional survey

An additional survey was launched to obtain more insights regarding non-sufferers' perception of migraine stigma

1

Non-sufferer's survey

This survey had the goal of complementing the previous results by analysing the perception of migraine stigma in nonsufferers



The project aims to raise awareness about stigma associated with migraine, drive positive change, and improve support for migraine sufferers



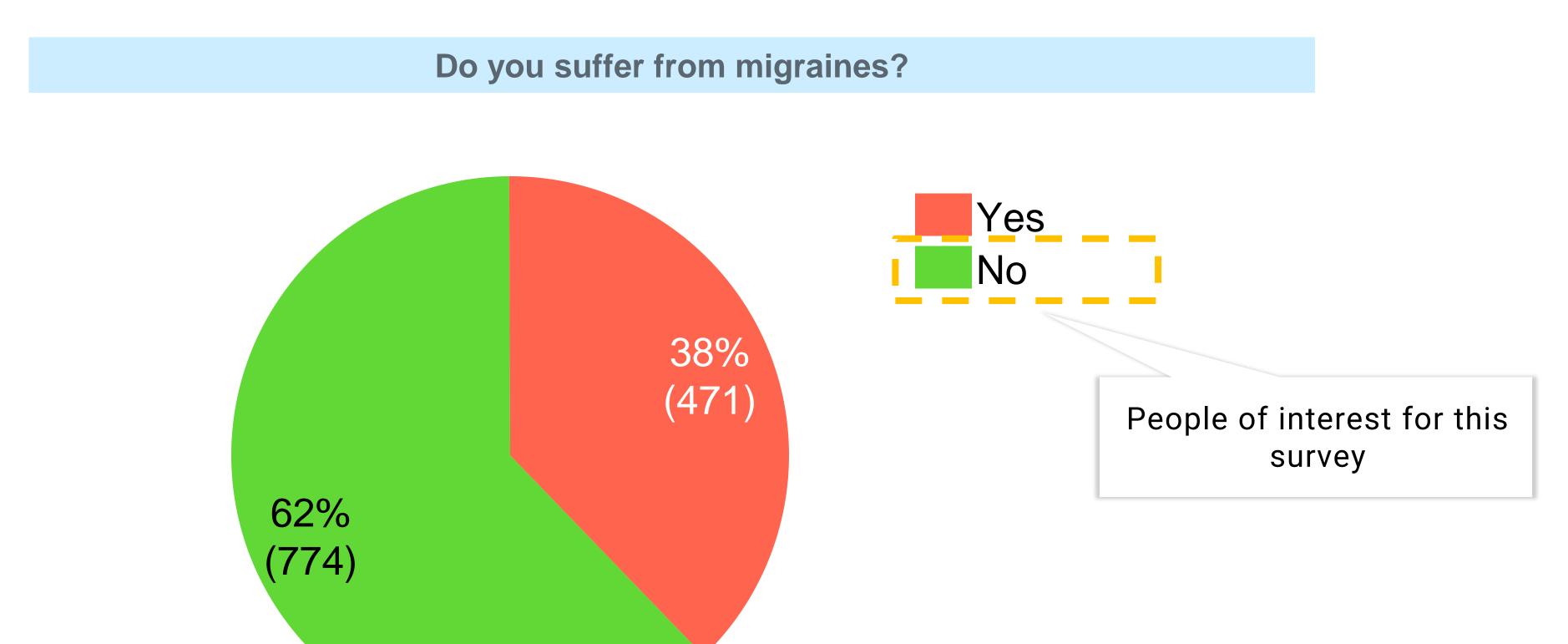
Response tracker

We obtained a total of 1.245 answers, mainly from Portuguese, Italian, Spanish, and English-speaking people

| Language | Sep 20th | Oct 9th | Oct 25th | Oct 31st | Nov 16th | Nov 26th |
|------------|----------|---------|----------|----------|----------|----------|
| Portuguese | 0 | 0 | 1 | 34 | 623 | 632 |
| Italian | 220 | 220 | 221 | 221 | 221 | 221 |
| Spanish | 1 | 29 | 142 | 154 | 161 | 166 |
| English | 5 | 120 | 130 | 134 | 134 | 134 |
| German | 64 | 88 | 90 | 90 | 91 | 91 |
| French | 1 | 1 | 1 | 1 | 1 | 1 |
| Total | 291 | 458 | 585 | 634 | 1231 | 1.245 |

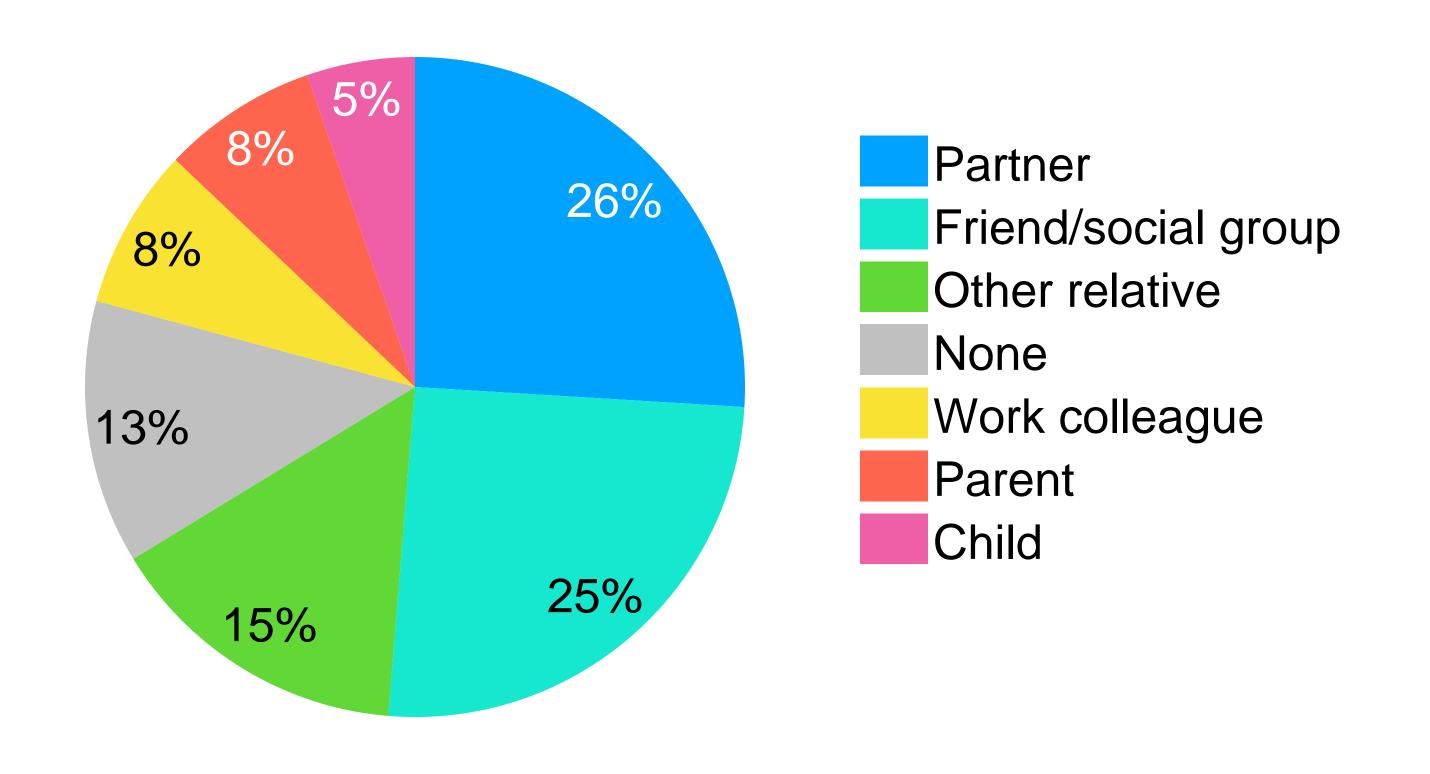


62% of people that answered the survey didn't suffer from migraines and, therefore, **774 people** continued answering the rest of the questions



Among non-sufferer respondents, 51% had connections to migraines through partners or friends, while 13% had no connections at all

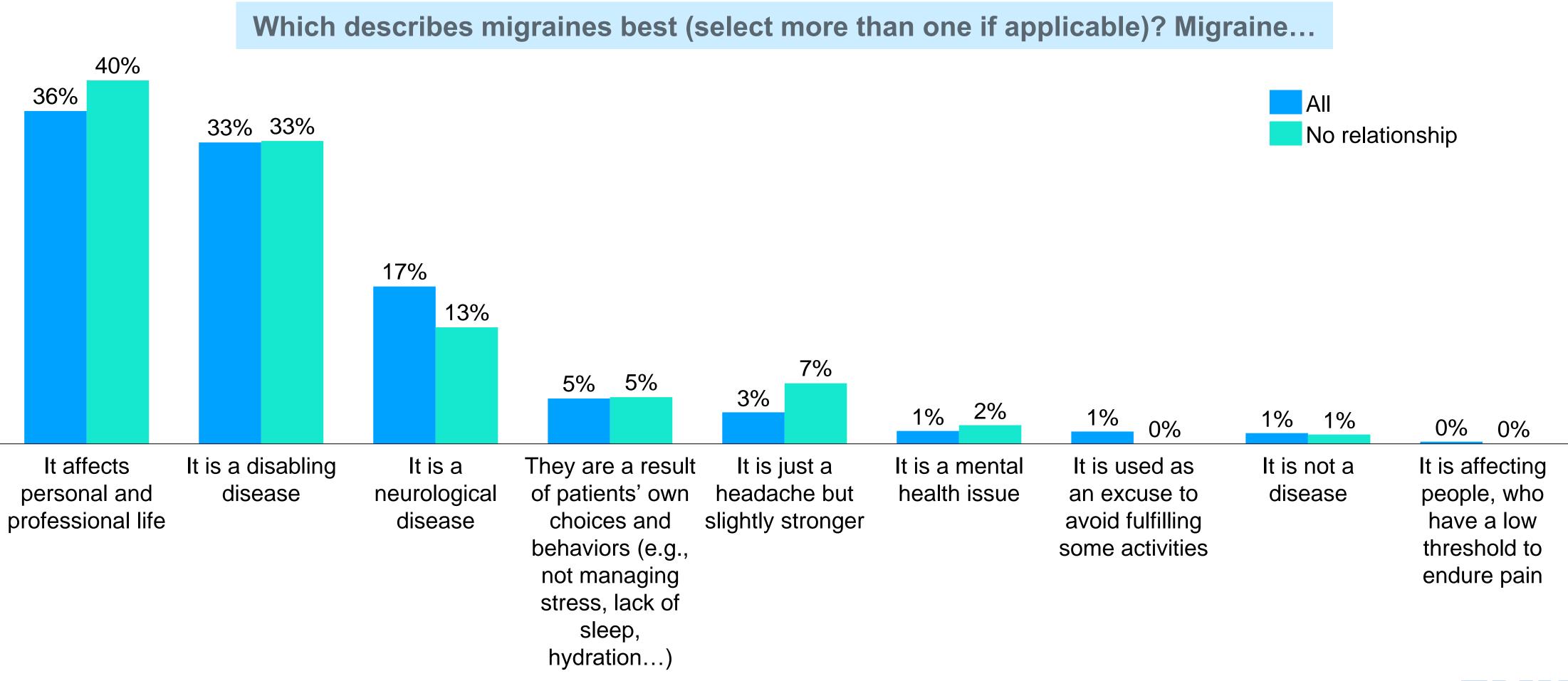
Relationship with a migraine sufferer





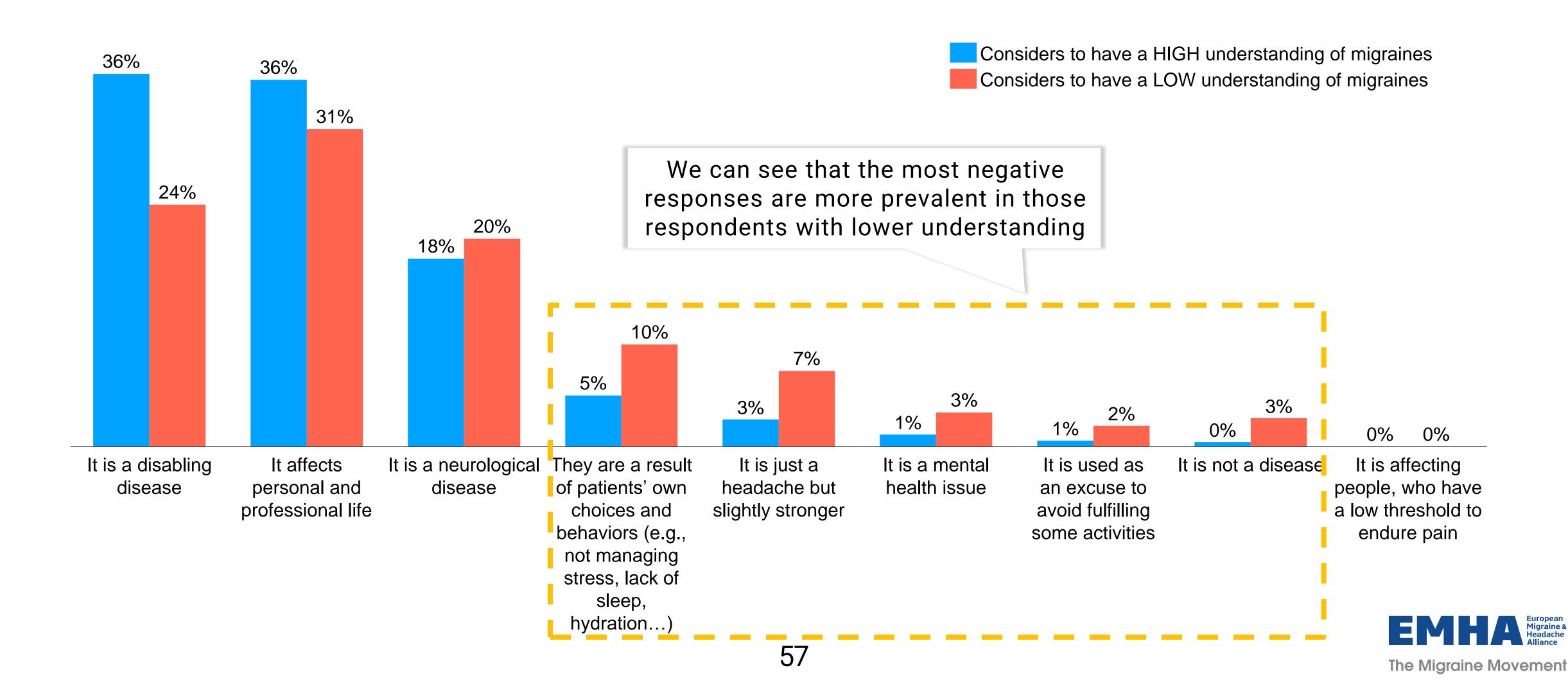
Sample size: 774 54

When asked to describe migraines, only 20 respondents answered that it is not a disease



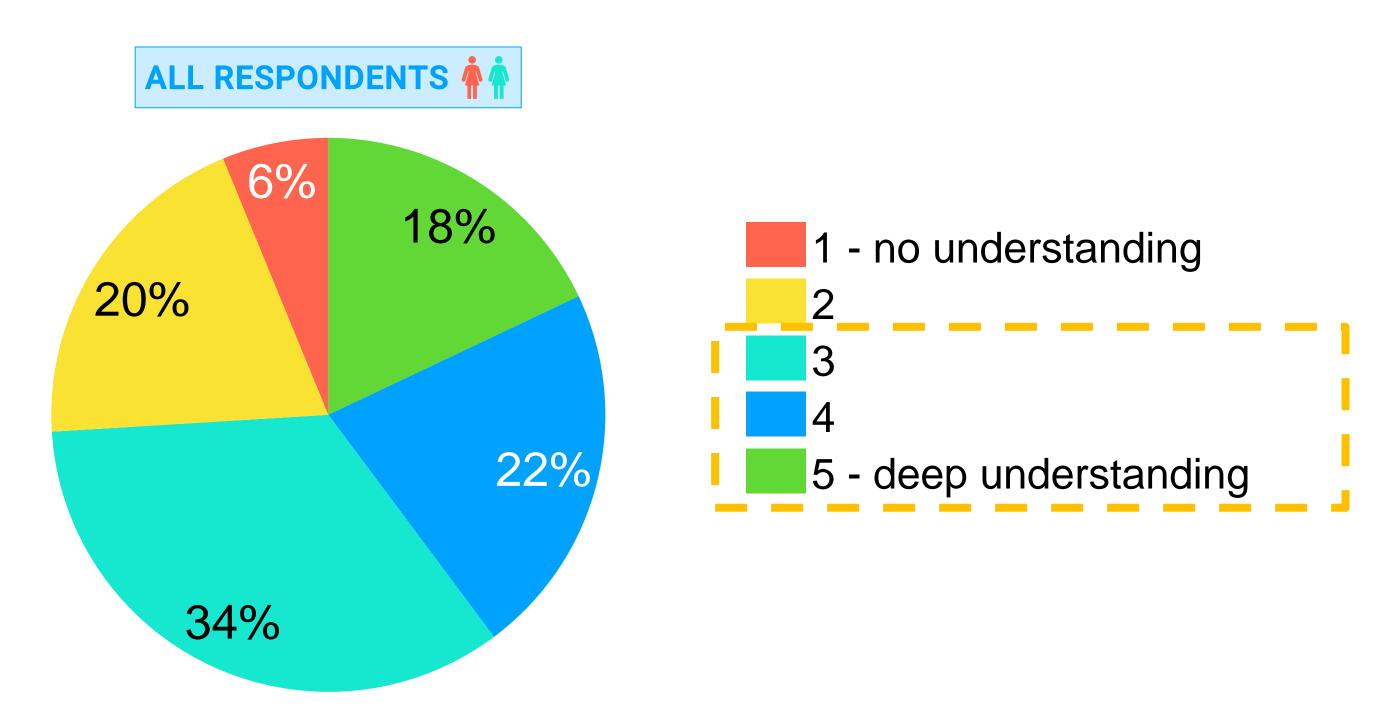
Comparison of migraine definition

When comparing respondents that consider to have a high understanding of migraines (rated their knowledge >3) with those with lower understanding (rated their knowledge <3)...

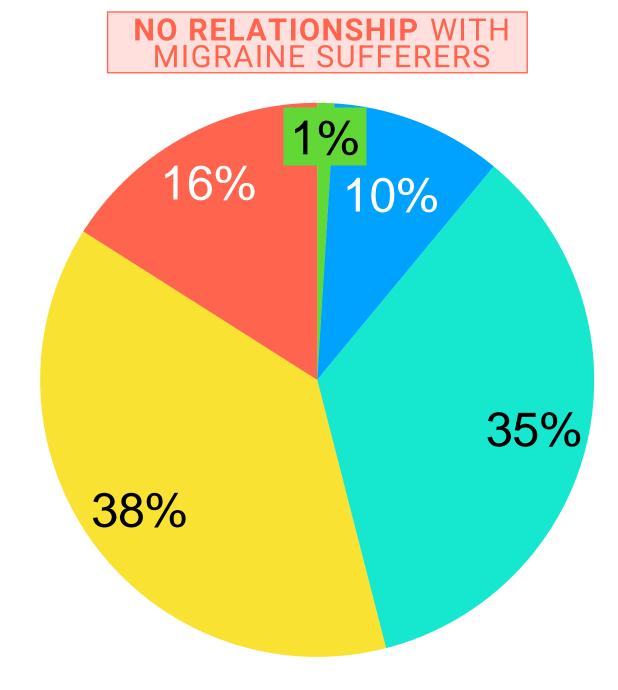


74% of respondents believe they have a good understanding of migraines, while only 46% of those with no relationship to a migraine sufferer share the same view

How well do you understand migraines? (1 = no understanding, 5 = deep understanding)



74% of respondents believed that they have a good understanding of migraines (rated ≥3)

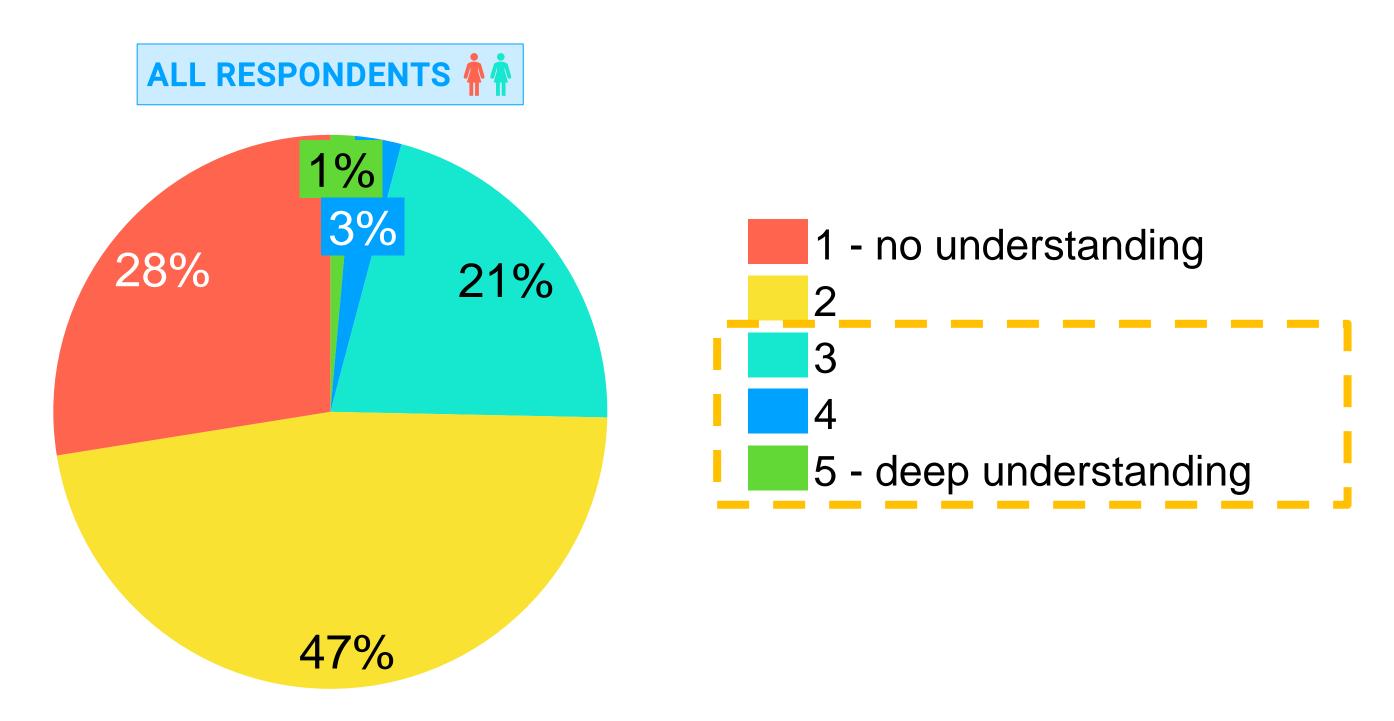


46% believed that they have a good understanding of migraines

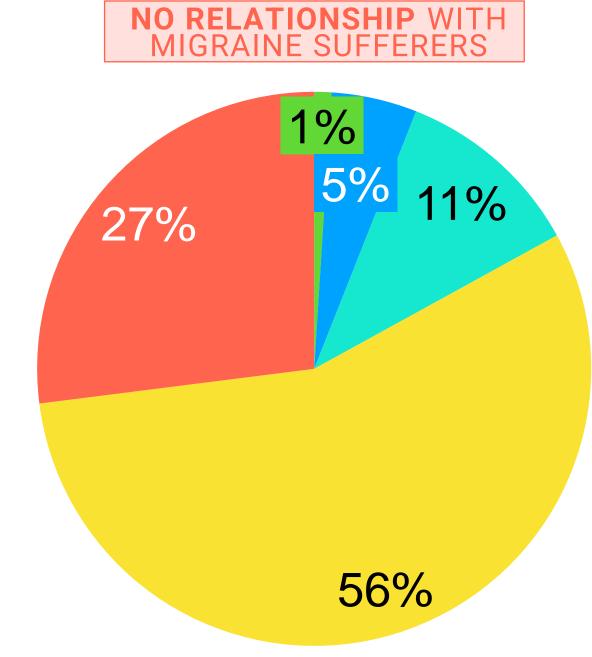


On the other hand, only 25% of respondents believe the general public has a good understanding of migraines

Do you think migraine is well-known and understood by the general public?



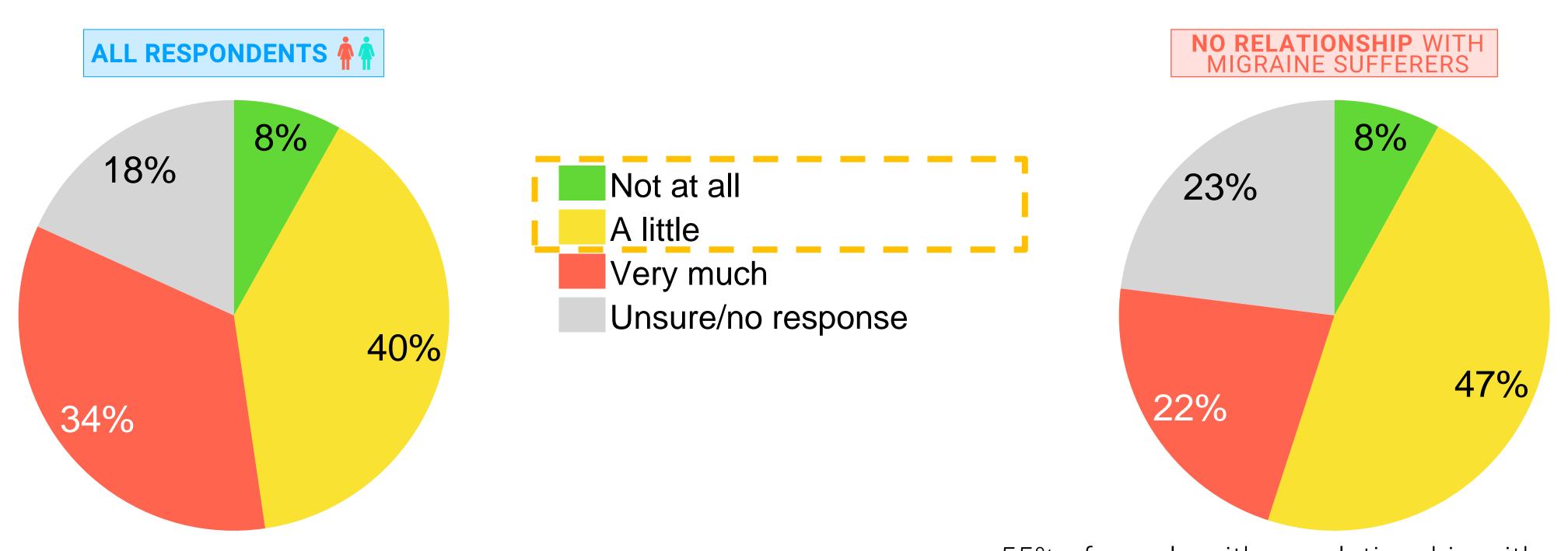
Only 25% of respondents believed that the general public has a good understanding of migraines (rated ≥3)



Only 17% of respondents believed that the general public has a good understanding of migraines

~50% of respondents believe that those with migraines experience little to no stigma

Do you believe those who have migraines suffer from stigma related to their condition?

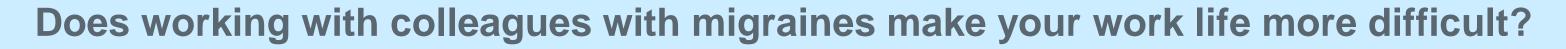


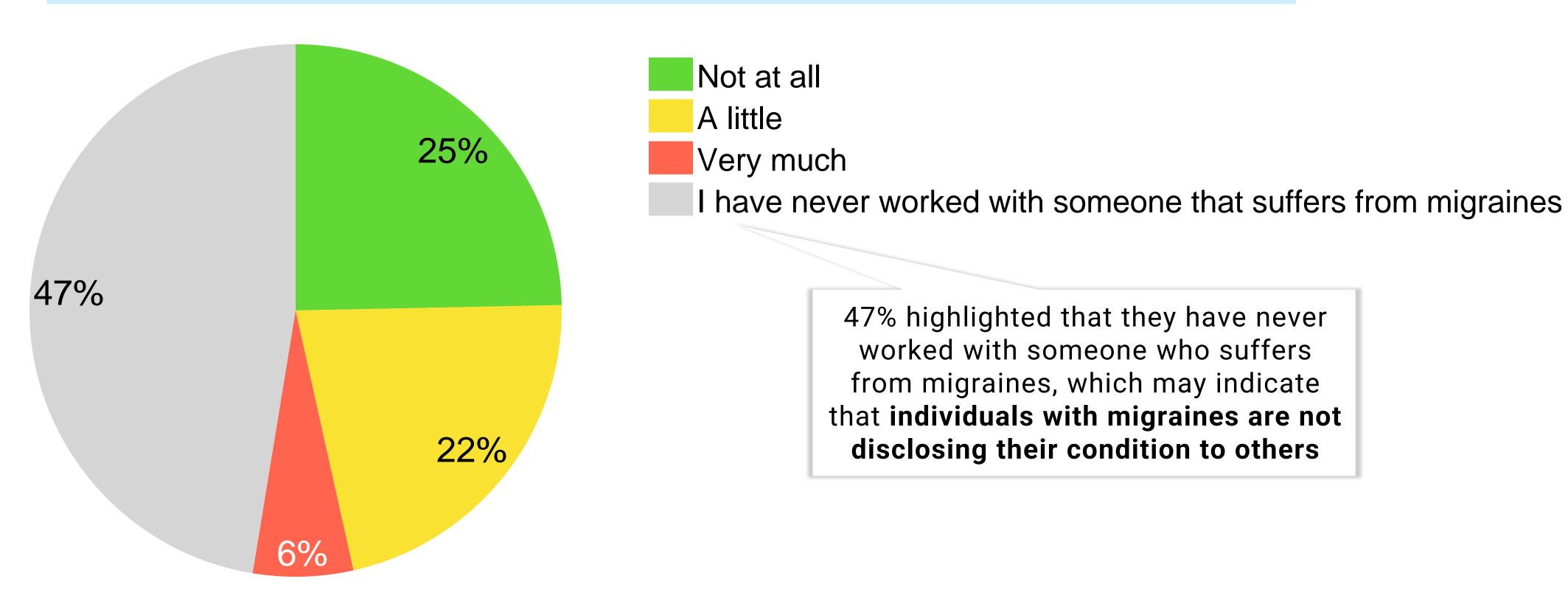
48% of the participants believe that

individuals with migraines experience

little to no stigma

28% of respondents believe that working with someone who suffers from migraines makes their work life somewhat or significantly more difficult



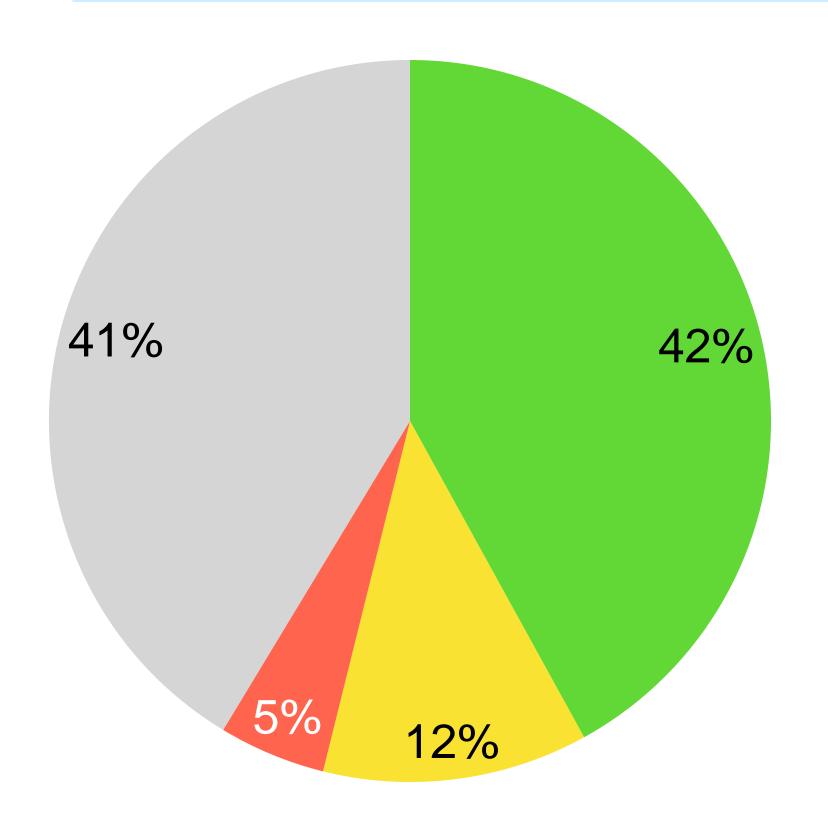


47% highlighted that they have never worked with someone who suffers from migraines, which may indicate that individuals with migraines are not

disclosing their condition to others

17% of respondents admitted to changing how they assess someone's work when they have migraines





Not at all

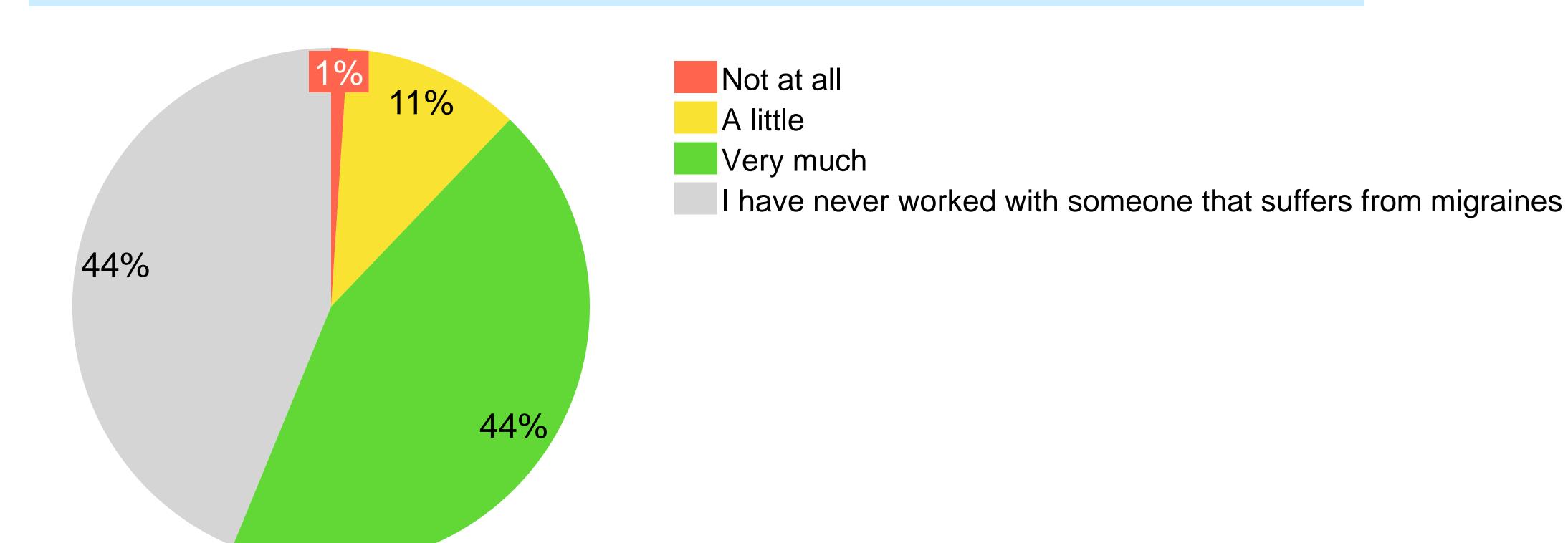
A little

Very much

I have never worked with someone that suffers from migraines

12% admitted to not providing particularly strong support to colleagues who are currently experiencing migraines

How supportive are you to a co-worker/manager/supervisor/reportee who currently has migraines?



Main findings – non-sufferer survey

