

IDF 2017 National Patient Survey

Immune Deficiency Foundation



Introduction

- To date, no federally funded health surveys in the United States (i.e., the National Health Interview Survey and the National Health and Nutrition Examination Survey) collect information on primary immune deficiency diseases.
- As a result, the Immune Deficiency Foundation (IDF) has sought to fill this void by administering a national patient experience survey within the PI community. Beginning in 1995, IDF has administered four National Patient Surveys (1995, 2002, 2007, 2012) exploring the state of primary immunodeficiency diseases in the United States.
- The data gathered from the National Patient Survey provides clinicians, researchers and most importantly, patients and their families with the only national estimates of the characteristics, treatment and experiences of patients with primary immunodeficiency diseases.

National Patient Survey

- From these National Patient Surveys, we have learned the following:
 1. The magnitude of primary immunodeficiency in the United States;
 2. General population characteristics (e.g., age, gender, type of PI) of persons with primary immunodeficiency;
 3. The current health status of persons with primary immunodeficiency diseases;
 4. Difficulties in access to treatment for this population.
- As with previous administrations of this survey, our goal is to gather data on patient diagnosis, family history of PI, health issues (e.g., infections, hospitalizations) prior to and after diagnosis, treatment (e.g., immunoglobulin replacement therapy, bone marrow transplant, prophylactic antibiotics) and current health status.

Patient Health Questionnaire-2, Brief Fatigue Inventory, SF-12 and SF-10

- In addition to administering the fifth National Patient Survey, IDF also asked participants to complete, where appropriate, the Patient Health Questionnaire-2, Brief Fatigue Inventory, SF-12 and SF-10.
- The **Patient Health Questionnaire-2** (PHQ-2) includes the first two items of the PHQ-9. The purpose of the PHQ-2 is to screen for depression. Patients who screen positive (a score of three or higher) should be further evaluated with the PHQ-9 to determine whether they meet criteria for a depressive disorder.
 - IDF hopes to measure the prevalence of possible depression among adults with PI.
- The **Brief Fatigue Inventory** (BFI) assesses the severity and impact of fatigue participants' activities of daily living.
 - Originally created for cancer patients, IDF will undertake the first national administration of the BFI to persons with primary immunodeficiency.
- Both the SF-12 and SF-10 are designed to assess functional health and well-being.
 - The **SF-12** measures physical functioning, role physical, bodily pain, general health, vitality, social functioning, role emotional, and mental health for adults age 18 years older or older.
 - The **SF-10** measures a child's (age 5 years old to 18 years old) physical and psychological health using 10 items and must be completed by a parent.
 - IDF aims to capture a snapshot of both physical and psychological well-being among persons with PI.

Methodology

- The IDF Survey Research Team, with input from the IDF Medical Advisory Committee, developed the IDF 2017 National Patient Survey.
- The 2017 National Patient survey contained up to 56 questions, depending on the respondent's experiences.
 - Including the BFI and SF-12, Adults with PI answered up to a total of 77 questions
 - Including the SF-10, Parents of children with PI answered up to a total of 66 questions
- The study protocols were reviewed by Schulman IRB Associates and received an exemption from IRB review and approval.
- In field: October 23, 2017 – April 5, 2018
 - 4,500 mailed surveys
 - 190 undeliverable surveys
 - 1,121 surveys completed

Topics

- Diagnosis

- Type of Respondent
- Type of PI
- Repeated, Unusual or Serious Infections Prior to Diagnosis
- Time to Diagnosis
- Physician at Time of Diagnosis
- Reason for Testing
- Family History and Diagnosis

- Comorbidities

- Permanent Impairments
- Fatigue
- Other Chronic Conditions
- Infections

- General Health and Healthcare

- SF-12 and SF-10
- General Health
- Physical Limitations
- Treating Physician
- Specialists
- Hospitalizations
- Insurance

- Mental Health

- PHQ-2
- Limitations Due to Emotional Problems
- Seeing a Mental Health Professional
- Currently Taking Prescription Medications for Anxiety, Depression or Stress
- Currently Taking Prescription Medications for Pain

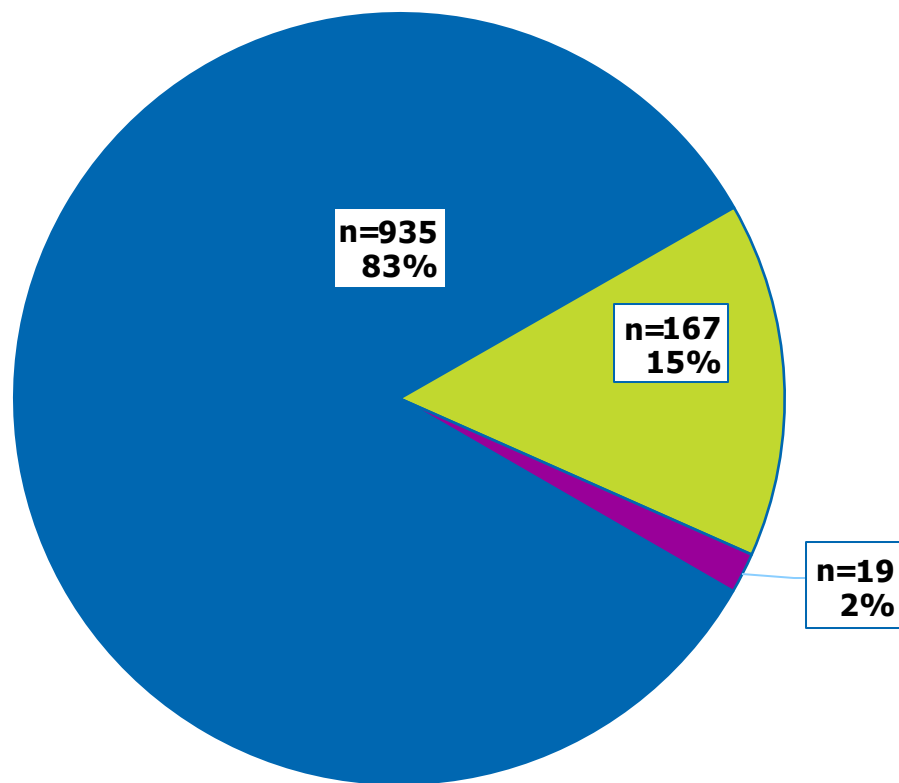
- Treatment

- Ever
- Current
- Ig Replacement Therapy
- Wear Off Effect
- Prophylactic Antibiotic Therapy
- Prophylactic Antifungal Therapy
- Other Medications
- Additional Treatments

Diagnosis

Type of Respondent and Age

■ Adult person with PI ■ Parent/caregiver of child in household with PI ■ Both

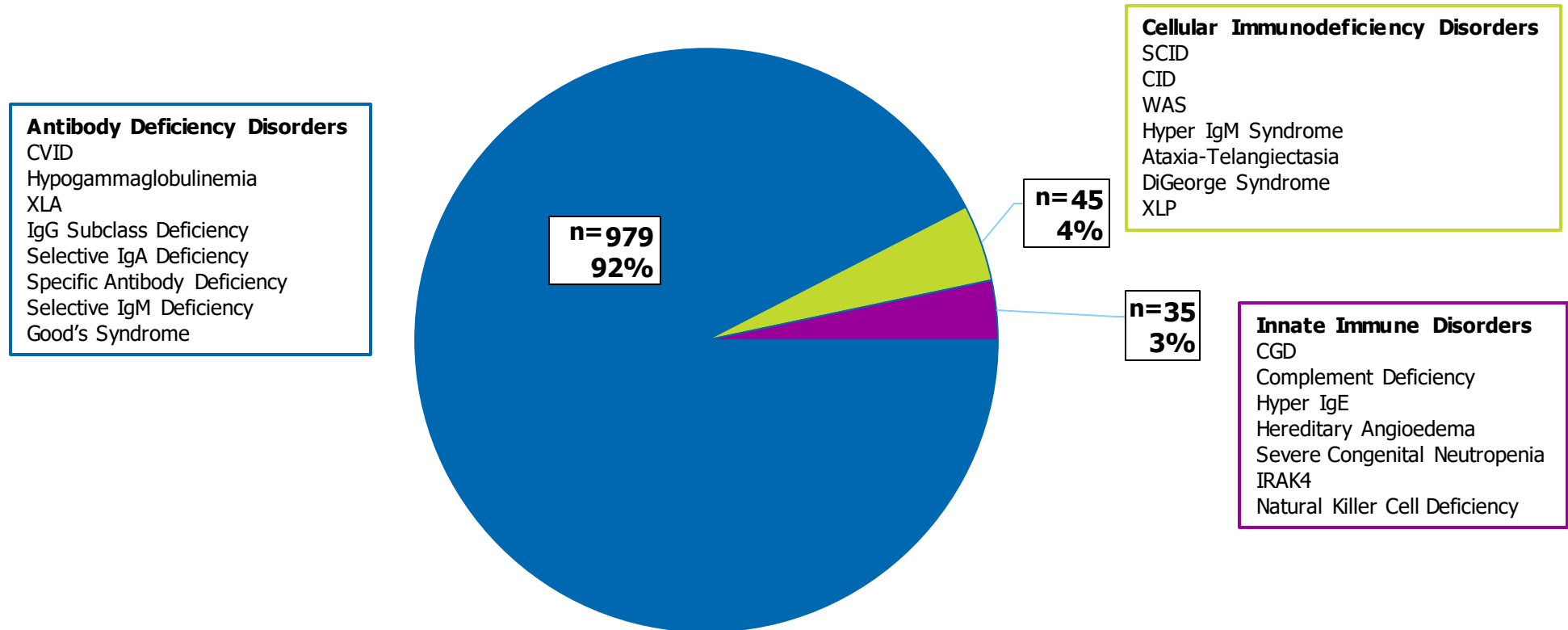


	Overall N=985	Child with PI N=167	Adult with PI N=818
Mean	46.7	9.8	54.3
Median	52.00	10.0	56.0
Min	1.0	1.0	18.0
Max	92.0	18.0	92.0

Q1. Are you an adult person with a primary immunodeficiency disease (PI) or a parent/caregiver of a child in the household with PI? N=1,121
Q3. What is the age and gender of these persons with PI?
Base: All respondents

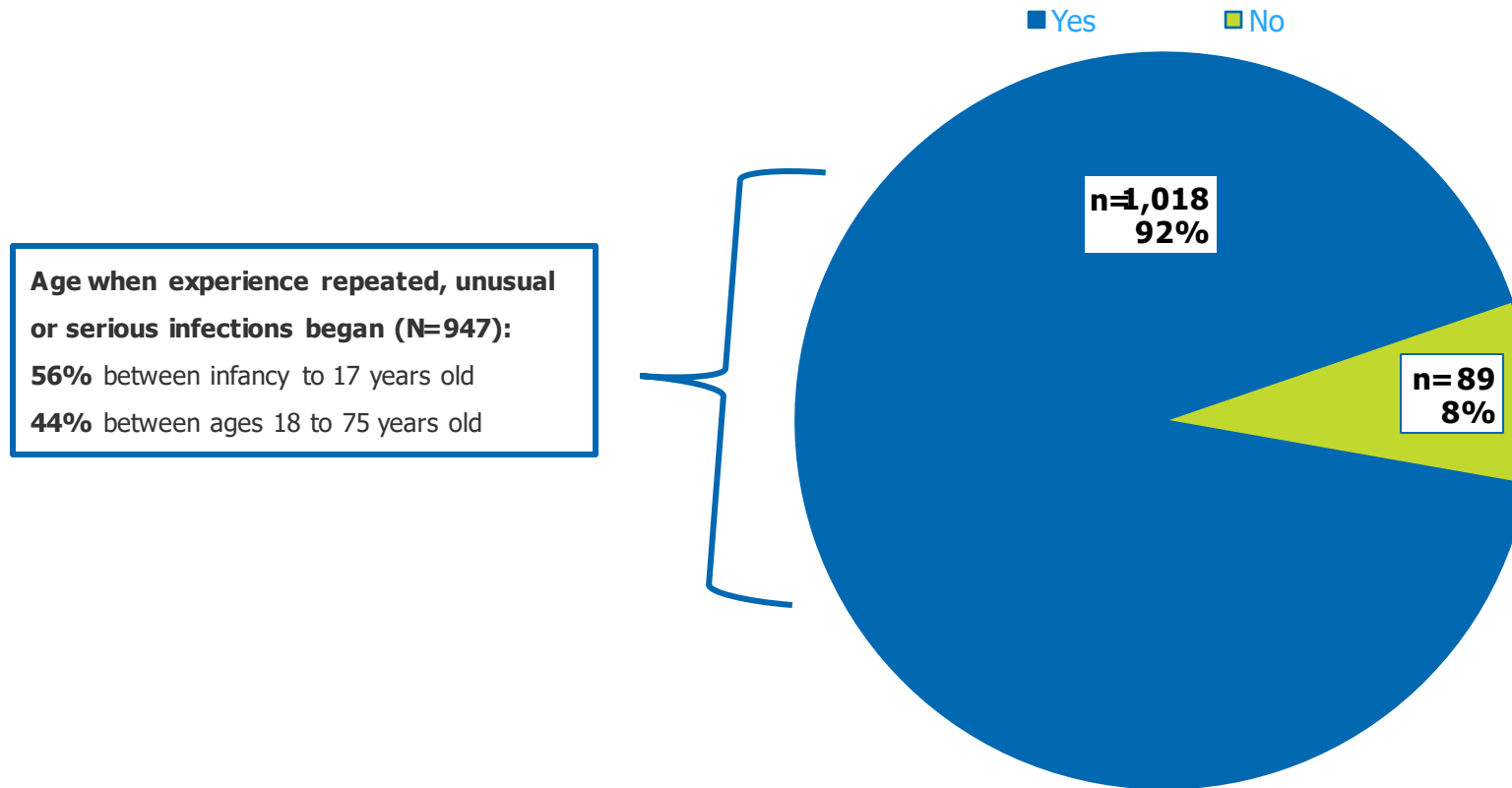
Type of PI

■ Antibody Deficiencies ■ Cellular Immunodeficiencies ■ Innate Immune Disorders



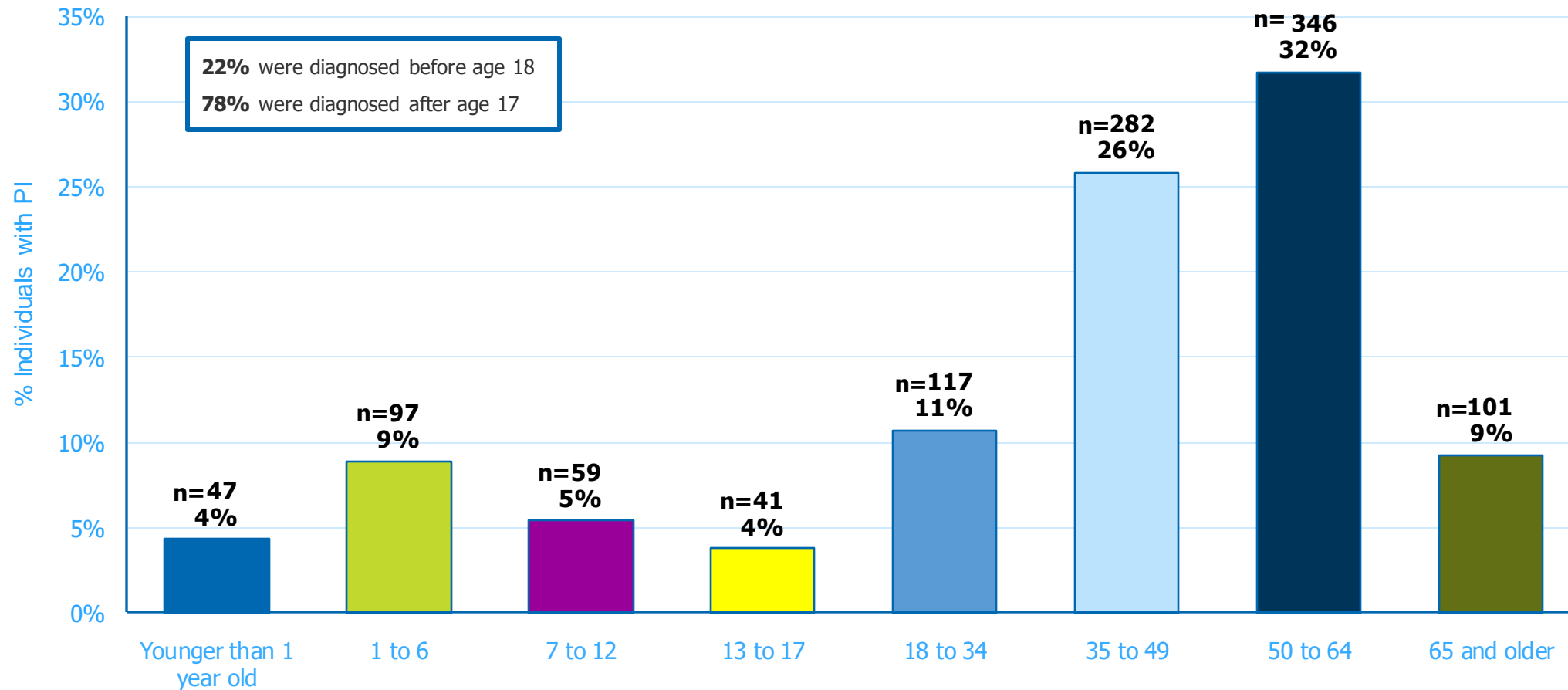
Q5. What is the specific diagnosis of the patient's PI (current diagnosis if more than one)? N=1,059
Base: All respondents with only 1 PI diagnosis

Repeated, Unusual or Serious Infections Prior to Diagnosis



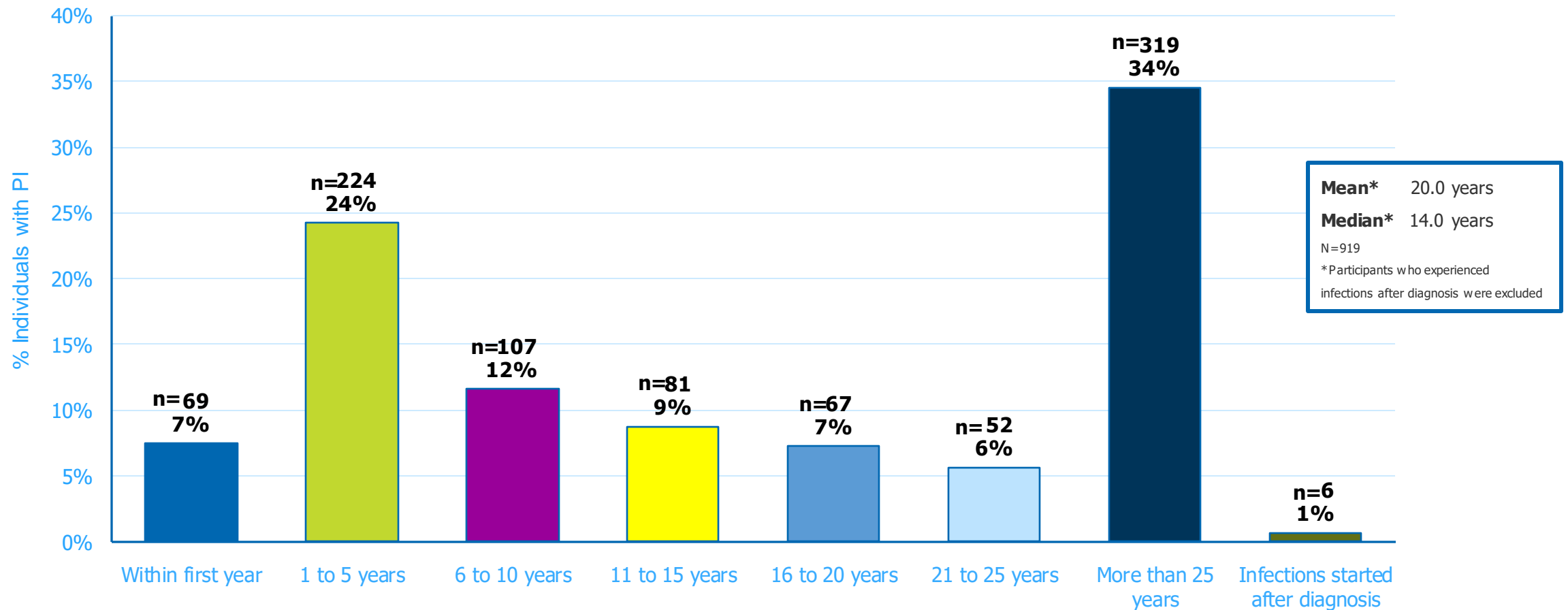
Q7a. Did the patient with PI experience repeated, serious or unusual infections prior to initial diagnosis as immune deficient? N=1,107
Base: All respondents

Age at Diagnosis



Q4. At what age (in years) was the patient first diagnosed with a PI? N=1,090
Base: All respondents

Time to Diagnosis



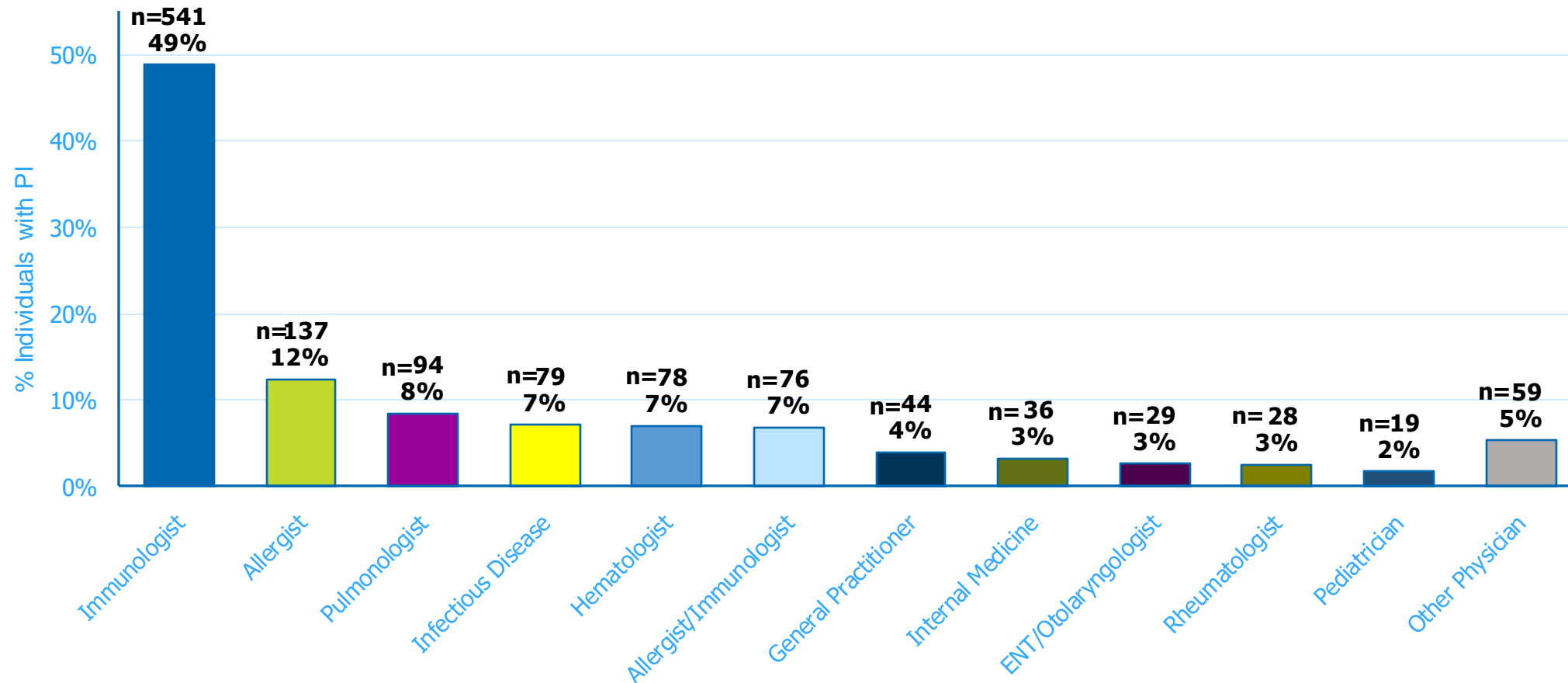
Q4. At what age (in years) was the patient first diagnosed with a PI?

Q7b. At what age (in years) did these repeated, serious, or unusual infections begin?

N=925

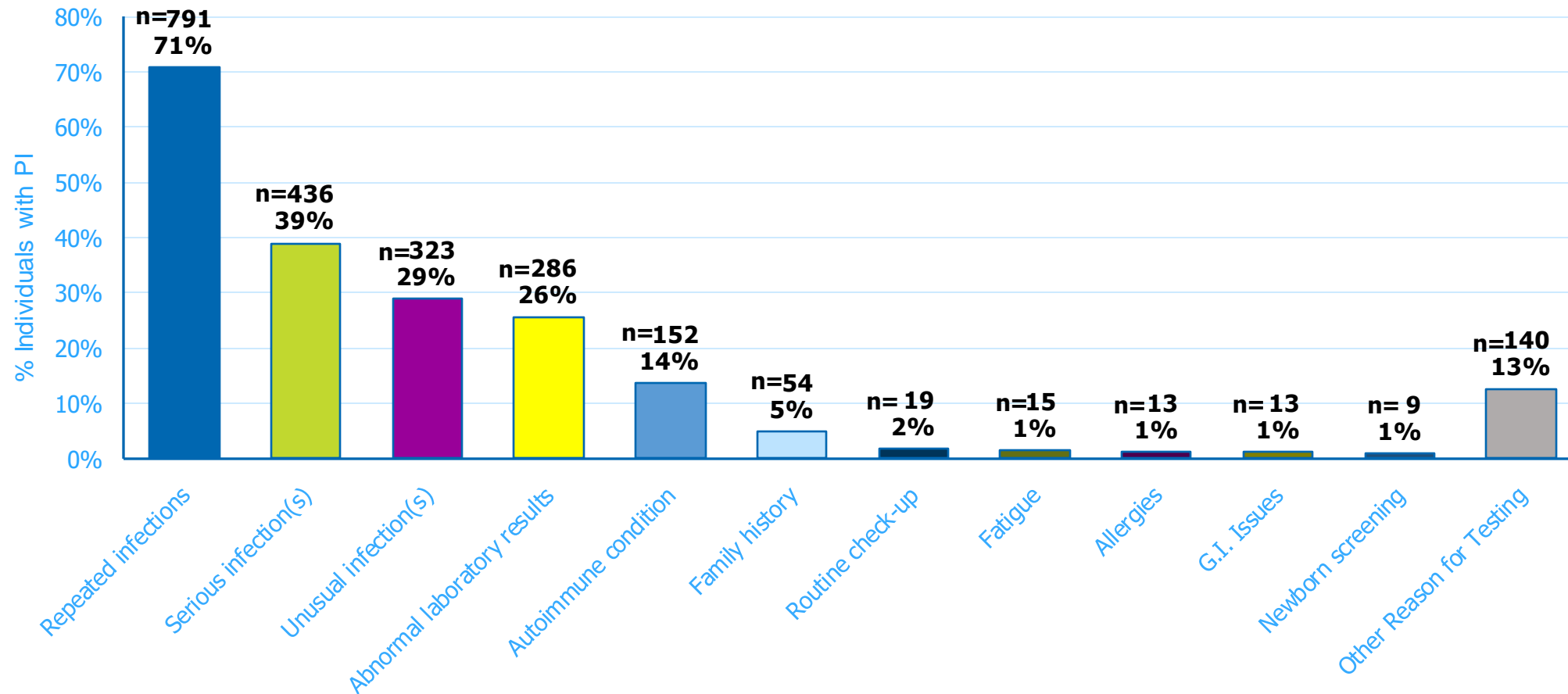
Base: All respondents who experienced repeated, unusual or serious infections prior and after diagnosis

Physician at Time of Diagnosis



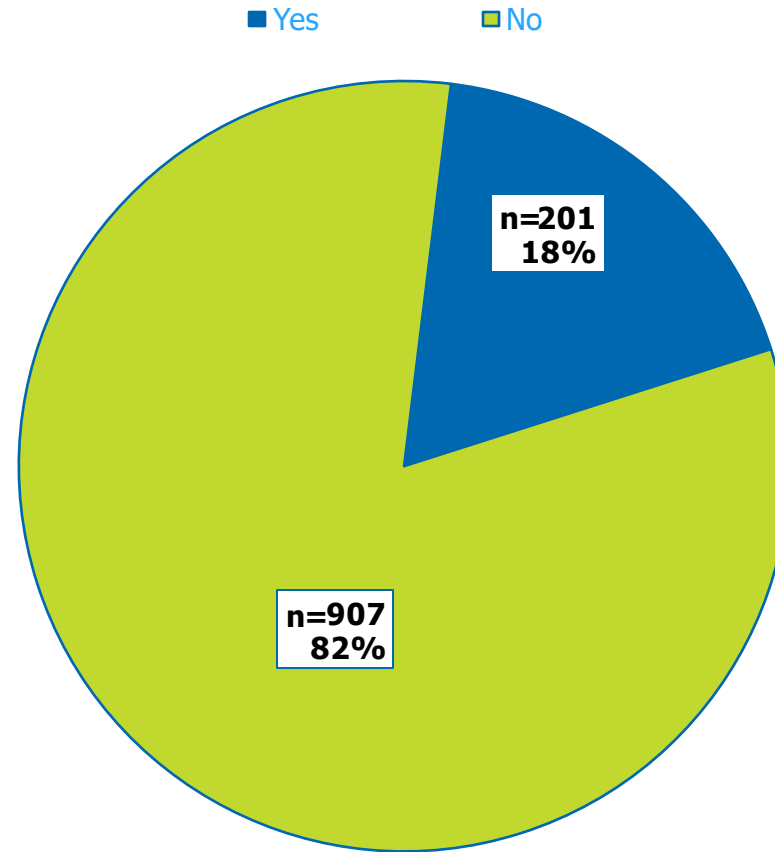
Q10. What kind of doctor diagnosed the PI? N=1,109
Base: All respondents

Reason for Testing



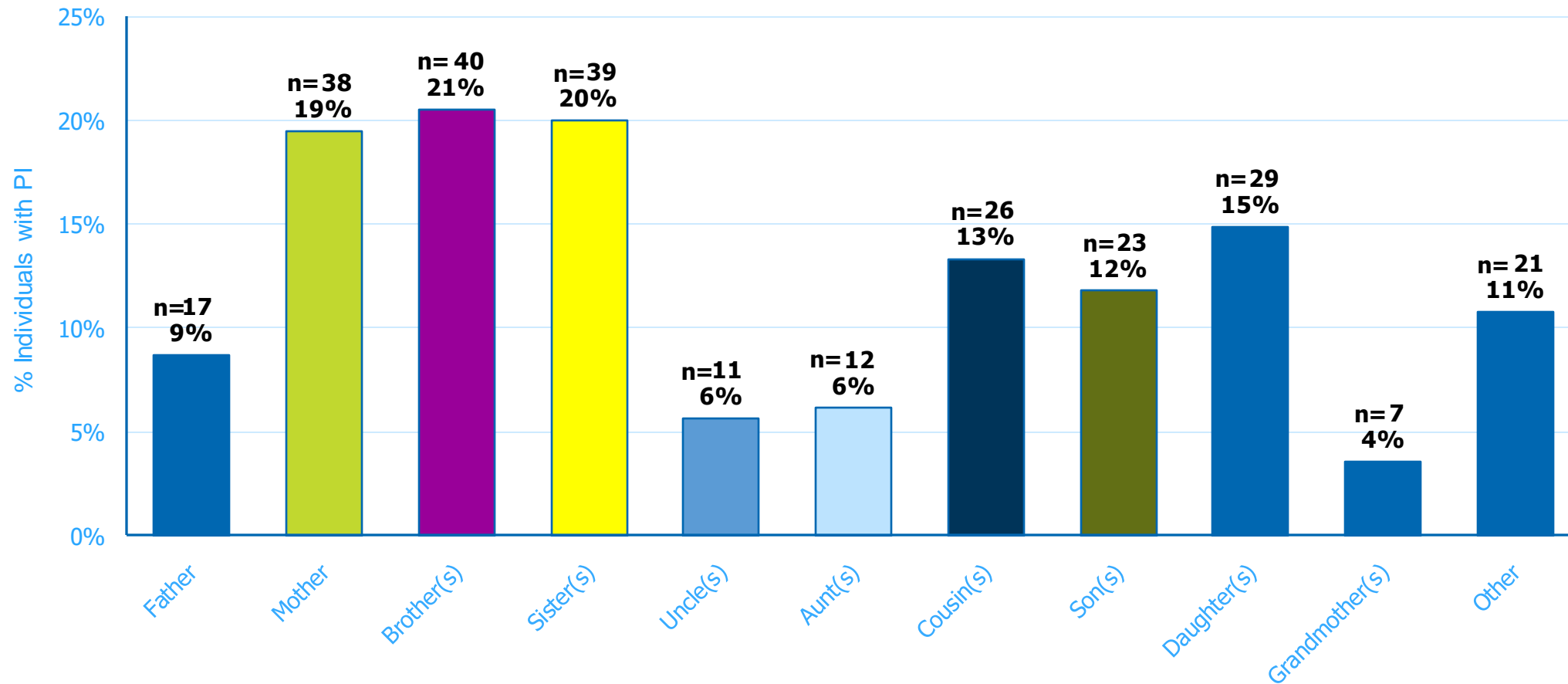
Q8. Why was the patient initially tested for PI? SELECT ALL THAT APPLY N=1,118
Base: All respondents

Family History of PI



Q6a. Have any other family members of the patient been diagnosed as having a PI (even if they are not living now)? N=1,108
Base: All respondents

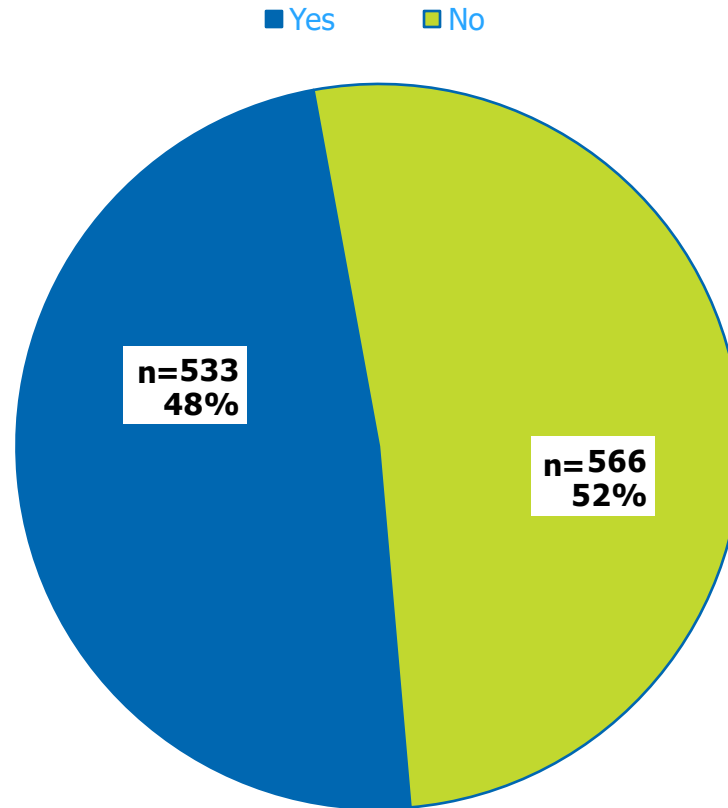
Type of Relatives with PI



Q6b. Which patient's family member(s) have been diagnosed with a PI? SELECT ALL THAT APPLY N=195
Base: All respondents who have a family member(s) also diagnosed with PI

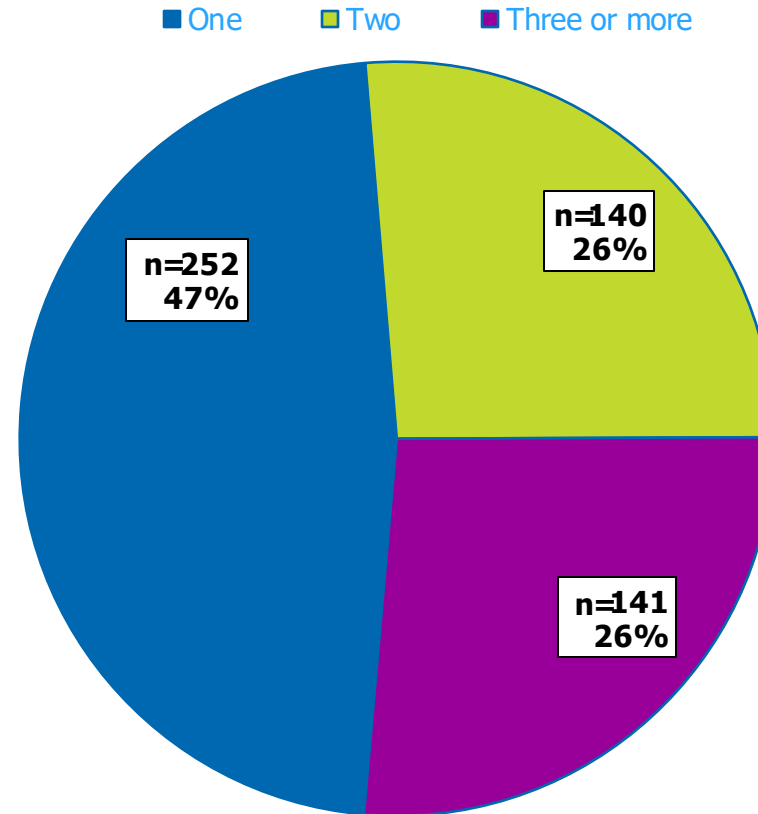
Comorbidities

Permanent Impairments



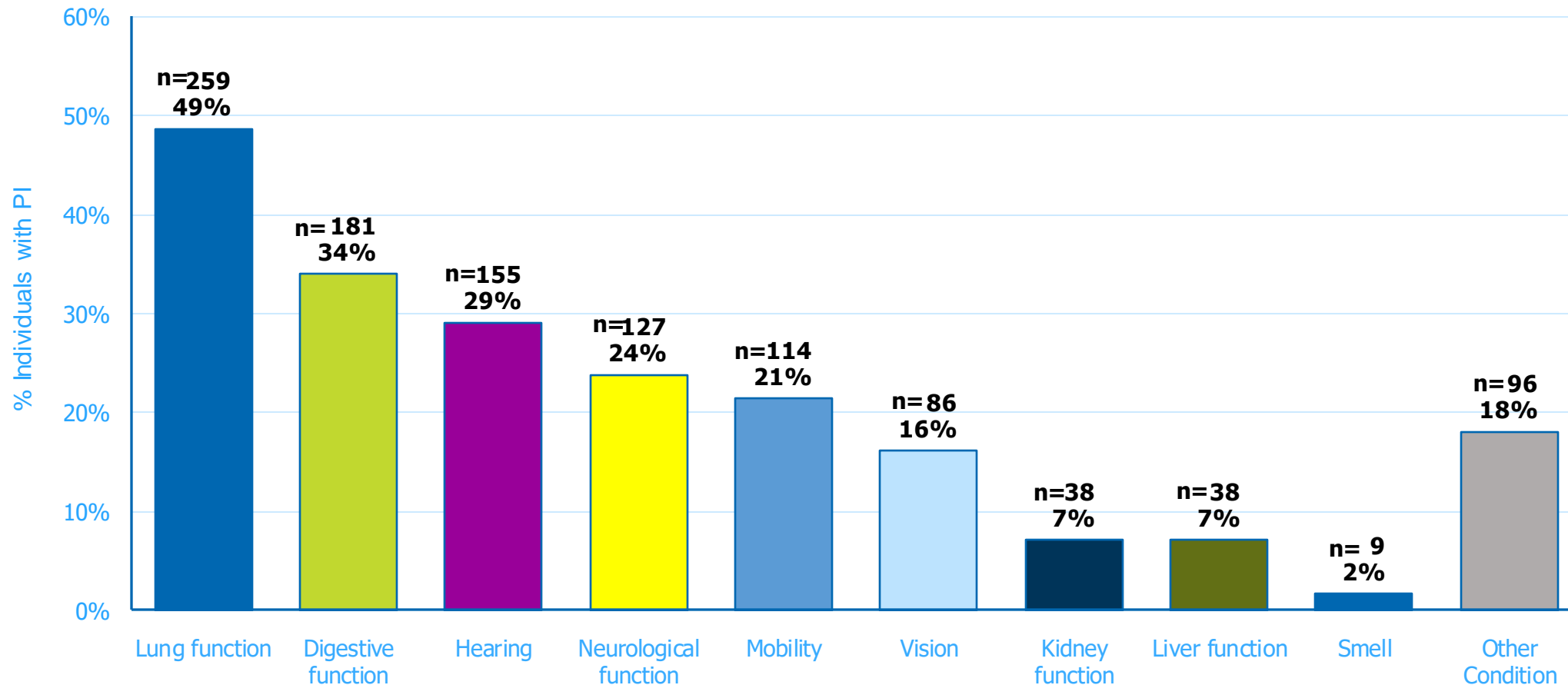
Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...? SELECT ALL THAT APPLY N=1,099
Base: All respondents

Number of Permanent Impairments



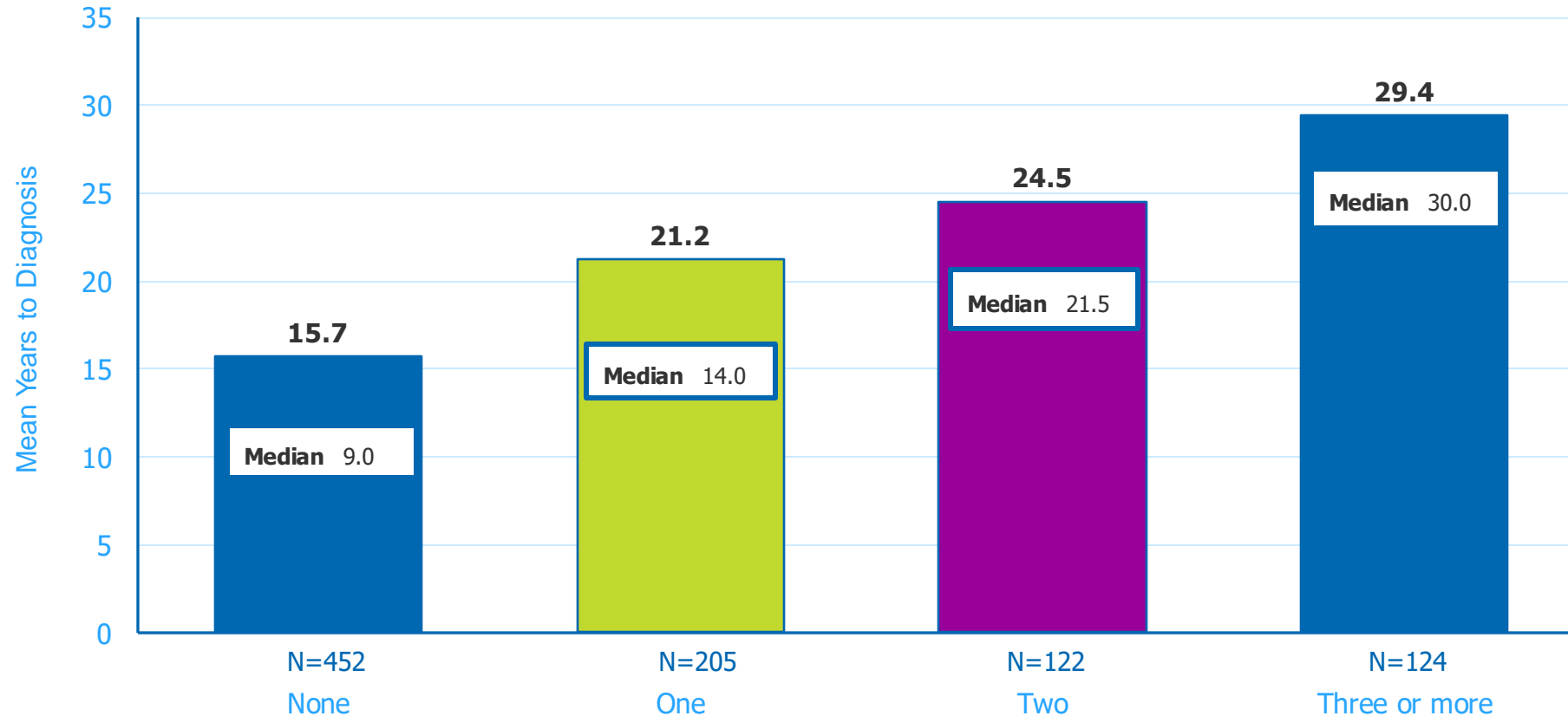
Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...? SELECT ALL THAT APPLY N=533
Base: All respondents who have at least one permanent impairment

Permanent Impairments: One or More Impairments



Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...? SELECT ALL THAT APPLY N=533
Base: All respondents who have at least one permanent impairment

Permanent Impairments by Time to Diagnosis*



* p<.00

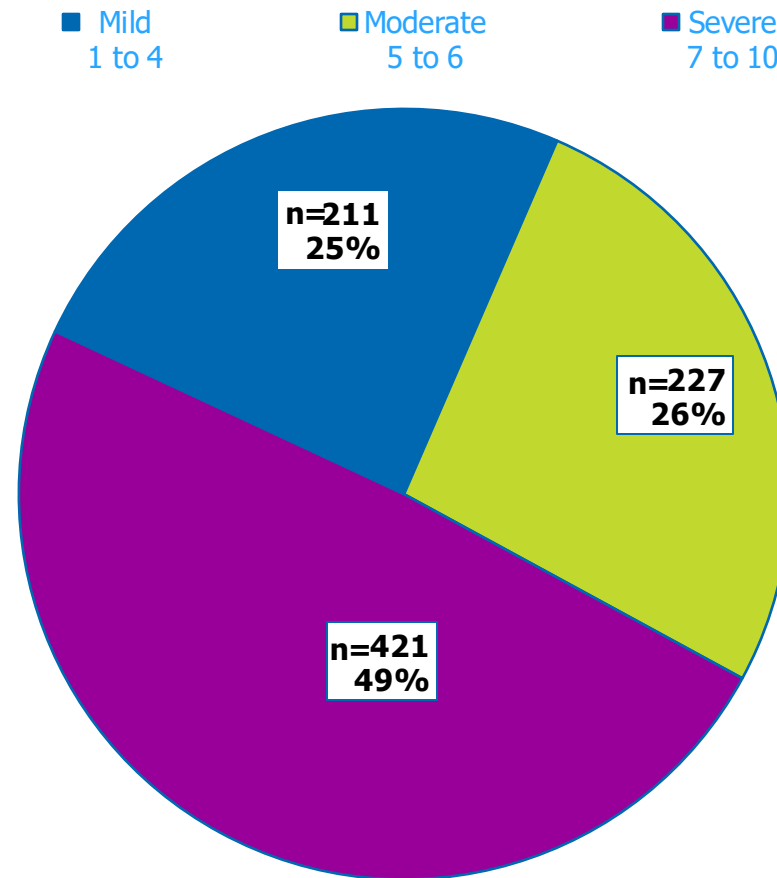
Q4. At what age (in years) was the patient first diagnosed with a PI?

Q7b. At what age (in years) did these repeated, serious, or unusual infections begin?

Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...? SELECT ALL THAT APPLY

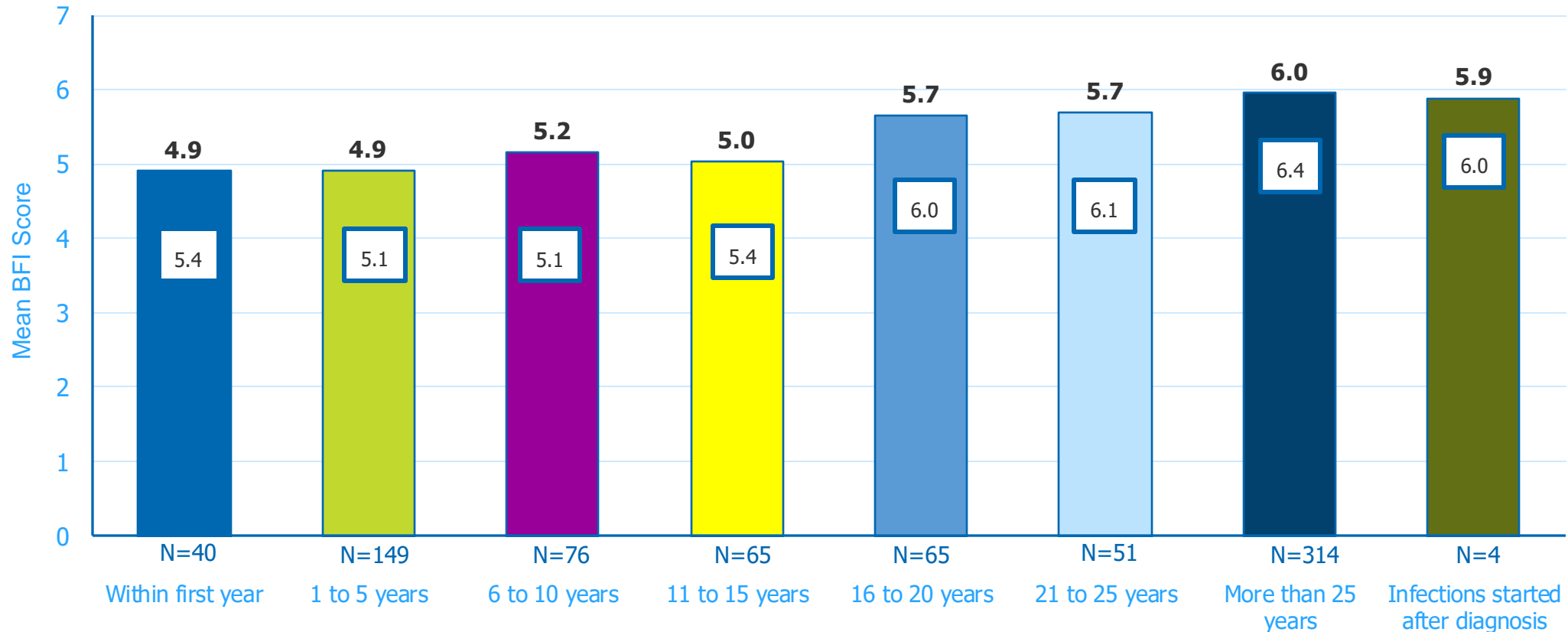
Base: All respondents who have at least one permanent impairment

BFI Severity



Global BFI Score N=859
Base: All Adults with PI age 18 years old and older

Global BFI by Time to Diagnosis*

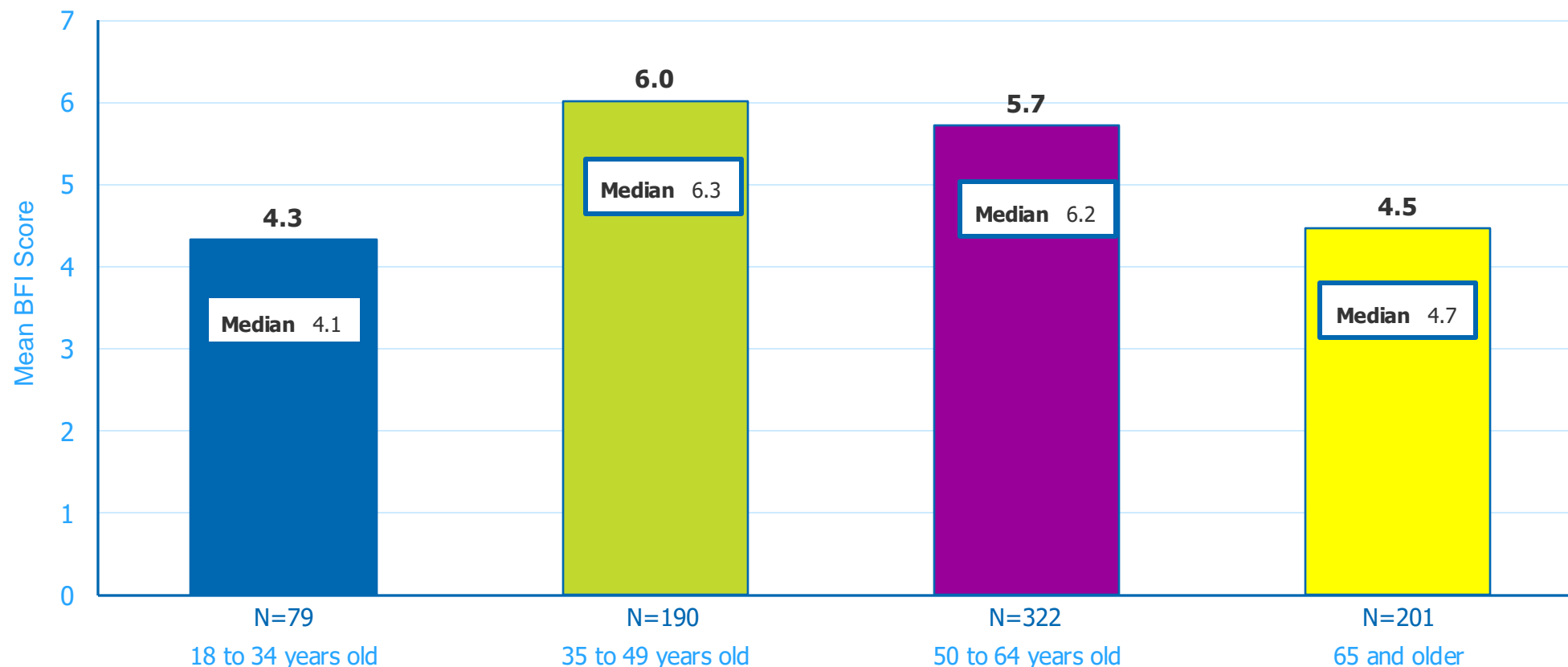


* p=.001

Median

Q4. At what age (in years) was the patient first diagnosed with a PI?
 Q7b. At what age (in years) did these repeated, serious, or unusual infections begin?
 Global BFI Score
 Base: All Adults with PI age 18 years old and older
 Note: Mild BFI Score 1 to 3, Moderate BFI Score 4 to 6, Severe BFI Score 7 to 10

Global BFI by Age Group*



* $p < .00$

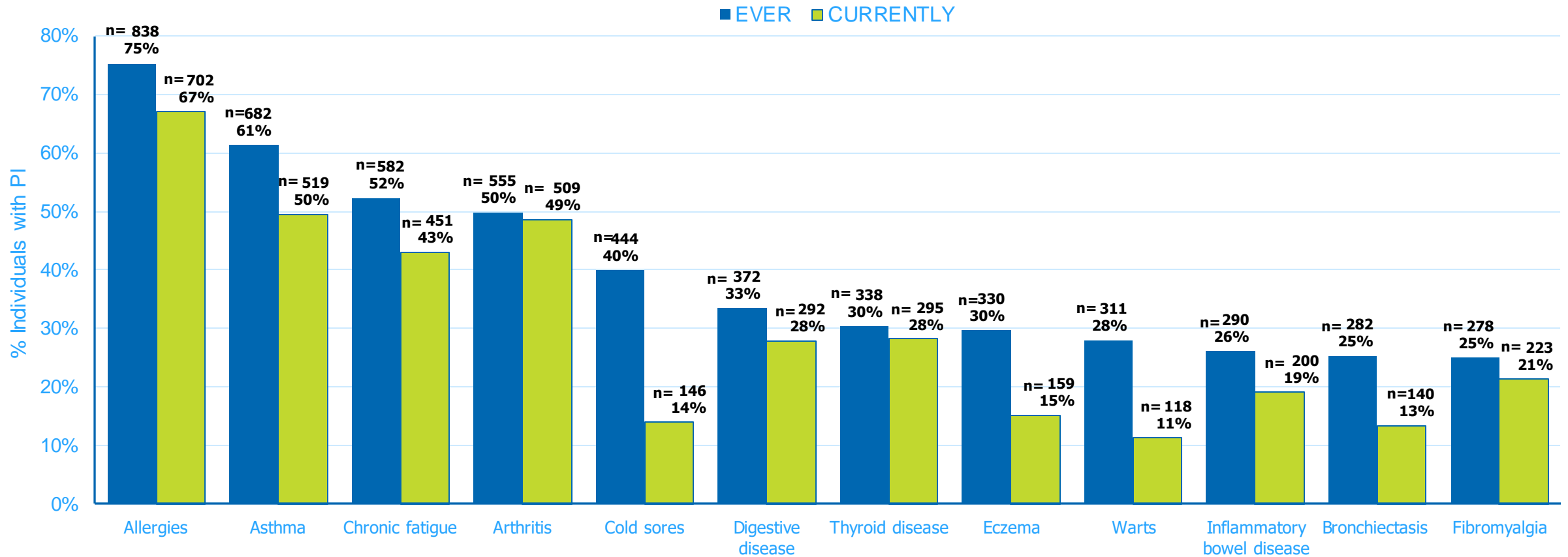
Q3. What is the age and gender of these persons with PI?

Global BFI Score

Base: All Adults with PI age 18 years old and older

Note: Mild BFI Score 1 to 3, Moderate BFI Score 4 to 6, Severe BFI Score 7 to 10

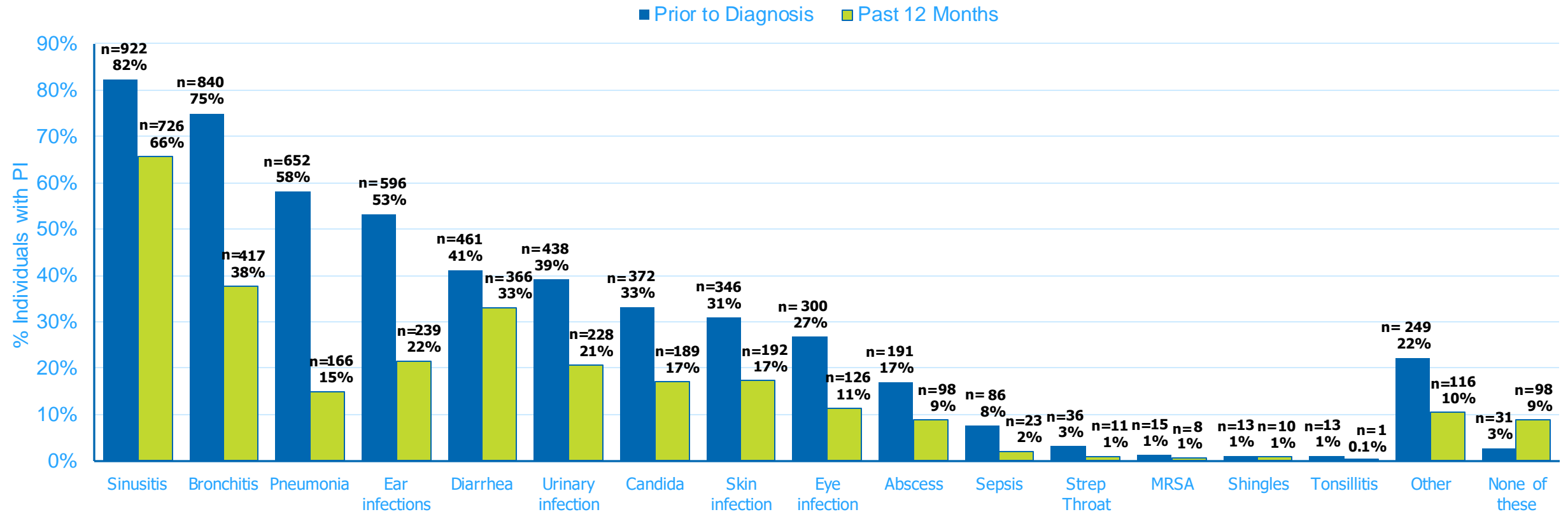
Most Common: Other Chronic Conditions EVER and CURRENT



Q20a. Please tell us about any diagnosed conditions the patient has EVER had. SELECT ALL THAT APPLY N=1,113
 Q20b. Please tell us about any diagnosed conditions the patient CURRENTLY has. SELECT ALL THAT APPLY N=1,048
 Base: All respondents

Infections

Prior to and After Diagnosis

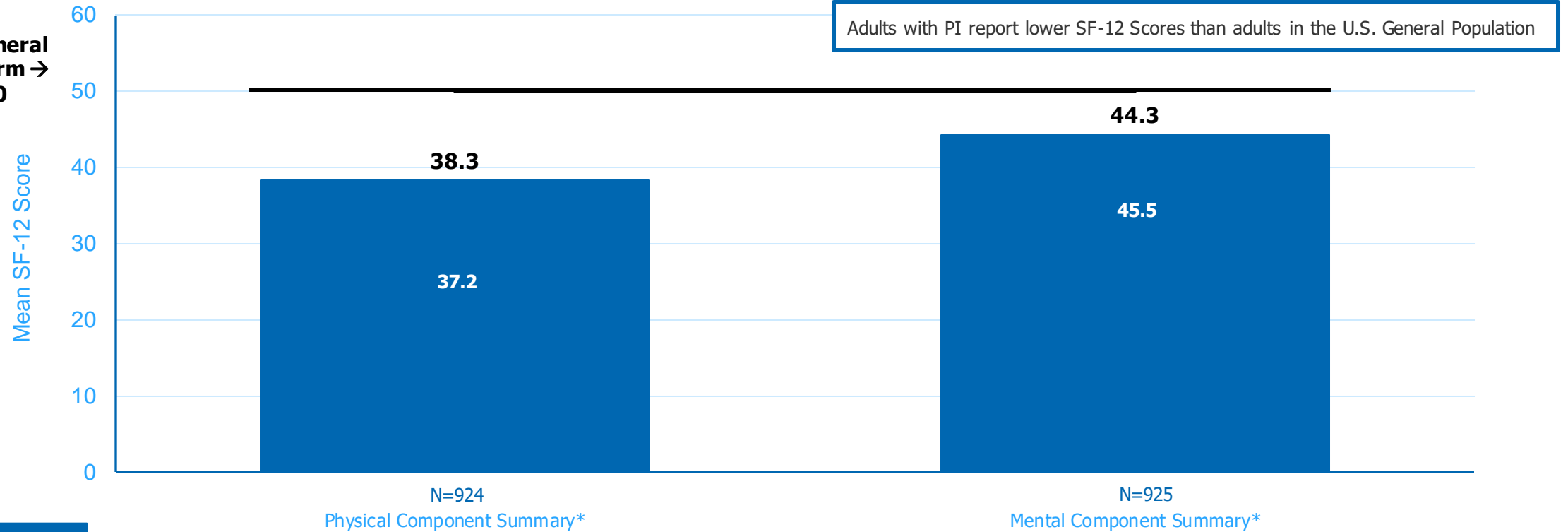


Q15. Which of the following infections, if any, did the patient have BEFORE diagnosis as immune deficient? SELECT ALL THAT APPLY N=1,120
 Q21. Which of the following infections, if any, has the patient had during the past 12 months? SELECT ALL THAT APPLY N=1,107
 Base: All respondents

General Health and Health Care

SF-12

U.S. General
Pop. Norm →
50.0



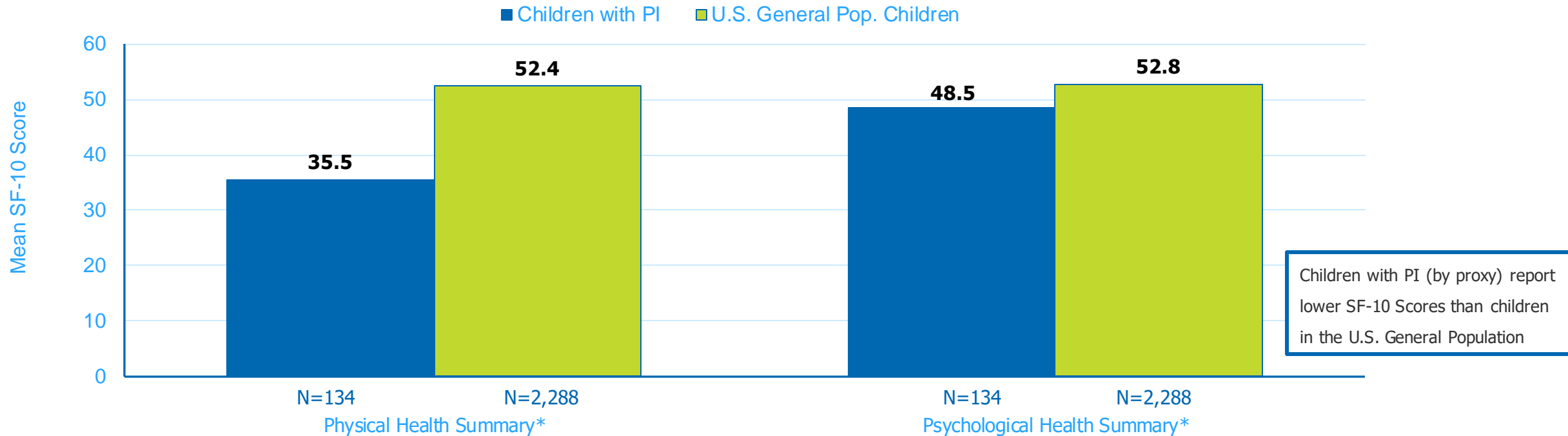
Median

GH01. In general, would you say your health is...
PF02. Moderate activities, such as moving a table,
pushing a vacuum cleaner, bowling, or playing golf
PF04. Climbing several flights of stairs
RP02. Accomplished less than you would like
RP03. Were limited in the kind of work or other activities
RE02. Accomplished less than you would like
Base: Adults with PI

RE03. Did work or other activities less carefully than usual
BP02. How much did pain interfere with your normal work?
MH03. Have you felt calm and peaceful?
VT02. Did you have a lot of energy?
MH04. Have you felt downhearted and depressed?
SF02. How much of the time has your physical health or
emotional problems interfered with your social activities?

* p<.00

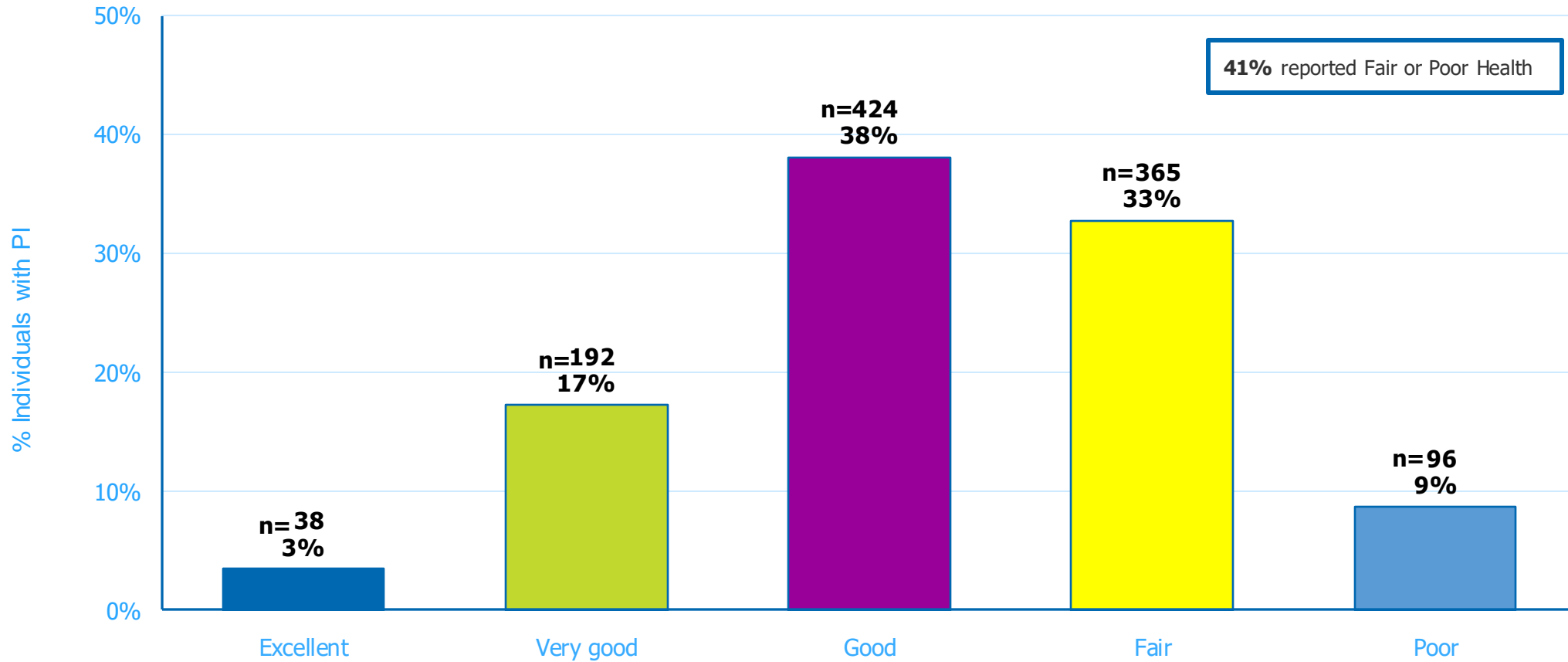
SF-10



GHGLOBAL. In general, would you say your child's health is...
PFSOME. Doing things that take some energy such as riding a bike or skating?
PFBEND. Bending, lifting, or stooping?
RPKIND. Has your child been limited in the KIND of schoolwork or activities with friends he/she could do because of PHYSICAL health problems?
REBKIND. Has your child been limited in the KIND of schoolwork or activities with friends he/she could do because of EMOTIONAL or BEHAVIORAL problems?
BPGLOBAL. How much bodily pain or discomfort has your child had?
SEFRIEND. How satisfied do you think your child has felt about his/her friendships?
SEOVERAL. How satisfied do you think your child has felt about his/her life overall?
MHUPSET. How much of the time do you think your child acted bothered or upset?
BEGLOBAL. Compared to other children your child's age, in general would you say his/her behavior is...
Base: Children with PI

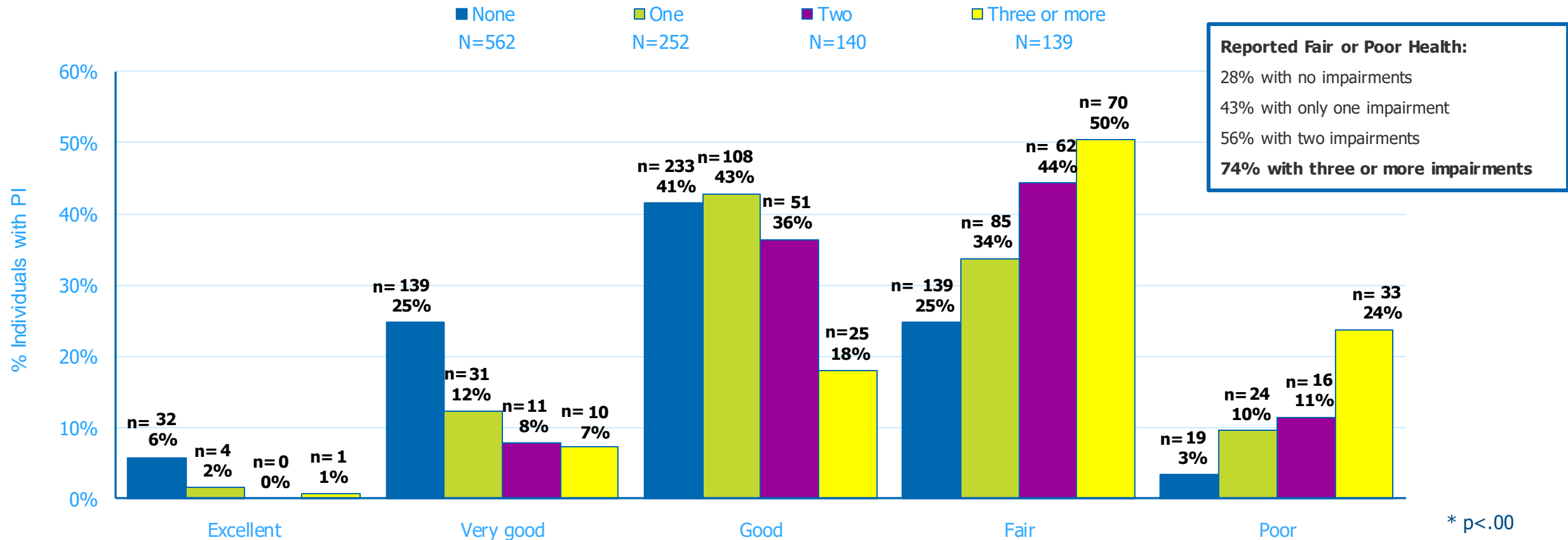
* $p < .00$

General Health



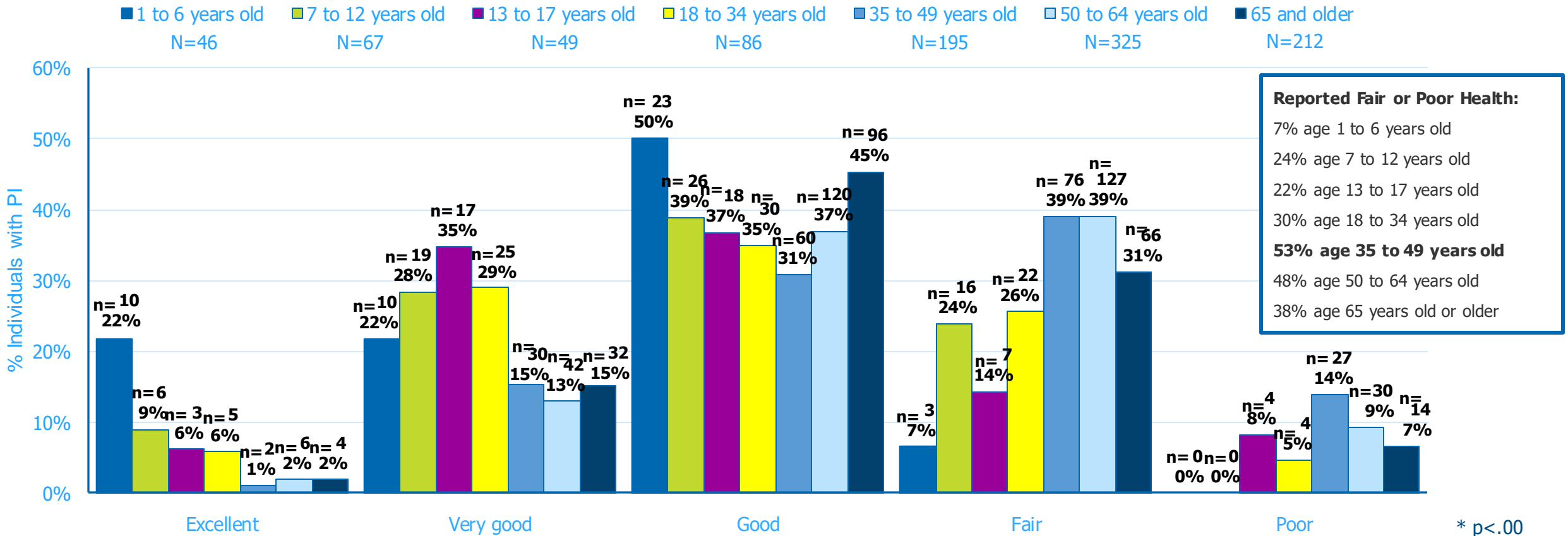
Q16. In general, would you say the patient's current health is... N=1,115
Base: All respondents

General Health by Permanent Impairments*



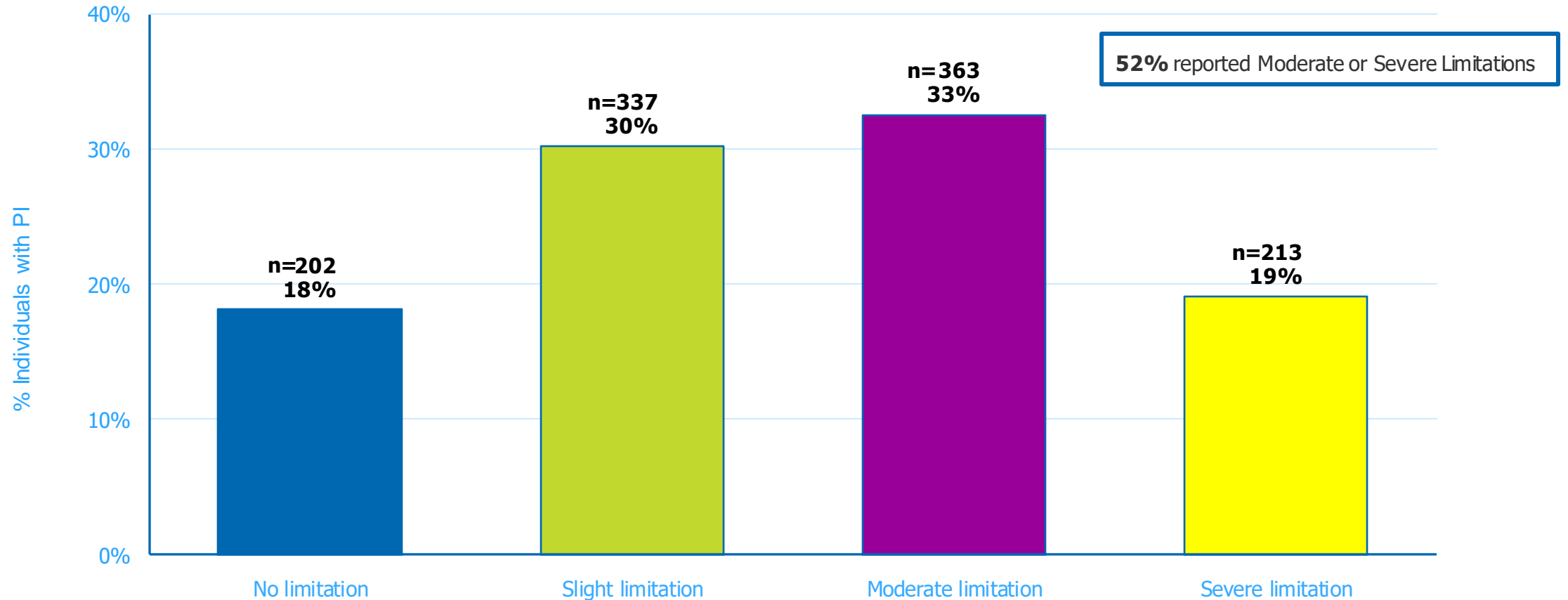
Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...? SELECT ALL THAT APPLY
 Q16. In general, would you say the patient's current health is...
 Base: All respondents

General Health by Age Group*



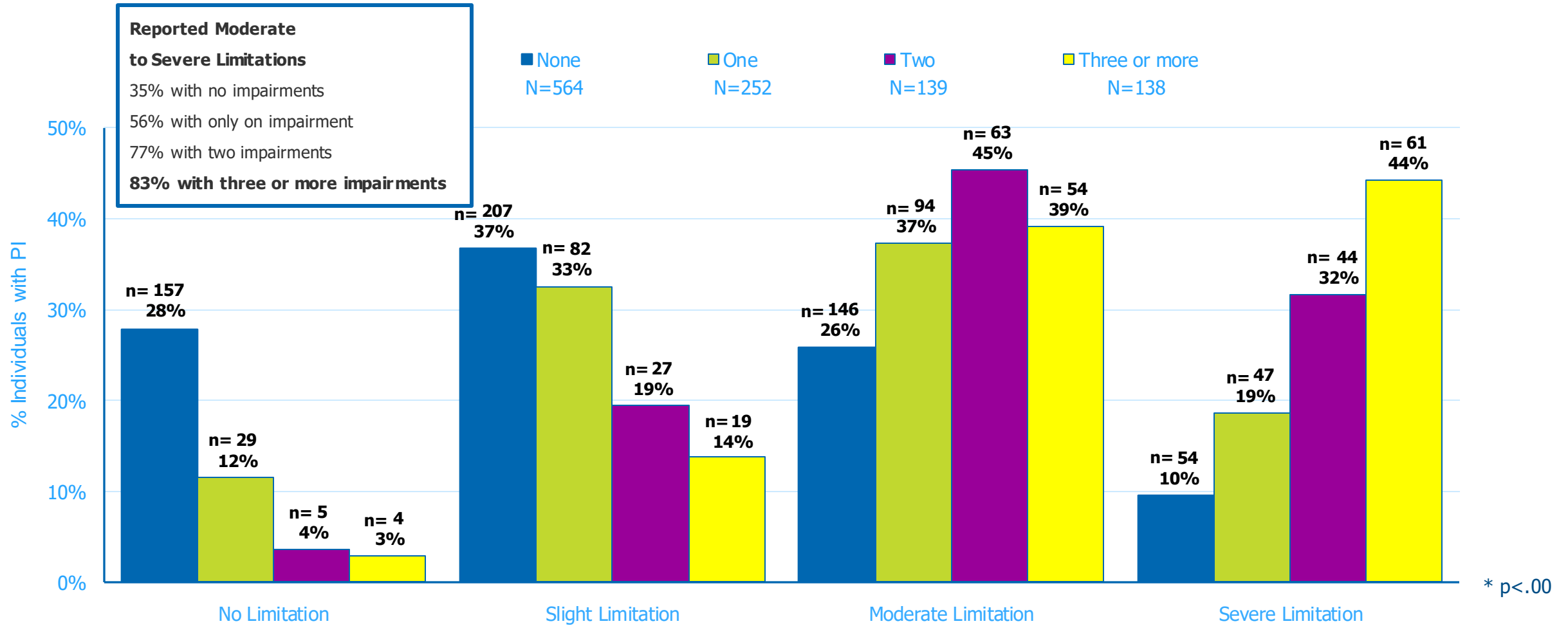
Q3. What is the age and gender of these persons with PI?
 Q16. In general, would you say the patient's current health is...
 Base: All respondents

Physical Limitations



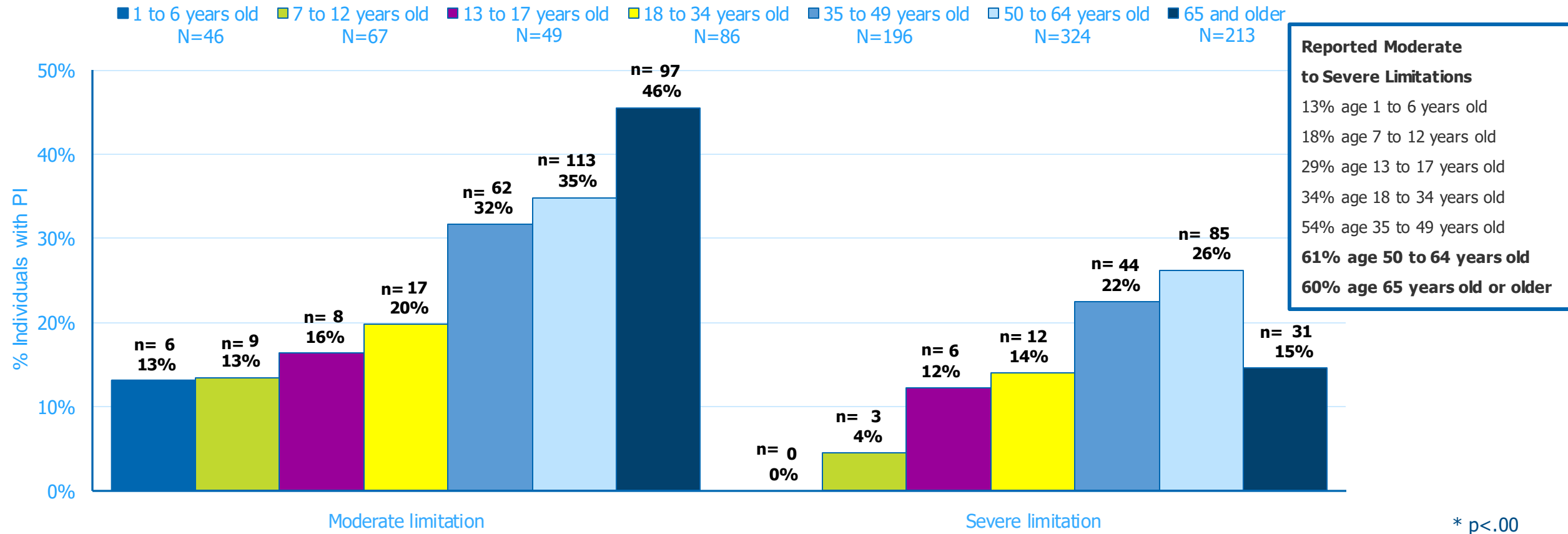
Q17. How much is the patient currently limited in work, play or normal physical activity as a result of his/her physical health? N=1,115
Base: All respondents

Physical Limitations by Permanent Impairments*



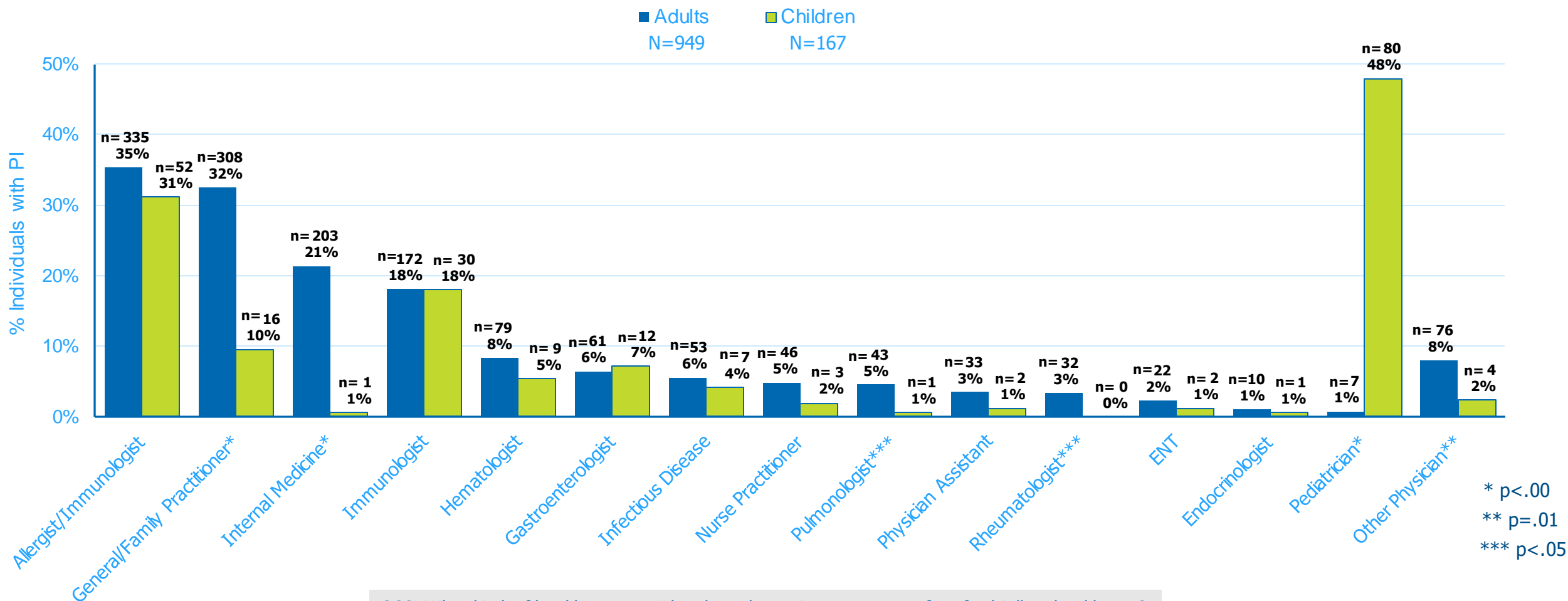
Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...?
 Q17. How much is the patient currently limited in work, play or normal physical activity as a result of his/her physical health?
 Base: All respondents

Physical Limitations by Age Group*



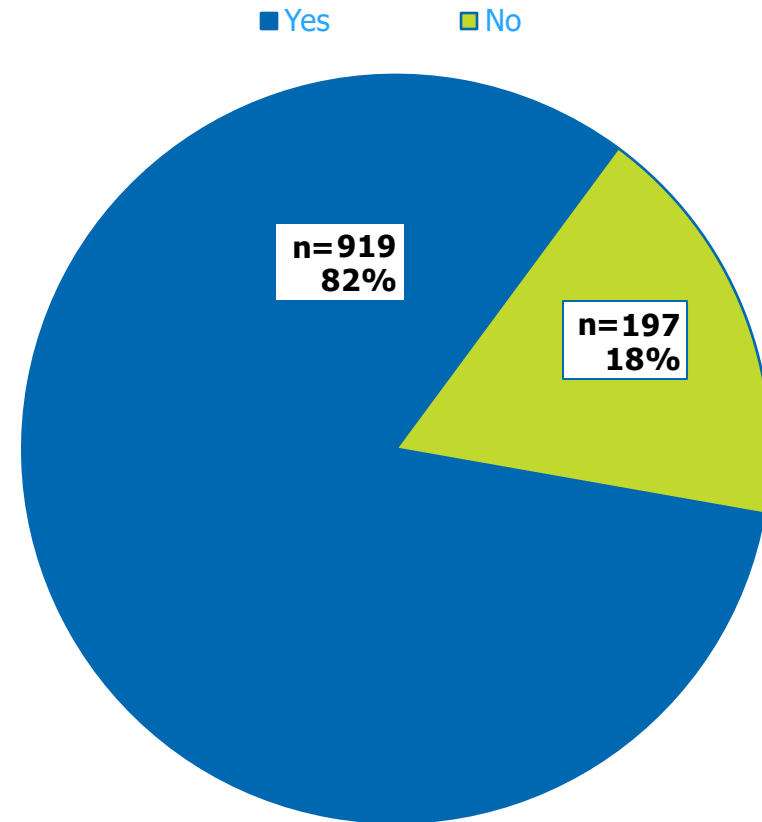
Q3. What is the age and gender of these persons with PI?
 Q17. How much is the patient currently limited in work, play or normal physical activity as a result of his/her physical health?
 Base: All respondents

Treating Physician by Age*



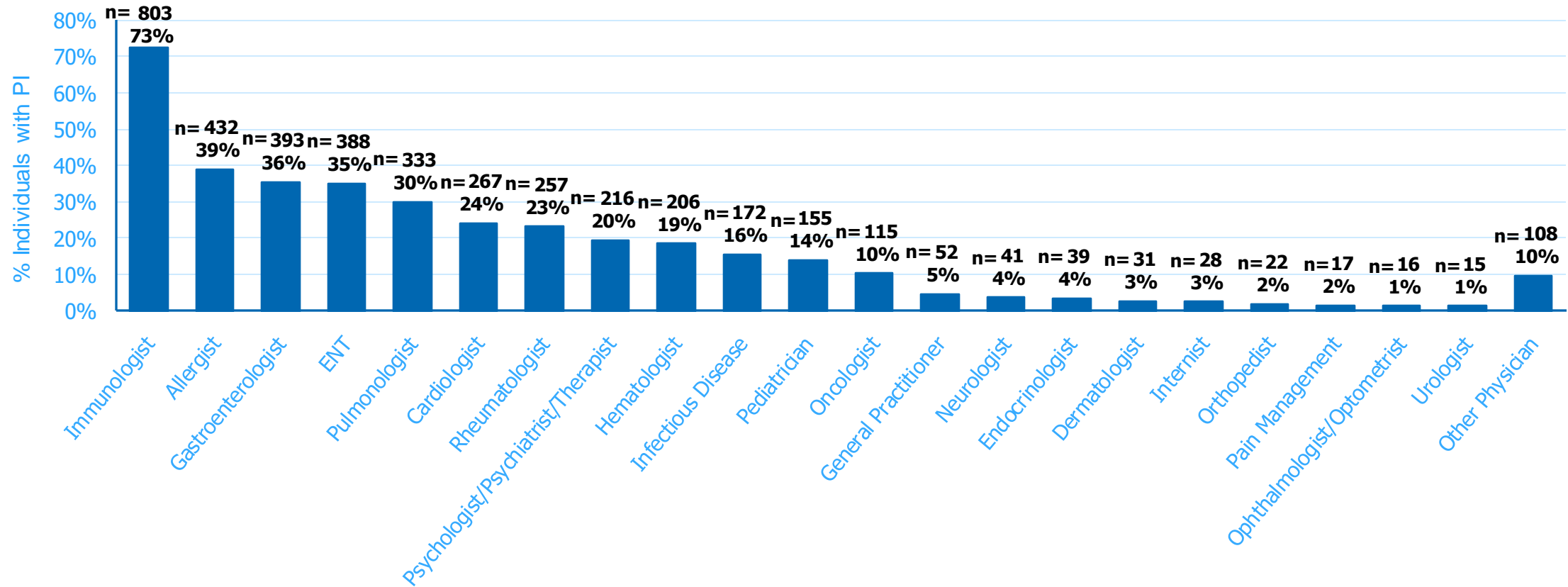
Q22. What kind of healthcare provider does the patient see most often for his/her healthcare?
Base: All respondents

Seen Immunologist in Past 12 Months



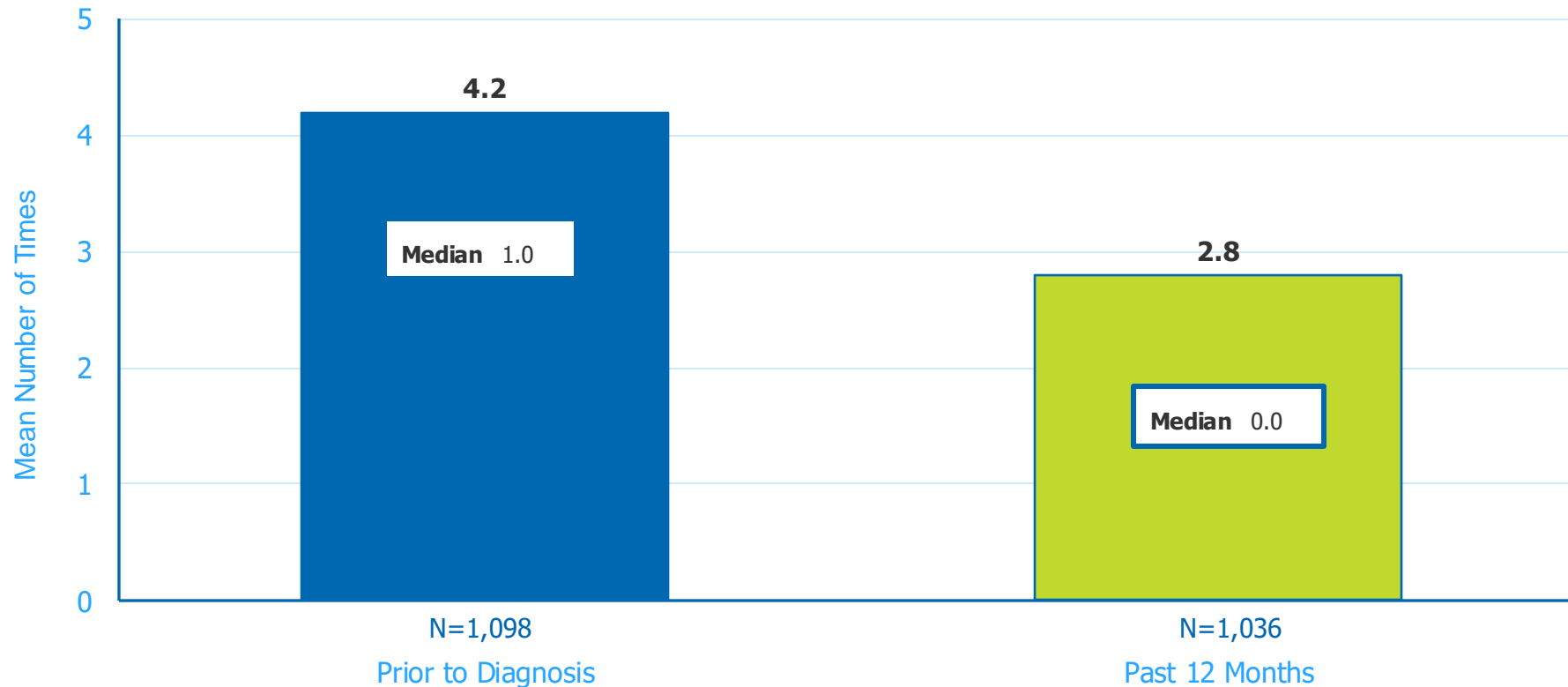
Q23a. Has he/she been seen by an immunologist during the last 12 months? N=1,116
Base: All respondents

Specialists Seen in Past 12 Months



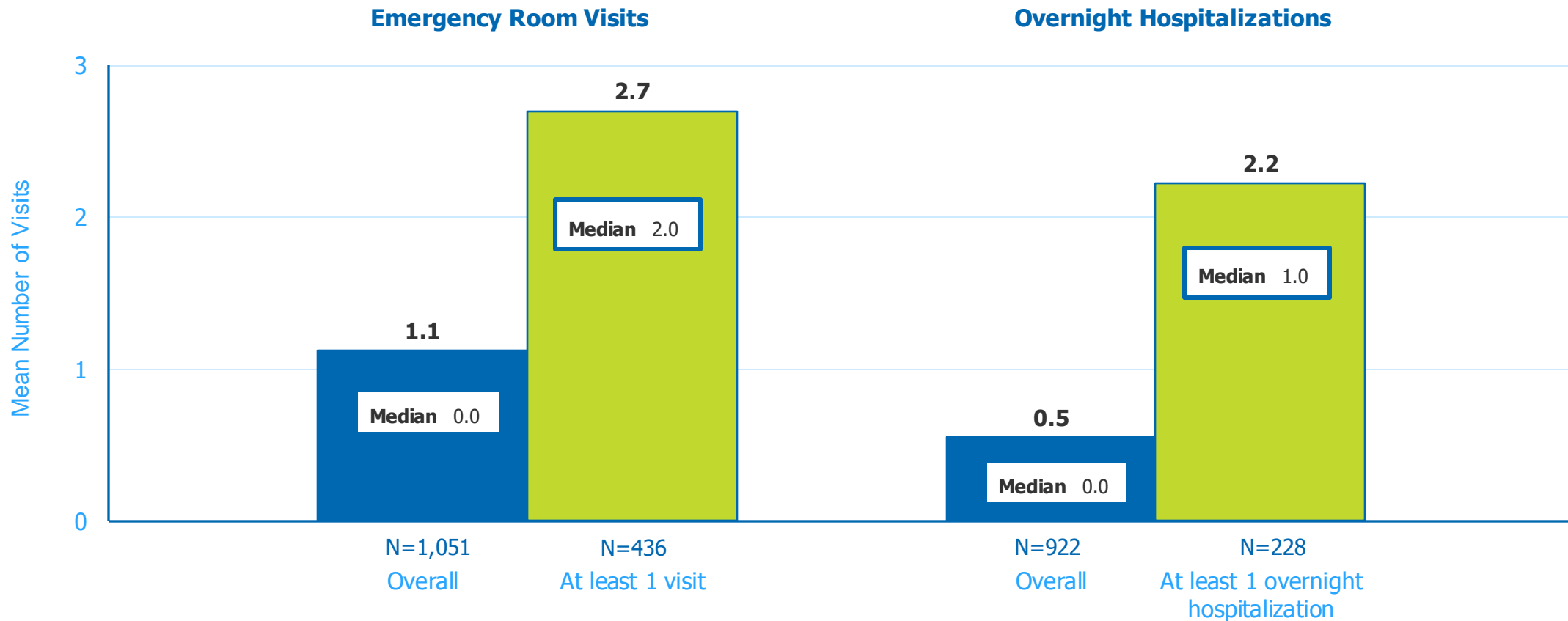
Q24a. What kind of healthcare providers, if any, has the patient seen for his/her healthcare in the past 12 months? SELECT ALL THAT APPLY N=1,105
Base: All respondents

Hospitalizations



Q12. How many times had he/she been hospitalized BEFORE DIAGNOSIS as immune deficient?
Q13. How many times has he/she been hospitalized SINCE DIAGNOSIS as immune deficient?
Base: All respondents

ER Visits and Overnight Hospitalizations



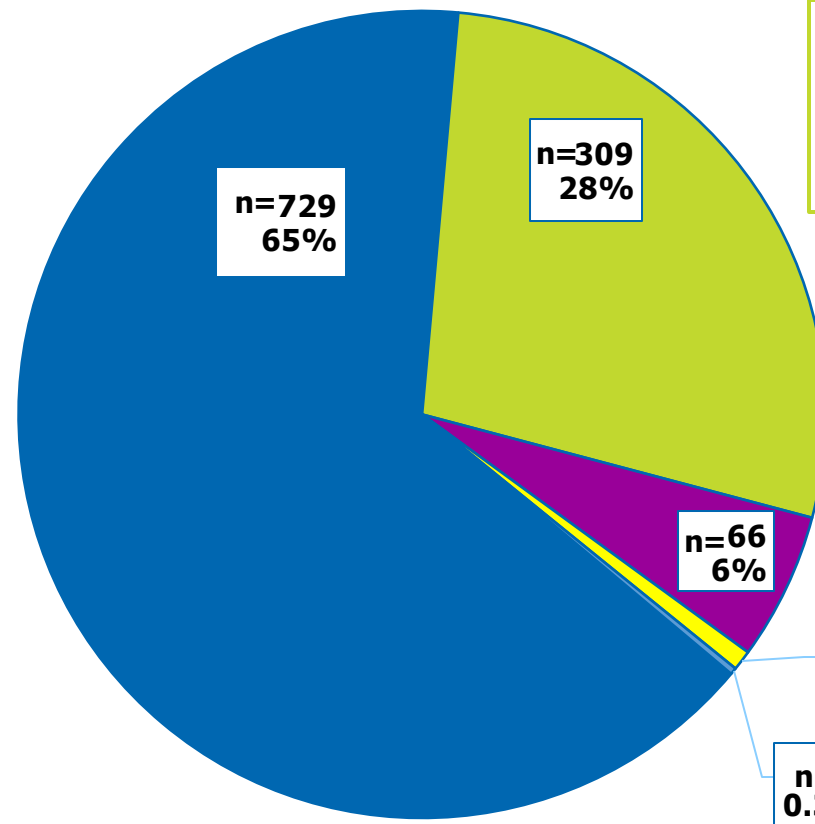
Q25. How many emergency room visits and/or hospitalizations during the past 12 months, NOT COUNTING INFUSIONS. Please enter "0" if none.
Base: All respondents

Insurance

■ Private ■ Public ■ Both Private and Public ■ Other/Not Sure ■ No Insurance

Private Insurance

Employer sponsored group plan
Individual policy plan (for individuals or family)
Cobra
Exchange/Marketplace (State)
Exchange/Marketplace (Federal)
Medicare Advantage Plan
Medicare Supplement Plan



Public Insurance

Medicare
Medicare due to disability
Medicaid
TRICARE/Veterans Policy
Children's Health Insurance Plan

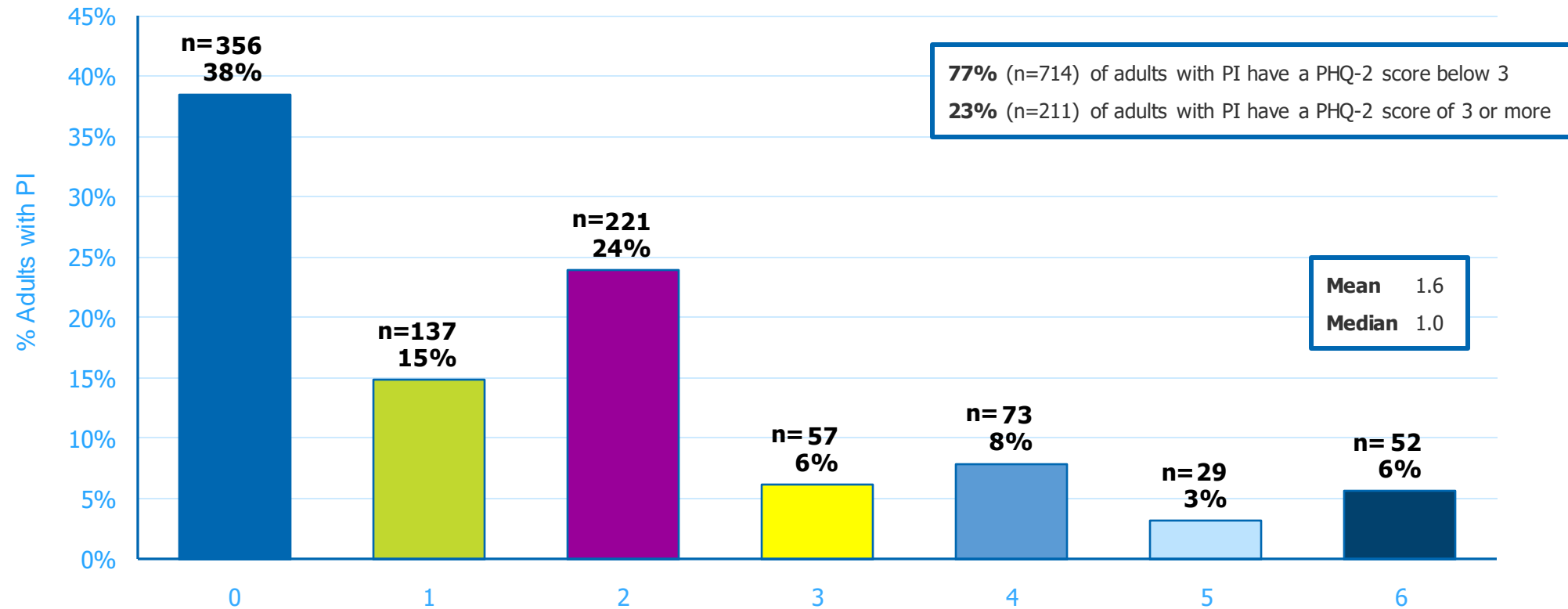
Both Private and Public Insurance

Employer sponsored group plan/Medicare
Employer sponsored group plan/Medicaid
Employer sponsored group plan/TRICARE/VA
Individual policy plan/Medicare
Individual policy plan/Medicaid
Individual policy plan/TRICARE/VA
Medicaid/Medicare Advantage Plan
TRICARE/VA/Medicare Supplement Plan

Q42. What kind of health insurance does the patient have? N=1,116
Base: All respondents

Mental Health

PHQ-2



Q19a. Little interest or pleasure in doing things

Q19b. Feeling down, depressed or hopeless

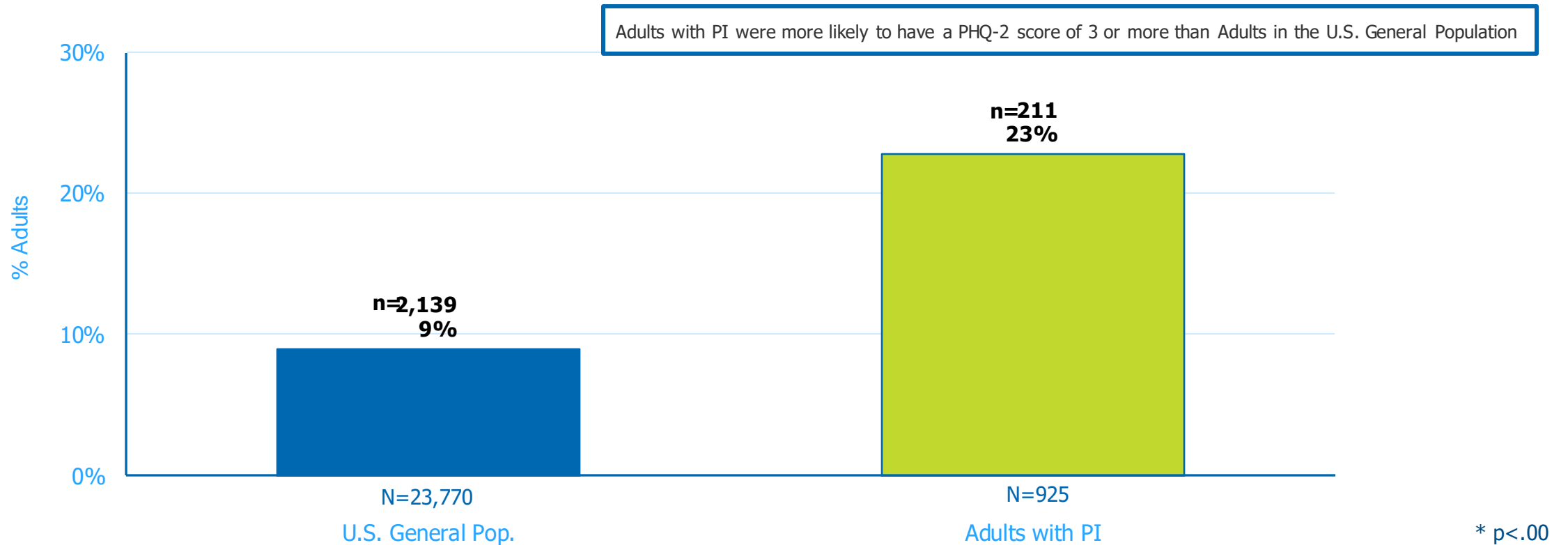
N=925

Base: Adults with PI

Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

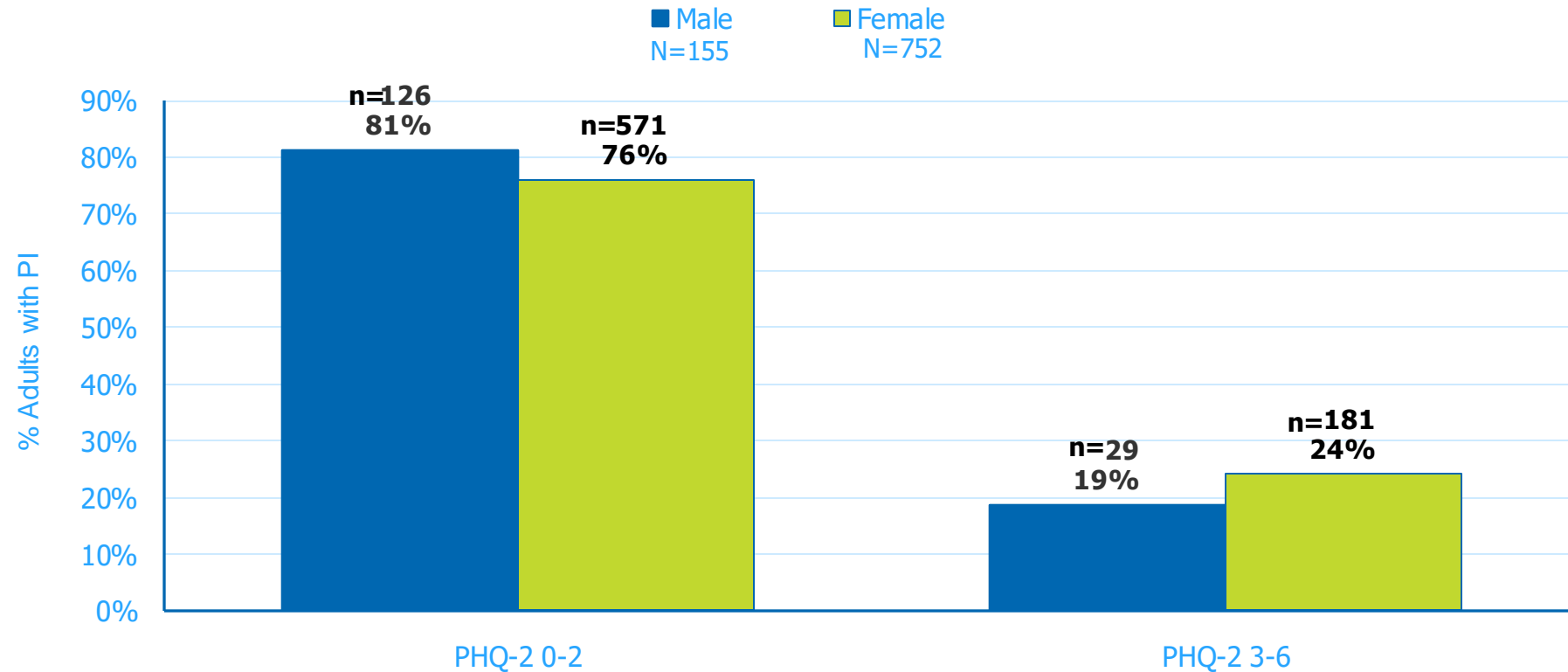
PHQ-2 Scores 3 or more

U.S. General Population versus Adults with PI*



Q19a. Little interest or pleasure in doing things
Q19b. Feeling down, depressed or hopeless
Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

PHQ-2 Score by Gender



Q3. What is the age and gender of these persons with PI?

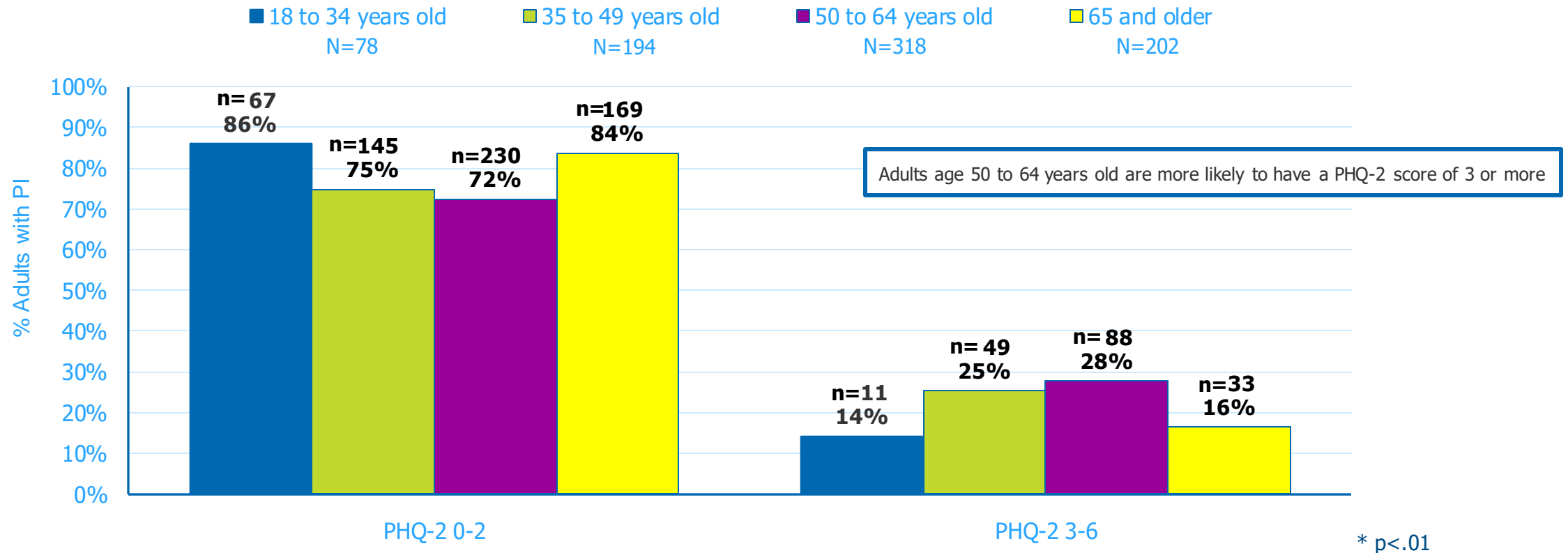
Q19a. Little interest or pleasure in doing things

Q19b. Feeling down, depressed or hopeless

Base: Adults with PI

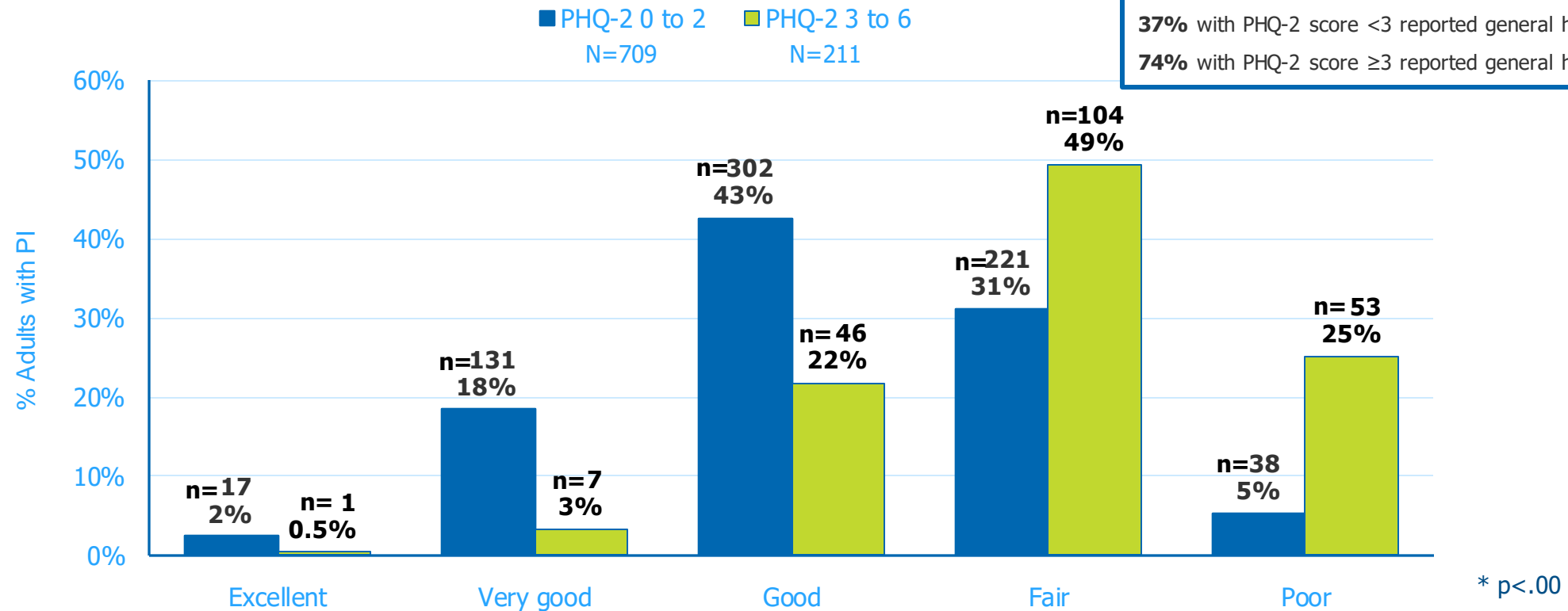
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

PHQ-2 Score by Age Group*



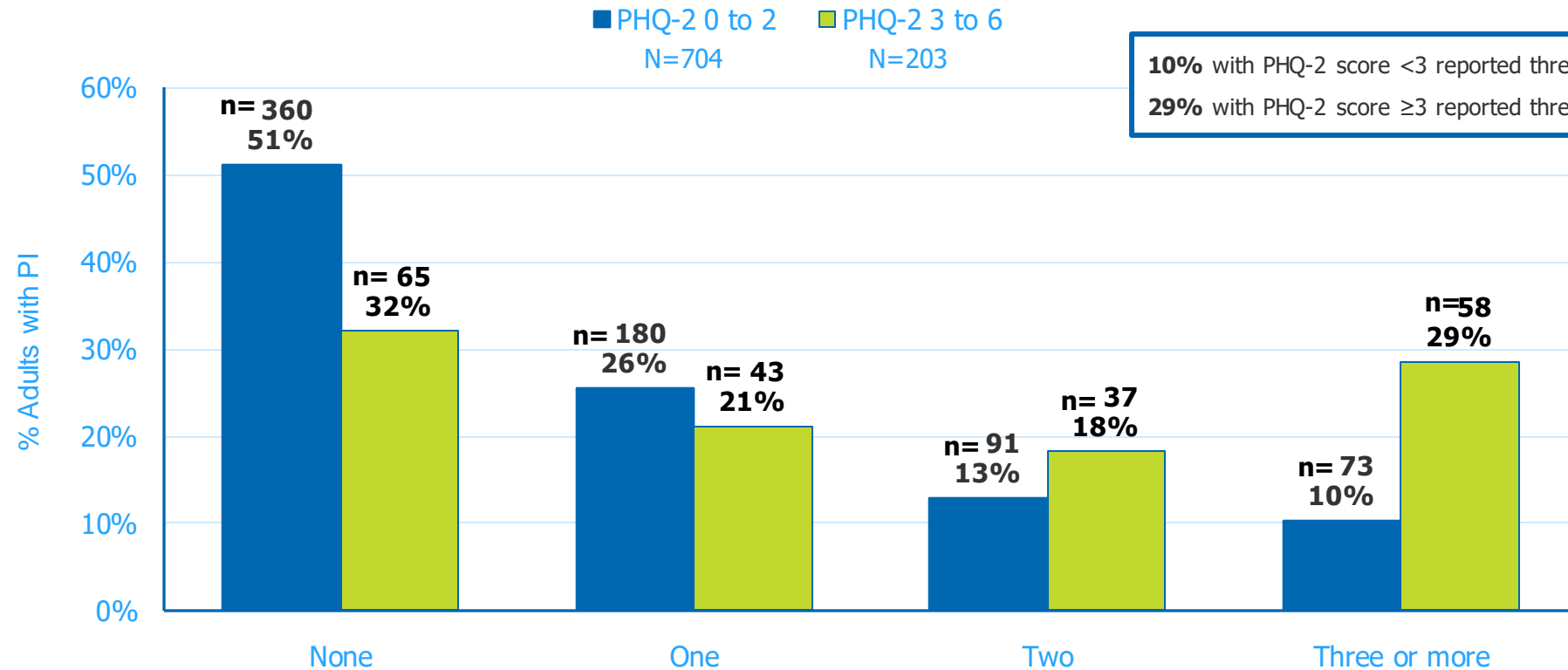
Q3. What is the age and gender of these persons with PI?
Q19a. Little interest or pleasure in doing things
Q19b. Feeling down, depressed or hopeless
Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

PHQ-2 Score by General Health*



Q16. In general, would you say the patient's current health is:
Q19a. Little interest or pleasure in doing things
Q19b. Feeling down, depressed or hopeless
Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

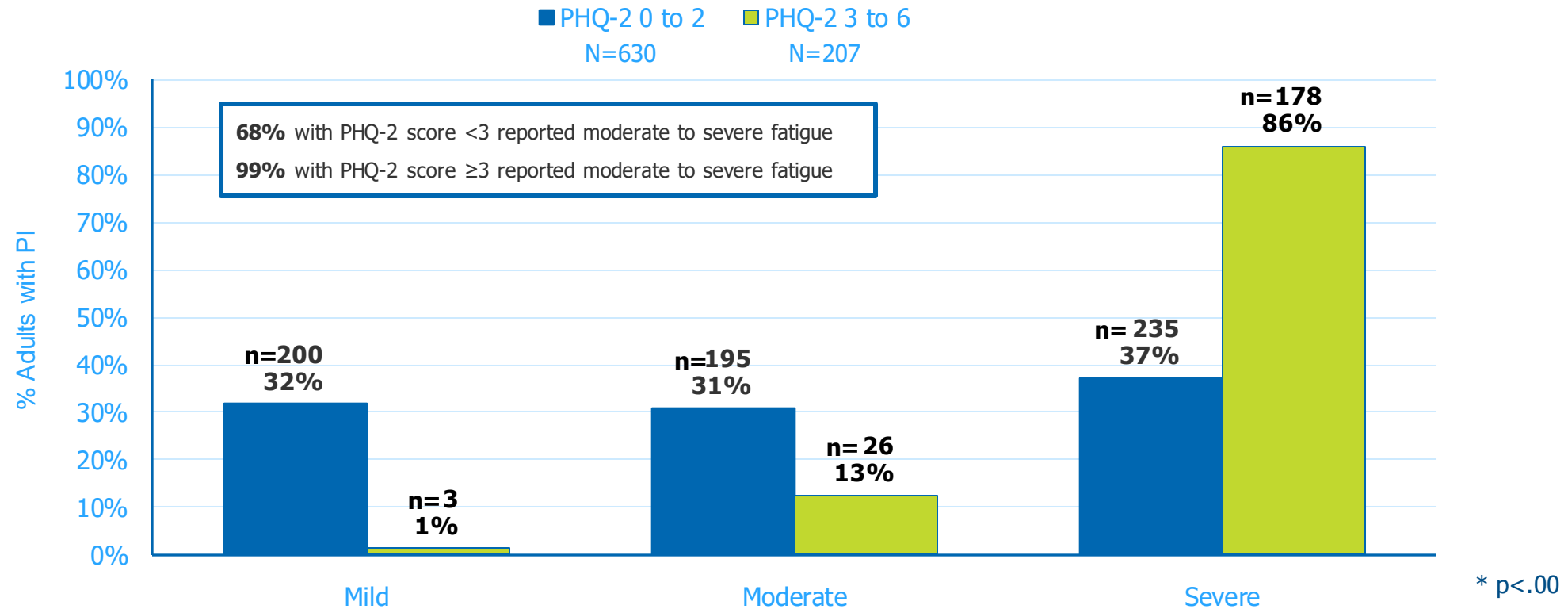
PHQ-2 Score by Permanent Impairments*



10% with PHQ-2 score <3 reported three or more permanent impairments
29% with PHQ-2 score ≥3 reported three or more permanent impairments

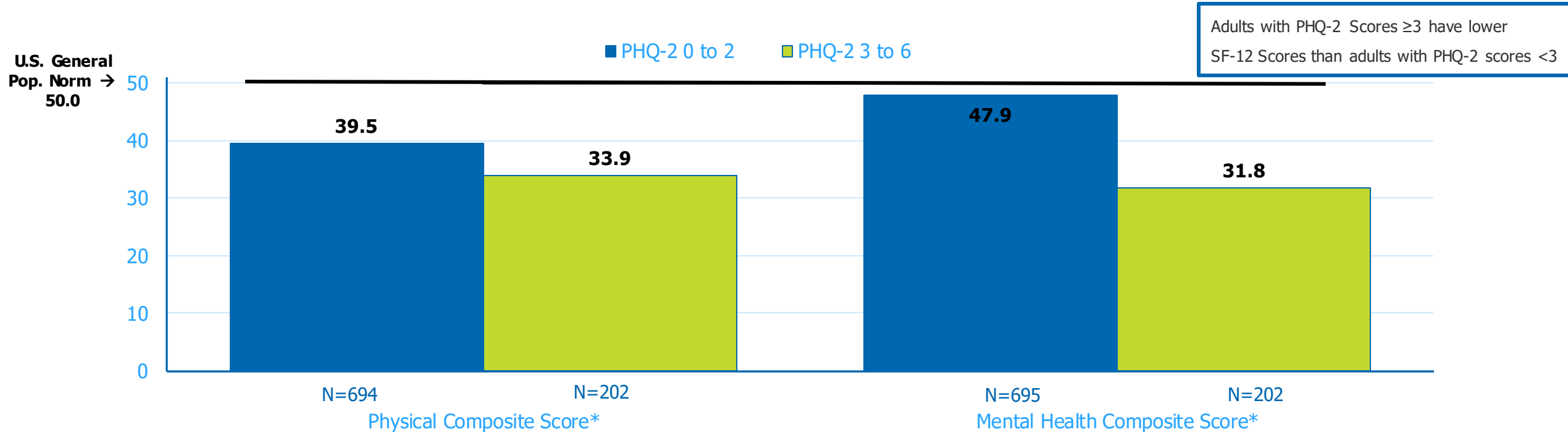
Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...? SELECT ALL THAT APPLY
Q19a. Little interest or pleasure in doing things
Q19b. Feeling down, depressed or hopeless
Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

PHQ-2 Score by BFI*



Q19a. Little interest or pleasure in doing things
Q19b. Feeling down, depressed or hopeless
Global BFI Score
Base: Adults with PI
Note¹: PHQ-2 scores greater than 2 indicate a possible depressive disorder
Note²: 1-4=Mild; 5-6=Moderate; 7-10=Severe

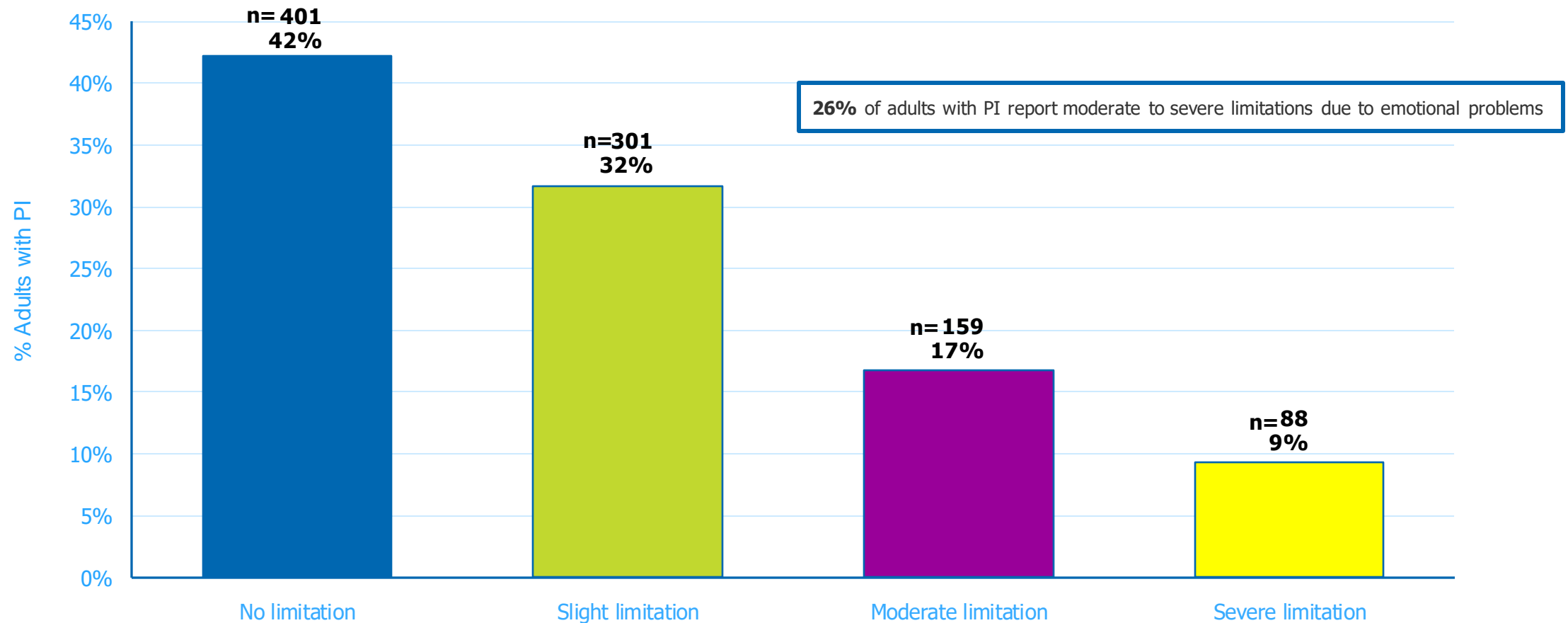
PHQ-2 Score by Mean SF-12 Scores*



Q19a. Little interest or pleasure in doing things
Q19b. Feeling down, depressed or hopeless
VT02. Did you have a lot of energy?
SF02. How much of the time has your physical health or emotional problems interfered with your social activities?
RE02. Accomplished less than you would like
RE03. Did work or other activities less carefully than usual
MH03. Have you felt calm and peaceful?
MH04. Have you felt downhearted and depressed?
Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

* $p < .00$

Limitations due to Emotional Problems



Q18. How much is the patient currently limited in work, play or normal activities as a result of any emotional problems (such as feeling depressed or anxious)? N=949
Base: Adults with PI

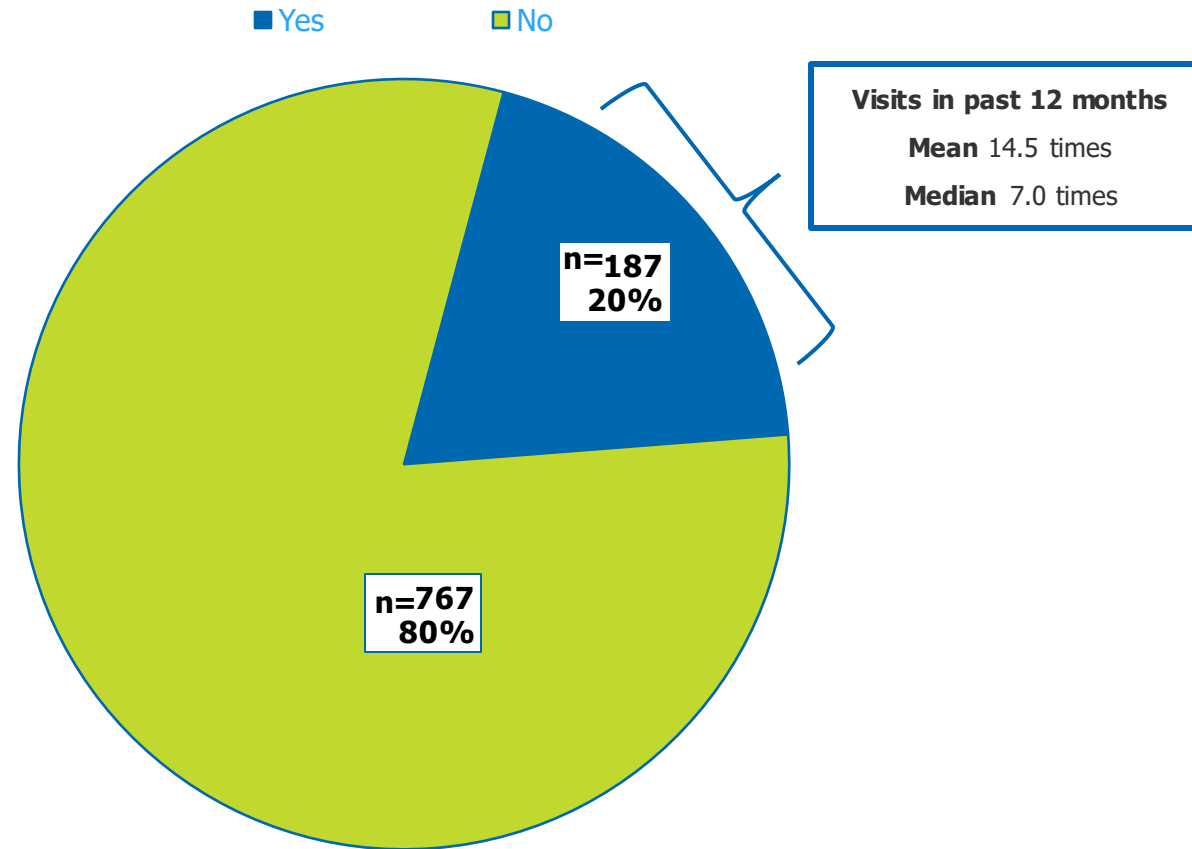
Moderate to Severe Limitations Due to Emotional Problems by PHQ-2, Gender, Age and Permanent Impairments

	Moderate to Severe Limitation
PHQ-2*	
0 to 2 (N=712)	13%
3 to 6 (N=210)	74%
Gender	
Male (N=162)	22%
Female (N=769)	27%
Age*	
18 to 34 (N=81)	17%
35 to 49 (N=195)	31%
50 to 64 (N=325)	29%
65 and older (N=212)	22%
Permanent Impairments*	
None (N=436)	18%
One (N=229)	25%
Two (N=130)	33%
Three or More (N=135)	44%

Q3. What is the age and gender of these persons with PI?
 Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...?
 Q18. How much is the patient currently limited in work, play or normal activities as a result of any emotional problems (such as feeling depressed or anxious)?
 Q19a. Little interest or pleasure in doing things
 Q19b. Feeling down, depressed or hopeless
 Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

* p<.00

Seeing a Mental Health Professional



Q24a_10. What kind of healthcare providers, if any, has the patient seen for his/her healthcare in the past 12 months? Psychologist/Psychiatrist/Therapist N=954
Q24b_10. How many visits to these specialists in the past 12 months? N=165
Base: Adults with PI

Seeing a Mental Health Professional by PHQ-2, Gender, Age and Permanent Impairments

	Saw a Mental Health Professional	Mean Number of Visits
PHQ-2*/***		
0 to 2 (N=93/N=80)	13%	11.6
3 to 6 (N=88/ N=82)	74%	17.4
Gender*		
Male (N=162/N=12)	8%	13.0
Female (N=744/N=152)	22%	14.6
Age*		
18 to 34 (N=82/N=16)	22%	21.6
35 to 49 (N=196/N=50)	28%	14.6
50 to 64 (N=327/N=58)	20%	13.6
65 and older (N=213/N=19)	10%	11.5
Permanent Impairments*/**		
None (N=438/N=68)	17%	11.0
One (N=230/N=34)	17%	20.8
Two (N=131/N=23)	21%	17.7
Three or More (N=136/N=38)	31%	13.7

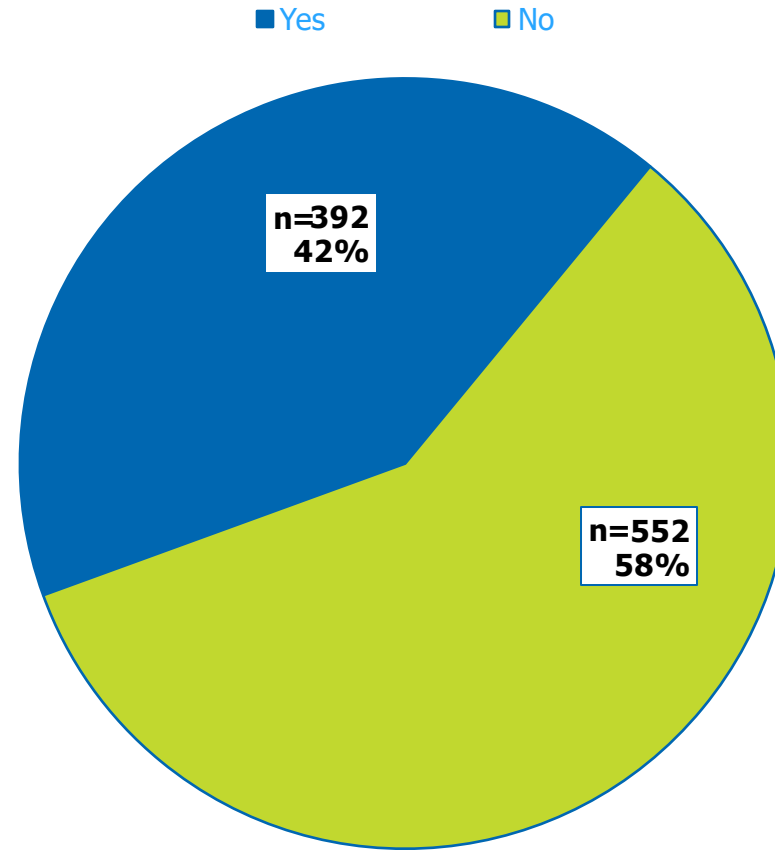
Q3. What is the age and gender of these persons with PI?
 Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...?
 Q19a. Little interest or pleasure in doing things
 Q19b. Feeling down, depressed or hopeless
 Q24a_10. What kind of healthcare providers, if any, has the patient seen for his/her healthcare in the past 12 months?
 Psychologist/Psychiatrist/Therapist
 Q24b_10. How many visits to these specialists in the past 12 months?
 Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

* p<.00

** p<.01

*** p<.05

Currently Taking Prescription Medications for Anxiety, Depression or Stress



Q37. Is the patient currently taking any prescription medications for anxiety, depression or stress such as Prozac, Effexor or Wellbutrin? N=944
Base: Adults with PI

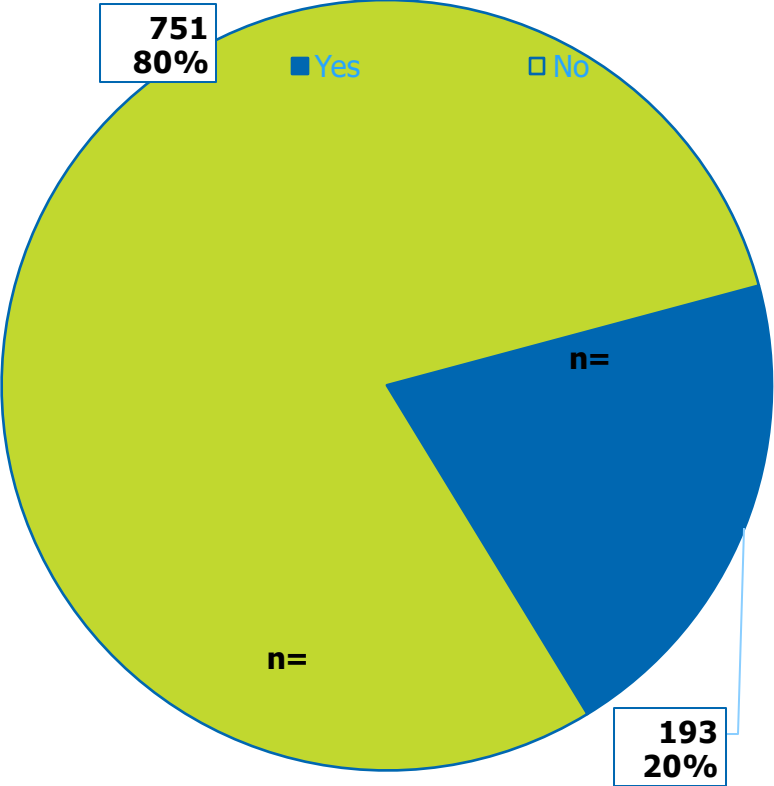
Currently Taking Prescription Medications for Anxiety, Depression or Stress by PHQ-2, Gender, Age and Permanent Impairments

	Currently Taking Prescription Medications for Anxiety, Depression or Stress
PHQ-2*	
0 to 2 (N=706)	33%
3 to 6 (N=211)	69%
Gender*	
Male (N=161)	23%
Female (N=765)	46%
Age	
18 to 34 (N=82)	34%
35 to 49 (N=196)	35%
50 to 64 (N=321)	40%
65 and older (N=210)	40%
Permanent Impairments	
None (N=432)	39%
One (N=227)	43%
Two (N=131)	39%
Three or More (N=135)	47%

Q3. What is the age and gender of these persons with PI?
 Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...?
 Q19a. Little interest or pleasure in doing things
 Q19b. Feeling down, depressed or hopeless
 Q37. Is the patient currently taking any prescription medications for anxiety, depression or stress such as Prozac, Effexor or Wellbutrin?
 Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

* p<.00

Currently Taking Prescription Medications for Pain



Q40. Is the patient currently taking any prescribed medications for pain such as oxycodone, codeine or hydrocodone? N=944
Base: Adults with PI

Currently Taking Prescription Medications for Pain by PHQ-2, Gender, Age and Permanent Impairments

	Currently Taking Prescription Medications for Pain
PHQ-2*	
0 to 2 (N=707)	17%
3 to 6 (N=208)	33%
Gender**	
Male (N=161)	11%
Female (N=761)	22%
Age*	
18 to 34 (N=82)	5%
35 to 49 (N=195)	26%
50 to 64 (N=323)	24%
65 and older (N=211)	18%
Permanent Impairments*	
None (N=433)	16%
One (N=229)	18%
Two (N=129)	25%
Three or More (N=134)	34%

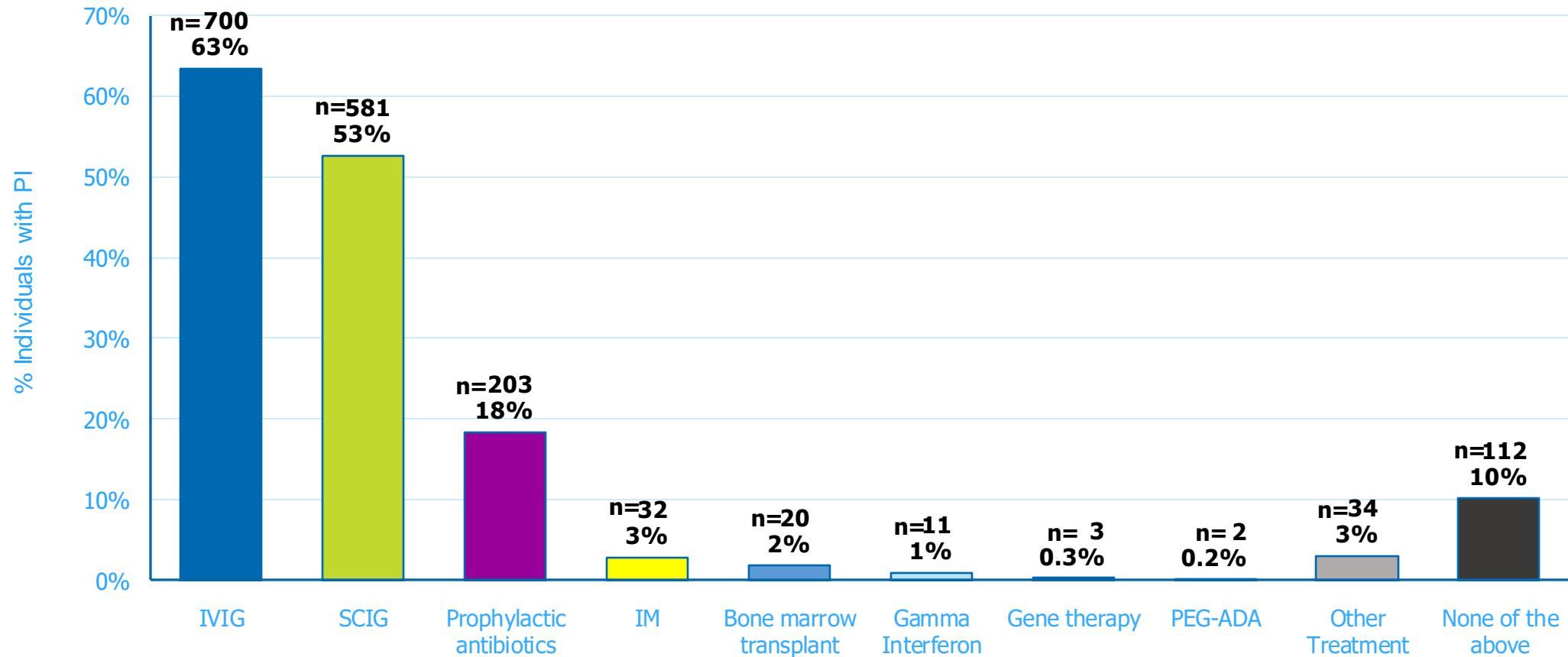
Q3. What is the age and gender of these persons with PI?
 Q14. By the time of initial diagnosis as immune deficient, had he/she suffered any permanent impairment or loss of...?
 Q19a. Little interest or pleasure in doing things
 Q19b. Feeling down, depressed or hopeless
 Q40. Is the patient currently taking any prescribed medications for pain such as oxycodone, codeine or hydrocodone?
 Base: Adults with PI
Note: PHQ-2 scores greater than 2 indicate a possible depressive disorder

* p<.00

** p<.01

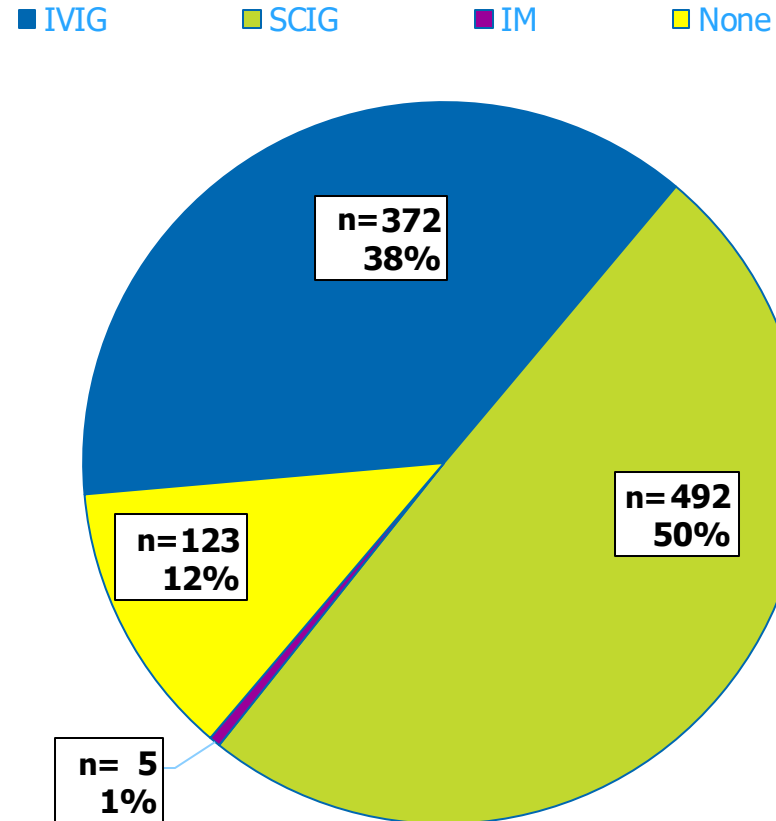
Treatment

Treatments EVER



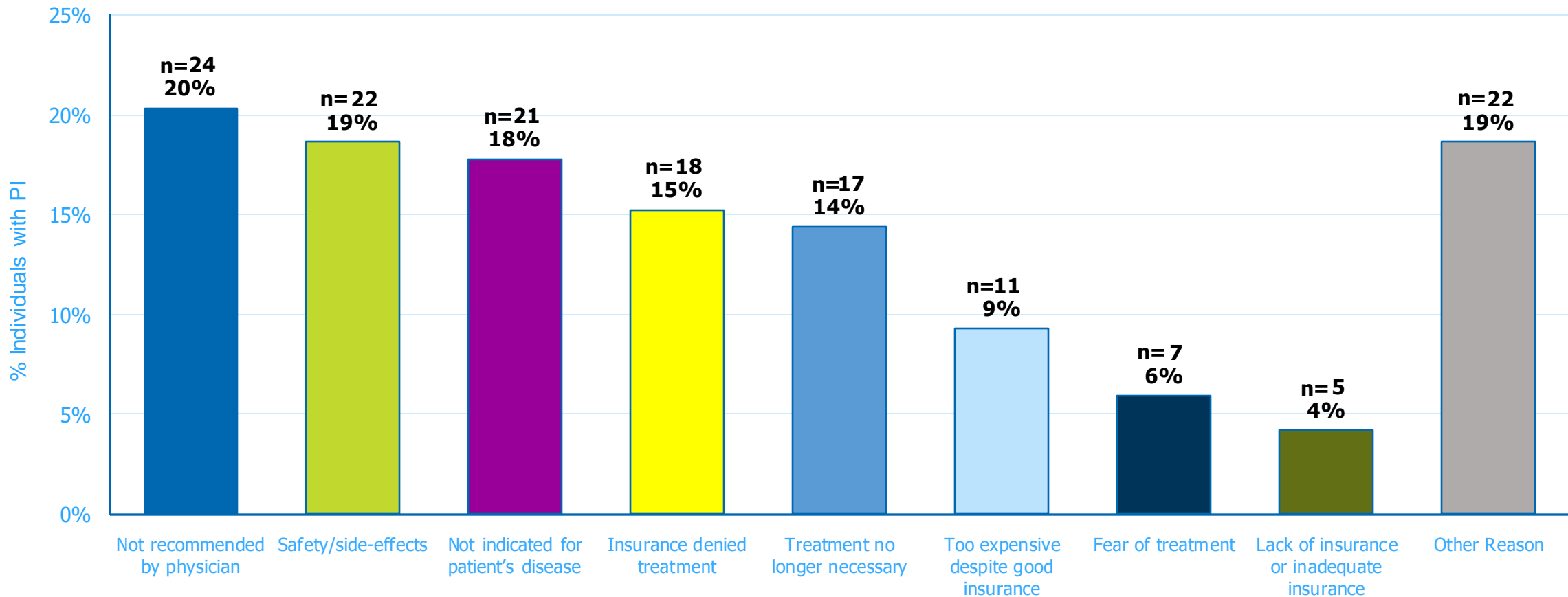
Q26. Has the patient ever received any of the following treatments for their PI? SELECT ALL THAT APPLY N=1,105
Base: All respondents

Current Treatment



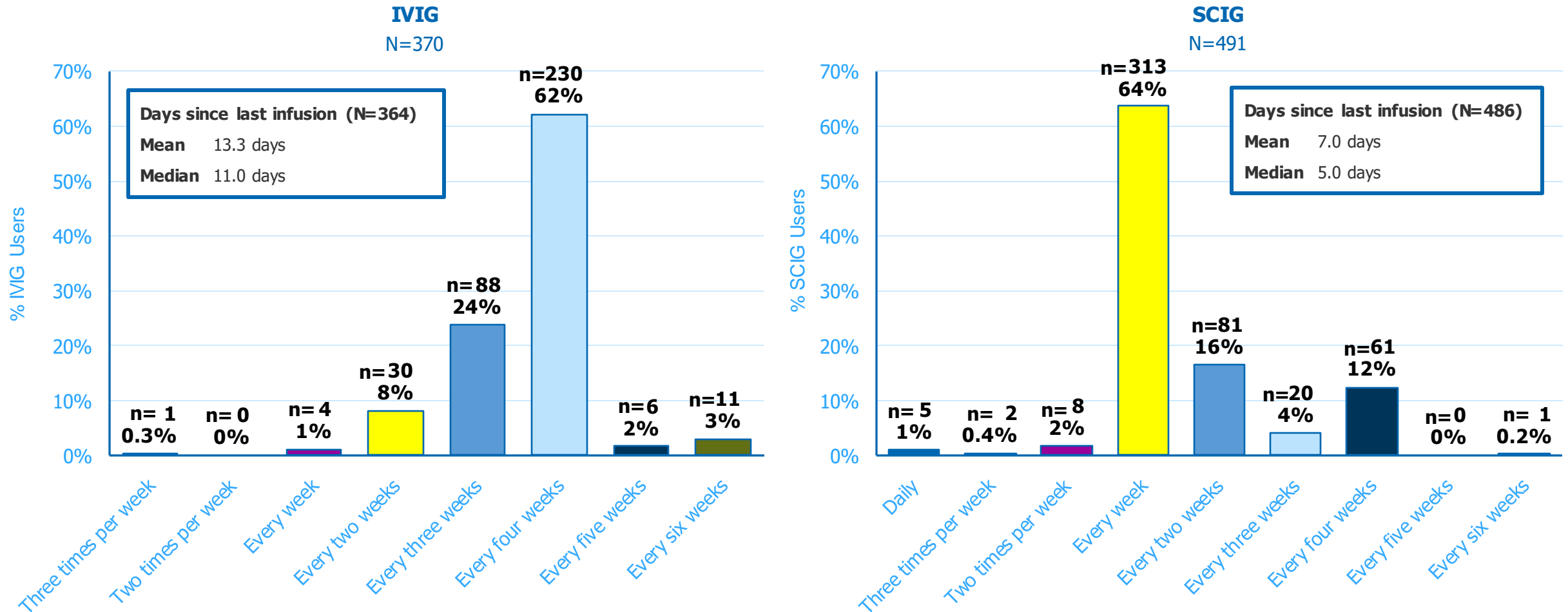
Q27a. Is the patient currently being treated with IM, IVIG or SCIG? N=992
Base: All respondents who have ever been treated for PI

No Longer Receiving Treatment



Q27b. Why is the patient not being treated with immunoglobulin? SELECT ALL THAT APPLY N=118
Base: All respondents not currently on Ig therapy

Frequency of Treatment IVIG vs SCIG



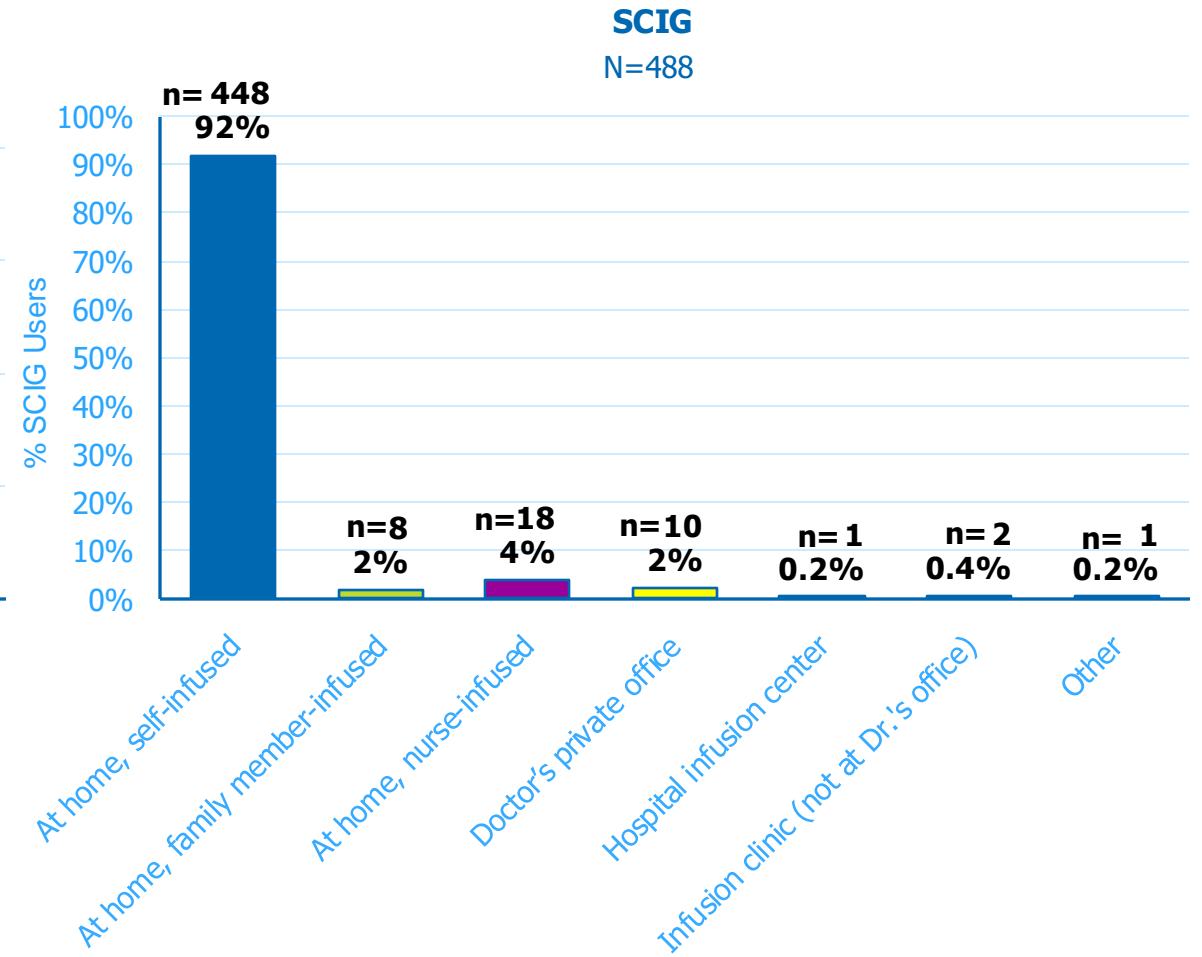
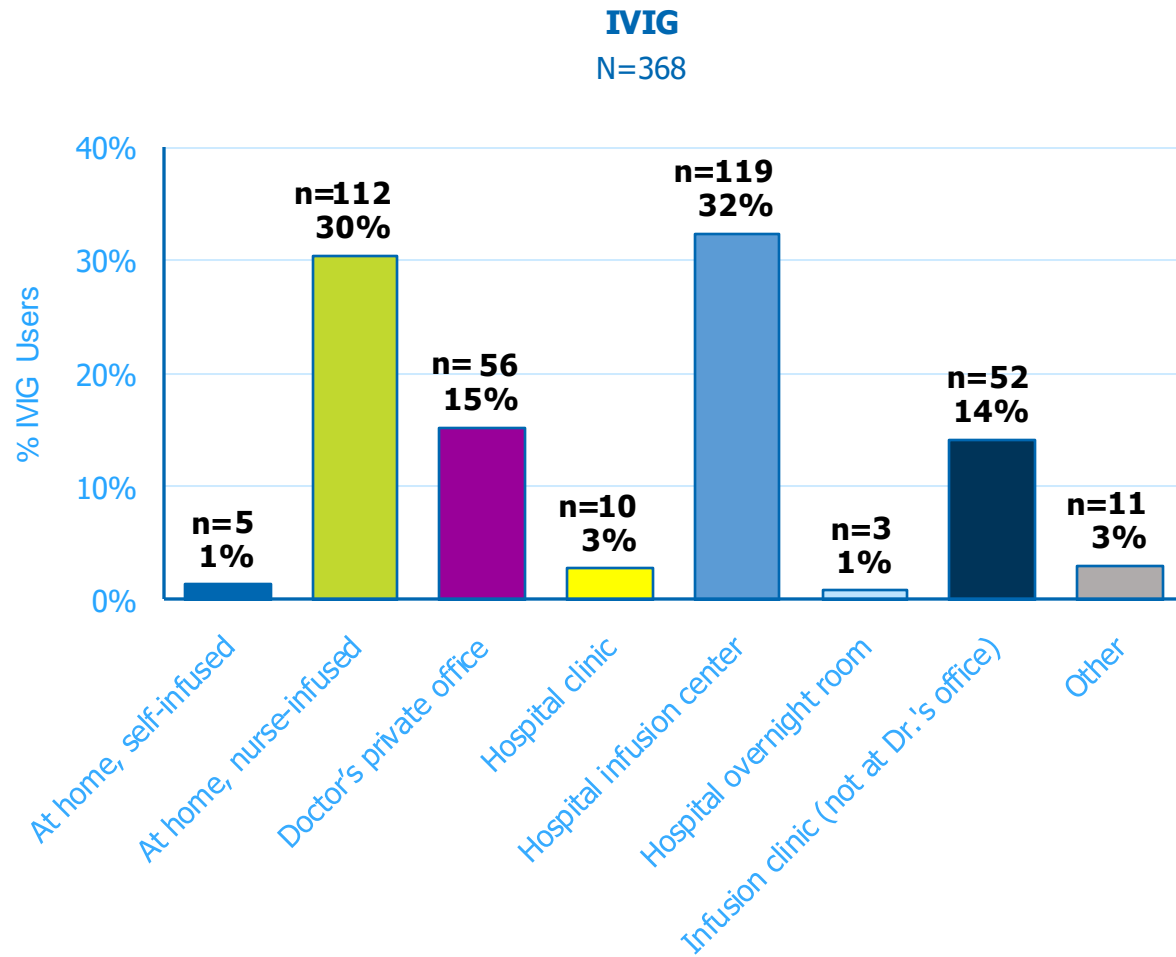
Q29a. How often does the patient receive their immunoglobulin?
Q29b. How many days ago did the patient last receive their immunoglobulin?
Base: All individuals with PI who are currently receiving IVIG or SCIG therapy

Grams or mL per infusion

	IVIG Grams N=268	SCIG Grams N=375	SCIG mL N=49
Mean	36.5	17.7	36.5
Median	35.0	12.0	40.0
Min	4	3	3
Max	70	65	70

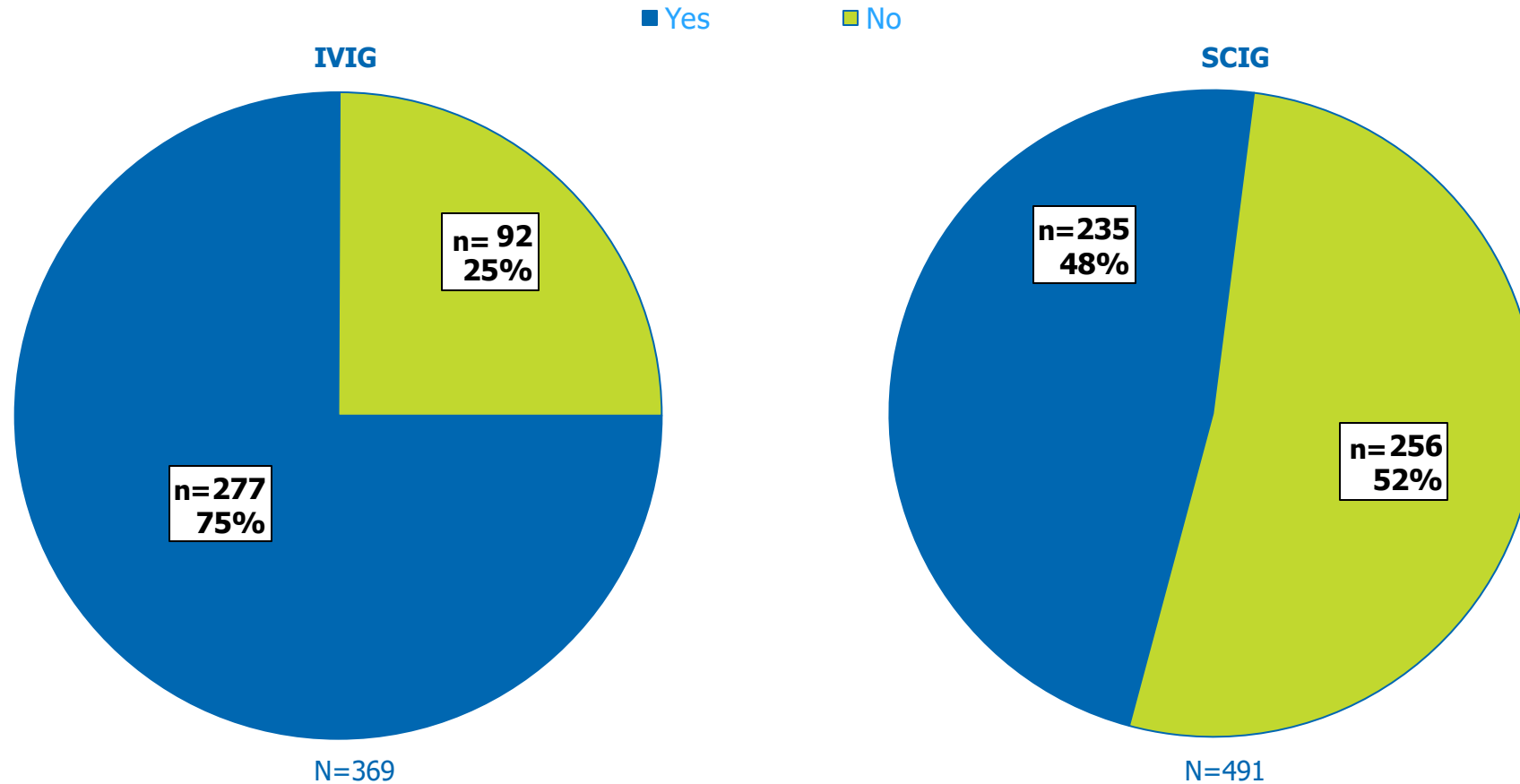
Q30. About how many grams of immunoglobulin does the patient normally receive?
Base: All individuals with PI who are currently receiving IVIG or SCIG therapy

Infusion Location IVIG vs SCIG



Q32. Currently, where does the patient usually receive his/her infusions?
Base: All individuals with PI who are currently receiving IVIG or SCIG therapy

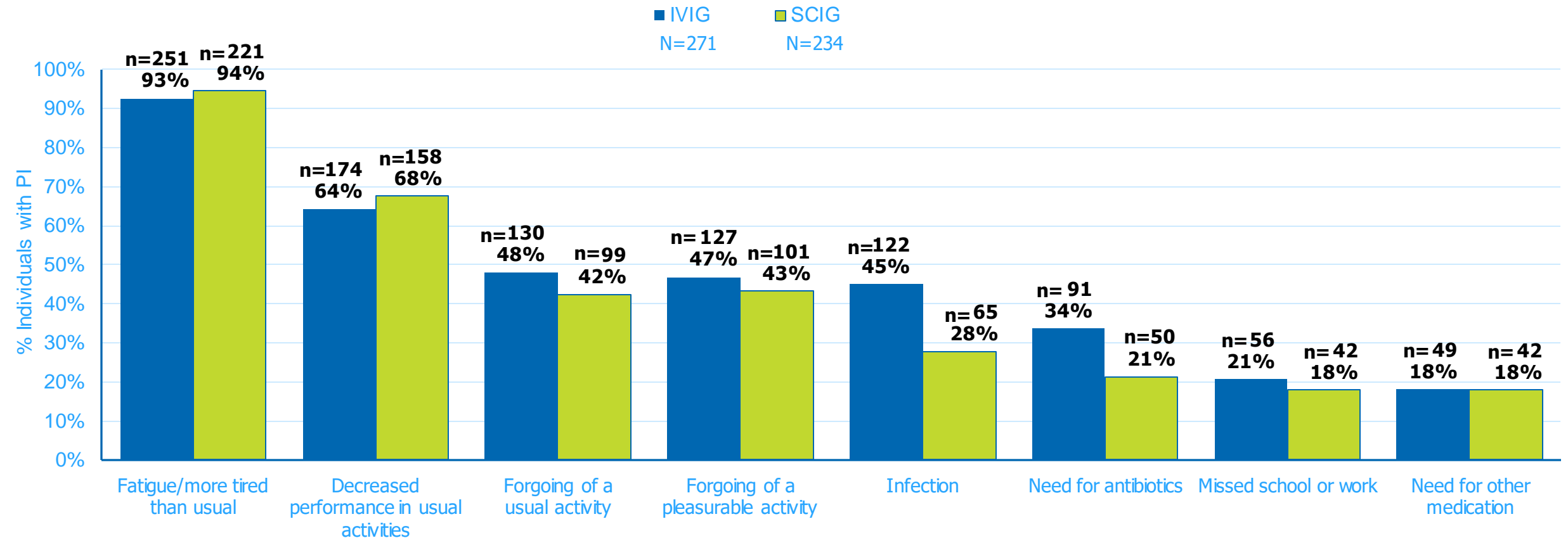
Wear Off Effect IVIG vs SCIG*



* p<.00

Q34a. Is there a noticeable "wear off" as the patient is due for a next immunoglobulin treatment?
Base: All individuals with PI who are currently receiving IVIG or SCIG therapy

Wear Off Effect Resulted In... IVIG vs SCIG



Q34b. Does the "wear off" result in any of the following? SELECT ALL THAT APPLY
Base: All individuals with PI who are currently receiving IVIG or SCIG therapy

Prophylactic Antibiotic Therapy (PAT) Medications by Ig Usage

	IVIG Users 31% (n=114, N=368) Receiving PAT	SCIG Users 23% (n=112, N=491) Receiving PAT	Not Currently Receiving Ig* 36% (n=83, N=233) Receiving PAT
Type of Antibiotic Used	n=108	n=110	n=82
Azithromycin	31%	36%	34%
Trimethoprim/sulfamethoxazole (Bactrim)	24%	27%	33%
Amoxicillin/clavulanate (Augmentin)	21%	21%	26%
Amoxicillin	16%	16%	34%
Clarithromycin (Biaxin)	14%	8%	10%
Ciprofloxacin (Cipro)	13%	16%	22%
Doxycycline	8%	8%	5%
Levofloxacin (Levaquin)	5%	5%	2%
Ceftin	5%	3%	1%
Cephalexin (Keflex)	5%	1%	2%
Cefdinir (Omnicef)	3%	2%	4%
Other Antibiotic	16%	10%	7%

* p<.00

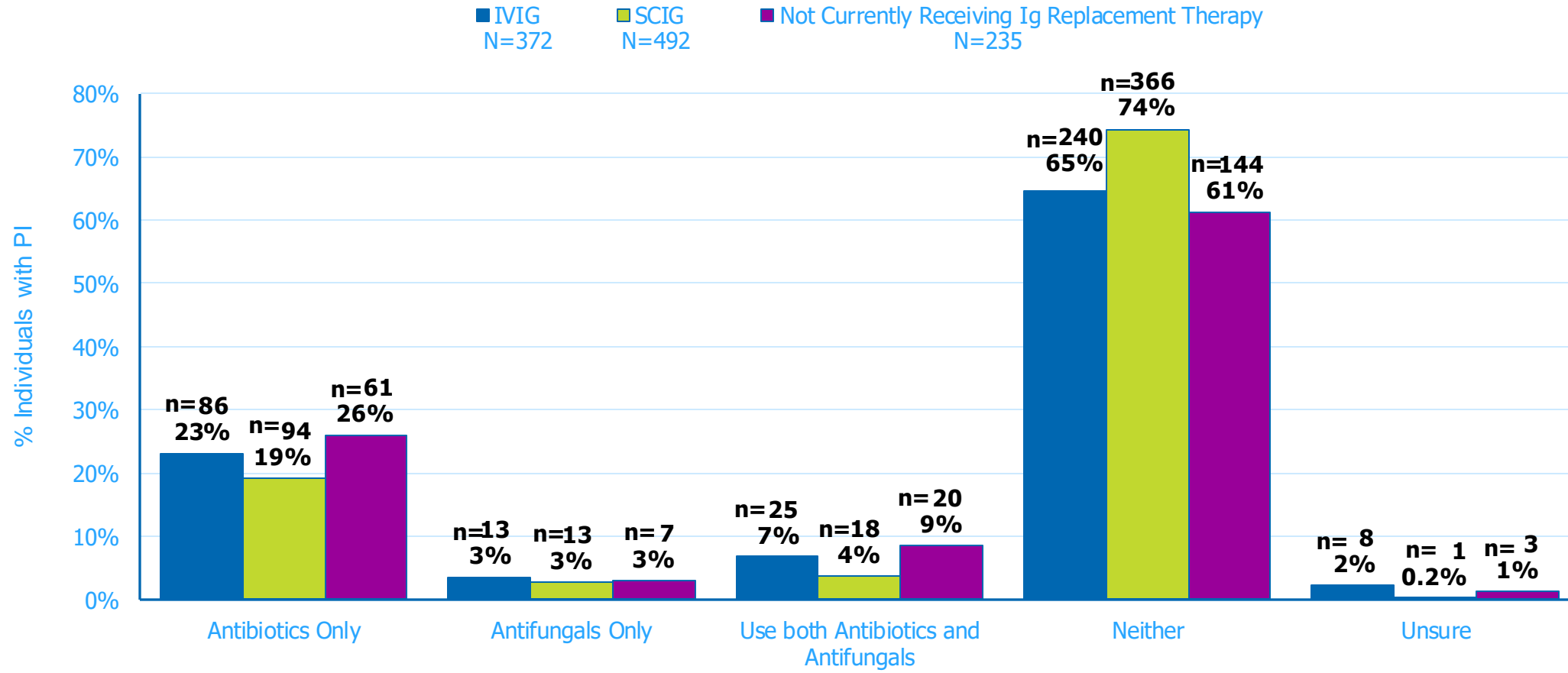
Q35a. Does the patient take antibiotics on a regular basis (every day or at least once a week) to prevent infections?
 Q35c. What is the name of the antibiotic(s) the patient takes to prevent infection? SELECT ALL THAT APPLY
 Base: All respondents who take antibiotics to prevent infection

Prophylactic Antifungal Therapy (PFT) Medications by Ig Usage

	IVIG Users 10% (n=38, N=365) Receiving PFT	SCIG Users 7% (n=31, N=491) Receiving PFT	Not Currently Receiving Ig* 12% (n=28, N=233) Receiving PFT
Type of Antifungal Used	n=37	n=30	n=27
Fluconazole	84%	87%	63%
Itraconazole	8%	0%	15%
Nystatin	5%	3%	7%
Posaconazole	3%	0%	11%
Other Antifungal	22%	23%	19%

Q36a. Does the patient take antifungal on a regular basis (every day or at least once a week) to prevent infections?
 Q36c. What is the name of the antifungal(s) the patient takes to prevent infection? SELECT ALL THAT APPLY
 Base: All respondents who take antibiotics to prevent infection

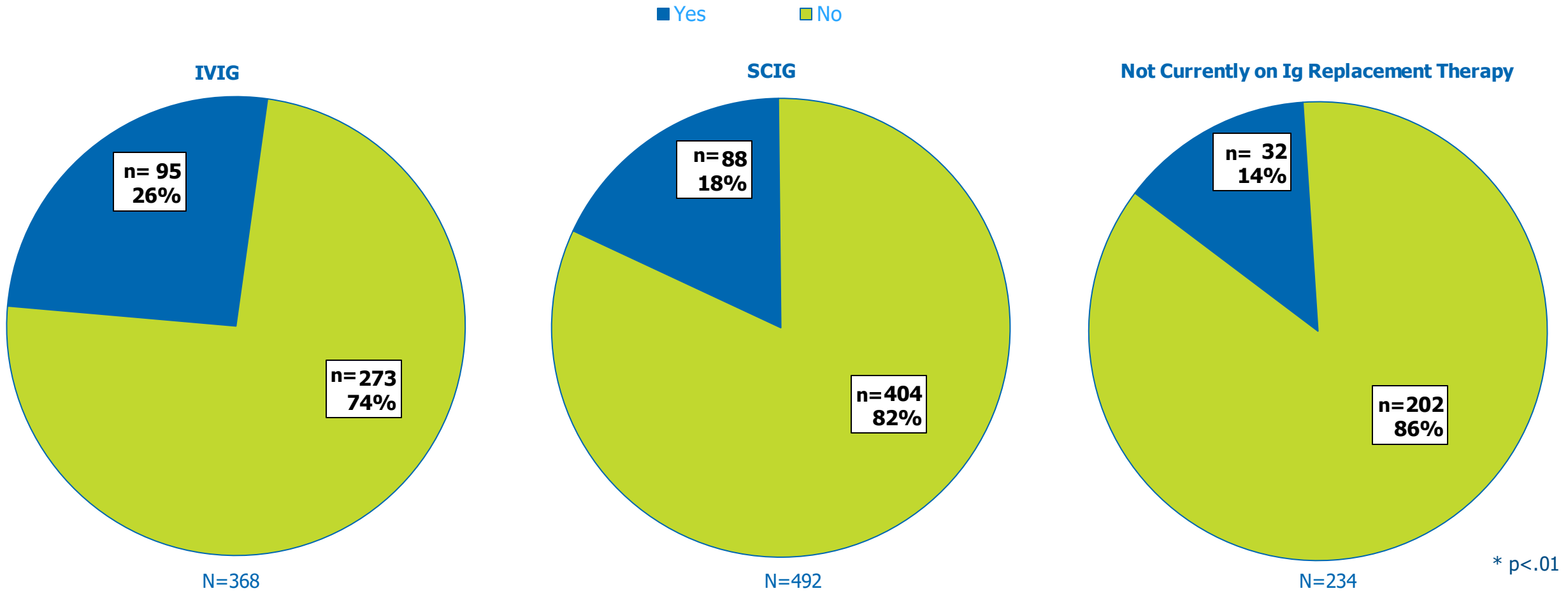
Prophylactic Antibiotic Therapy and Prophylactic Antifungal Therapy: Current Ig Replacement Therapy Use*



* p<.01

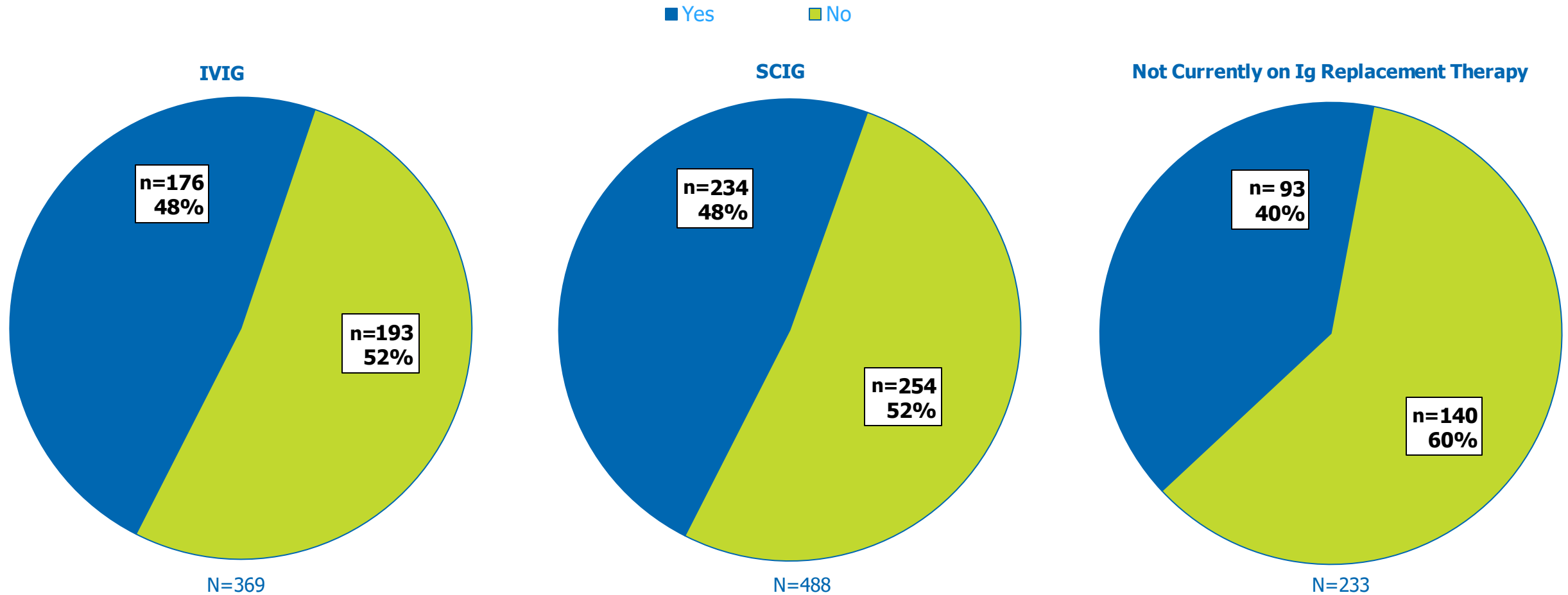
Q35a. Does the patient take antibiotics on a regular basis (every day or at least once a week) to prevent infections?
 Q36a. Does the patient take antifungals on a regular basis (every day or at least once a week) to prevent infections?
 Base: All respondents currently receiving IVIG or SCIG and those not currently receiving any Ig replacement therapy

Currently Taking Corticosteroids by Current Ig Replacement Therapy Use*



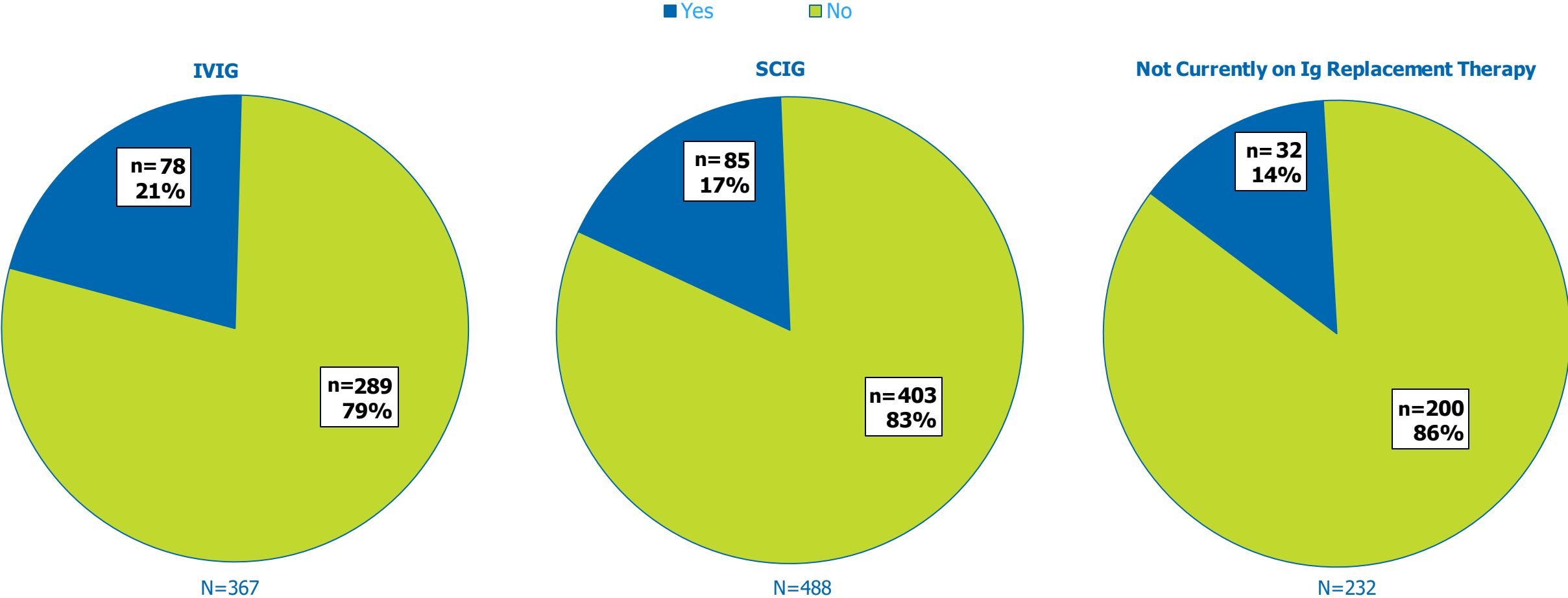
Q38. Is the patient currently taking any corticosteroids such as Prednisone, Cortisone, Medrol or Dexamethasone?
Base: All respondents currently receiving IVIG or SCIG and those not currently receiving any Ig replacement therapy

Currently Taking Nonsteroidal Anti-inflammatory Medications by Current Ig Replacement Therapy Use



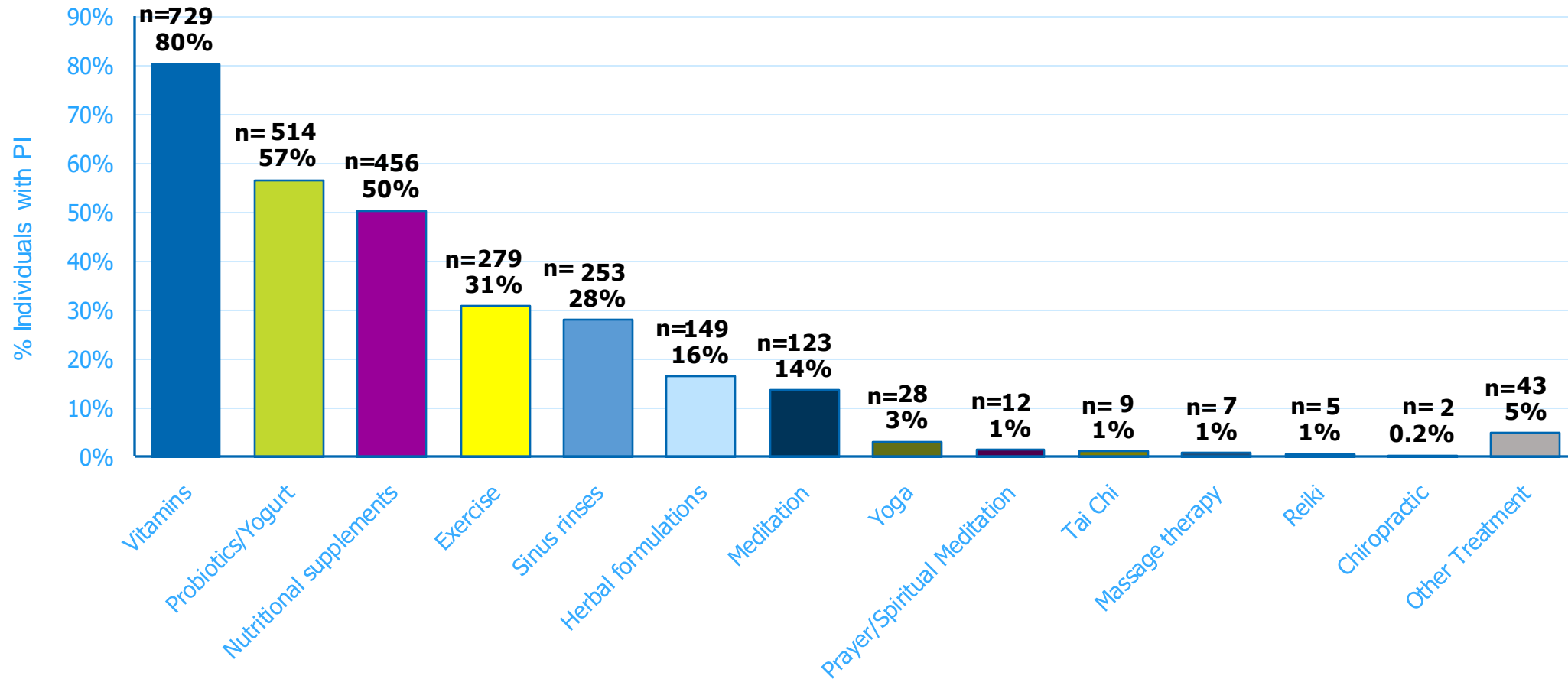
Q39. Is the patient currently taking any nonsteroidal anti-inflammatory medications such as ibuprofen, naproxen or Celebrex?
Base: All respondents currently receiving IVIG or SCIG and those not currently receiving any Ig replacement therapy

Currently Taking Prescribed Medications for Pain by Current Ig Replacement Therapy Use



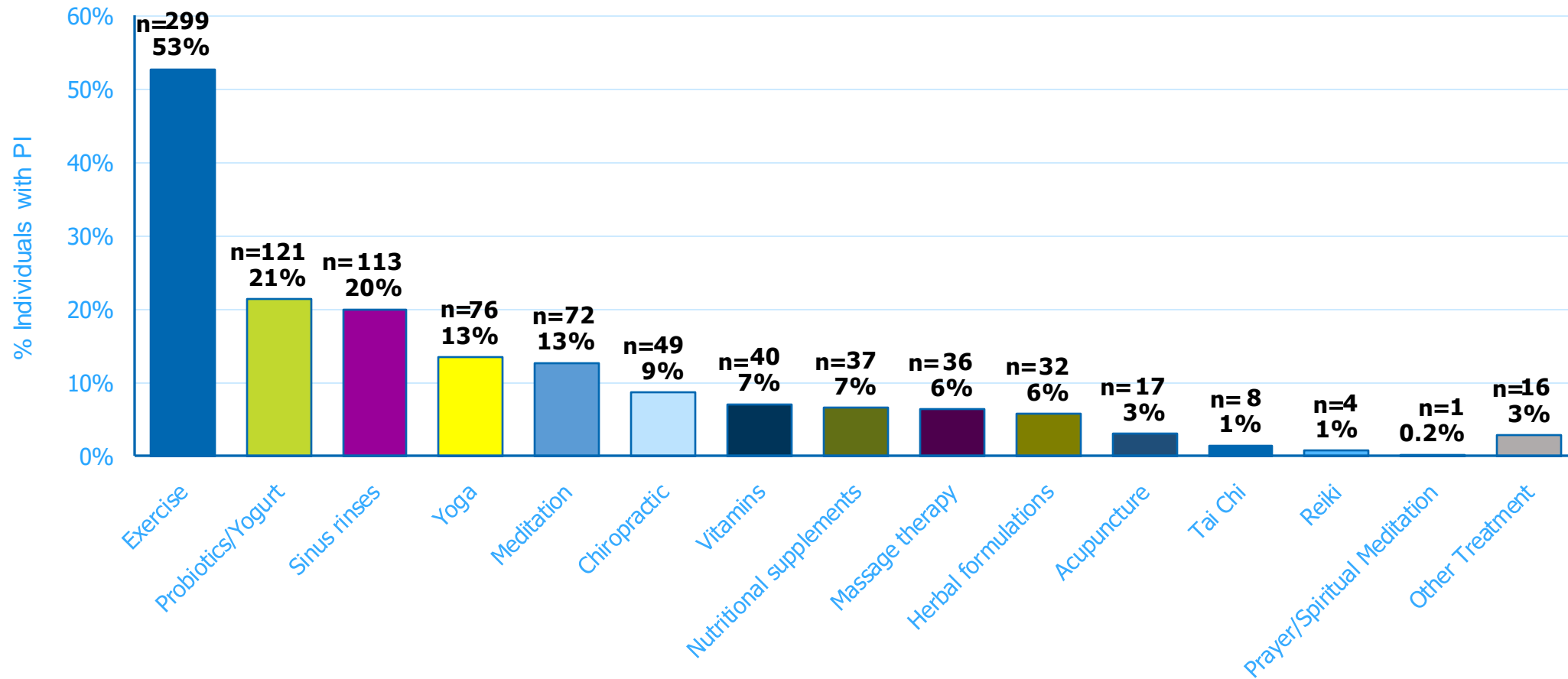
Q40. Is the patient currently taking any prescribed medications for pain such as oxycodone, codeine or hydrocodone?
Base: All respondents currently receiving IVIG or SCIG and those not currently receiving any Ig replacement therapy

Additional Treatments Daily



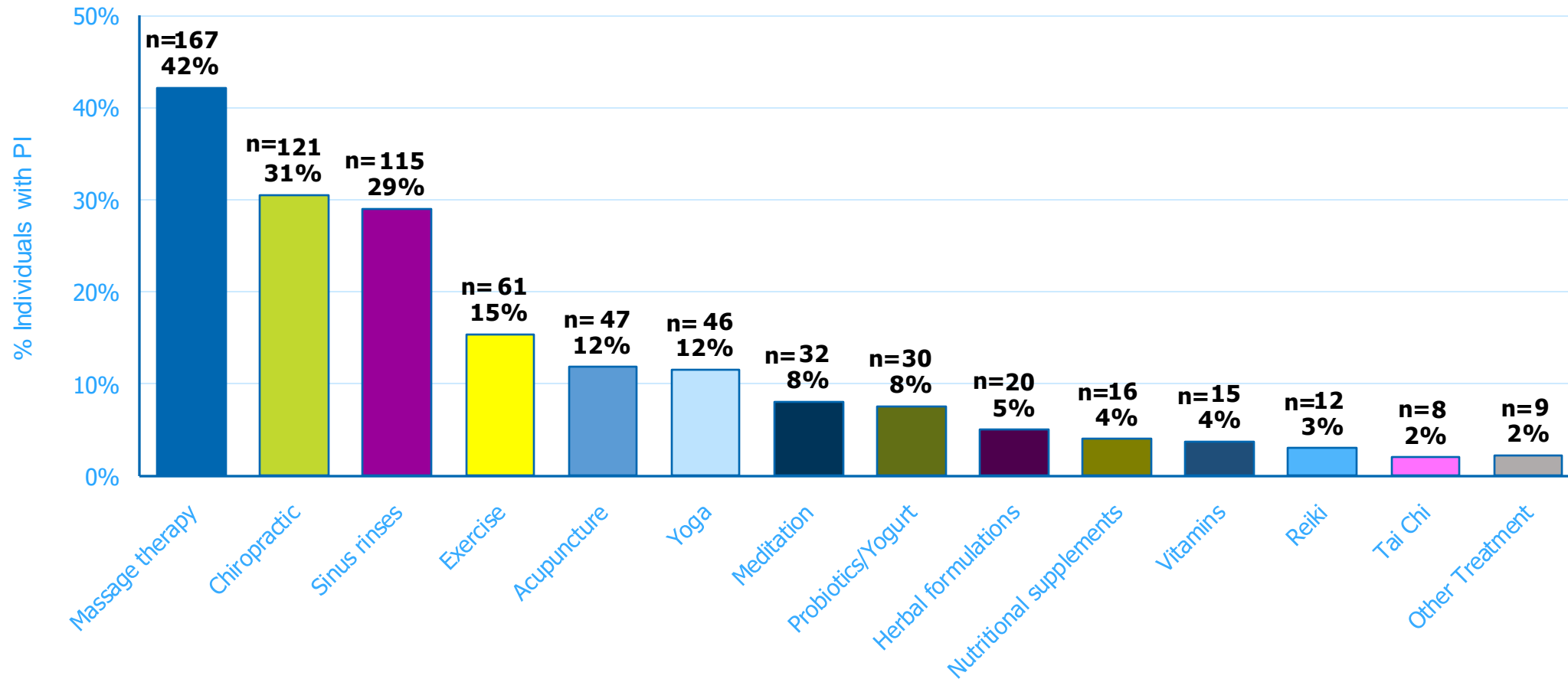
Q41. Please tell us which of these other treatments, if any, the patient uses in the management of their PI. N=908
Base: All respondents

Additional Treatments Weekly



Q41. Please tell us which of these other treatments, if any, the patient uses in the management of their PI. N=567
Base: All respondents

Additional Treatments Monthly



Q41. Please tell us which of these other treatments, if any, the patient uses in the management of their PI. N=396
Base: All respondents