**Online Appendix 6: Prior clinical experience by primary care residents with genetic testing and professionals (at three institutions)**

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| **Clinical Experience with patients with genetic disorders (n, %)***(1-2 respondents missing)* |  | **All****N=279** | **Family Medicine****N=67** | **Internal Medicine****N=113** | **Peds****N=99** |
| How often have you taken care of a patient whose main problem was a genetic disorder? | Never | 31 (11%) | 16 (24%) | 15 (13%) | 0 (0%) |
| A few times | 187 (67%) | 44 (66%) | 89 (79%) | 54 (55%) |
| Sometimes | 48 (17%) | 6(9%) | 9 (8%) | 33 (33%) |
| Often | 13 (5%) | 1 (1%) | 0 (0%) | 12 (12%) |
| How often have you ordered a DNA or genetic test for a patient? | Never | 126 (45%) | 43 (64%) | 77 (68%) | 6 (6%) |
| A few times | 109 (39%) | 20 (31%) | 32 (28%) | 57 (58%) |
| Sometimes | 33 (12%) | 3 (4%) | 4 (4%) | 26 (26%) |
| Often | 10 (4%) | 0 (%) | 0 (0%) | 10 (10%) |
| How often have you referred a patient to a genetic professional? | Never | 120 (43%) | 27 (40%) | 85 (75%) | 8 (8%) |
| A few times | 108 (39%) | 36 (54%) | 25 (22%) | 47 (47%) |
| Sometimes | 36 (13%) | 2 (3%) | 2 (2%) | 32 (32%) |
| Often | 13 (5%) | 1 (2%) | 0 (0%) | 12 (12%) |
| How often have you directly interacted with a genetic professional (by phone, in person)? | Never | 127 (46%) | 41 (61%) | 83 (73%) | 3 (3%) |
| A few times | 93 (33%) | 25 (37%) | 28 (25%) | 40 (40%) |
| Sometimes | 47 (17%) | 1 (1%) | 1 (1%) | 45 (45%) |
| Often | 12 (4%) | 0 (0%) | 1 (1%) | 11 (11%) |