Tandem Patient Reported Outcomes (PROs)

Kristen Campbell

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##Summary Stats **Table 1: Patient Demographics**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Characteristic | All (n=1061) | 0 (n=520) | 1 (n=541) | P Value |
| Which.of.the.options.below.do.you.identify.with….Selected.Choice |  |  |  | 7e-04 |
| A Parent/Guardian/Caregiver of someone with Diabetes | 233 (22%) | 138 (27%) | 95 (18%) |  |
| Other (Please Specify) | 17 (2%) | 9 (2%) | 8 (1%) |  |
| Person with Diabetes | 799 (76%) | 361 (71%) | 438 (81%) |  |
| Age.at.time.of.6.months.survey…Data.from.our.customer.databse..CRM. | 36.22Â±17.43 | 34.92Â±17.89 | 37.46Â±16.91 | 0.0178 |
| Age, categorical |  |  |  | 0.1053 |
| <18 | 218 (21%) | 118 (23%) | 100 (18%) |  |
| >=18 | 843 (79%) | 402 (77%) | 441 (82%) |  |
| Duration of diabetes at baseline (years) | 18.25Â±14.27 | 17.16Â±14.14 | 19.28Â±14.34 | 0.0223 |
| What.was.your.HbA1c.value.from.your.last.HbA1c.test. | 7.26Â±1.31 | 7.41Â±1.52 | 7.15Â±1.11 | 0.0029 |
| Any previous CGM use? |  |  |  | 0.0834 |
| No | 66 (6%) | 39 (8%) | 27 (5%) |  |
| Yes | 975 (94%) | 461 (92%) | 514 (95%) |  |
| Previous insulin method |  |  |  | 0.0506 |
| Injections | 184 (18%) | 102 (21%) | 82 (15%) |  |
| Non-Tandem Pump | 266 (26%) | 112 (23%) | 154 (28%) |  |
| Other | 13 (1%) | 6 (1%) | 7 (1%) |  |
| Tandem Pump | 574 (55%) | 276 (56%) | 298 (55%) |  |

##Survey Data - summary **Table 2a: Survey Summary**

|  |  |
| --- | --- |
| Characteristic | All (n=541) |
| **First mid-point survey** |  |
| 2 mo | 384 (71%) |
| 4 mo | 157 (29%) |
| **Number of questions completed at baseline** |  |
| 0 | 0 (0%) |
| 1 | 0 (0%) |
| 2 | 0 (0%) |
| 7 | 0 (0%) |
| 12 | 541 (100%) |
| **Number of questions completed at midpoint** |  |
| 12 | 541 (100%) |
| **Number of questions completed at 6 mo** |  |
| 0 | 0 (0%) |
| 12 | 541 (100%) |

**Table 3: Baseline Survey**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Characteristic | All (n=541) | Injections (n=82) | Non-Tandem Pump (n=159) | Tandem Pump (n=300) | P Value |
| **very.satisfied.veryunsatisfied…Satisfaction** | 8 (7, 10) | 5 (4, 7) | 8 (5, 9) | 9 (8, 10) | <0.0001 |
| **alot.none…Trust** | 9 (8, 10) | 7 (6, 9) | 9 (7, 10) | 10 (9, 10) | <0.0001 |
| **agree.disagree…Is.easy.to.use.** | 9 (8, 10) | 8 (7, 10) | 9 (7, 10) | 10 (9, 10) | <0.0001 |
| **agree.disagree…Helps.me.have.good.blood.glucose.control.** | 8 (7, 10) | 7 (5, 8) | 8 (6, 9) | 9 (8, 10) | <0.0001 |
| **agree.disagree…Is.a.hassle.to.use.** | 9 (6, 10) | 5 (3, 6.75) | 8 (6, 10) | 9 (8, 10) | <0.0001 |
| **agree.disagree…Helps.me.feel.more.in.control.of.my.diabetes.** | 9 (7, 10) | 6 (4, 7.75) | 8 (6.5, 9) | 10 (8, 10) | <0.0001 |
| **agree.disagree…Is.too.complicated.** | 9 (8, 10) | 8 (6, 9) | 9 (8, 10) | 10 (9, 10) | <0.0001 |
| **frequency…Have.a.bad.night.s.sleep.because.of.diabetes.** | 5 (3, 7) | 6 (4, 7) | 5 (3, 7) | 5 (3, 6) | 0.0058 |
| **frequency…Wake.up.at.night.to.treat.low.blood.glucose.** | 5 (3, 7) | 5.5 (3, 7) | 5 (3, 6.5) | 4 (3, 6) | 0.0302 |
| **frequency…Miss.work..school..household.chores..or.other.responsibilities.due.to.diabetes.** | 2 (1, 3) | 2 (1, 5) | 2 (1, 3) | 2 (1, 3) | 0.0071 |
| **frequency…Worry.about.going.low.** | 6 (4, 8) | 7 (6, 9.75) | 6 (4, 8.5) | 5.5 (3, 8) | <0.0001 |
| **frequency…Treat.low.blood.glucose.by.eating.snacks.** | 8 (6, 10) | 8.5 (7, 10) | 8 (6, 10) | 8 (6, 10) | 0.0282 |
| **Baseline: Factor 1 Benefit** | 8.57 (7.14, 9.57) | 6.43 (5.46, 7.14) | 8 (6.64, 9.14) | 9.29 (8.29, 9.71) | <0.0001 |
| **Baseline: Factor 2 Burden** | 5 (4, 6.2) | 5.8 (5, 7) | 5.2 (4.1, 6.4) | 4.8 (3.8, 6) | <0.0001 |

**Table 3: Mid point Survey**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Characteristic | All (n=541) | Injections (n=82) | Non-Tandem Pump (n=159) | Tandem Pump (n=300) | P Value |
| \*\*\*\* | 9 (8, 10) | 10 (8, 10) | 9 (8, 10) | 9 (8, 10) | 0.7234 |
| \*\*\*\* | 9 (8, 10) | 9 (8, 10) | 9 (8, 10) | 9.5 (8, 10) | 0.0587 |
| \*\*\*\* | 10 (9, 10) | 10 (8, 10) | 10 (9, 10) | 10 (9, 10) | 0.0961 |
| \*\*\*\* | 9 (8, 10) | 9 (8, 10) | 9 (7, 10) | 9 (8, 10) | 0.0245 |
| \*\*\*\* | 10 (9, 10) | 10 (8, 10) | 10 (8, 10) | 10 (9, 10) | 0.0732 |
| \*\*\*\* | 9 (8, 10) | 9 (8, 10) | 9 (7, 10) | 9 (8, 10) | 0.0427 |
| \*\*\*\*\* | 10 (9, 10) | 10 (9, 10) | 10 (9, 10) | 10 (9, 10) | 0.1493 |
| \*\*\*\* | 3 (2, 5) | 3 (2, 5) | 3 (2, 5) | 3 (2, 4.25) | 0.6834 |
| \*\*\*\* | 3 (2, 4) | 3 (2, 4) | 3 (2, 5) | 3 (2, 4) | 0.057 |
| \*\*\*\* | 1 (1, 2) | 2 (1, 3) | 1 (1, 2) | 1 (1, 2) | 0.0061 |
| \*\*\*\* | 3 (2, 5) | 3 (2, 5) | 3 (2, 5) | 3 (2, 4) | 0.0695 |
| \*\*\*\* | 5 (3, 7) | 5 (4, 8) | 6 (3, 8) | 5 (3, 7) | 0.0569 |
| **Mid: Factor 1 Benefit** | 9.14 (8.57, 9.71) | 9.29 (8.32, 9.71) | 9 (8.36, 9.57) | 9.29 (8.57, 9.86) | 0.0437 |
| **Mid: Factor 2 Burden** | 3.2 (2.6, 4.2) | 3.6 (2.4, 4.75) | 3.4 (2.6, 4.5) | 3.2 (2.4, 4) | 0.0255 |

**Table 3: 6mo Survey**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Characteristic | All (n=541) | Injections (n=82) | Non-Tandem Pump (n=159) | Tandem Pump (n=300) | P Value |
| **very.satisfied.veryunsatisfied…Satisfaction.3** | 9 (8, 10) | 10 (8, 10) | 9 (8, 10) | 10 (8, 10) | 0.081 |
| **alot.none…Trust.3** | 10 (8, 10) | 10 (9, 10) | 9 (8, 10) | 10 (9, 10) | 0.0193 |
| **agree.disagree…Is.easy.to.use..3**\* | 10 (9, 10) | 10 (10, 10) | 10 (9.5, 10) | 10 (9, 10) | 0.9904 |
| **agree.disagree…Helps.me.have.good.blood.glucose.control..3** | 10 (8, 10) | 10 (9, 10) | 9 (8, 10) | 10 (8, 10) | 0.0884 |
| **agree.disagree…Is.a.hassle.to.use..3** | 10 (9, 10) | 10 (9, 10) | 10 (9, 10) | 10 (9, 10) | 0.4827 |
| **agree.disagree…Helps.me.feel.more.in.control.of.my.diabetes..3** | 10 (8, 10) | 10 (9, 10) | 9 (8, 10) | 10 (8, 10) | 0.0088 |
| **agree.disagree…Is.too.complicated..3**\* | 10 (9, 10) | 10 (10, 10) | 10 (9, 10) | 10 (9, 10) | 0.3434 |
| **frequency…Have.a.bad.night.s.sleep.because.of.diabetes..3** | 3 (2, 5) | 4 (2, 5) | 3 (2, 5) | 3 (2, 4) | 0.4696 |
| **frequency…Wake.up.at.night.to.treat.low.blood.glucose..3** | 3 (2, 4) | 3 (2, 4.75) | 3 (2, 5) | 3 (2, 4) | 0.2231 |
| **frequency…Miss.work..school..household.chores..or.other.responsibilities.due.to.diabetes..3** | 1 (1, 2) | 2 (1, 3.75) | 1 (1, 2) | 1 (1, 2) | 0.0015 |
| **frequency…Worry.about.going.low..3** | 3 (2, 5) | 3 (2, 4) | 4 (2, 5) | 3 (2, 5) | 0.176 |
| **frequency…Treat.low.blood.glucose.by.eating.snacks..3** | 5 (3, 7) | 5 (3, 8) | 6 (3, 8) | 5 (3, 7) | 0.1545 |
| **6 month: Factor 1 Benefit** | 9.43 (8.57, 9.86) | 9.57 (8.89, 9.86) | 9.29 (8.43, 9.71) | 9.43 (8.71, 9.86) | 0.0381 |
| **6 month: Factor 2 Burden** | 3.4 (2.6, 4.2) | 3.6 (2.65, 4.6) | 3.4 (2.6, 4.4) | 3.2 (2.4, 4.2) | 0.0565 |

##Survey Data - results

**Table 4a: Benefit - baseline to midpoint**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| method\_cat | lsmean | SE | df | lower.CL | upper.CL |
| Injections | 2.2915275 | 0.2074073 | 529 | 1.8840845 | 2.6989706 |
| Non-Tandem Pump | 1.0796454 | 0.1866572 | 529 | 0.7129650 | 1.4463258 |
| Tandem Pump | 0.1316025 | 0.1774271 | 529 | -0.2169458 | 0.4801507 |

**Table 4b: Benefit - midpoint to 6 month**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| method\_cat | lsmean | SE | df | lower.CL | upper.CL |
| Injections | 0.3787923 | 0.1272931 | 529 | 0.1287303 | 0.6288542 |
| Non-Tandem Pump | 0.1178246 | 0.1145580 | 529 | -0.1072199 | 0.3428691 |
| Tandem Pump | 0.1068472 | 0.1088932 | 529 | -0.1070690 | 0.3207633 |

**Table 5a: Burden - baseline to midpoint**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| method\_cat | lsmean | SE | df | lower.CL | upper.CL |
| Injections | -1.866726 | 0.2302870 | 529 | -2.319115 | -1.4143364 |
| Non-Tandem Pump | -1.265979 | 0.2072480 | 529 | -1.673109 | -0.8588488 |
| Tandem Pump | -1.244705 | 0.1969997 | 529 | -1.631703 | -0.8577075 |

**Table 5b: Burden - midpoint to 6 month**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| method\_cat | lsmean | SE | df | lower.CL | upper.CL |
| Injections | -0.0158659 | 0.1766478 | 528 | -0.3628847 | 0.3311528 |
| Non-Tandem Pump | -0.0855016 | 0.1593818 | 528 | -0.3986020 | 0.2275988 |
| Tandem Pump | 0.0218489 | 0.1511272 | 528 | -0.2750354 | 0.3187332 |