**Figure 1-source data 1. Physiological characteristics of different WD groups**

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| **Characteristic** | **Control**  **n=17** | **WD1**  **n=15** | **WD2**  **n=15** | **WD3**  **n=16** | **WD4**  **n=42** | **WD5**  **n=53** |
| Body weight (g) (12 weeks) | 25.6(25-27) | 26(24.9-27.3) | 26.2(25.6-28.5) | 26.9(25.7-27.6) | **28.3(26.9-29.4) \*\*\*1** | **27.5(26.2-28.9)\*\*\* 1** |
| Body weight (g) (16 weeks) | 27.4(26.9-28.2) | **28.5(28-30)\*** | **30(27.1-32)\*** | 28.4(27.2-29.4) | **31.1(29.4-32.6)\*\*\*1** | **30.4(28.9-32.6)\*\*\*1** |
| Daily diet consumption (Kcal/day) | 10.2(10.2-10.3) | **11.3 (10.9-12.1)\*\*\*** | **11.3(10.5-12.9)\*\*\*** | **12.1(11.3-12.1)\*\*\*** | **13.3(12.5-13.3)\*\*\*** | **10.9(10.5-12.15)\*\*\*** |
| Kidney (g) | 0.37(0.35-0.4) | 0.4(0.35-0.47) | 0.39(0.37-0.42) | 0.4(0.38-0.44) | **0.42(0.38-0.45)\*\*** | **0.4(0.38-0.45)\*** |
| Kidney/body weight (%) | 1.27(1.16-1.41) | 1.4(1.24-1.62) | 1.33(1.27-1.46) | 1.38(1.3-1.51) | 1.34(1.16-1.44) | **1.34(1.21-1.59)\*** |
| Liver (g) | 1.4(1.26-1.5) | 1.53(1.3-1.65) | 1.56(1.4-1.7) | 1.45(1.28-1.63) | **1.83(1.67-2.01)\*\*\*1** | **1.6(1.45-1.82)\*\*** |
| Liver/body weight (%) | 5.1(4.8-5.3) | 5.4(4.8-5.6) | 5.2(5.0-5.8) | 5.3(4.9-5.8) | **5.7(5.4-6.3)\*\*\*1** | **5.6(5.2-6)\*\*** |
| gWAT (g) | 0.38(0.31-0.49) | **0.90(0.66-1.28)** | **0.94(0.82-1.15)\*\*\*** | **1.1(0.75-1.24)\*\*\*** | **1.25(0.8-1.7)\*\*\*** | **1.24(1.01-1.56)\*\*\*1** |
| gWAT/body weight (%) | 1.2(1.1-1.4) | **3.2(2.5-4.2)\*\*** | **3.5(2.9-3.7)\*\*\*** | **3.7(2.6-4)\*\*\*** | **4.2(2.7-4.9)\*\*\*** | **4.2(3.5-4.8)\*\*\*** |
| Abdominal Adipose Volume (arbitrary unit) | 14(10-20)  (n=10) | 25(22-32)  (n=5) | 25(23-27)  (n=4**)** | **36(27-49)\***  **(n=6)** | **33(26-49)\*\***  **(n=7)** | **46(27-57)\*\*\***  **(n=11)** |

Values are expressed as median(IQR). Organ weight and abdominal adipose volume have been measured at the time of sacrifice of the mice (18 weeks). Numbers are in bold if p<0.05. \* and 1 identified the WDs groups whose median rank difference was statistically significantly different as compared to that of the CD and WD1 groups, respectively. \*padj<0.05, \*\*padj<0.01, \*\*\*padj<0.001.