



Needs Assessment for Access to Healthcare in the Deaf Community

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May 10, 2019





Purpose: Explore & Augment

- 26.2 million U.S. Deaf and HOH as of 2017
- Healthcare provider: describe existing barriers
- Would Deaf use and benefit from Telehealth and Video Remote Interpreting
- Descriptive sample compared with current literature to determine congruence and possibly uncover new areas not previously explored



Methodology: Sample & Tool

Inclusion Criteria:

- Age > 18
- Ability to read and understand written English
- Contact with respective state Deaf leadership
- Self-identify as Deaf

Self Created Tool:

- Rate of participation in USPSTF recommendations
- Rate of immunization use
- Relationship between onset of Deafness and use of technology in healthcare
- Preference of PCP
- Geographical correlations between urban and rural residing Deaf patients



Methodology: Conducting Study

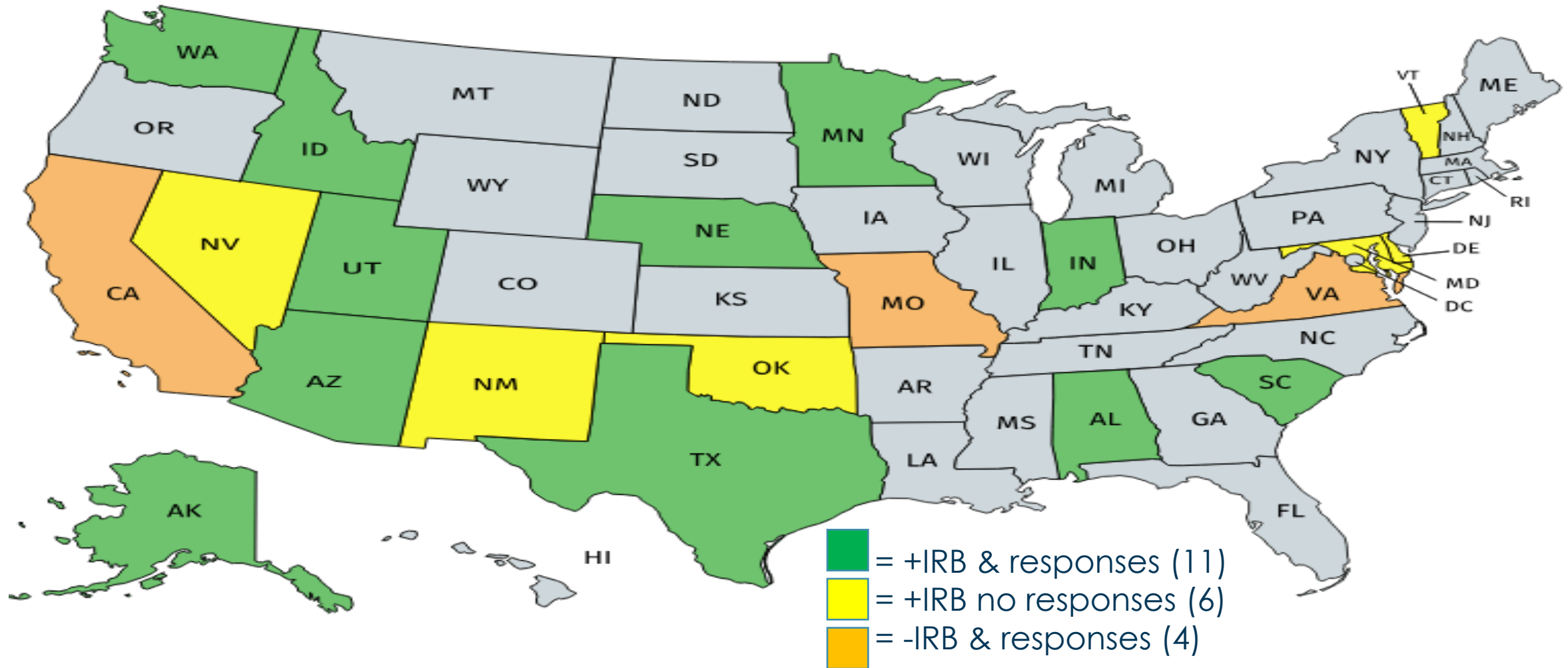
- Step 1: Query Email March, 2018
- Step 2: IRB

PROCESS	DATE
ODU IRB Application submitted	7/9/2018
Revision requested	7/16/2018
Revision submitted	7/20/2018
Revision requested/final revisions submitted	7/22/2018
Approved Exempt study	8/3/2018

- Step 3: Survey Link sent out 08/06/18, 09/05/18, 11/06/18
- Step 4: Surveys saved in Qualtrics ©

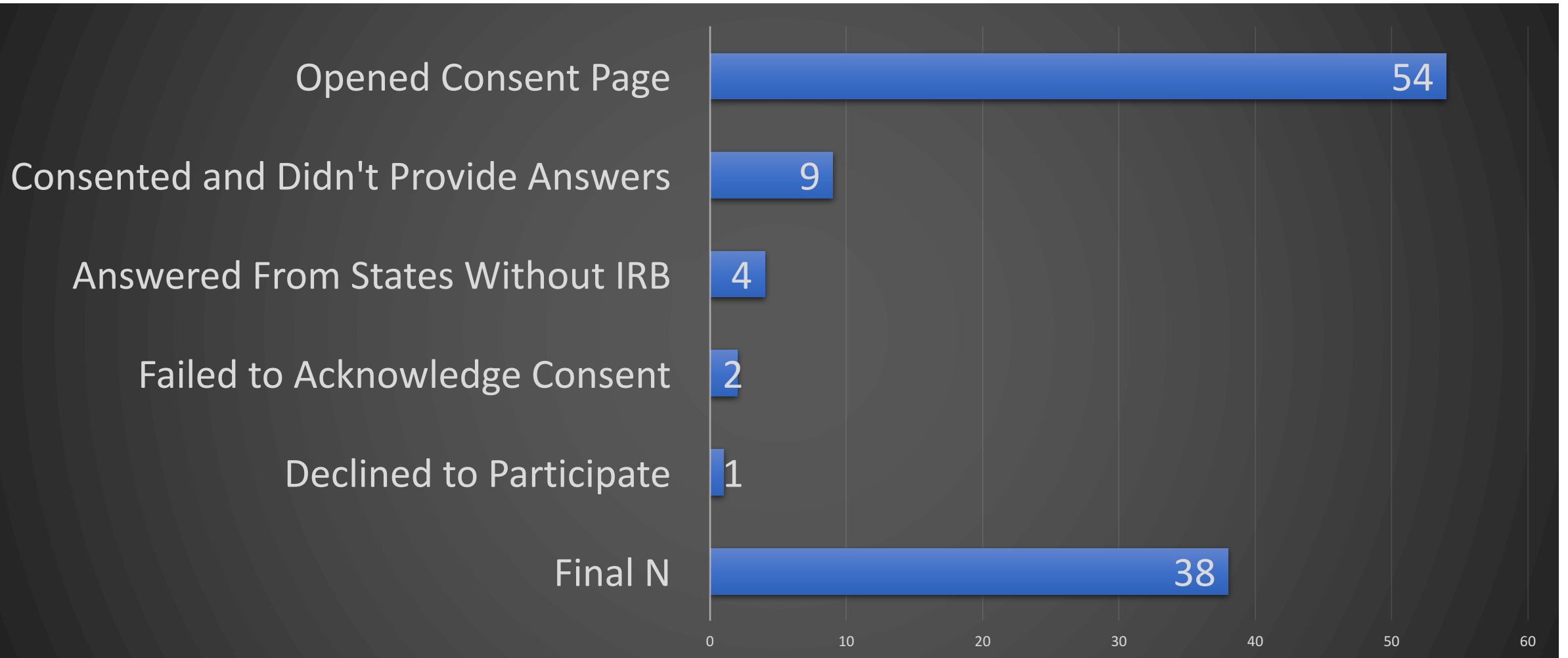


Methodology: Site





Status of Survey



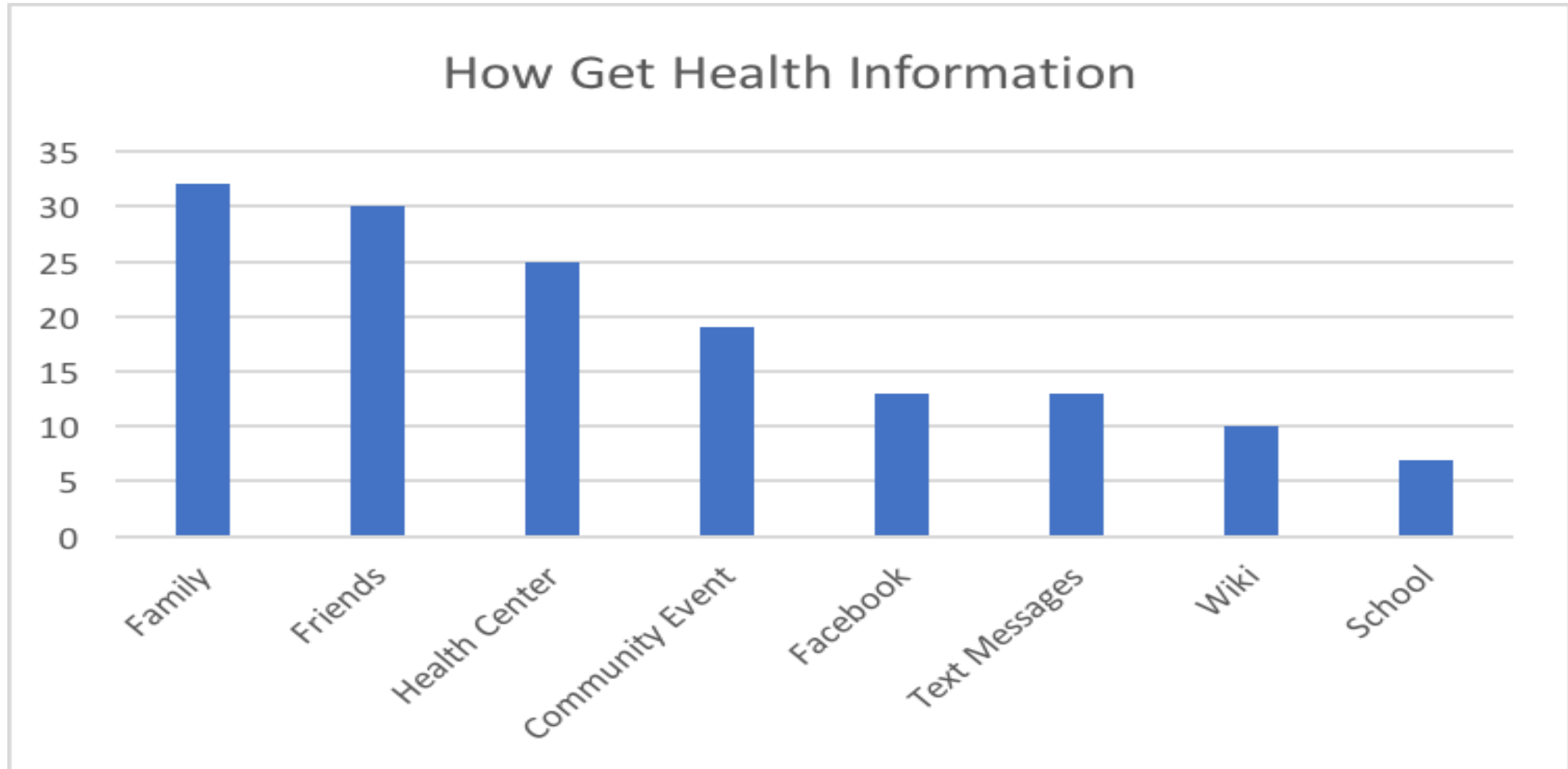


Demographics

- 100% White
- 76% Female
- Mean Age: 53.42
- 71% Urban
- Mean Miles to Travel for Healthcare: 9.76
- 71% Deaf Pre-lingual
- 74% Private Insurance



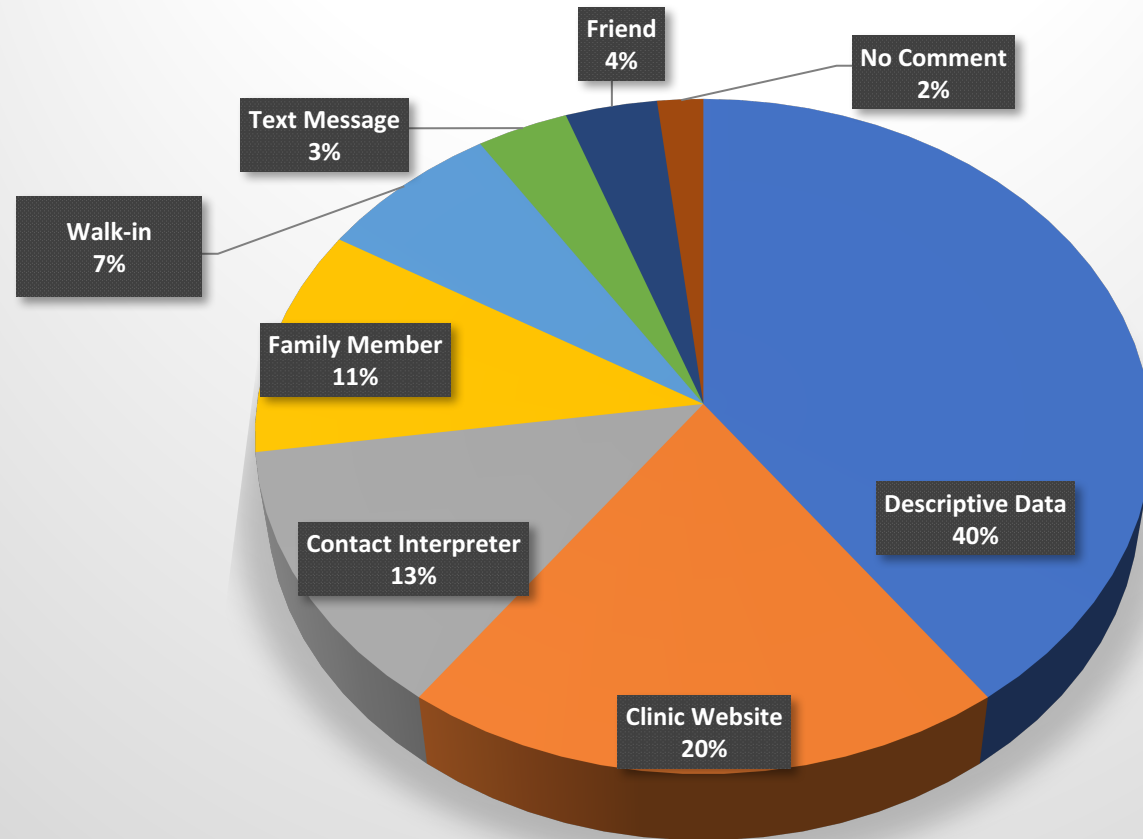
RQ1: Which resources would the Deaf patient find helpful in accessing healthcare?





RQ 2: Which technology do Deaf patients currently utilize when accessing healthcare?

How Schedule Appointments





RQ 3: What are identified barriers that challenge Deaf patients in receiving recommended preventative health screening and recommended immunizations?

Current PCP:

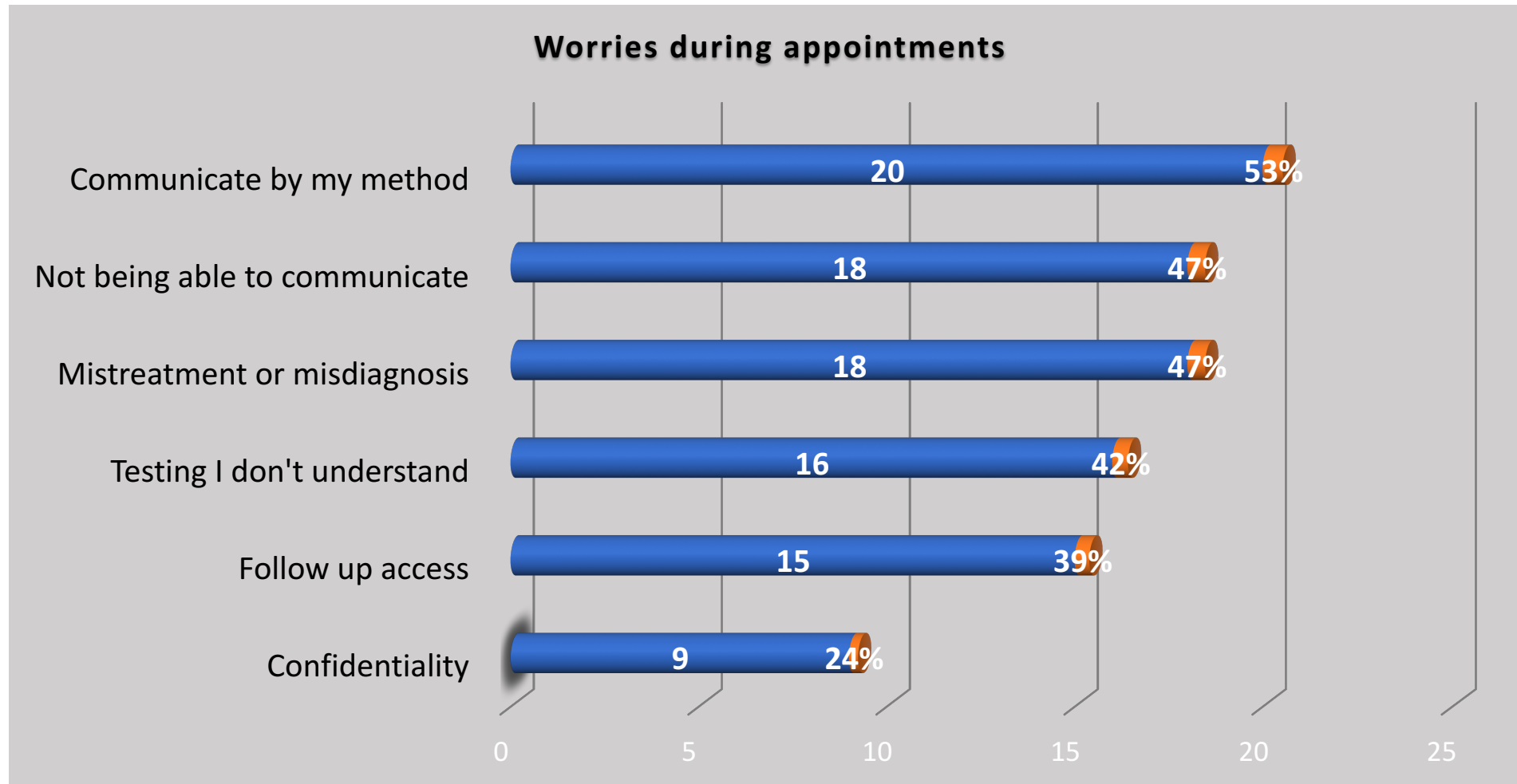
- MD (87%)
- NP (42%)
- PA (26%)
- DO (18%)

Prevents seeing PCP:

- Nothing (66%)
- Cannot communicate (18%)
- Cost (16%)
- Travel (11%)
- Need someone with me (5%)
- No insurance (5%)



RQ 3: What are identified barriers that challenge Deaf patients in receiving recommended preventative health screening and recommended immunizations?



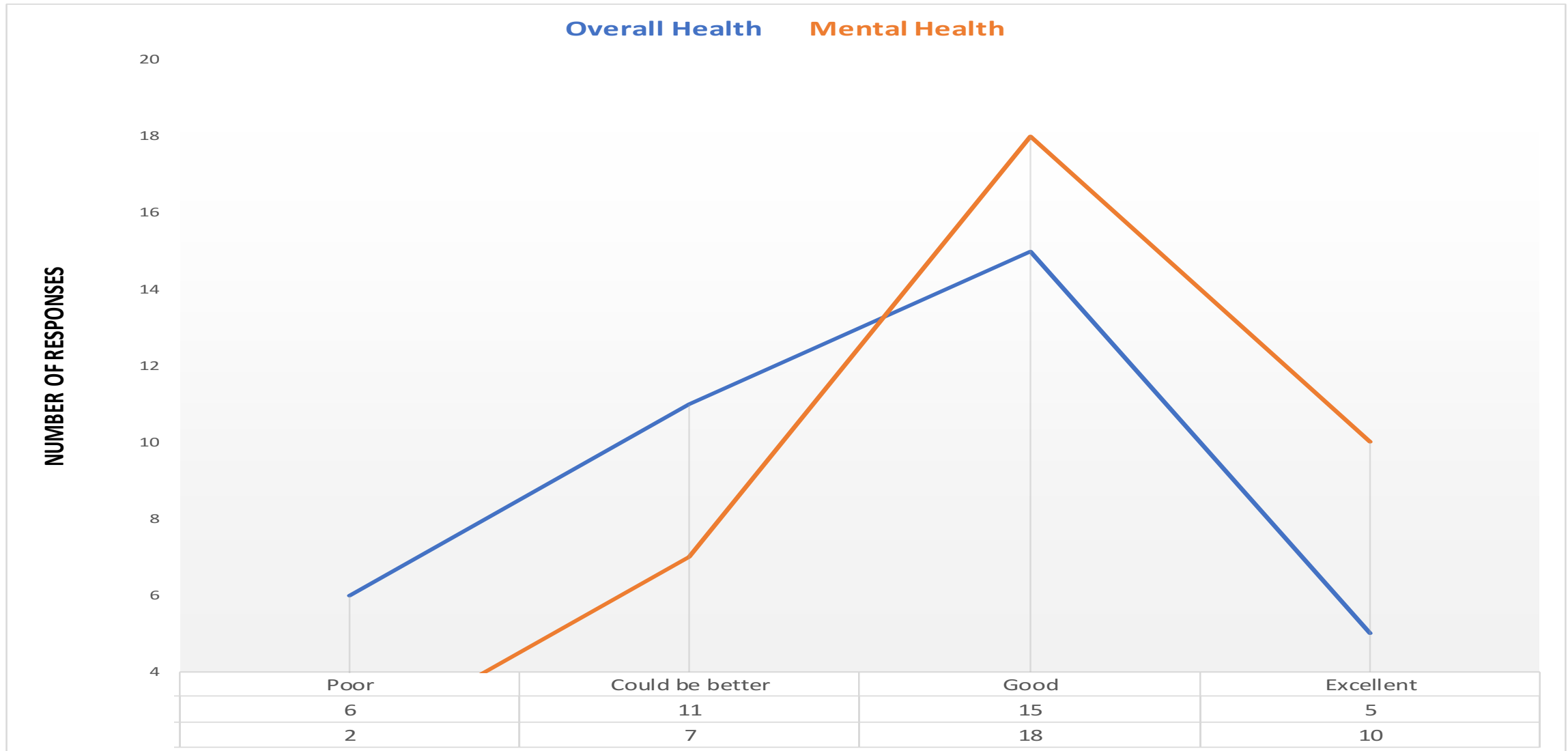


RQ 3: What are identified barriers that challenge Deaf patients in receiving recommended preventative health screening and recommended immunizations?

Have you experienced confusion during a visit from these?	Definitely Yes	Probably Yes	Probably Not	Definitely Not
Body Language	29%	29%	18%	16%
Eye Contact	32%	24%	18%	21%
Questions Asked	34%	29%	16%	16%
Provider's Facial Expressions	37%	29%	13%	16%
Use of Technology During the Visit	32%	34%	16%	13%

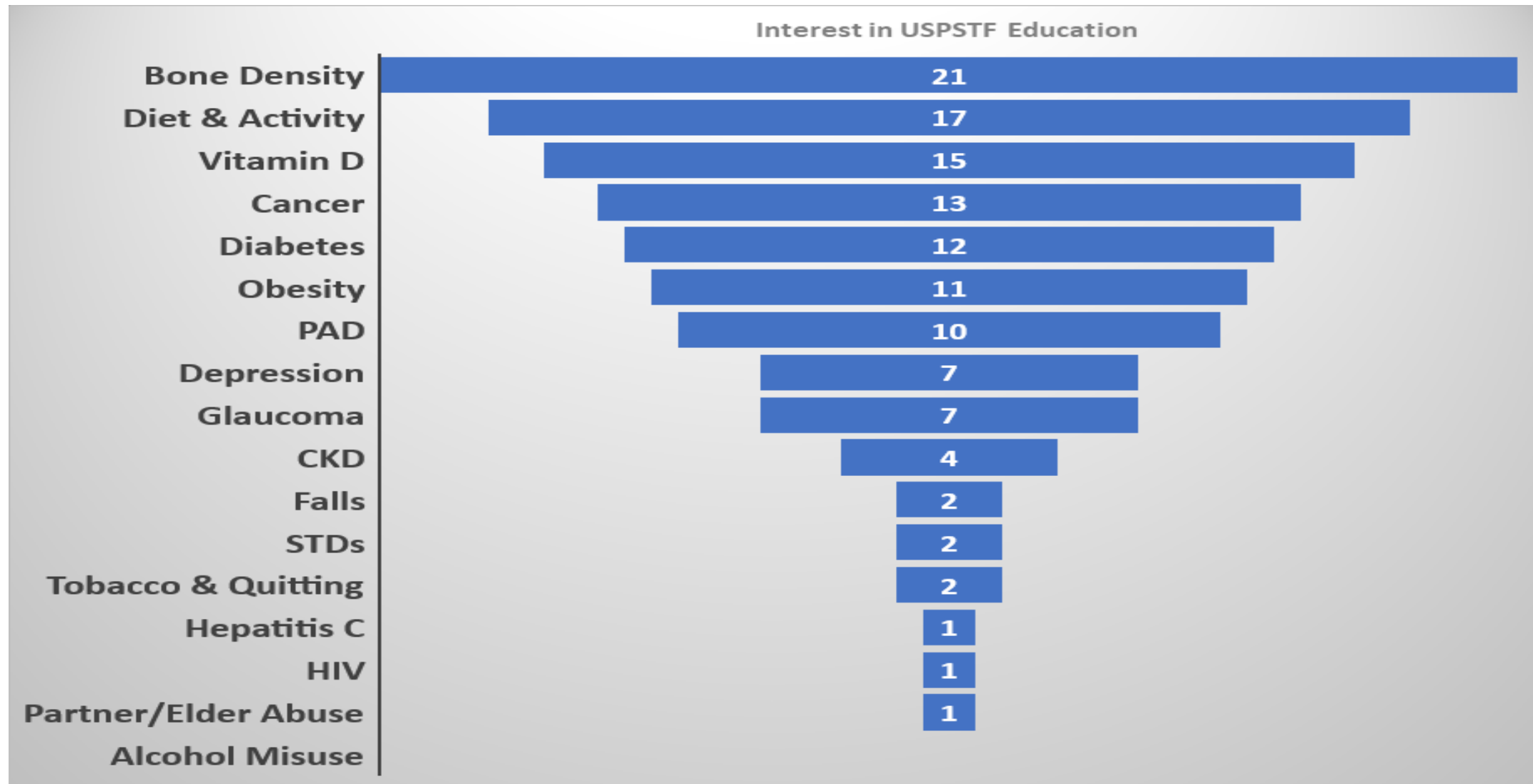


RQ 4: How do Deaf individuals rate their level of health?





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RQ 5: Is there a relationship between the Deaf patient's geographical location and their preference of a primary care provider?

Pearson Chi-Square

	Value	df	Significance (2-tailed)
Geography = Urban/Rural & PCP = MD/DO	1.301	3	.729
Geography = Urban/Rural & PCP = NP/PA	1.523	3	.677



RQ 6: Is there a relationship between the age of onset of hearing loss and the participant's desire to use technology for accessing healthcare services?

Pearson Chi-Square

	Value	df	Significance (2-tailed)
Pre- and Post-lingual & VRI used previously	6.985	2	.030
Pre- and Post-lingual & VRI use again	4.822	2	.090
Pre- and Post-lingual & Telehealth used previously	4.621	2	.099
Pre- and Post-lingual & Telehealth use again	0.776	2	.678



Limitations

- Small sample size; national listserv
- 11 states represented
- Deaf younger than 30 not represented
- Education level: Bachelor's Degree (Mode)
- ASL video interpretation of survey
- 50% less post-lingual Deaf used VRI



DNP Implications

- **Research**—DNP Essential VI
 - Deaf have a willingness to participate in what is working or not
 - Deaf are active players in changes to their healthcare if allows better access
- **Practice**—DNP Essential I, III, VIII
 - Deaf trust NPs: allow for greater access with Full Practice Authority
 - Provider training to interact with vulnerable populations: increase confidence in PCP
- **Leadership**—DNP Essential VII
 - Deaf not identified as vulnerable population in *Healthy People 2020*
 - Willing to have more information from USPSTF guidelines
 - Not overlook this population when create environments to promote public health
- **Policy**—DNP Essential V
 - Section 1557 of ACA upheld in District Court
 - Accommodate with qualified interpreters during visits: decreased self-perceived poor health status
- **Business**—DNP Essential II
 - Strategic management for IT, especially Video Phone and Video Relay Services for Deaf
- **Technology**—DNP Essential IV
 - Large percentage have never used TH or VRI: exposure opportunity



Questions/Feedback

