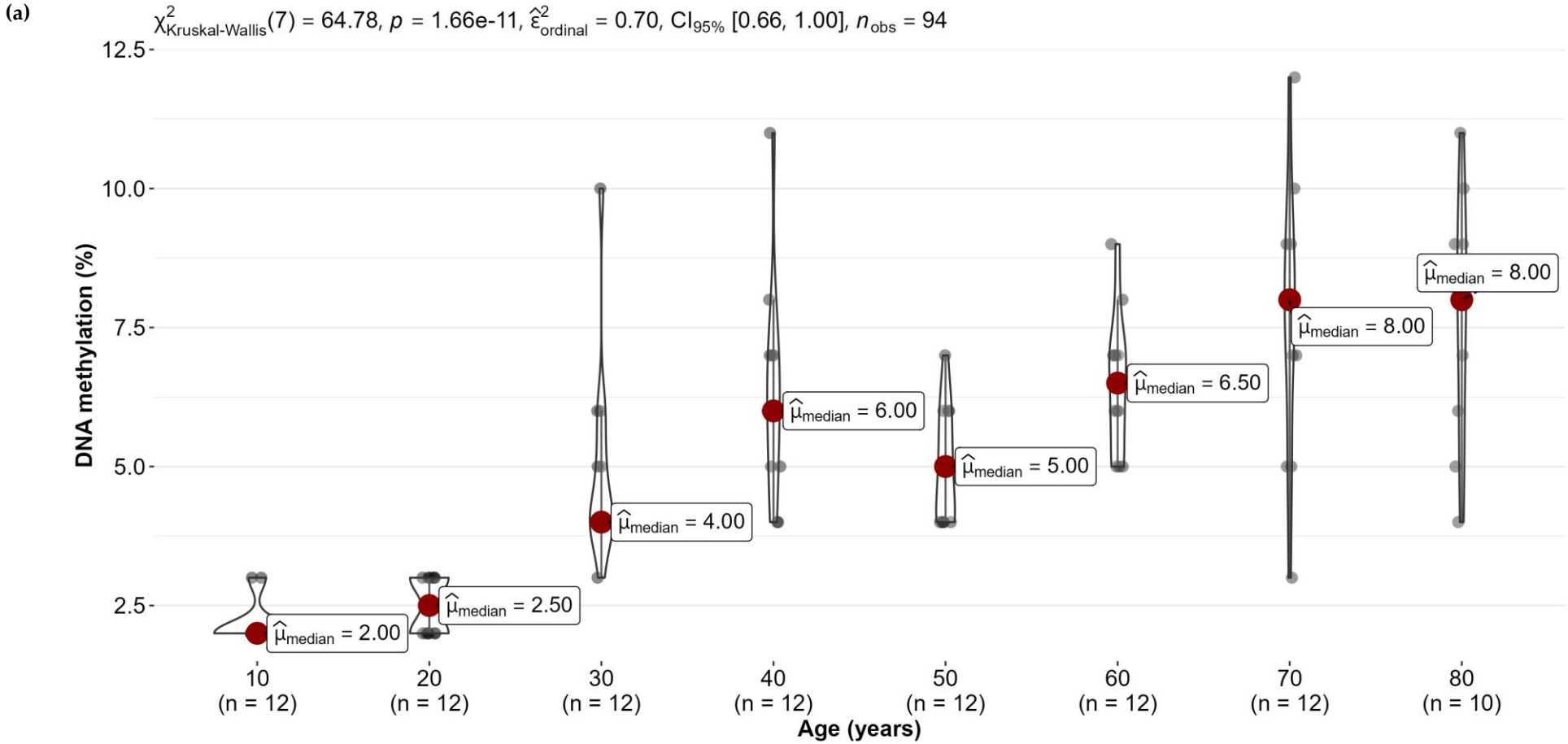
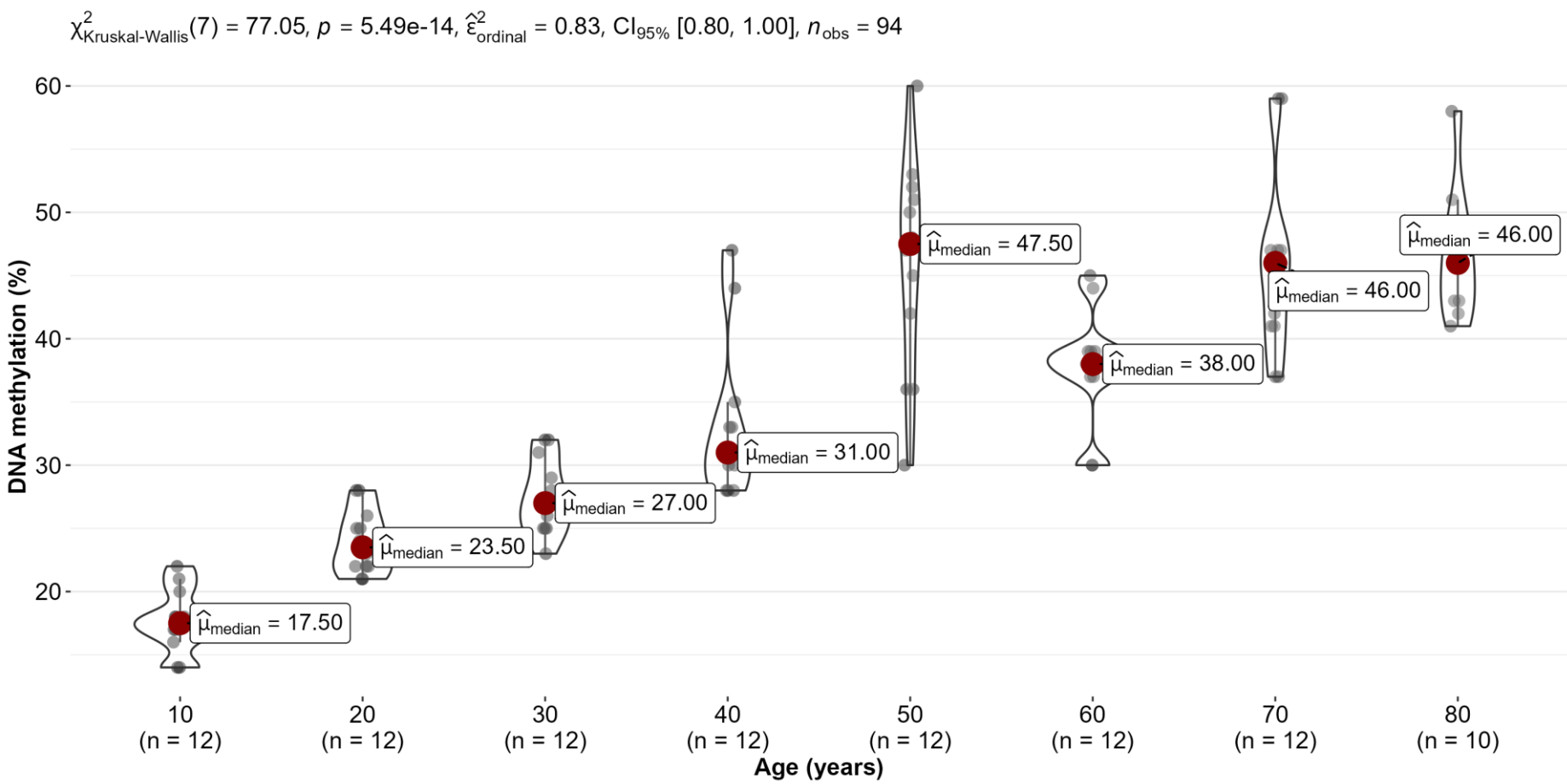
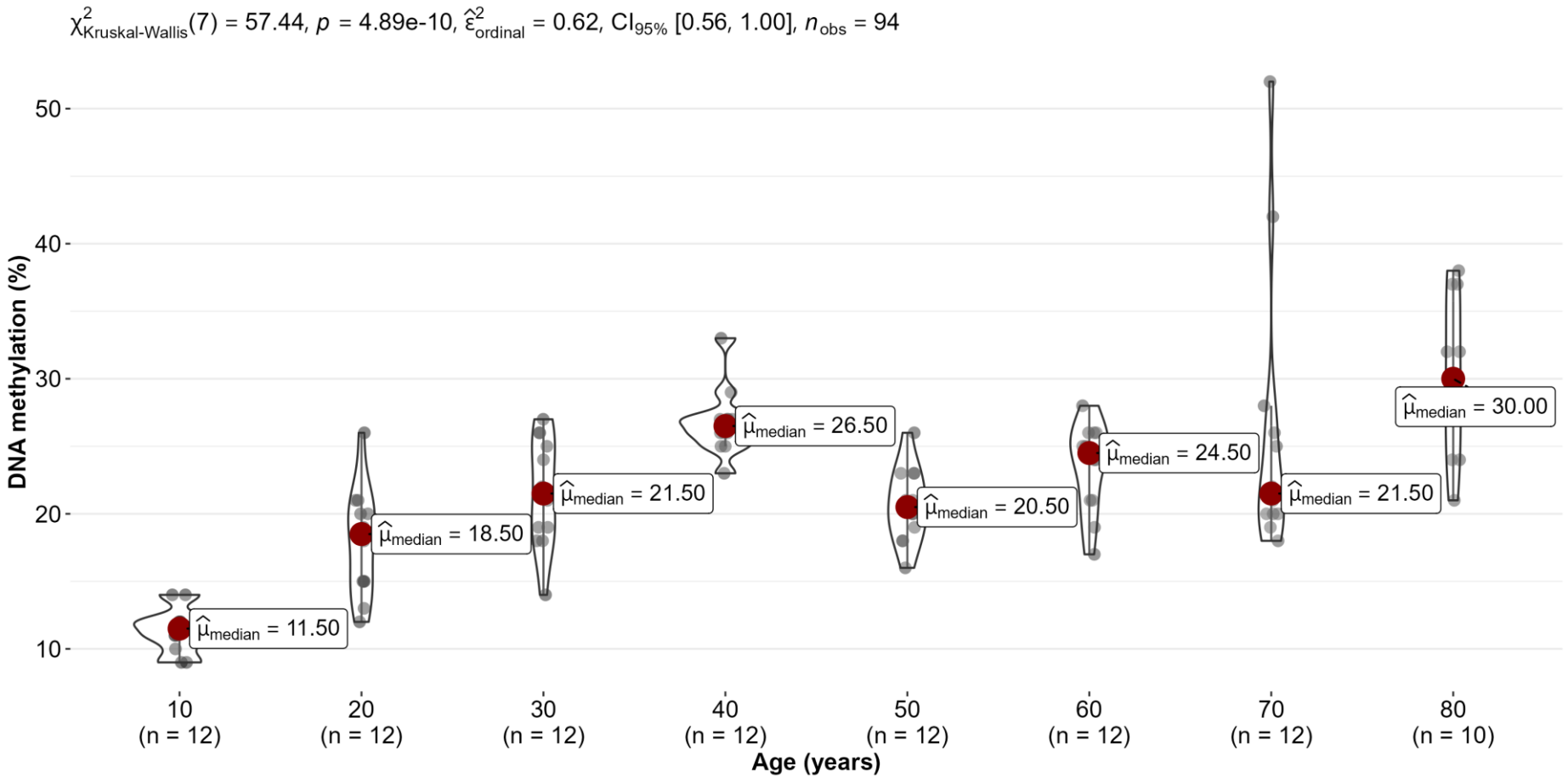
Figure S1. Differences in DNA methylation of (**a**) *KLF14* C1, (**b**) *FHL2* C2, (**c**) *TRIM59* C7, (**d**) *C1orf132* C1, (**e**) *ELOVL2* C5 and (**f**) *ELOVL2* C7 between age groups in the training group.



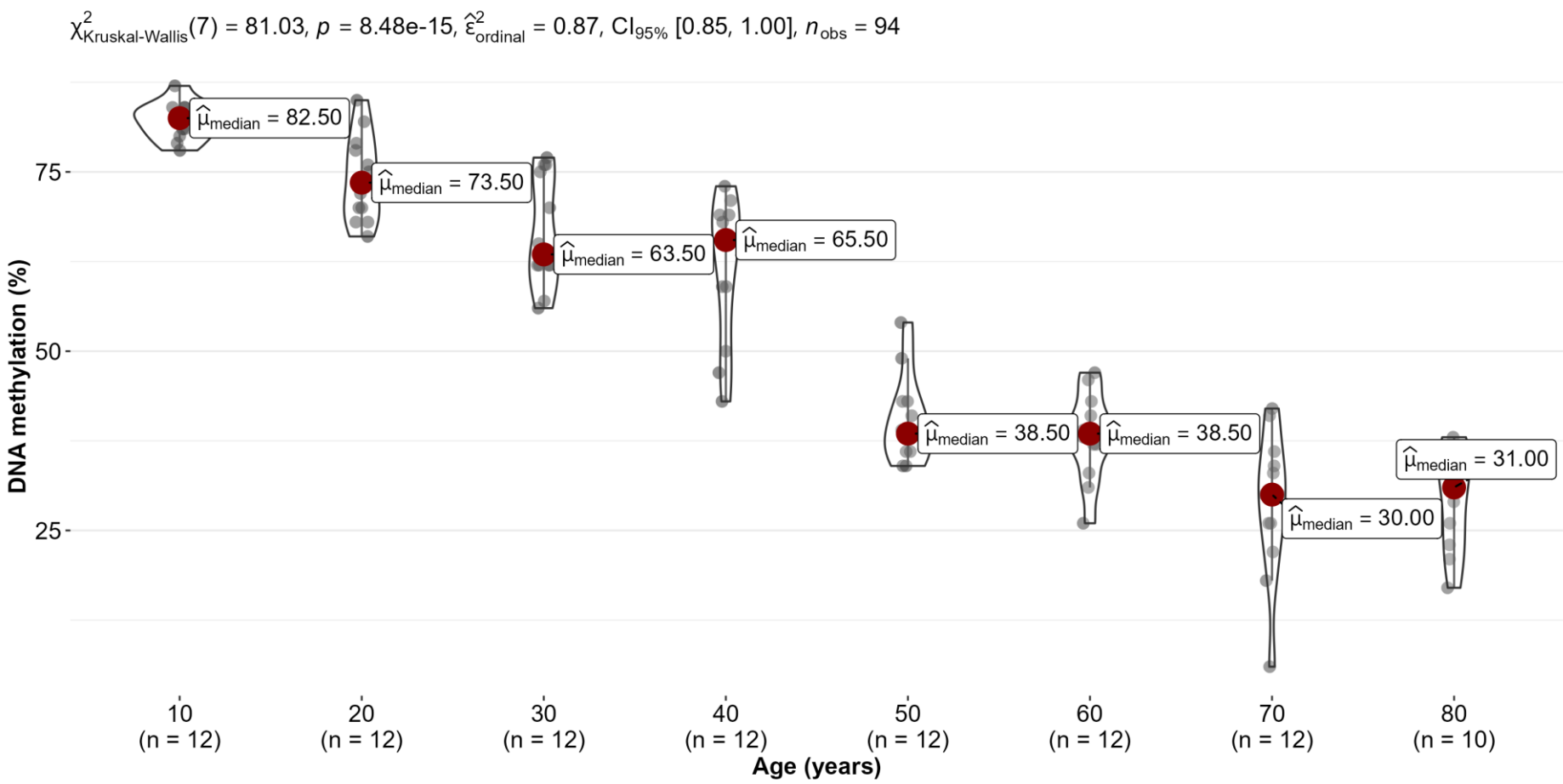
(b)


$\chi^2_{\text{Kruskal-Wallis}}(7) = 77.05$, $p = 5.49e\text{-}14$, $\hat{\varepsilon}^2_{\text{ordinal}} = 0.83$, $CI_{95\%}$ [0.80, 1.00], $n_{\text{obs}} = 94$
DNA methylation (%)
60
50
40
30
20
$\hat{\mu}_{\text{median}} = 17.50$
$\hat{\mu}_{\text{median}} = 23.50$
$\hat{\mu}_{\text{median}} = 27.00$
$\hat{\mu}_{\text{median}} = 31.00$
$\hat{\mu}_{\text{median}} = 47.50$
$\hat{\mu}_{\text{median}} = 38.00$
$\hat{\mu}_{\text{median}} = 46.00$
$\hat{\mu}_{\text{median}} = 46.00$
10 (n = 12)
20 (n = 12)
30 (n = 12)
40 (n = 12)
50 (n = 12)
60 (n = 12)
70 (n = 12)
80 (n = 10)
Age (years)

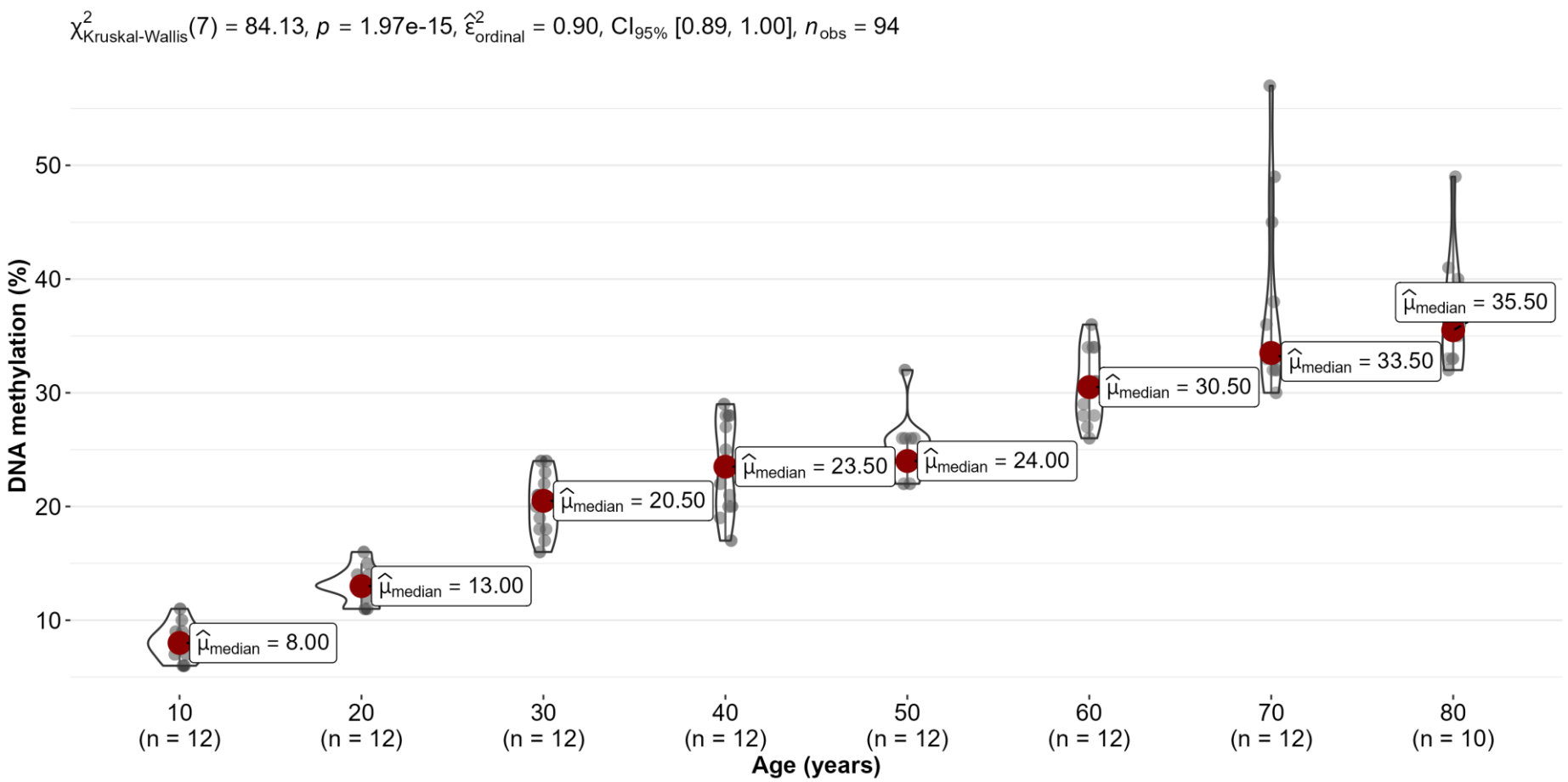
(c)


$\chi^2_{\text{Kruskal-Wallis}}(7) = 57.44$, $p = 4.89\text{e-}10$, $\hat{\varepsilon}^2_{\text{ordinal}} = 0.62$, $\text{CI}_{95\%}$ [0.56, 1.00], $n_{\text{obs}} = 94$
DNA methylation (%)
50
40
30
20
10
$\hat{\mu}_{\text{median}} = 11.50$
$\hat{\mu}_{\text{median}} = 18.50$
$\hat{\mu}_{\text{median}} = 21.50$
$\hat{\mu}_{\text{median}} = 26.50$
$\hat{\mu}_{\text{median}} = 20.50$
$\hat{\mu}_{\text{median}} = 24.50$
$\hat{\mu}_{\text{median}} = 21.50$
$\hat{\mu}_{\text{median}} = 30.00$
10 (n = 12)
20 (n = 12)
30 (n = 12)
40 (n = 12)
50 (n = 12)
60 (n = 12)
70 (n = 12)
80 (n = 10)
Age (years)

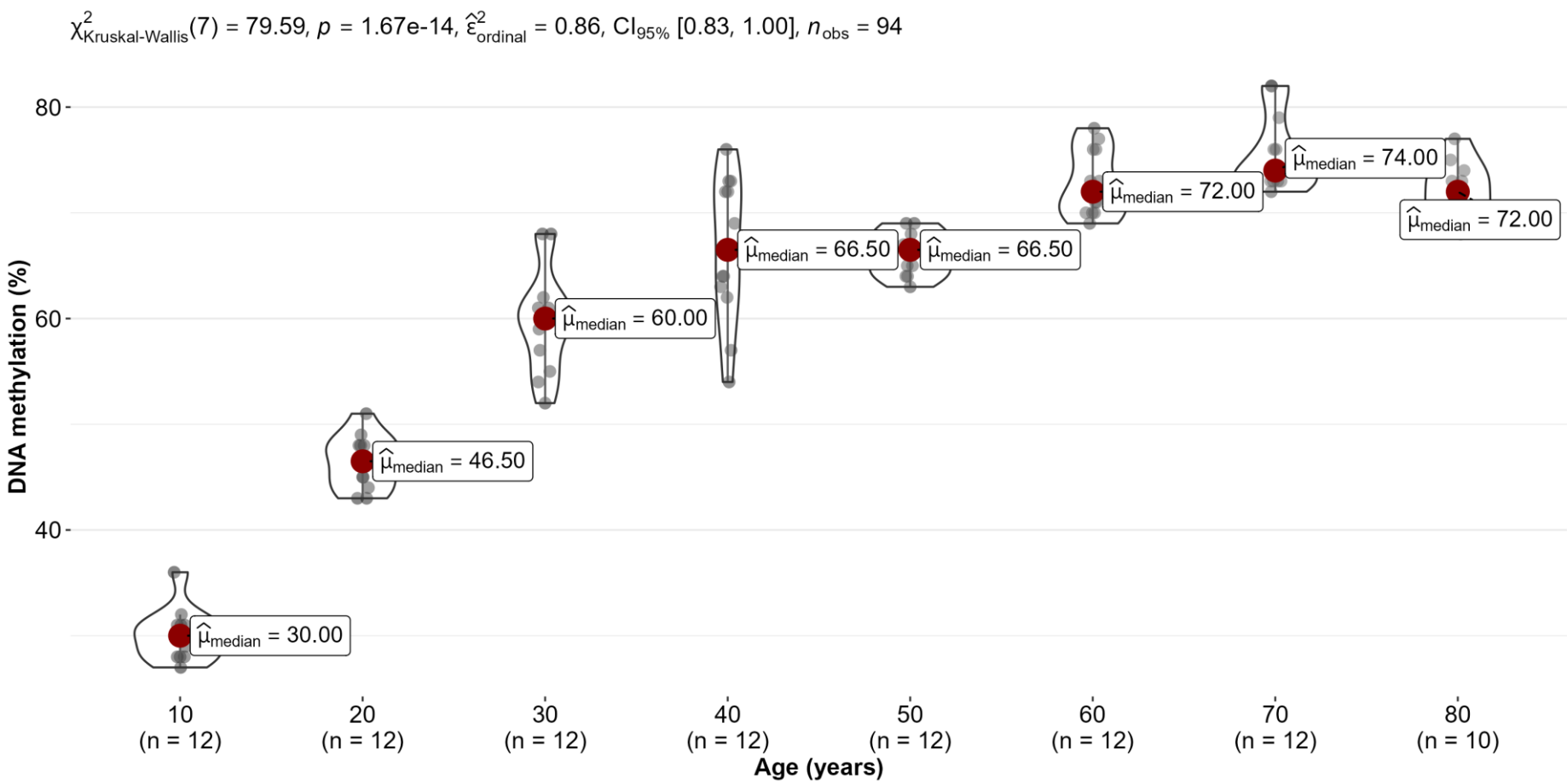
(d)


$\chi^2_{\text{Kruskal-Wallis}}(7) = 81.03$, $p = 8.48e\text{-}15$, $\hat{\varepsilon}^2_{\text{ordinal}} = 0.87$, $\text{CI}_{95\%}$ [0.85, 1.00], $n_{\text{obs}} = 94$
DNA methylation (%)
75
50
25
$\hat{\mu}_{\text{median}} = 82.50$
$\hat{\mu}_{\text{median}} = 73.50$
$\hat{\mu}_{\text{median}} = 63.50$
$\hat{\mu}_{\text{median}} = 65.50$
$\hat{\mu}_{\text{median}} = 38.50$
$\hat{\mu}_{\text{median}} = 38.50$
$\hat{\mu}_{\text{median}} = 30.00$
$\hat{\mu}_{\text{median}} = 31.00$
10 (n = 12)
20 (n = 12)
30 (n = 12)
40 (n = 12)
50 (n = 12)
60 (n = 12)
70 (n = 12)
80 (n = 10)
Age (years)

(e)


$\chi^2_{\text{Kruskal-Wallis}}(7) = 84.13$, $p = 1.97\text{e-}15$, $\hat{\varepsilon}^2_{\text{ordinal}} = 0.90$, $\text{CI}_{95\%}$ [0.89, 1.00], $n_{\text{obs}} = 94$
DNA methylation (%)
50
40
30
20
10
$\hat{\mu}_{\text{median}} = 8.00$
$\hat{\mu}_{\text{median}} = 13.00$
$\hat{\mu}_{\text{median}} = 20.50$
$\hat{\mu}_{\text{median}} = 23.50$
$\hat{\mu}_{\text{median}} = 24.00$
$\hat{\mu}_{\text{median}} = 30.50$
$\hat{\mu}_{\text{median}} = 33.50$
$\hat{\mu}_{\text{median}} = 35.50$
10 (n = 12)
20 (n = 12)
30 (n = 12)
40 (n = 12)
50 (n = 12)
60 (n = 12)
70 (n = 12)
80 (n = 10)
Age (years)

(f)


$\chi^2_{\text{Kruskal-Wallis}}(7) = 79.59$, $p = 1.67\text{e-}14$, $\hat{\varepsilon}^2_{\text{ordinal}} = 0.86$, $\text{CI}_{95\%}$ [0.83, 1.00], $n_{\text{obs}} = 94$
DNA methylation (%)
80
60
40
$\hat{\mu}_{\text{median}} = 30.00$
$\hat{\mu}_{\text{median}} = 46.50$
$\hat{\mu}_{\text{median}} = 60.00$
$\hat{\mu}_{\text{median}} = 66.50$
$\hat{\mu}_{\text{median}} = 66.50$
$\hat{\mu}_{\text{median}} = 72.00$
$\hat{\mu}_{\text{median}} = 74.00$
$\hat{\mu}_{\text{median}} = 72.00$
10 (n = 12)
20 (n = 12)
30 (n = 12)
40 (n = 12)
50 (n = 12)
60 (n = 12)
70 (n = 12)
80 (n = 10)
Age (years)