**Appendix:**

**Supplementary Table 1:** Summary of Final Visit While on Study Drug

|  |  |  |
| --- | --- | --- |
| **Final Visit** | **Placebo** | **Liraglutide** |
| Day 30 | 16.9% (21) | 15.4% (19) |
| Day 90 | 17.7% (22) | 18.7% (23) |
| Day 180 | 65.3% (81) | 65.9% (81) |

**Supplementary Table 2: Antihyperglycemic drug use among patients with diabetes.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Liraglutide (N=123) | Placebo (N=124) | Overall |
| Any glucose lowering drug | 59 (48.0%) | 69 (55.7%) | 128 (51.8%) |
| Biguanide | 13 (10.6%) | 12 (9.7%) | 25 (10.1%) |
| Sulfonylurea | 14 (11.4%) | 13 (10.5%) | 27 (10.9%) |
| Pramlinitide | 0 | 0 | 0 |
| Thiazolidinedione | 0 | 0 | 0 |
| Non-Sulfonylurea Secretagogues | 0 | 0 | 0 |
| Alpha-Glucosidase Inhibitor | 1 (0.8%) | 0 | 0 |
| Insulin | 38 (30.9%) | 52 (41.9%) | 90 (36.4%) |
| GLP-1 Analogue | 0 | 0 | 0 |
| DPP-IV Inhibitor | 1 (0.8%) | 2 (1.6%) | 3 (1.2%) |
| SGLT-2 Inhibitor | 0 | 0 | 0 |

**Supplementary Table 3:** Changes in Weight from baseline to last study visit for patients treated with liraglutide versus placebo among patients with a BMI < median.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Liraglutide  (n=64) | Placebo  (n=57) | Treatment Difference & 95% CI with p-value |
| Baseline Weight (lbs) | 185.8 (165.3, 201.3) | 168.2 (158.5, 199.6) |  |
| Last Visit Weight (lbs) | 183.0 (166.0, 199.1) | 175.0 (162.0, 204.2) |  |
| Weight Change | -1.00 (-7.97, 7.31) | 5.73 (-1.42, 12.50) | -5.11 (-9.65, -0.58); p=0.0274 |

Additional covariate included baseline weight. Data presented as median with interquartile range unless otherwise specified.

**Supplementary Table 4:** Changes in Weight from baseline to last study visit for patients treated with liraglutide versus placebo among patients with a BMI ≥ median.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Liraglutide  (n=55) | Placebo  (n=66) | Treatment Difference & 95% CI with p-value |
| Baseline Weight (lbs) | 245.0 (222.7, 273.2) | 250.0 (223.6, 279.6) |  |
| Last Visit Weight (lbs) | 249.4 (225.0, 271) | 251.3 (221.4, 282.0) |  |
| Weight Change | -0.40 (-11.69, 10.58) | -0.77 (-9.40, 10.00) | -3.31 (-9.51, 2.89) ;P=0.2926 |

Additional covariate included baseline weight. Data presented as median with interquartile range unless otherwise specified.

**Supplementary Table 5:** Patients able to achieve target drug dosing.

|  |  |  |
| --- | --- | --- |
| Dose | Liraglutide (n=123) | Placebo (n=124) |
| 0.6 mg | 13 (11%) | 4 (3%) |
| 1.2 mg | 18 (15%) | 17 (14%) |
| 1.8 mg | 92 (75%) | 103 (83%) |
| Last dose prior to analysis visit |  |  |
| 0.6 mg | 17 (14%) | 6 (5%) |
| 1.2 mg | 21 (17%) | 27 (22%) |
| 1.8 mg | 85 (69%) | 91 (73%) |

**Supplementary Table 6:** Impact of study drug dosing and weight loss

|  |  |  |  |
| --- | --- | --- | --- |
|  | Liraglutide | Placebo | Treatment Difference & 95% CI with p-value |
| Last Dose = 0.6mg |  |  |  |
| Baseline Weight (lbs)  N  Mean (Std. Dev.)  Median (25th, 75th) | 17  187.7 (52.4)  178.0 (159.4, 208.0) | 6  209.9 (33.5)  223.9 (168.2, 229.0) |  |
| Last Visit Weight (lbs)  N  Mean (Std. Dev.)  Median (25th, 75th) | 17  186.6 (50.9)  182.0 (161.1, 218.3) | 6  208.9 (28.0)  213.6 (184.5, 231.0) |  |
| Weight Change  N  Mean (Std. Dev.)  Median (25th, 75th) | 17  -1.02 (11.47)  -1.00 (-9.58, 5.40) | 6  -1.05 (14.80)  -0.54 (-6.06, 10.30) | -1.60 (-13.86, 10.65)  0.7879 |
| Last Dose = 1.2mg |  |  |  |
| Baseline Weight (lbs)  N  Mean (Std. Dev.)  Median (25th, 75th) | 20  220.0 (57.2)  208.1 (182.8, 248.9) | 27  209.4 (59.5)  216.5 (162.2, 250.0) |  |
| Last Visit Weight (lbs)  N  Mean (Std. Dev.)  Median (25th, 75th) | 20  221.2 (52.6)  203.0 (182.0, 250.7) | 27  212.7 (61.9)  215.4 (167.8, 249.0) |  |
| Weight Change  N  Mean (Std. Dev.)  Median (25th, 75th) | 20  1.25 (11.76)  1.15 (-7.62, 12.68) | 27  3.25 (12.11)  5.78 (-1.90, 10.00) | -1.71 (-8.87, 5.44)  0.6318 |
| Last Dose = 1.8mg |  |  |  |
| Baseline Weight (lbs)  N  Mean (Std. Dev.)  Median (25th, 75th) | 82  222.5 (55.6)  217.8 (185.2, 252.9) | 90  224.0 (63.2)  215.0 (172.0, 263.7) |  |
| Last Visit Weight (lbs)  N  Mean (Std. Dev.)  Median (25th, 75th) | 82  219.9 (57.8)  213.4 (180.0, 253.4) | 90  226.2 (65.0)  217.0 (176.6, 259.1) |  |
| Weight Change  N  Mean (Std. Dev.)  Median (25th, 75th) | 82  -2.61 (14.61)  -1.04 (-11.69, 8.16) | 90  2.27 (17.70)  1.78 (-5.51, 11.47) | -4.89 (-9.82, 0.04)  0.0518 |