

Załącznik nr 11. Wyniki analizy statystycznej z wykorzystaniem testu t studenta

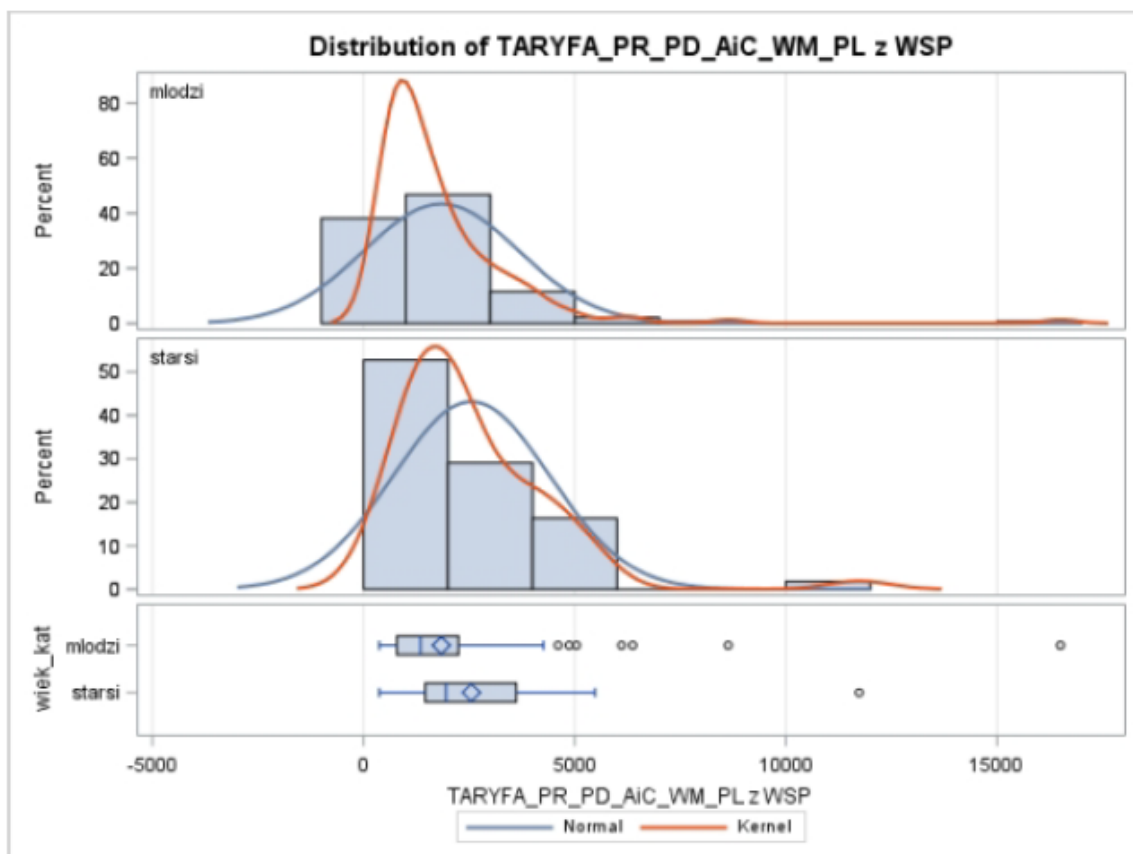
1. Hipoteza zerowa: brak różnic pomiędzy średnimi kosztami w grupach wiekowych <66 r.ż. i > 65 r.ż.

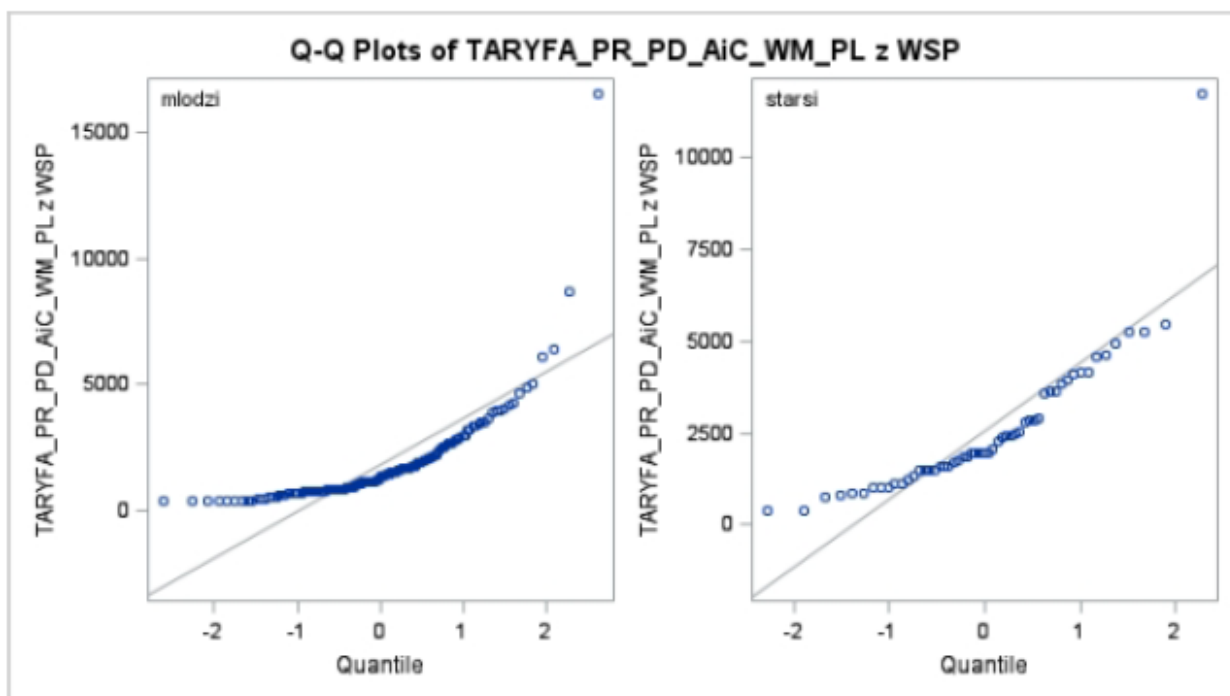
| wiek_kat | N | Mean | Std Dev | Std Err | Minimum | Maximum |
|------------|-----|--------|---------|---------|---------|---------|
| młodzi | 139 | 1838.9 | 1840.9 | 156.1 | 374.3 | 16501.0 |
| starsi | 55 | 2552.2 | 1848.2 | 249.2 | 374.3 | 11735.9 |
| Diff (1-2) | | -713.3 | 1842.9 | 293.6 | | |

| wiek_kat | Method | Mean | 95% CL Mean | Std Dev | 95% CL Std Dev |
|------------|---------------|--------|----------------|---------|----------------|
| młodzi | | 1838.9 | 1530.2 2147.7 | 1840.9 | 1646.9 2087.0 |
| starsi | | 2552.2 | 2052.6 3051.8 | 1848.2 | 1555.9 2276.6 |
| Diff (1-2) | Pooled | -713.3 | -1292.3 -134.2 | 1842.9 | 1675.6 2047.7 |
| Diff (1-2) | Satterthwaite | -713.3 | -1296.8 -129.7 | | |

| Method | Variances | DF | t Value | Pr > t |
|---------------|-----------|--------|---------|---------|
| Pooled | Equal | 192 | -2.43 | 0.0160 |
| Satterthwaite | Unequal | 98.764 | -2.43 | 0.0171 |

| Equality of Variances | | | | |
|-----------------------|--------|--------|---------|--------|
| Method | Num DF | Den DF | F Value | Pr > F |
| Folded F | 54 | 138 | 1.01 | 0.9459 |





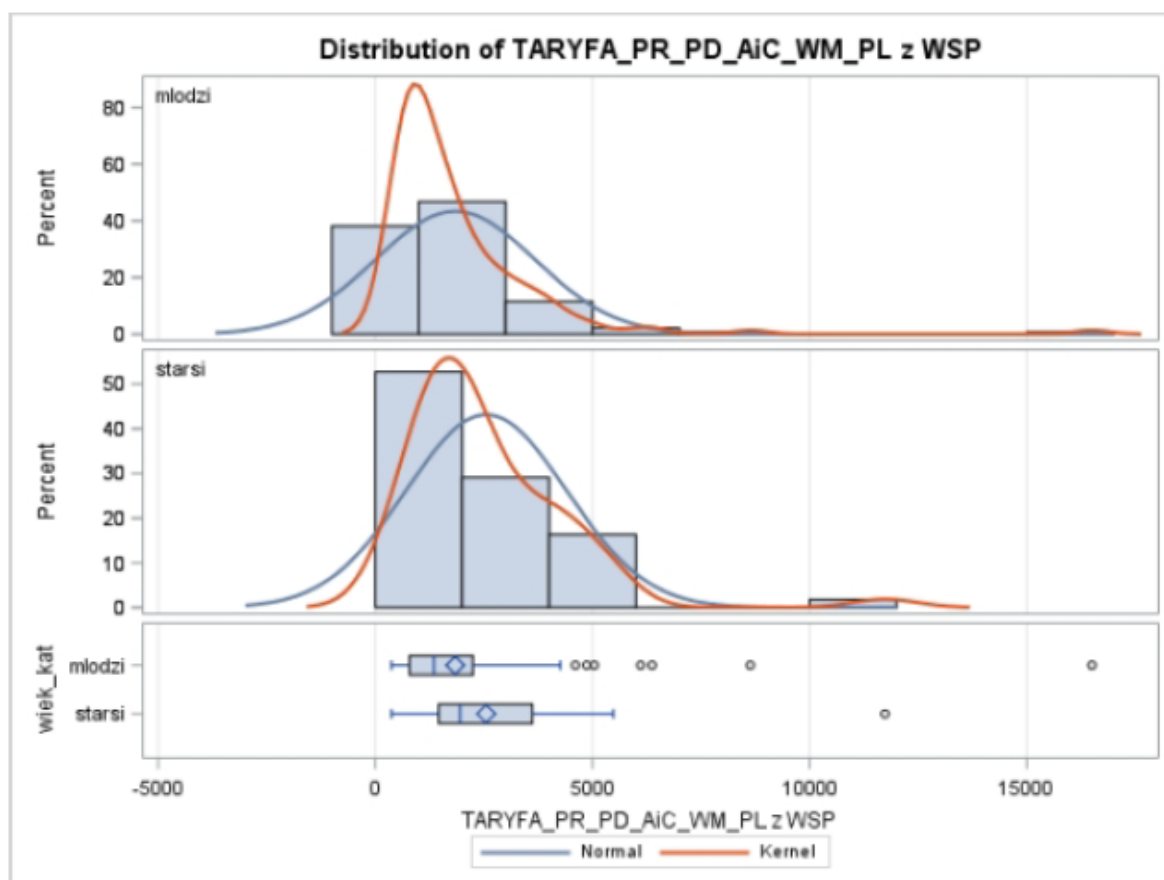
2. Hipoteza zerowa: różnica pomiędzy średnimi kosztami w grupach wiekowych: <66 r.ż. i > 65 r.ż. wynosi 200 zł

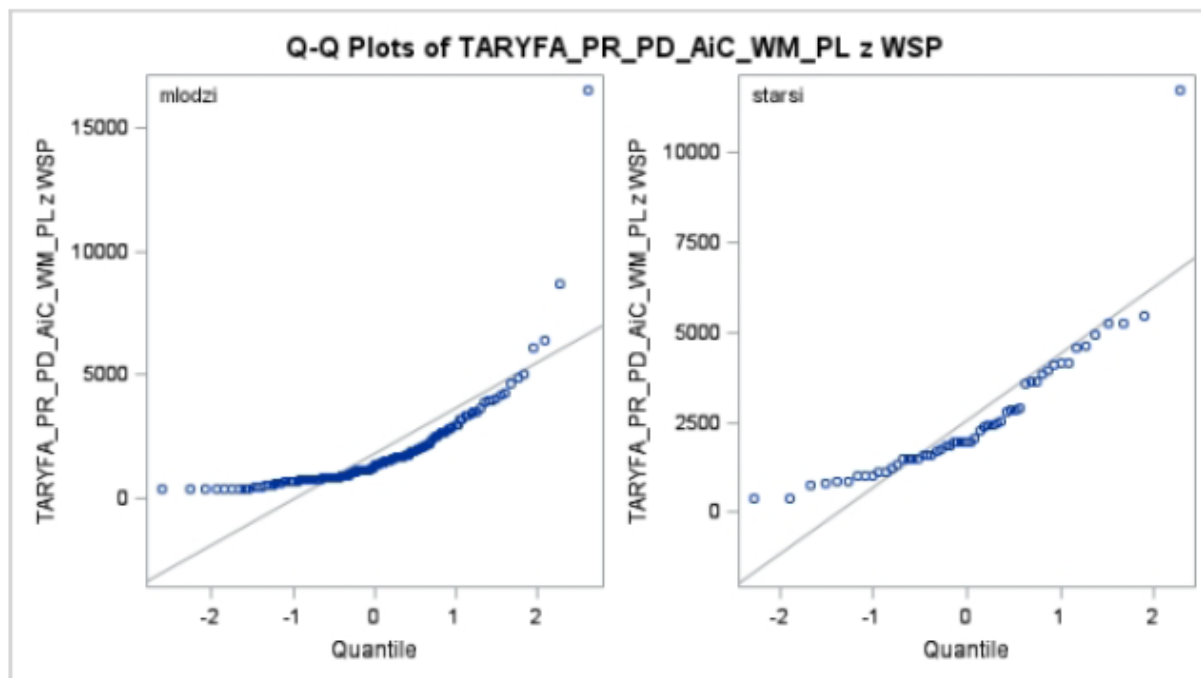
| wiek_kat | N | Mean | Std Dev | Std Err | Minimum | Maximum |
|------------|-----|--------|---------|---------|---------|---------|
| młodzi | 139 | 1838.9 | 1840.9 | 156.1 | 374.3 | 16501.0 |
| starsi | 55 | 2552.2 | 1848.2 | 249.2 | 374.3 | 11735.9 |
| Diff (1-2) | | -713.3 | 1842.9 | 293.6 | | |

| wiek_kat | Method | Mean | 95% CL Mean | Std Dev | 95% CL Std Dev |
|------------|---------------|--------|----------------|---------|----------------|
| młodzi | | 1838.9 | 1530.2 2147.7 | 1840.9 | 1646.9 2087.0 |
| starsi | | 2552.2 | 2052.6 3051.8 | 1848.2 | 1555.9 2276.6 |
| Diff (1-2) | Pooled | -713.3 | -1292.3 -134.2 | 1842.9 | 1675.6 2047.7 |
| Diff (1-2) | Satterthwaite | -713.3 | -1296.8 -129.7 | | |

| Method | Variances | DF | t Value | Pr > t |
|---------------|-----------|--------|---------|---------|
| Pooled | Equal | 192 | -1.75 | 0.0820 |
| Satterthwaite | Unequal | 98.764 | -1.75 | 0.0840 |

| Equality of Variances | | | | |
|-----------------------|--------|--------|---------|--------|
| Method | Num DF | Den DF | F Value | Pr > F |
| Folded F | 54 | 138 | 1.01 | 0.9459 |





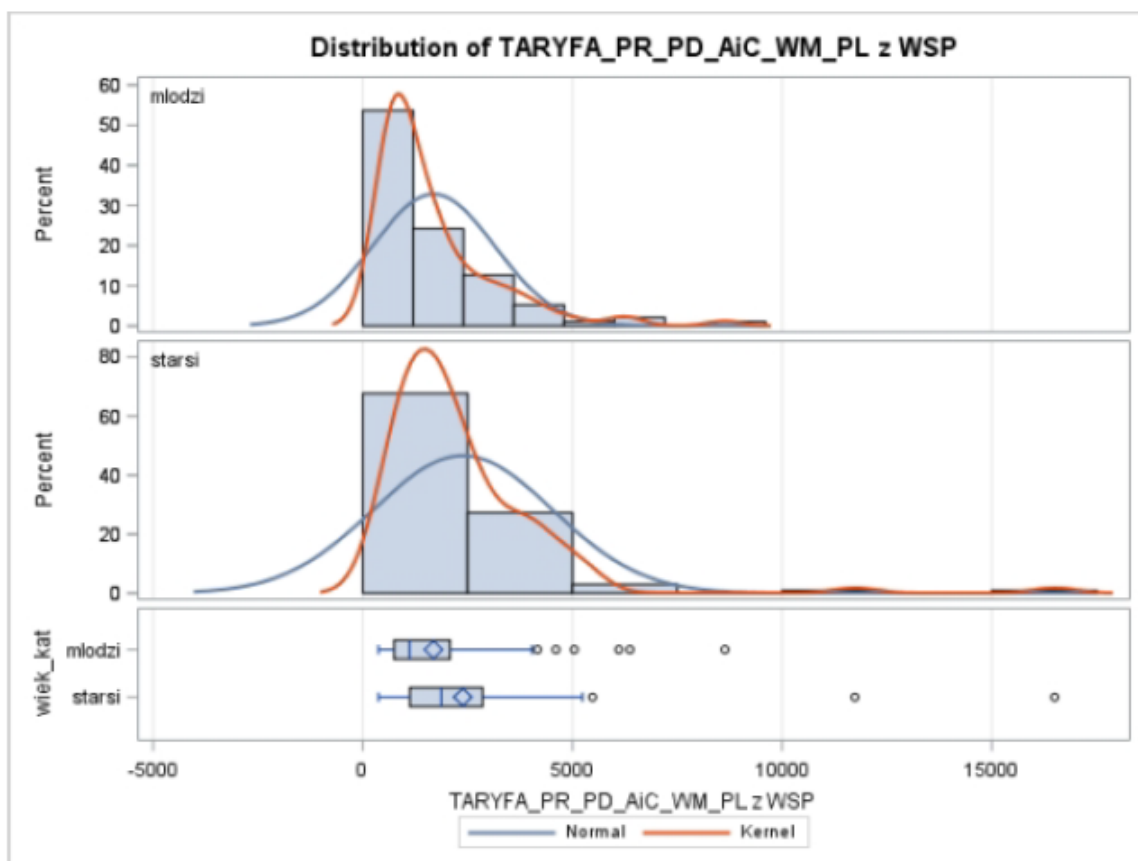
3. Hipoteza zerowa: brak różnic pomiędzy średnimi kosztami w grupach wiekowych wyznaczonych w oparciu o medianę wieku w próbie

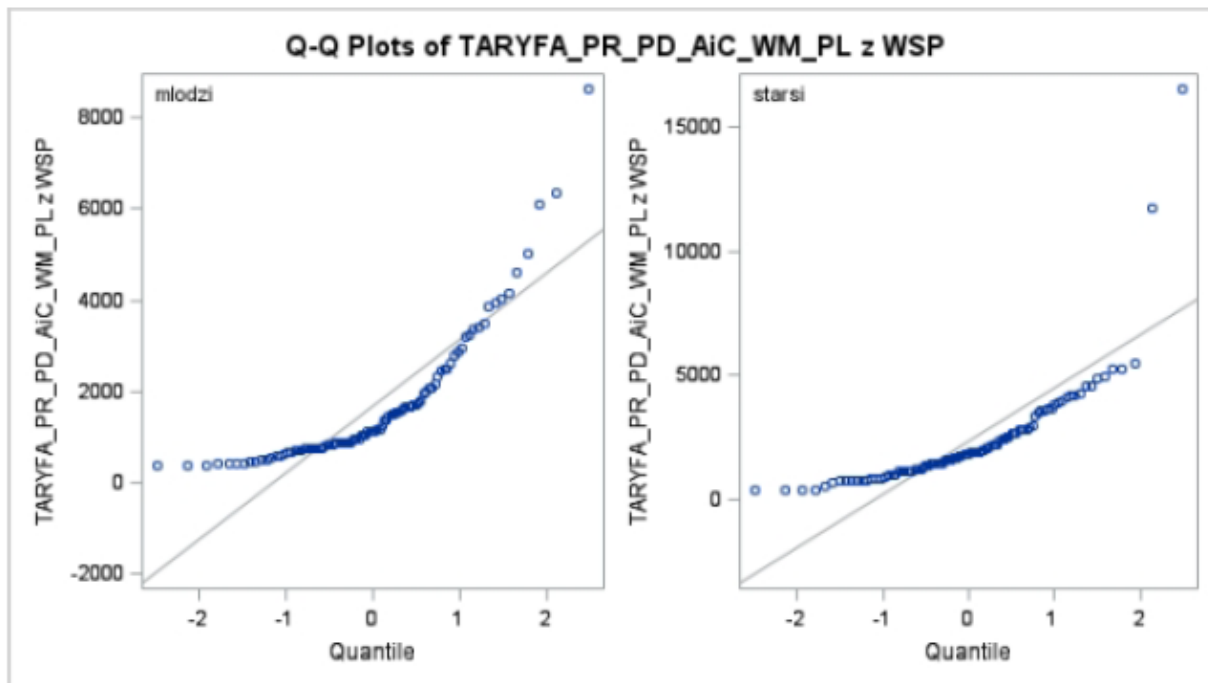
| wiek_kat | N | Mean | Std Dev | Std Err | Minimum | Maximum |
|------------|----|--------|---------|---------|---------|---------|
| młodzi | 95 | 1684.5 | 1457.5 | 149.5 | 374.3 | 8634.6 |
| starsi | 99 | 2383.4 | 2140.0 | 215.1 | 374.3 | 16501.0 |
| Diff (1-2) | | -698.8 | 1837.8 | 263.9 | | |

| wiek_kat | Method | Mean | 95% CL Mean | Std Dev | 95% CL Std Dev |
|------------|---------------|--------|----------------|---------|----------------|
| młodzi | | 1684.5 | 1387.6 1981.5 | 1457.5 | 1275.6 1700.3 |
| starsi | | 2383.4 | 1956.5 2810.2 | 2140.0 | 1877.8 2488.0 |
| Diff (1-2) | Pooled | -698.8 | -1219.4 -178.2 | 1837.8 | 1670.9 2042.0 |
| Diff (1-2) | Satterthwaite | -698.8 | -1215.8 -181.8 | | |

| Method | Variances | DF | t Value | Pr > t |
|---------------|-----------|-------|---------|---------|
| Pooled | Equal | 192 | -2.65 | 0.0088 |
| Satterthwaite | Unequal | 173.4 | -2.67 | 0.0084 |

| Equality of Variances | | | | |
|-----------------------|--------|--------|---------|--------|
| Method | Num DF | Den DF | F Value | Pr > F |
| Folded F | 98 | 94 | 2.16 | 0.0002 |





4. Hipoteza zerowa: różnica pomiędzy średnimi kosztami w grupach wiekowych wyznaczonych w oparciu o medianę wieku w próbie wynosi 200 zł

| wiek_kat | N | Mean | Std Dev | Std Err | Minimum | Maximum |
|------------|----|--------|---------|---------|---------|---------|
| młodzi | 95 | 1684.5 | 1457.5 | 149.5 | 374.3 | 8634.6 |
| starsi | 99 | 2383.4 | 2140.0 | 215.1 | 374.3 | 16501.0 |
| Diff (1-2) | | -698.8 | 1837.8 | 263.9 | | |

| wiek_kat | Method | Mean | 95% CL Mean | Std Dev | 95% CL Std Dev |
|------------|---------------|--------|----------------|---------|----------------|
| młodzi | | 1684.5 | 1387.6 1981.5 | 1457.5 | 1275.6 1700.3 |
| starsi | | 2383.4 | 1956.5 2810.2 | 2140.0 | 1877.8 2488.0 |
| Diff (1-2) | Pooled | -698.8 | -1219.4 -178.2 | 1837.8 | 1670.9 2042.0 |
| Diff (1-2) | Satterthwaite | -698.8 | -1215.8 -181.8 | | |

| Method | Variances | DF | t Value | Pr > t |
|---------------|-----------|-------|---------|---------|
| Pooled | Equal | 192 | -1.89 | 0.0603 |
| Satterthwaite | Unequal | 173.4 | -1.90 | 0.0585 |

| Equality of Variances | | | | |
|-----------------------|--------|--------|---------|--------|
| Method | Num DF | Den DF | F Value | Pr > F |
| Folded F | 98 | 94 | 2.16 | 0.0002 |

