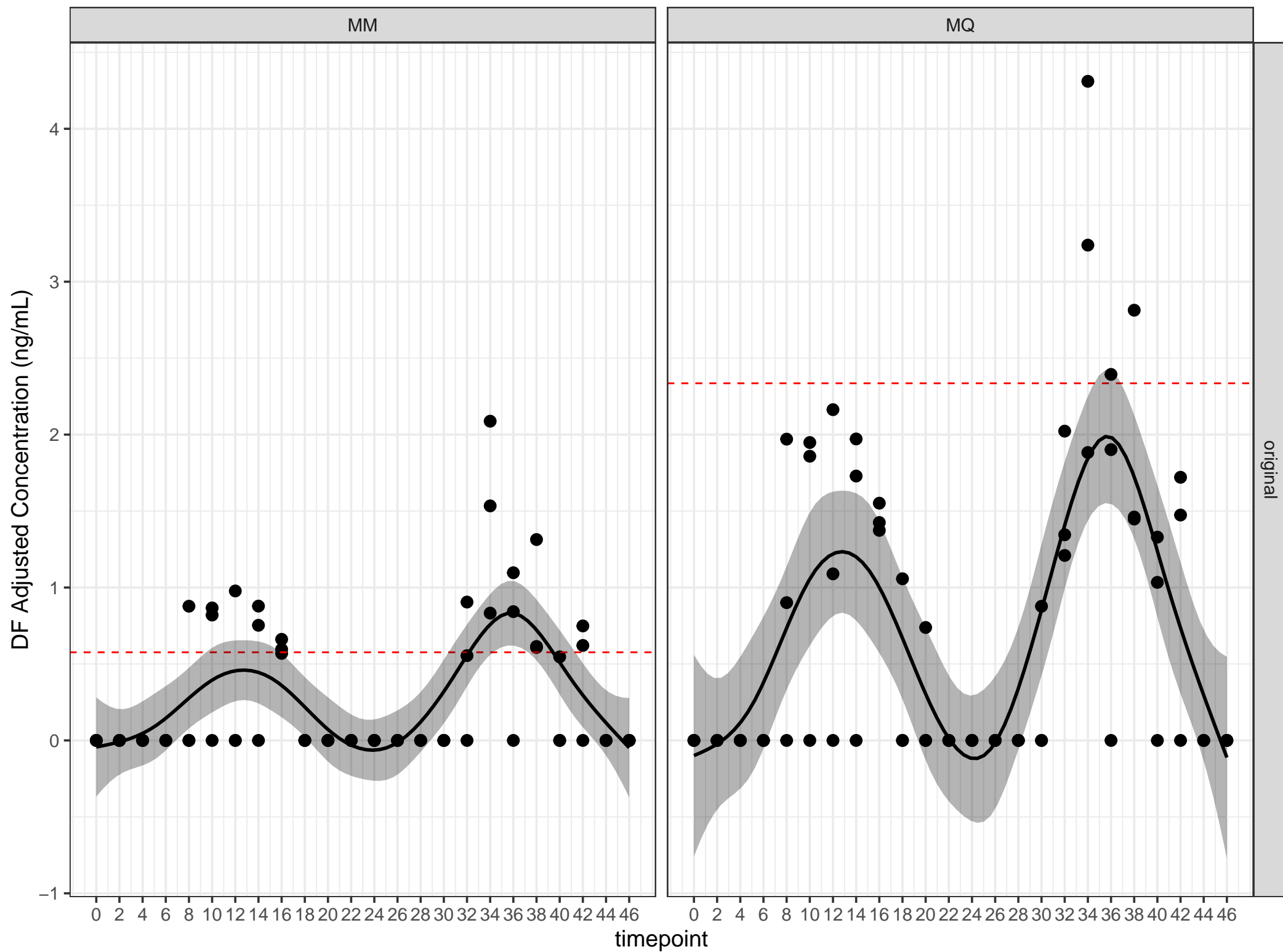
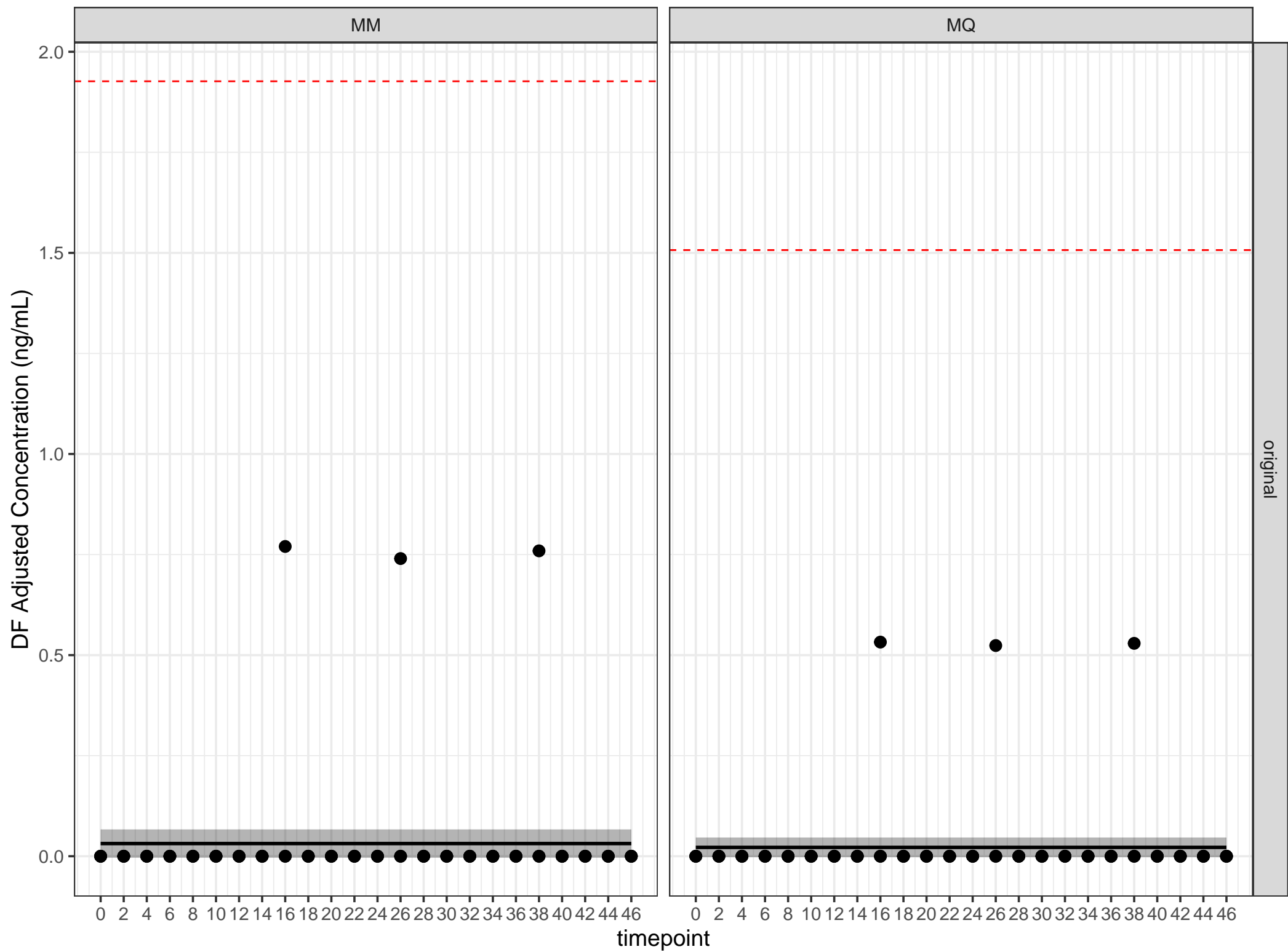


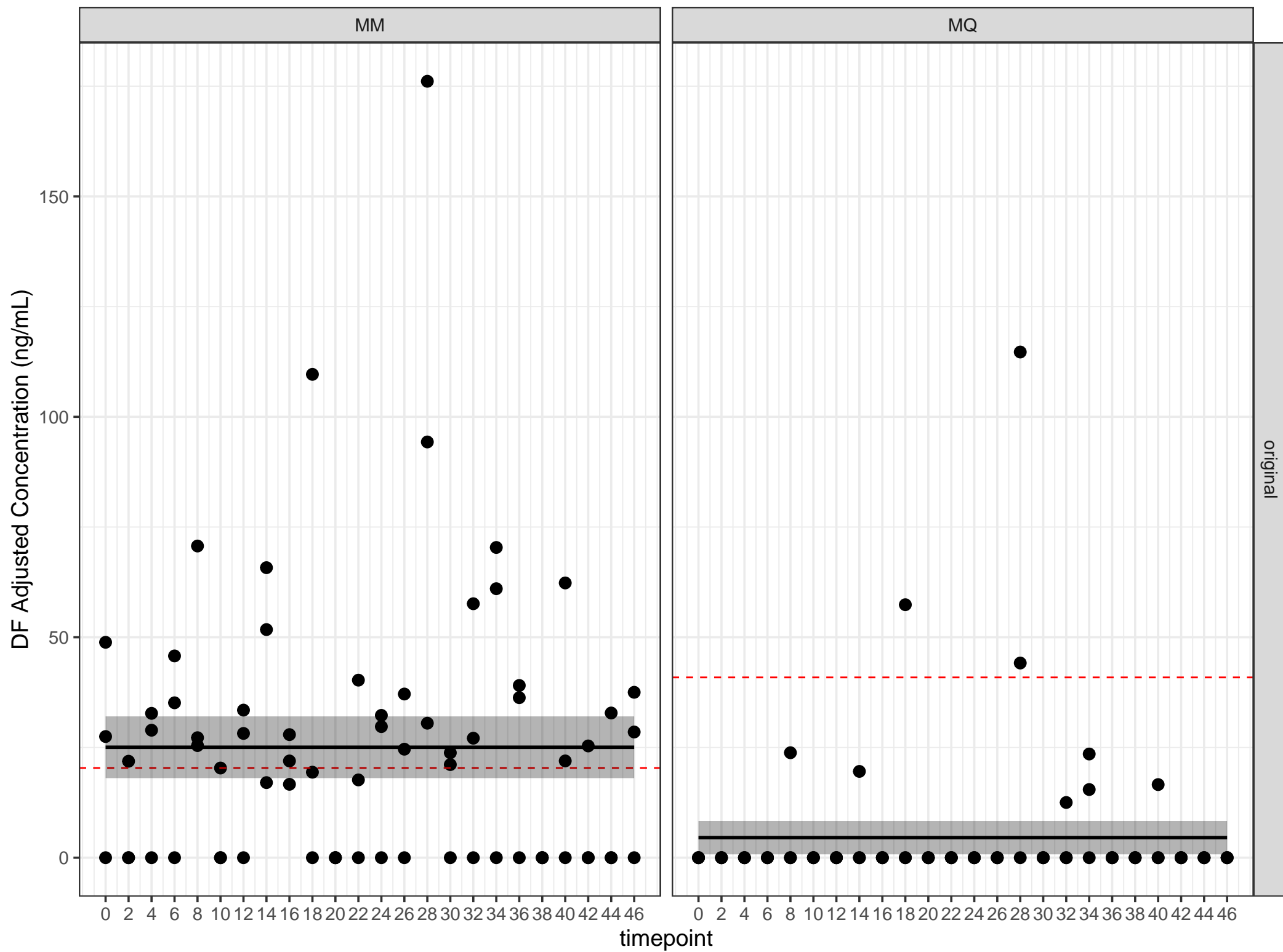
# 2-deoxycytidine pos



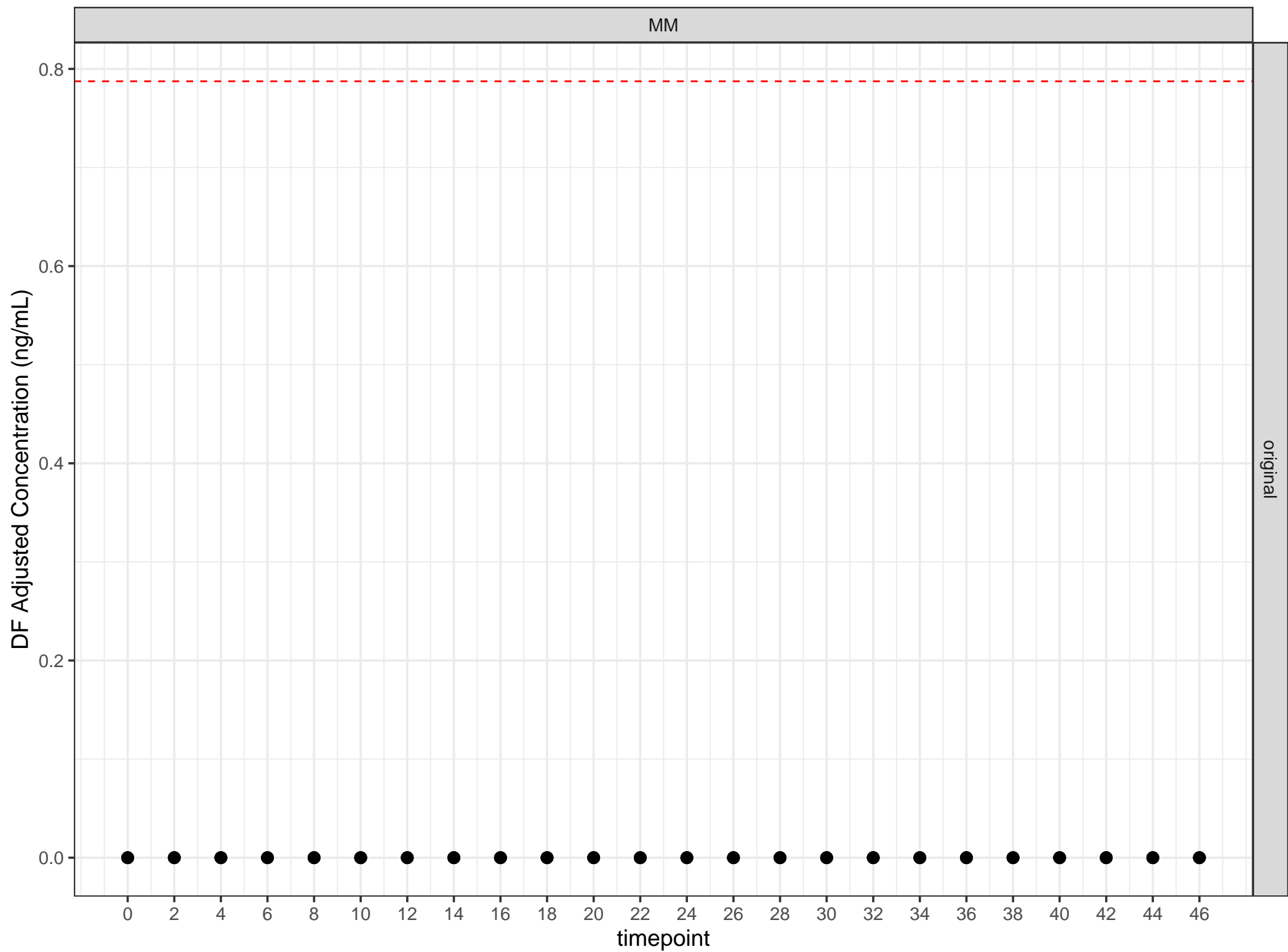
# 2-deoxyuridine



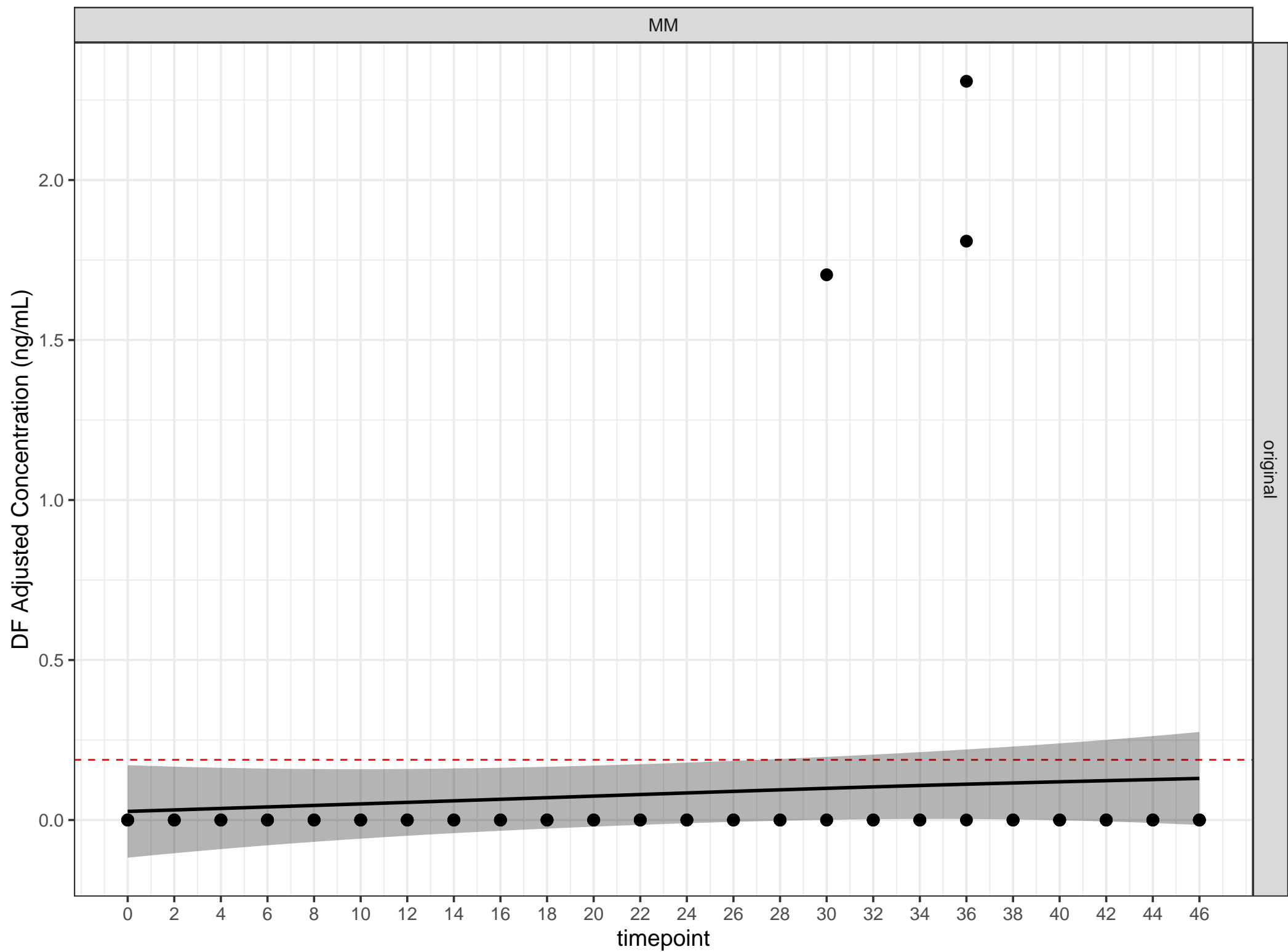
# 2-methyl-4-oxopentanoic acid



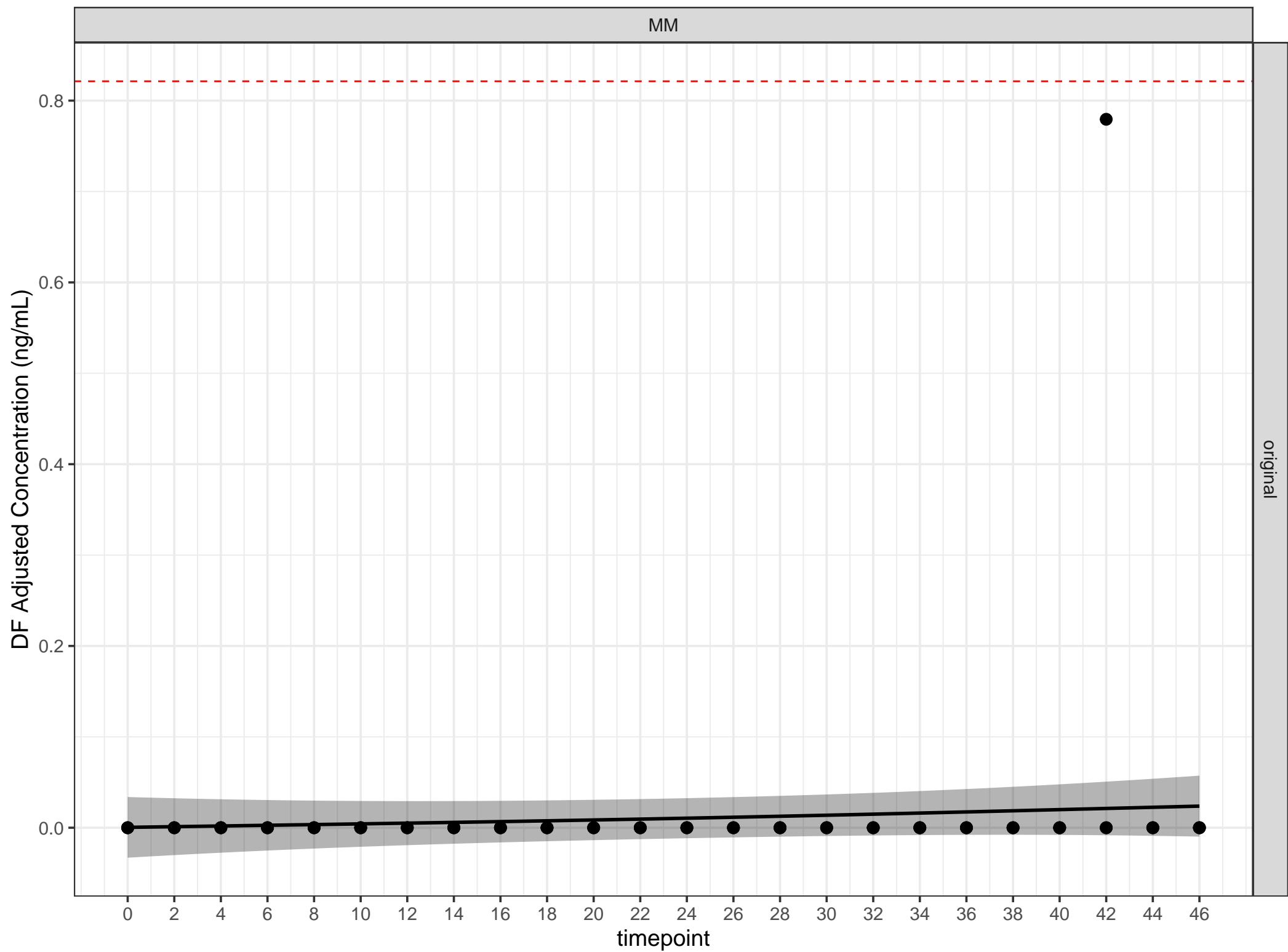
# 2\_3-dihydroxybenzoic acid



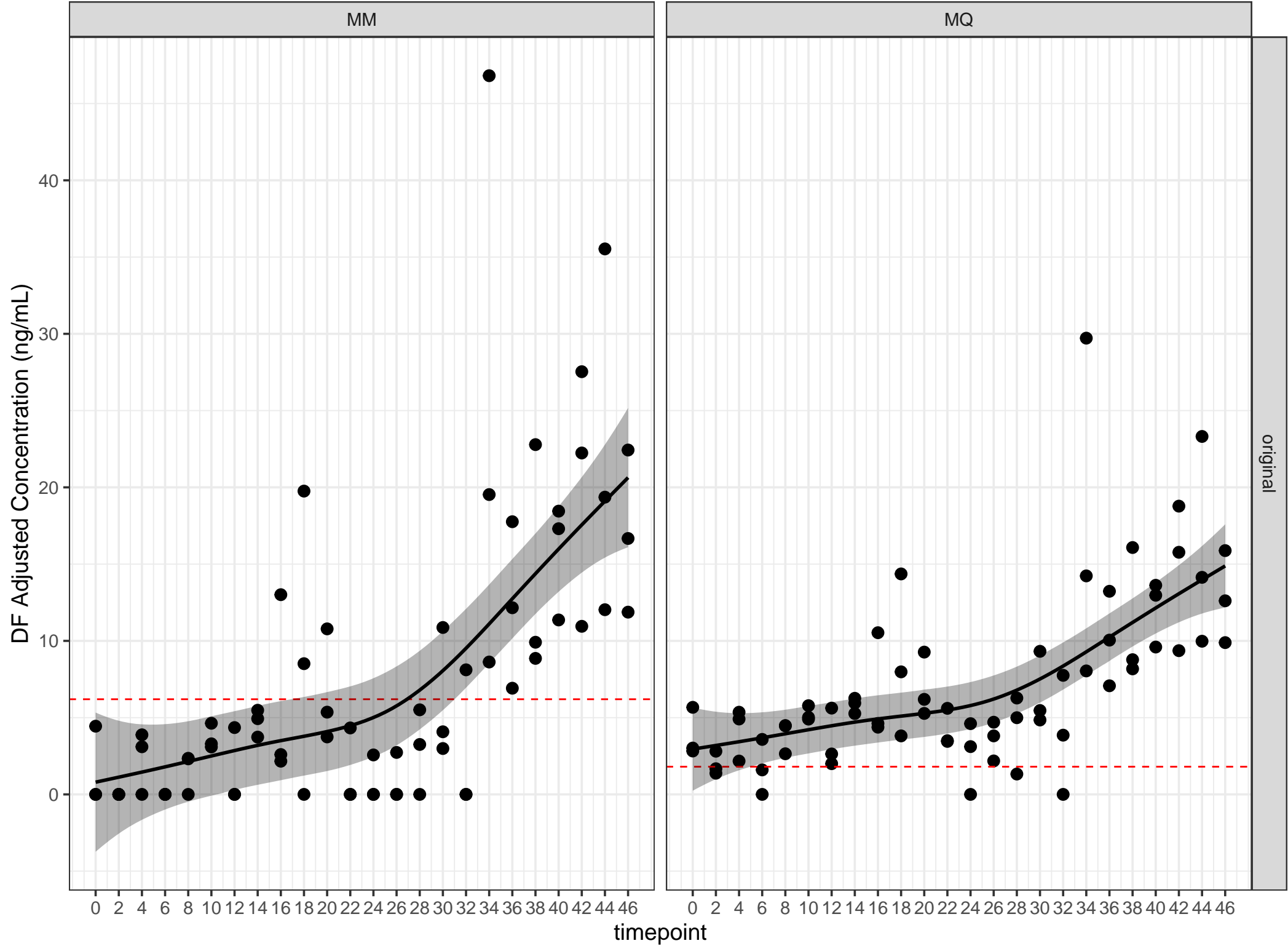
# 3-hydroxybenzoic acid



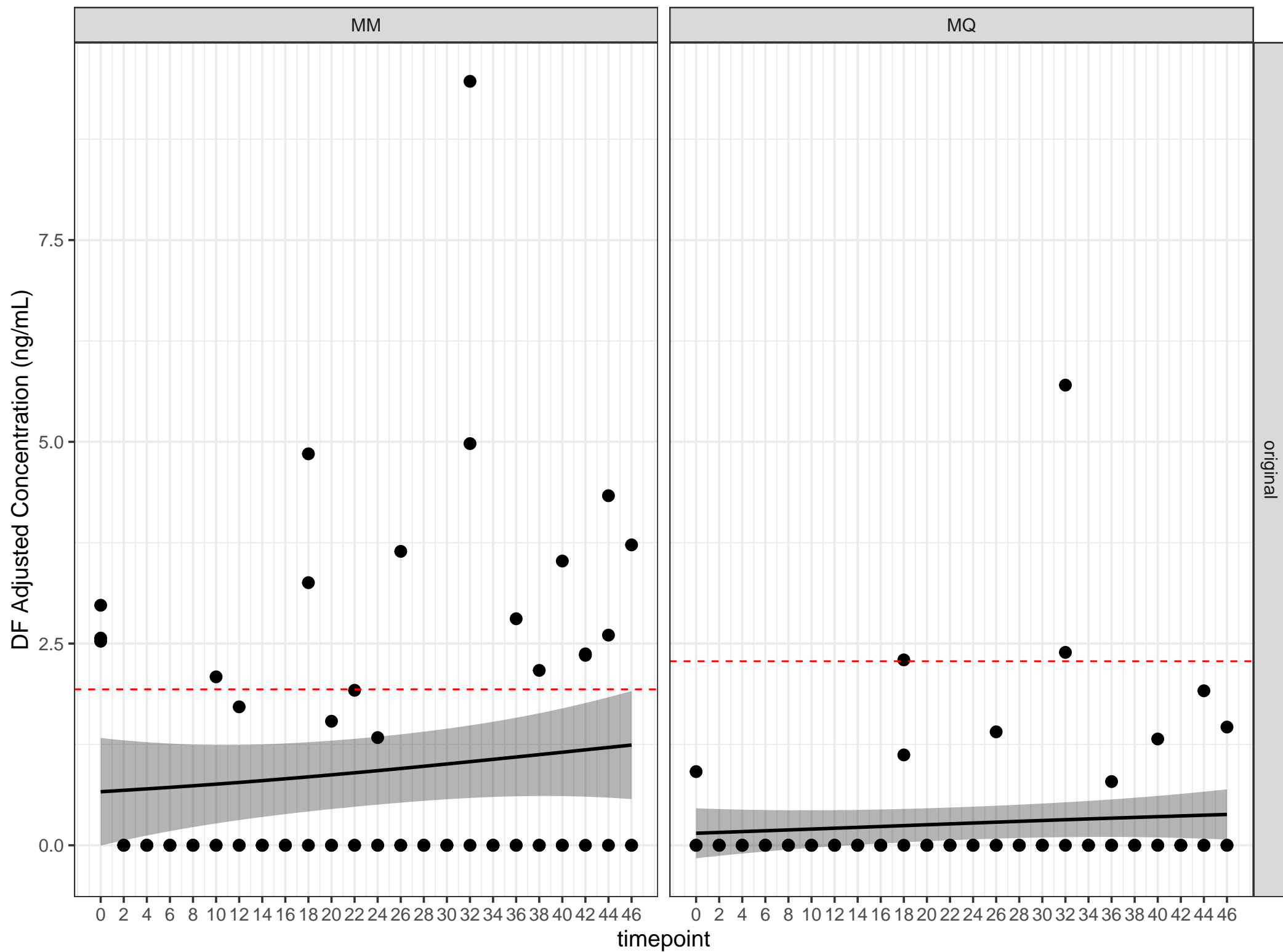
# 3-mercaptopropionate



3-methyl-2-oxobutanoic acid

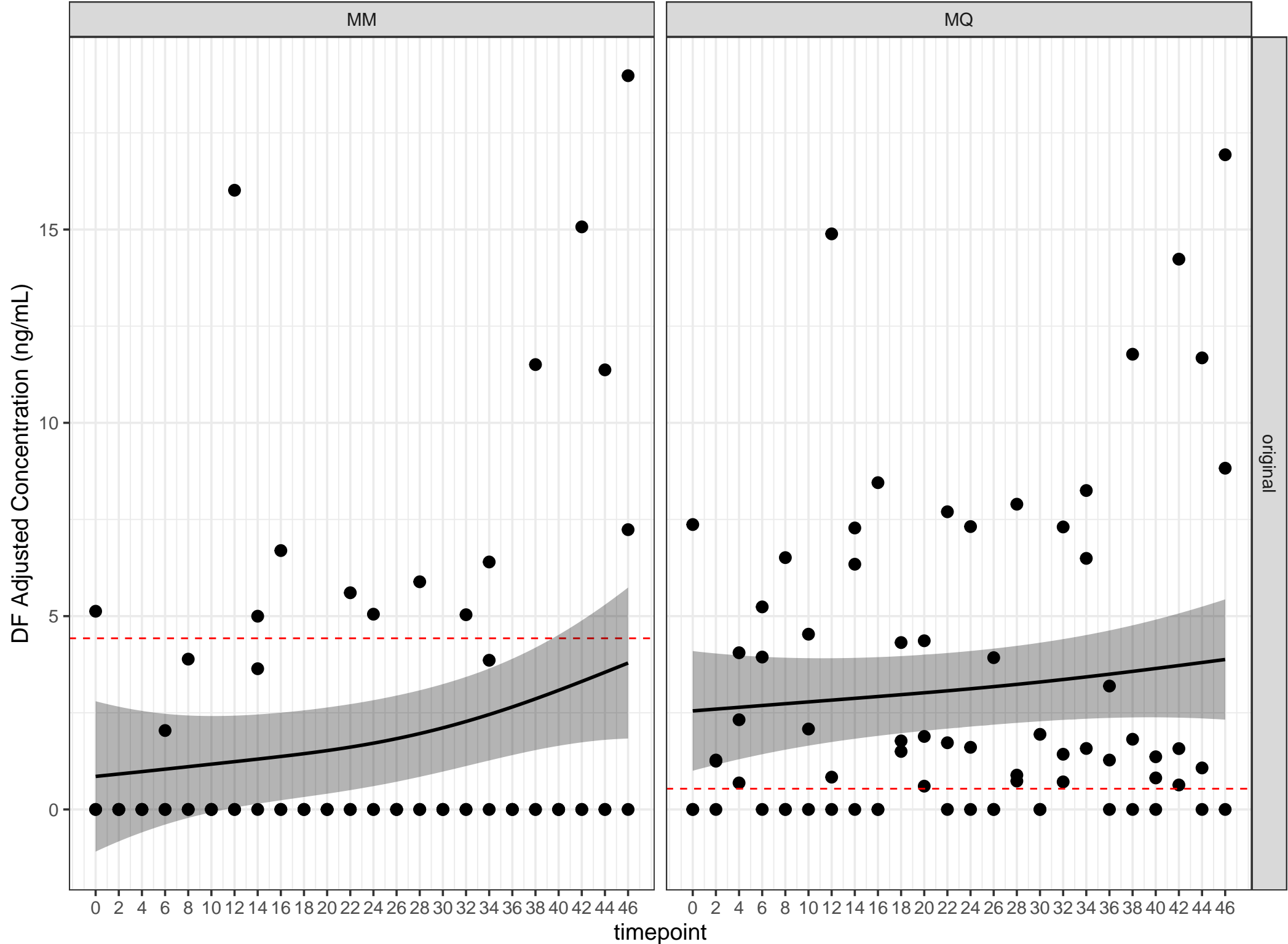


# 3-methyl-2-oxopentanoic acid

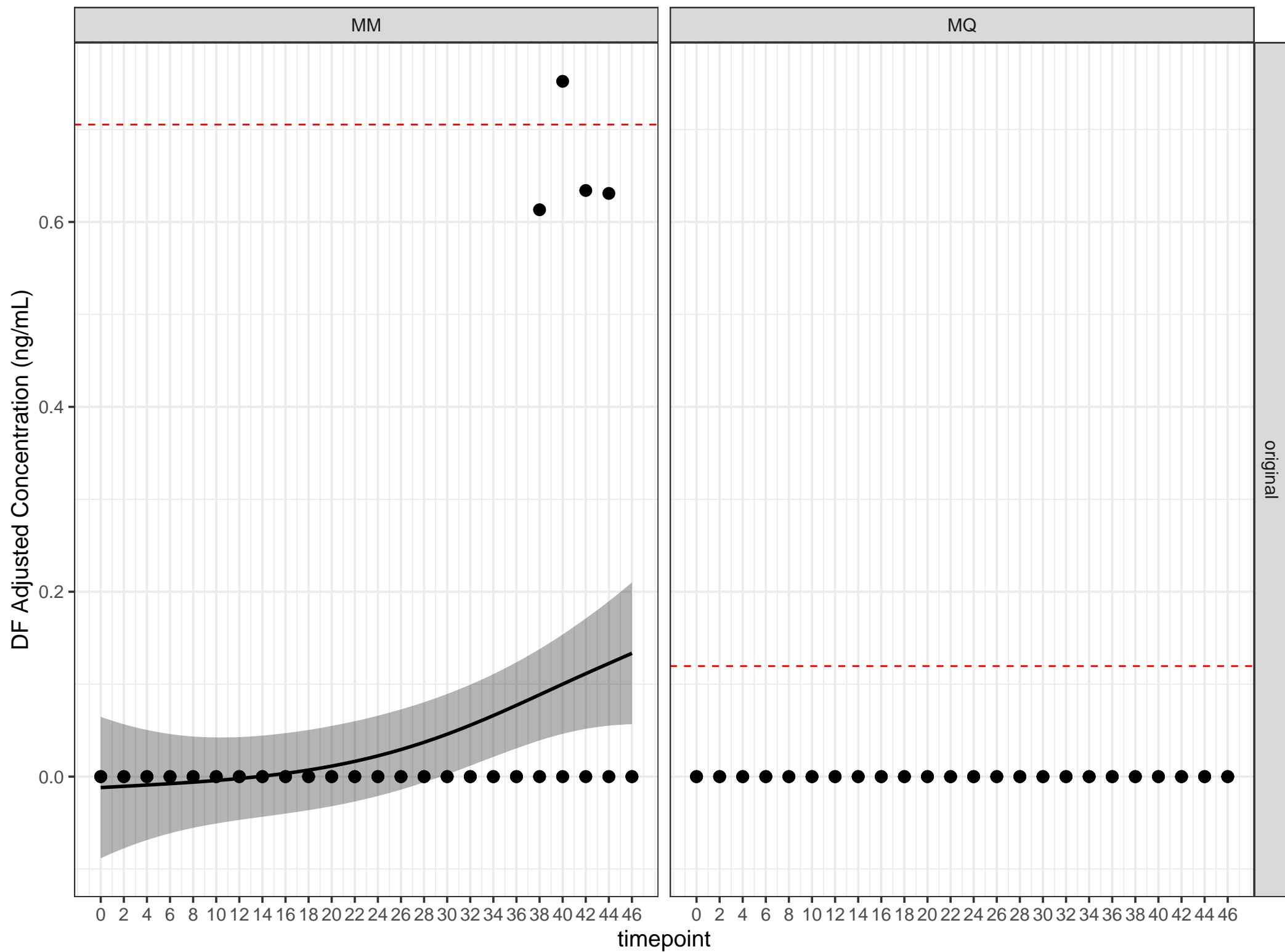




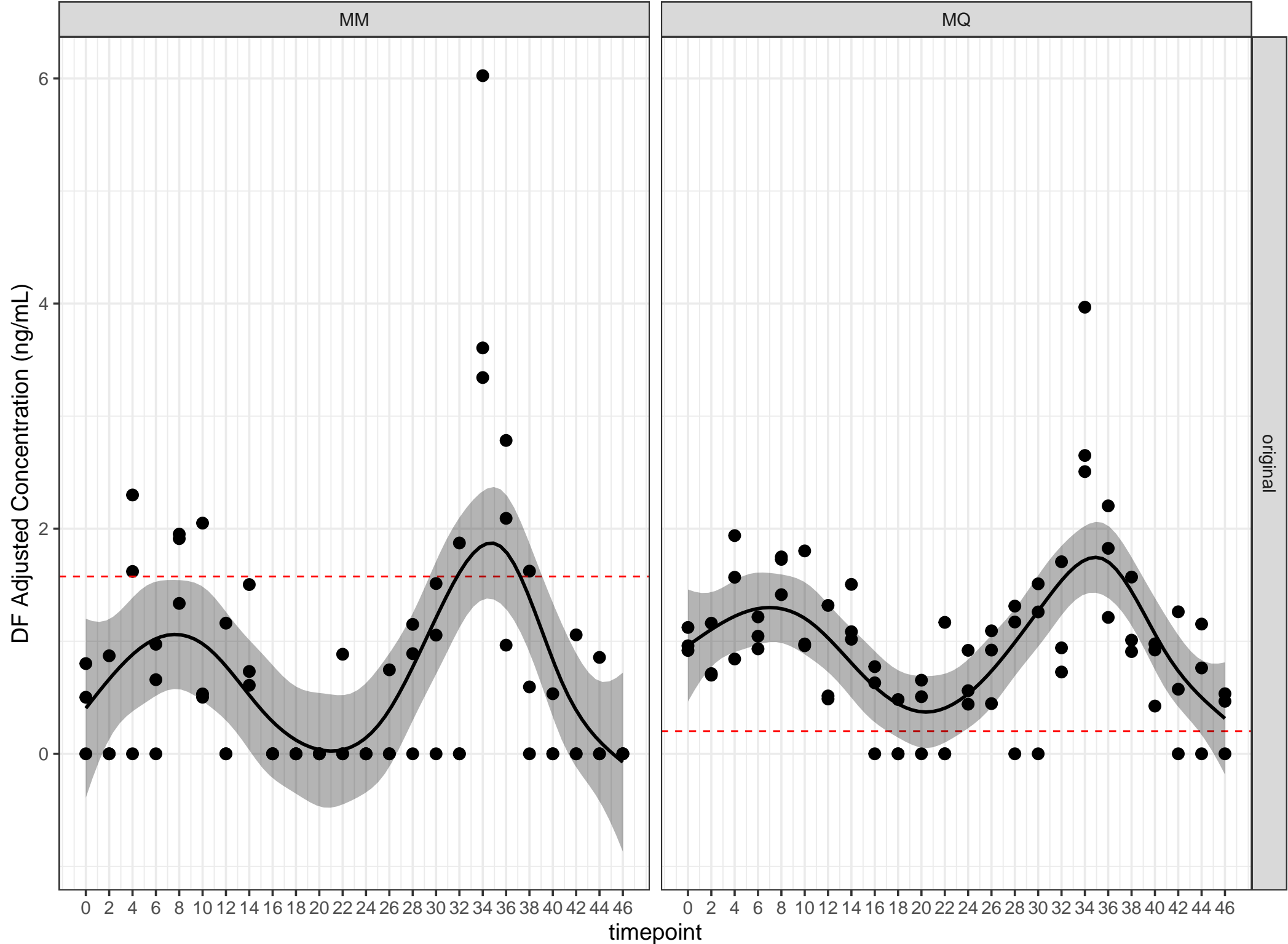
3\_3-dimethyl-2-oxobutanoic acid



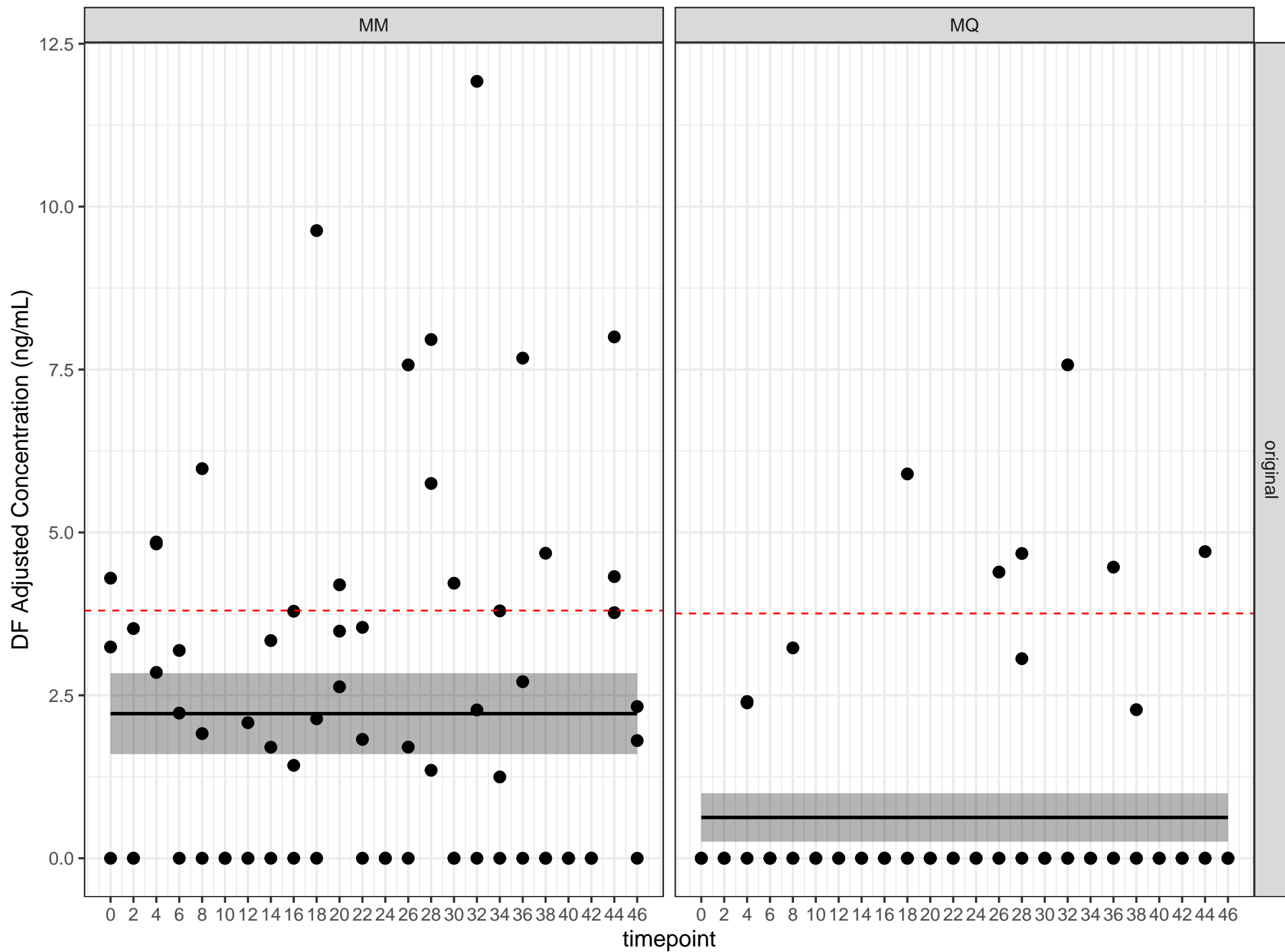
# 4-aminobenzoic acid

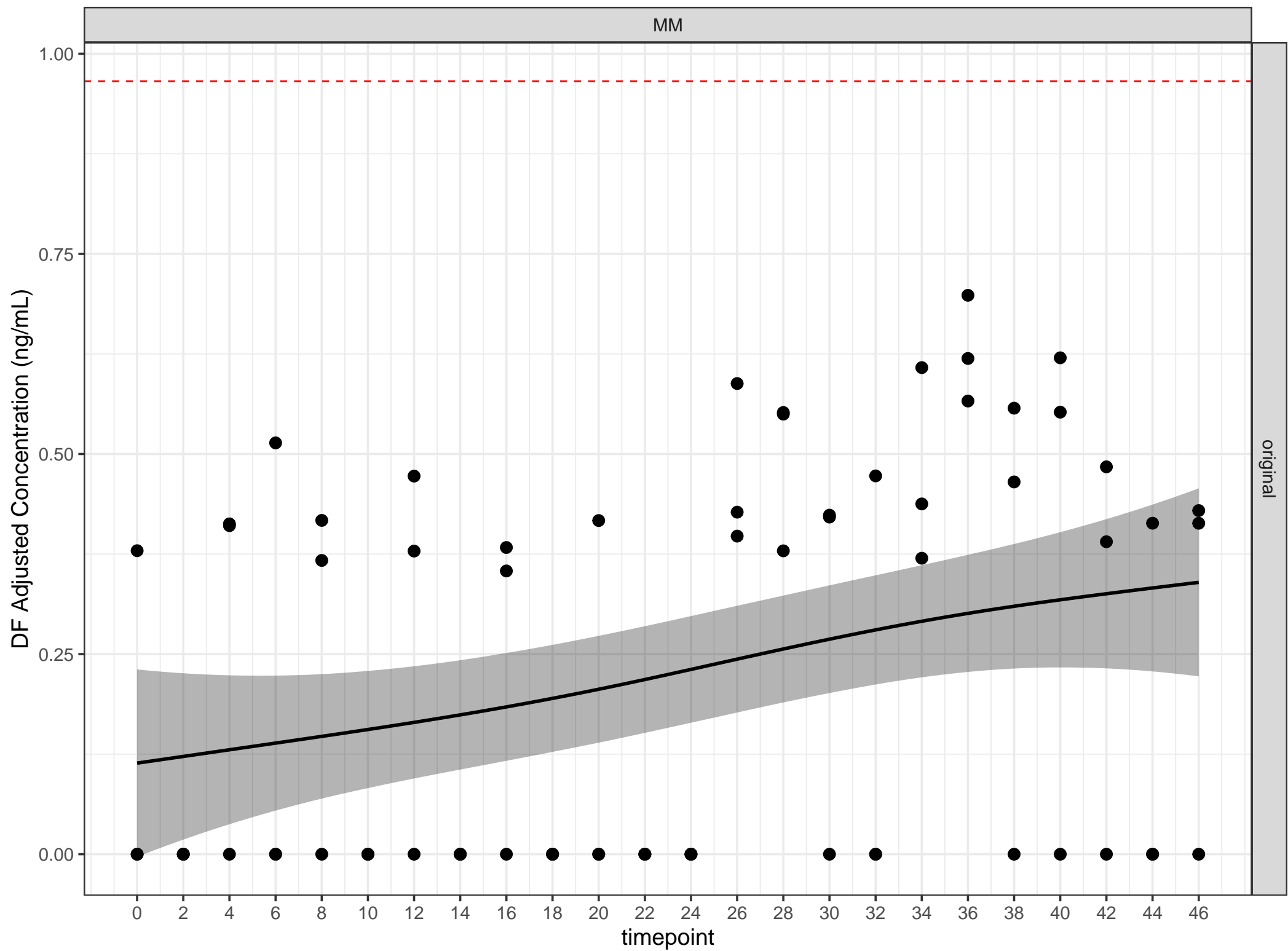


4-hydroxybenzoic acid

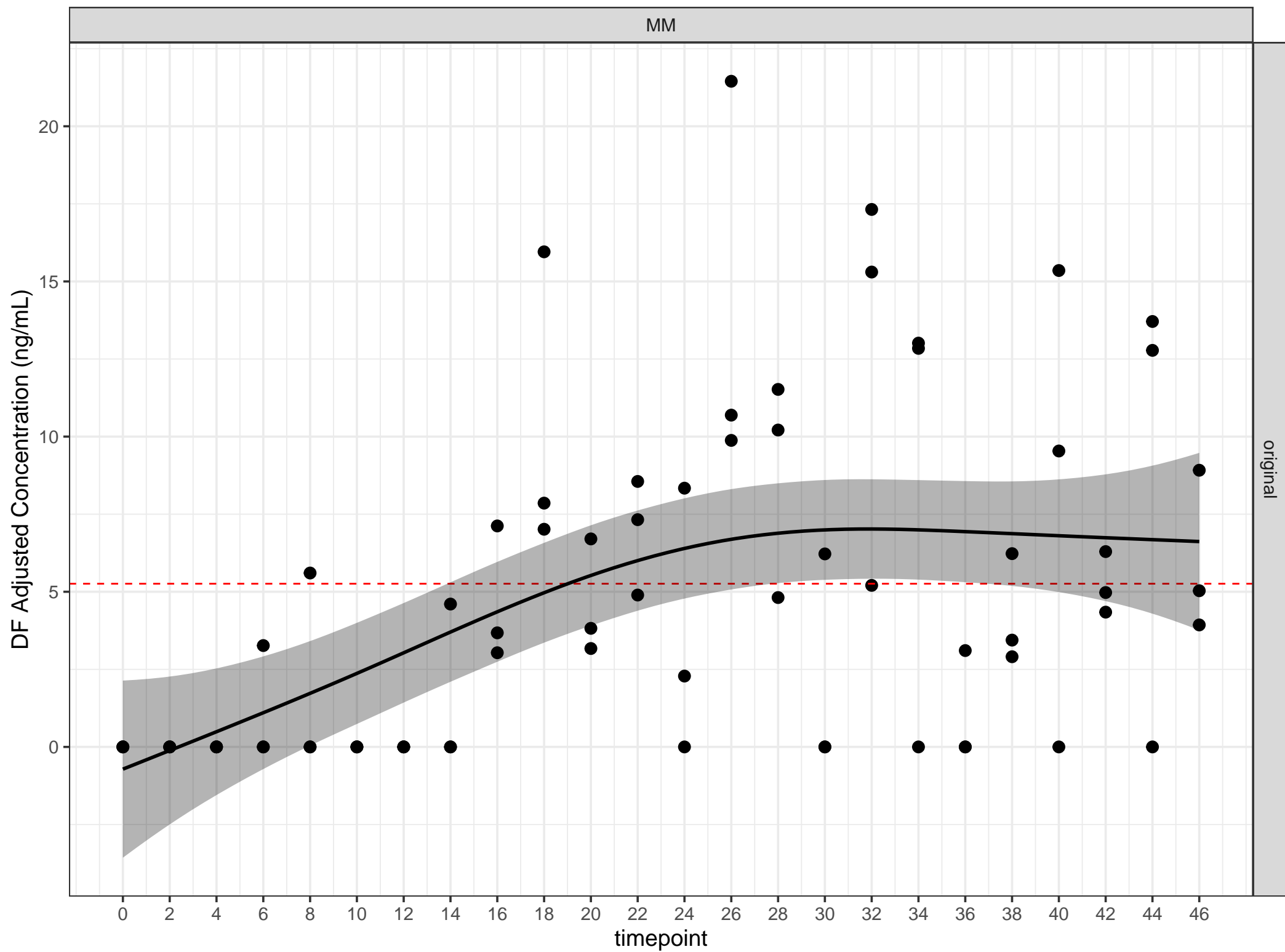


# 4-methyl-2-oxopentanoic acid

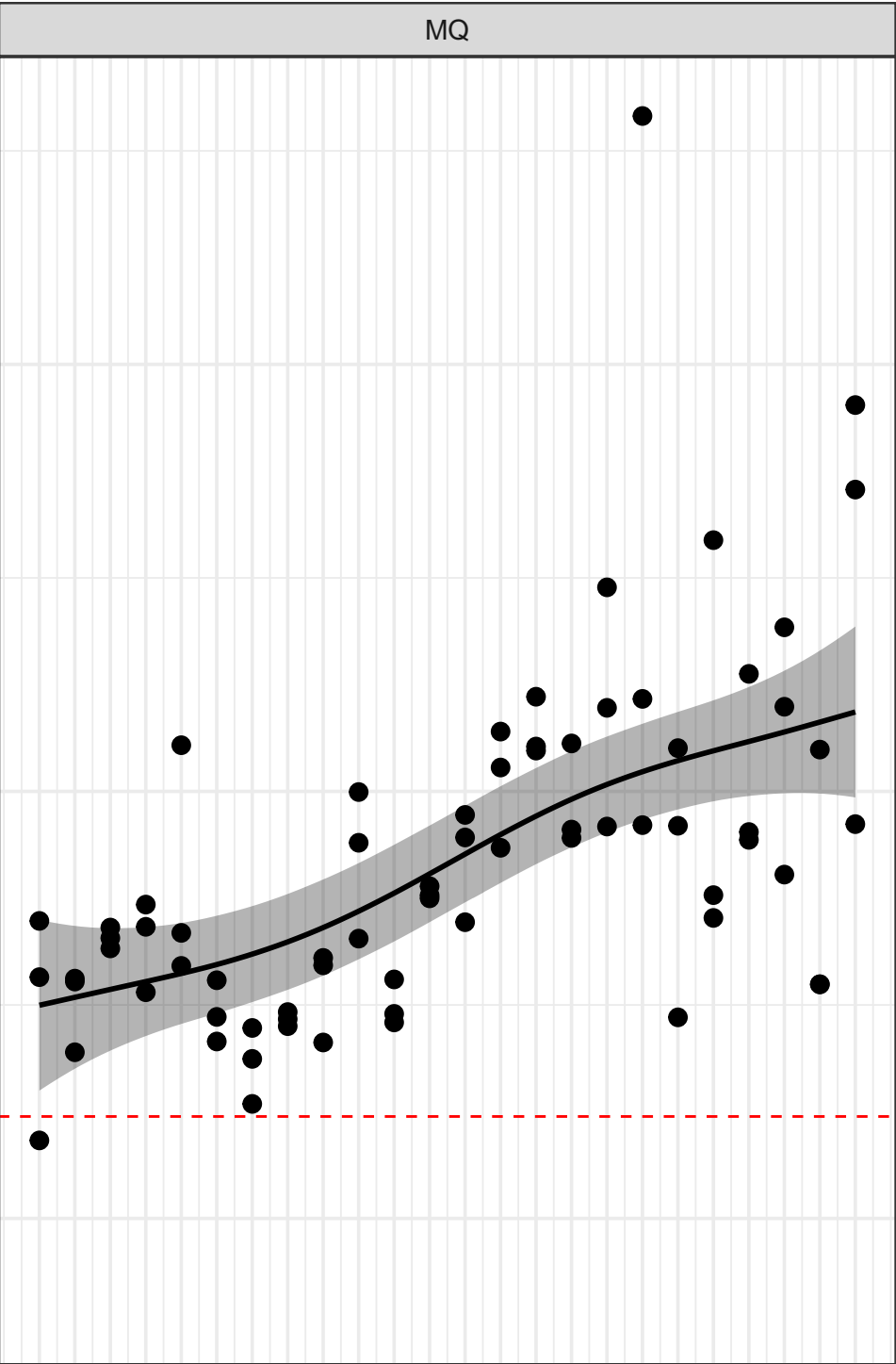
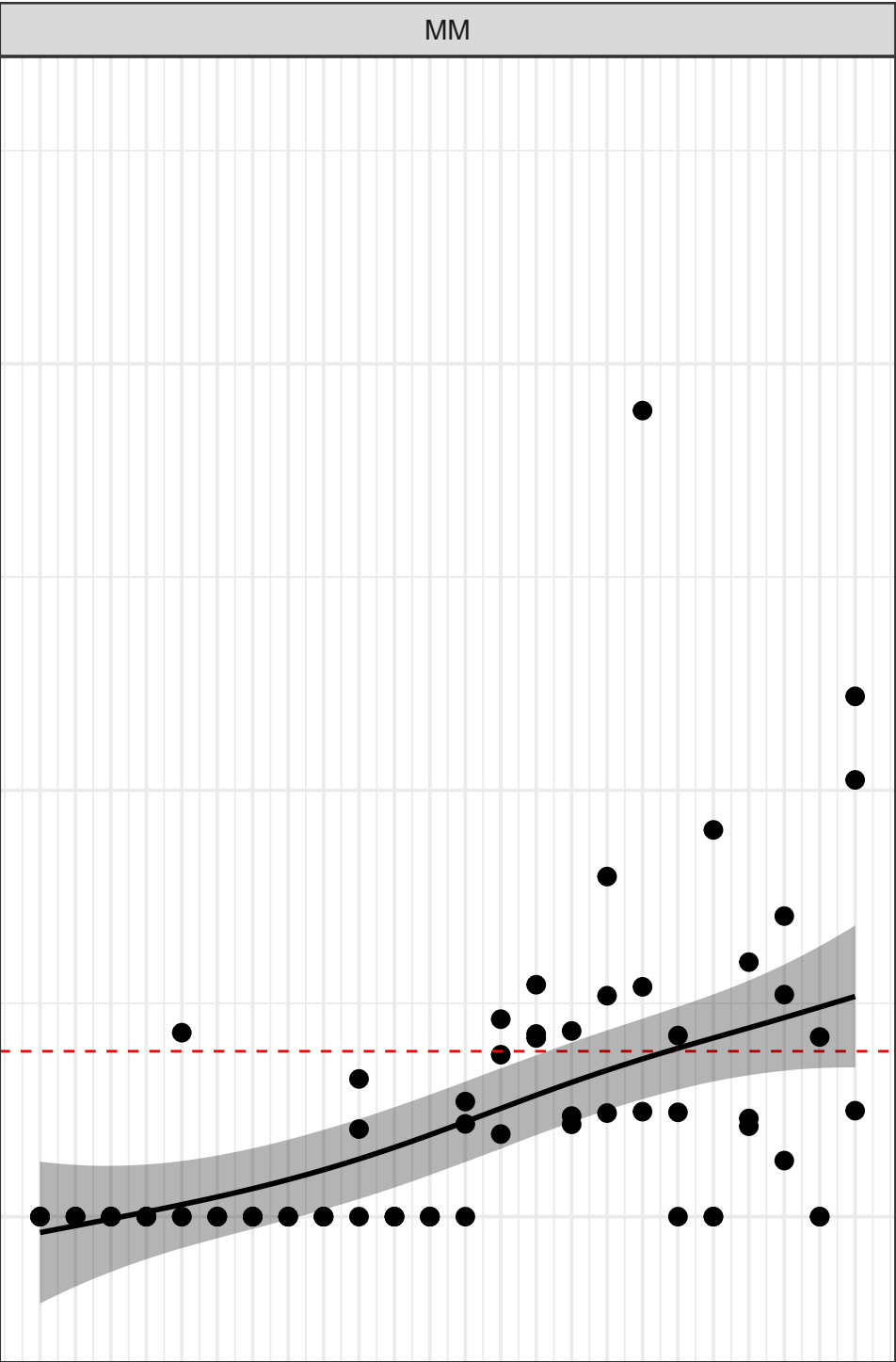




AmMP



MTA



NAD

DF Adjusted Concentration (ng/mL)

MM

MQ

df10x

original

3000

2000

1000

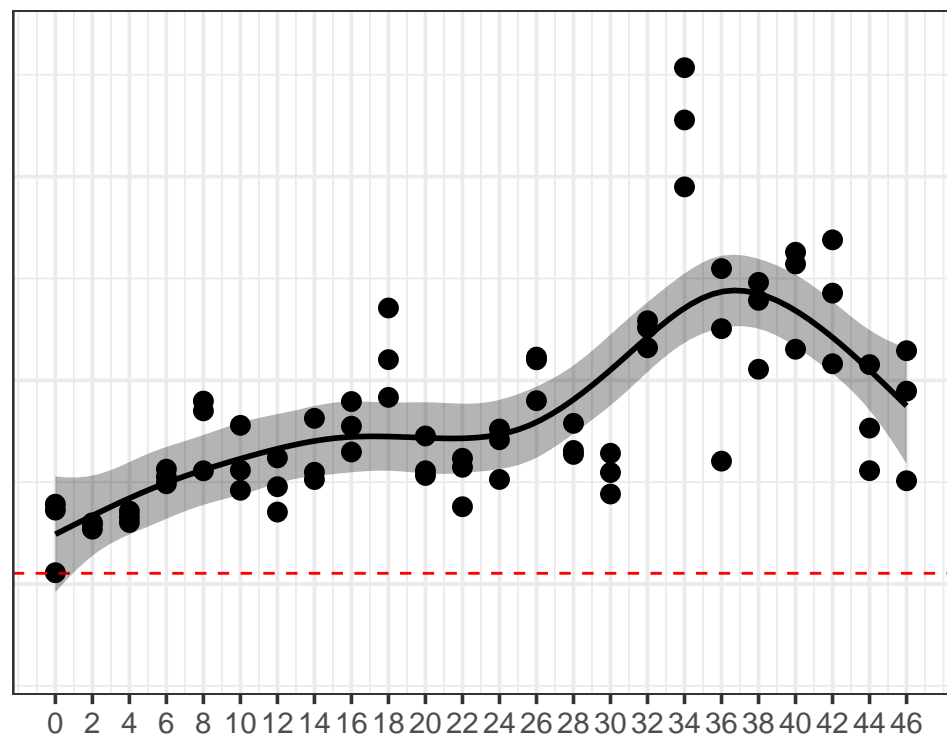
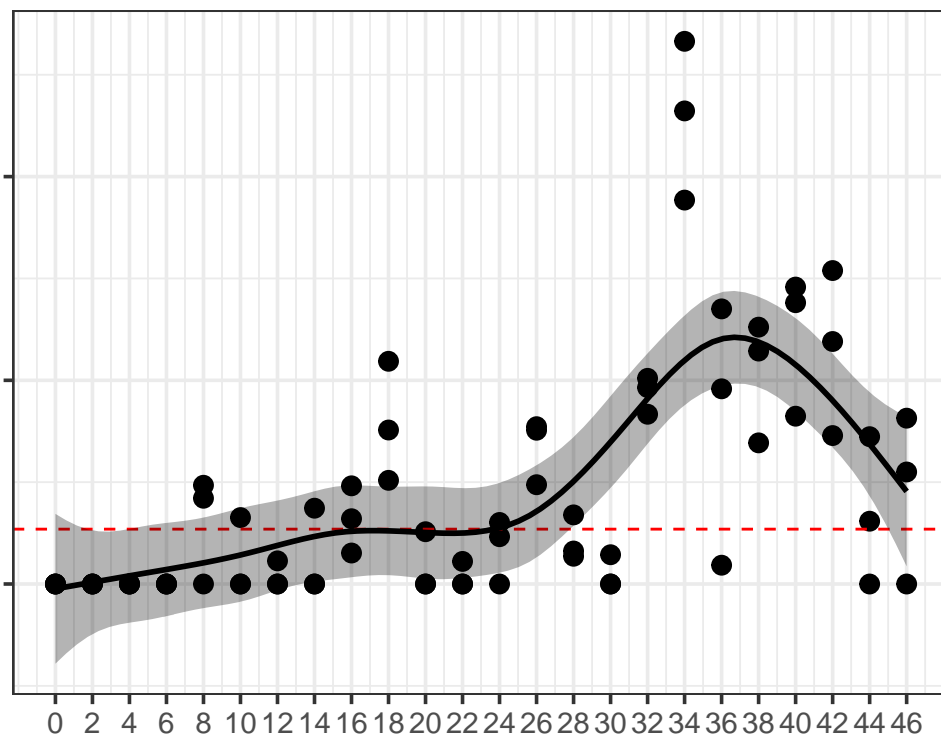
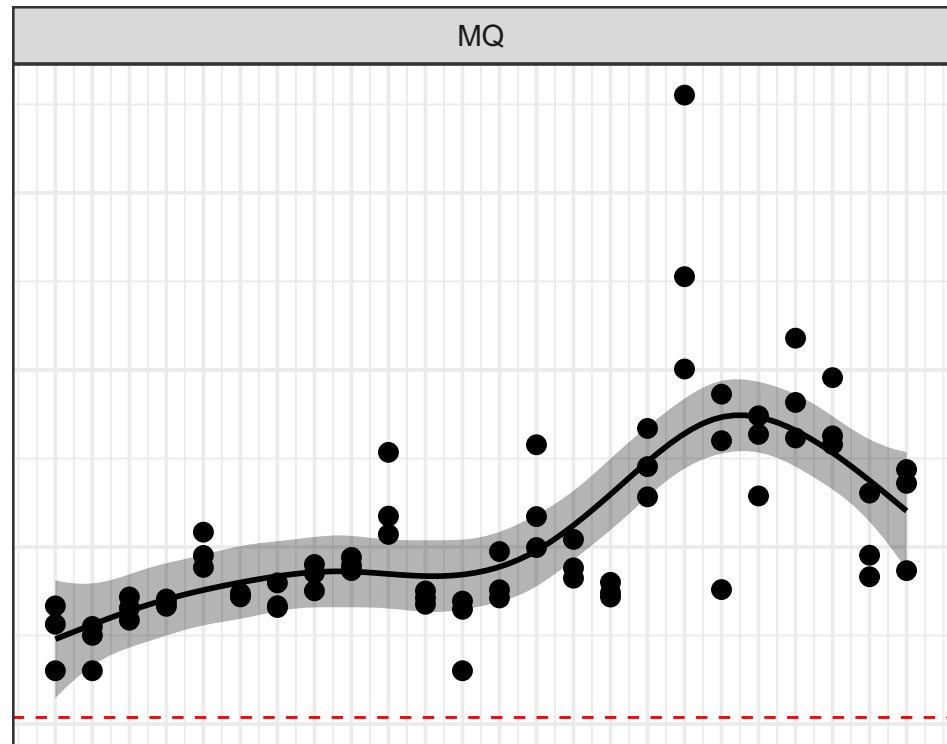
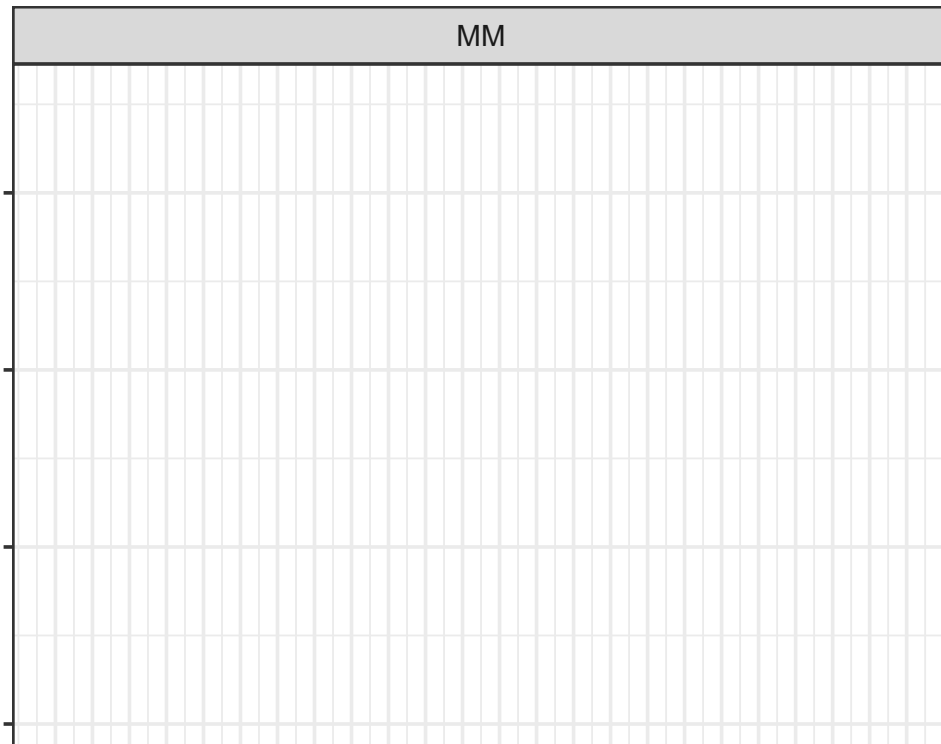
0

2000

1000

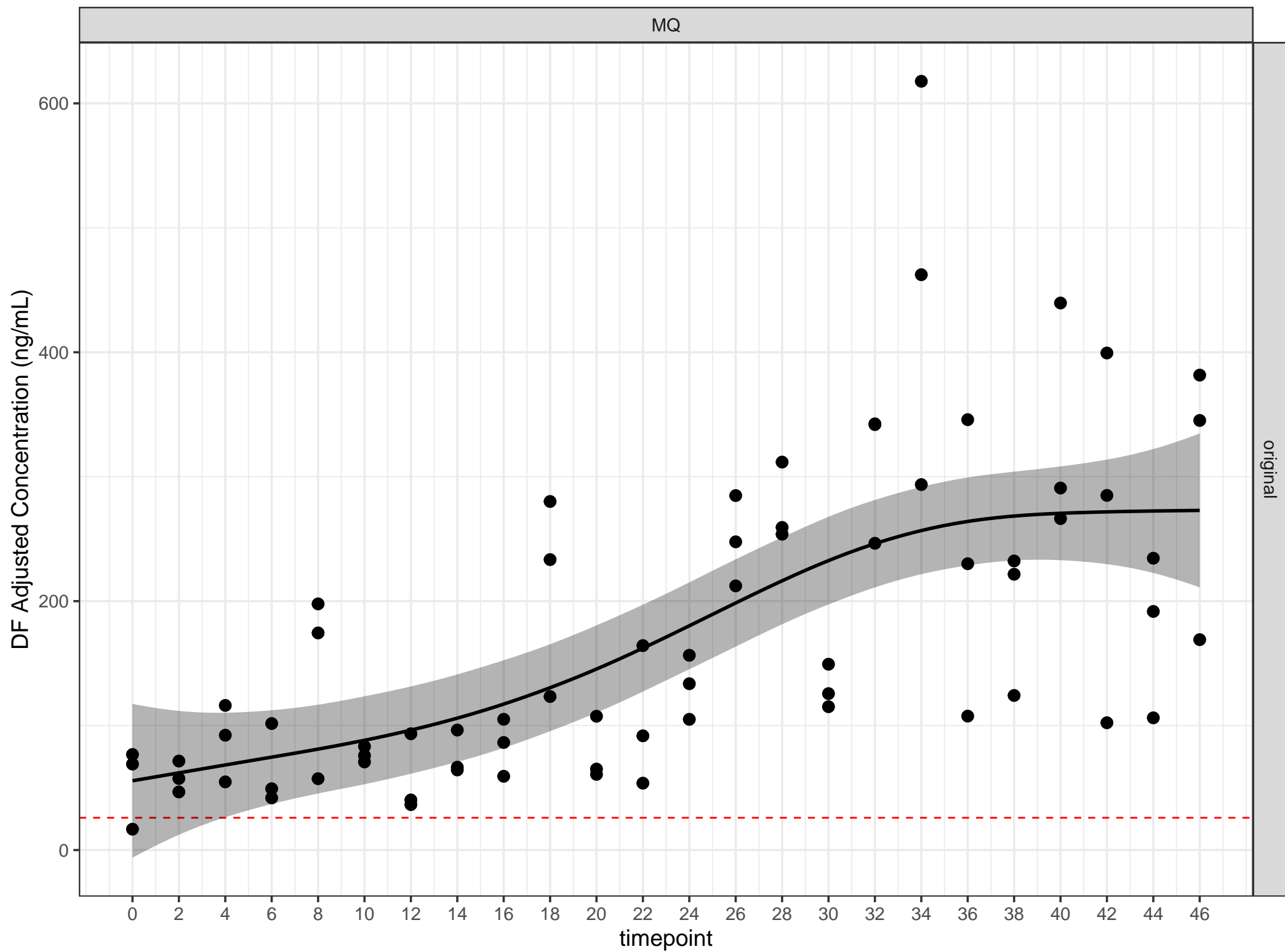
0

timepoint

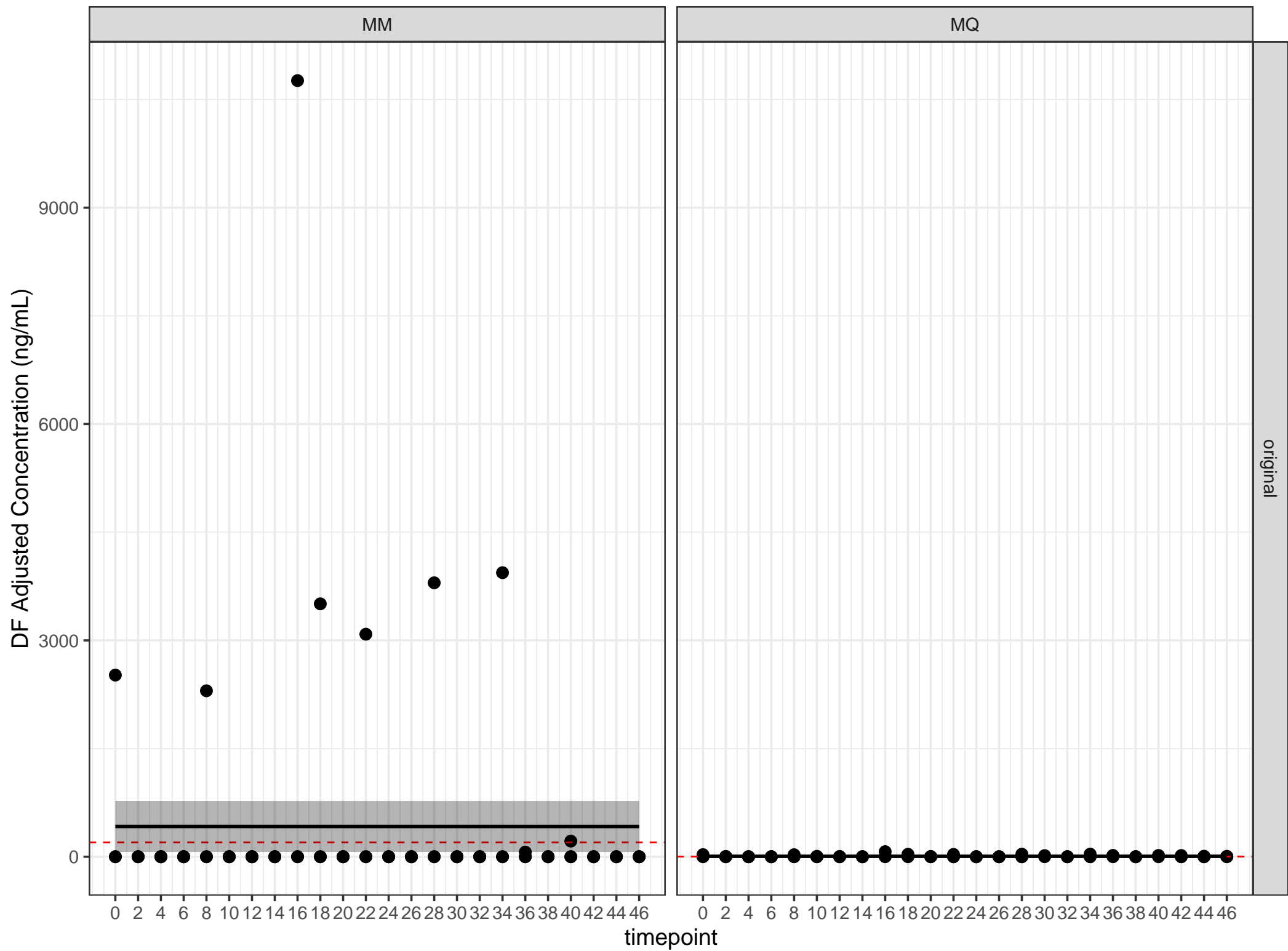




NADP



T\_90to27



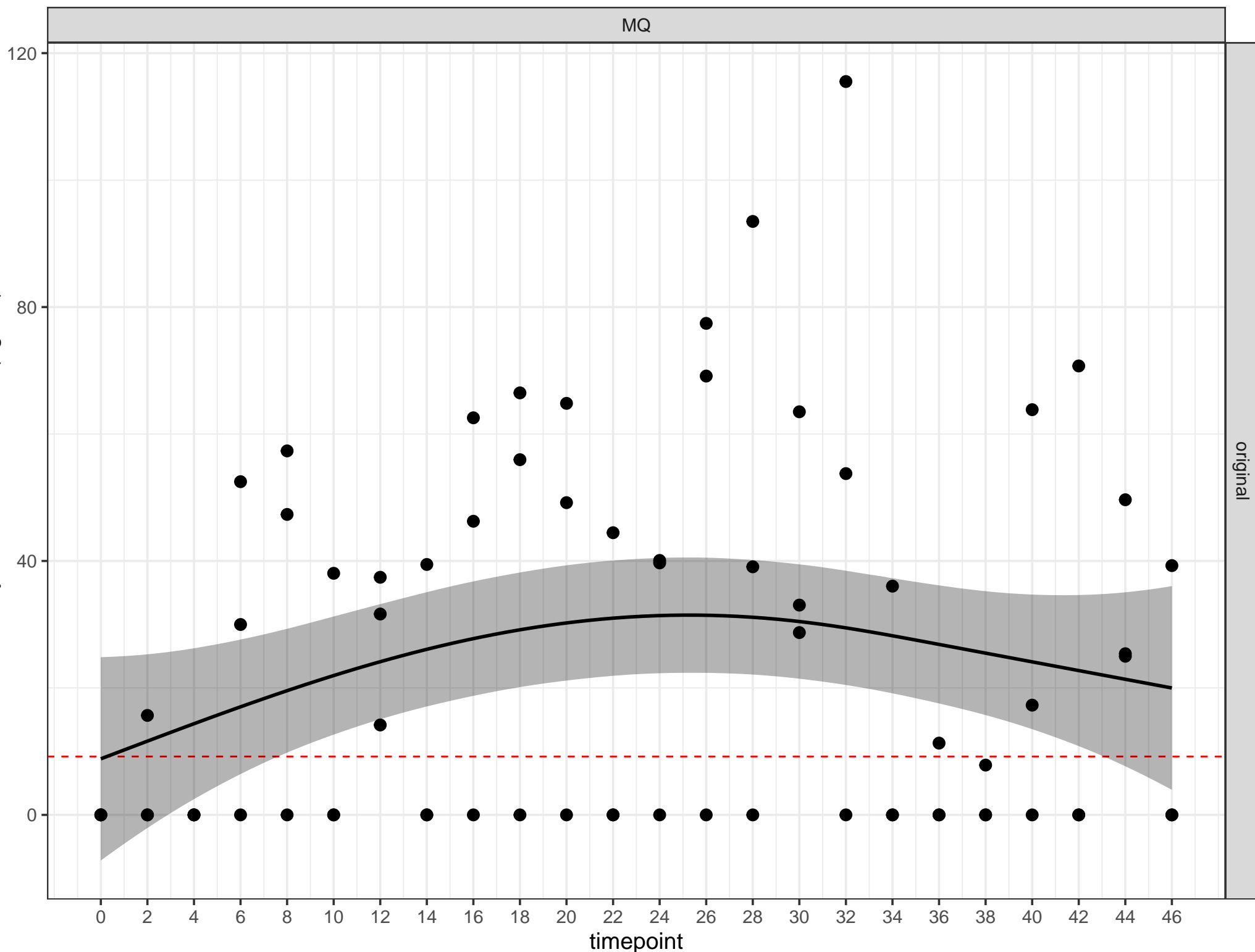
T\_90to30

DF Adjusted Concentration (ng/mL)

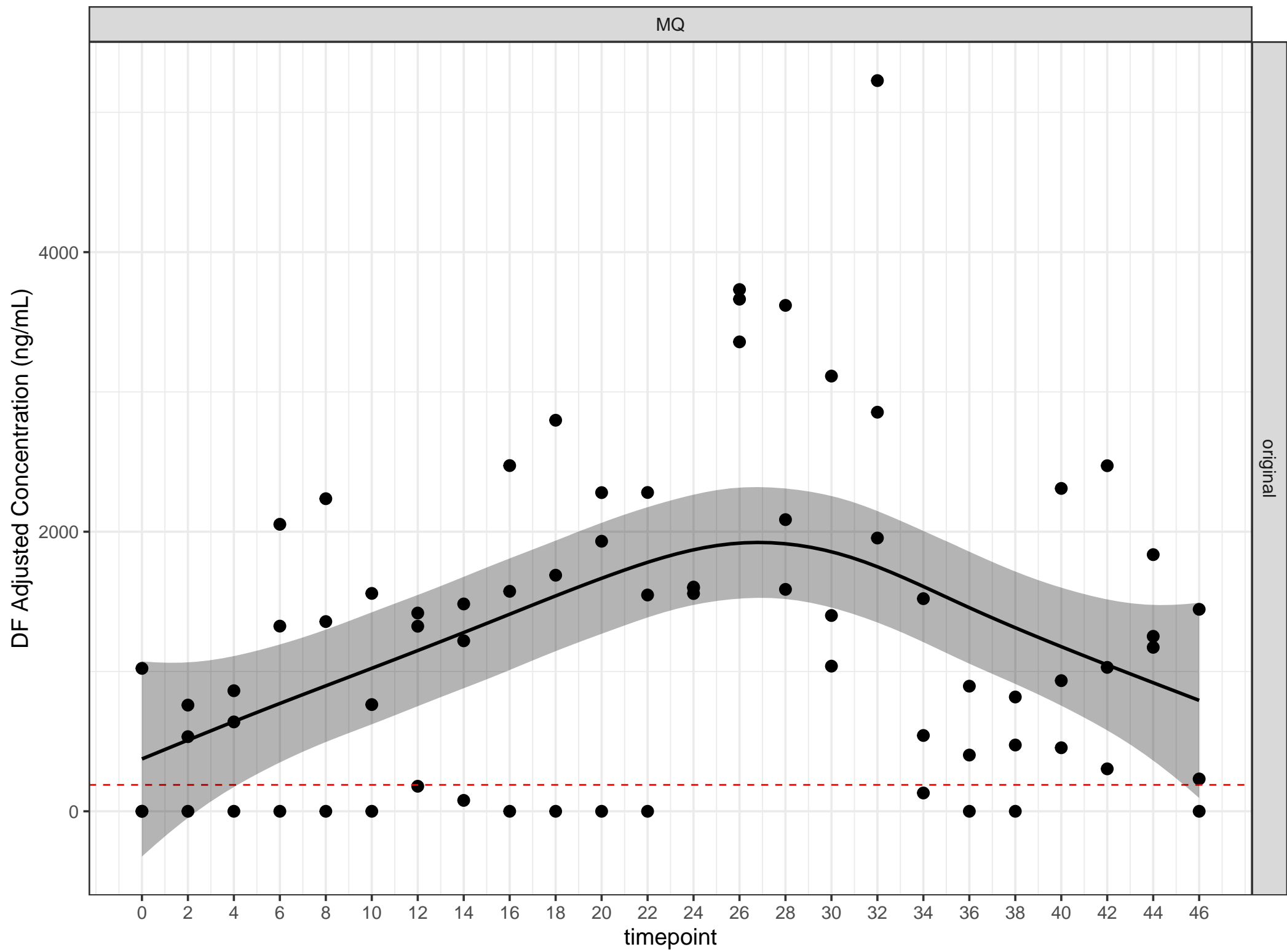
MQ

original

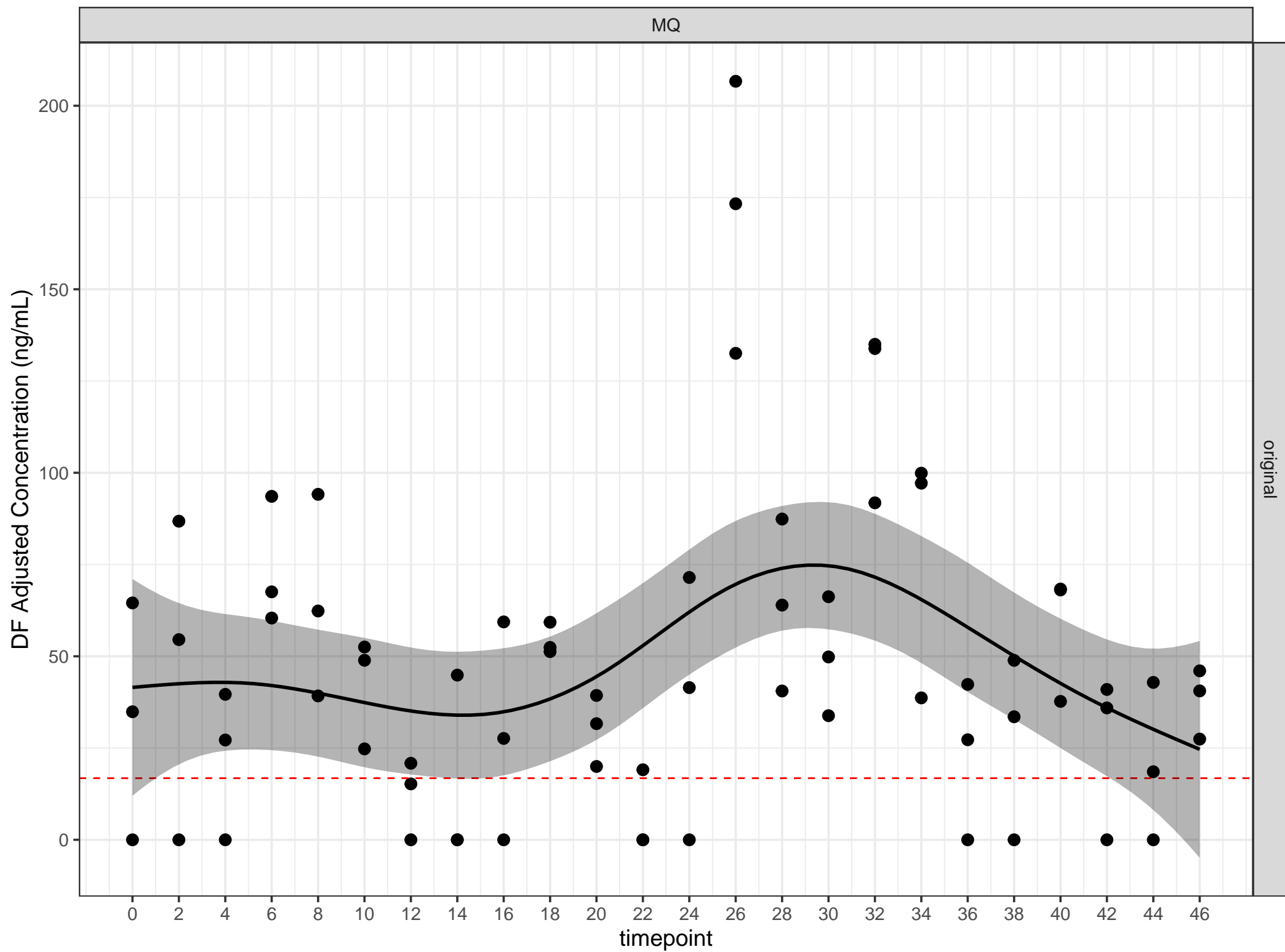
timepoint



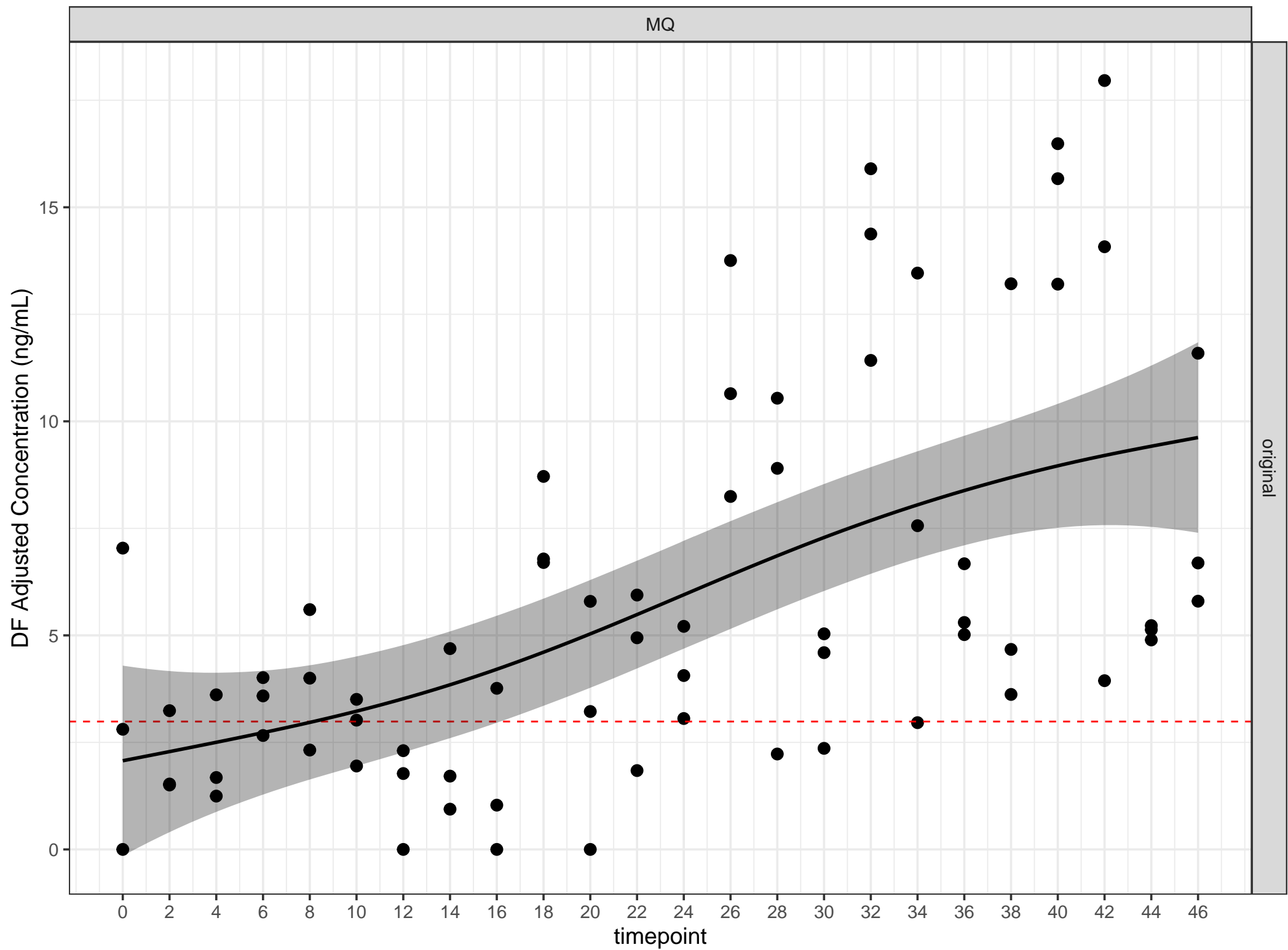
T\_90to62



# UDP-glucose



adenine pos



## adenosine 5'-monophosphate pos

DF Adjusted Concentration (ng/mL)

MM

MQ

df10x

df500x

original

1500

1000

500

0

1000

500

0

4000

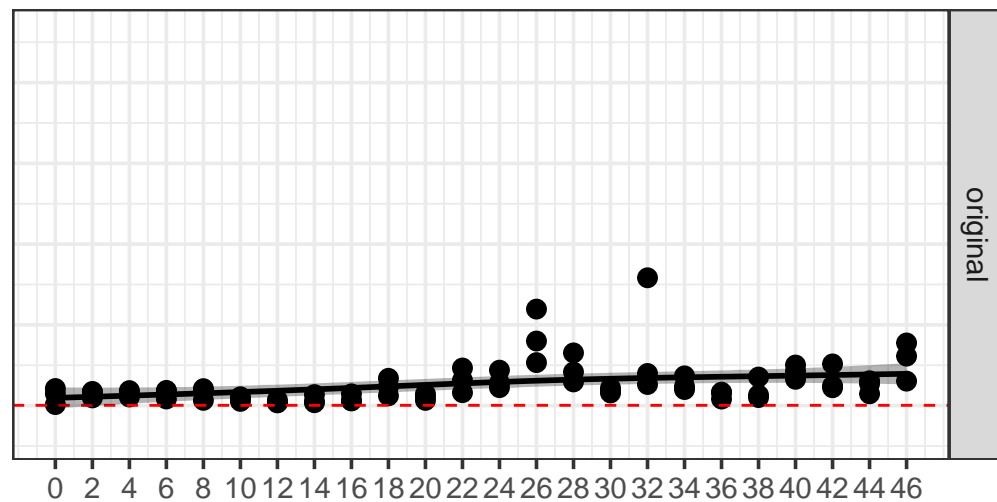
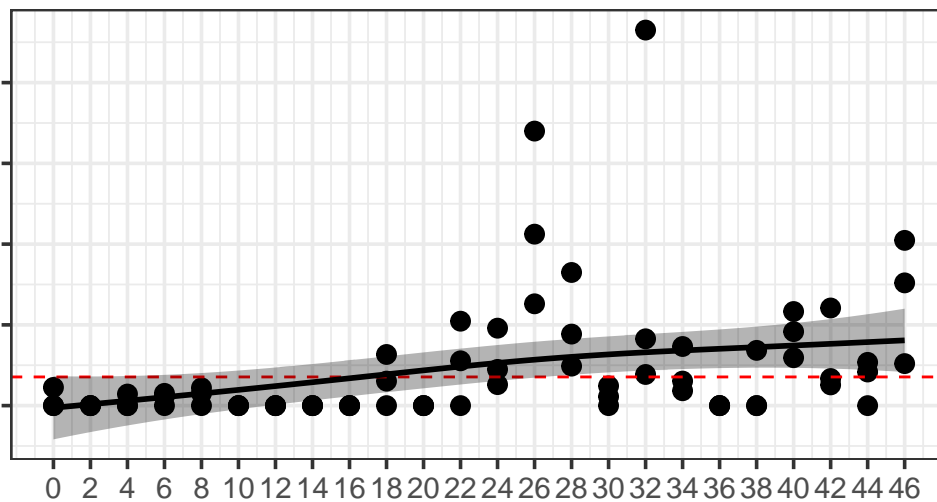
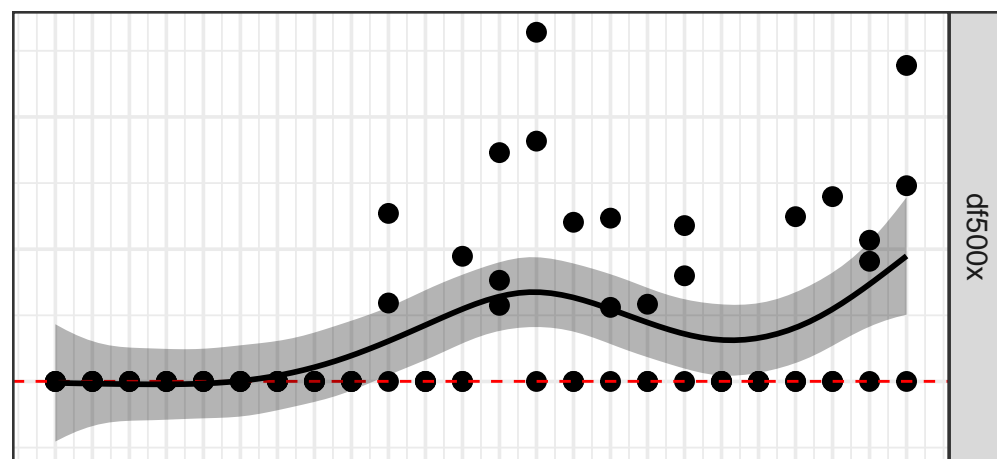
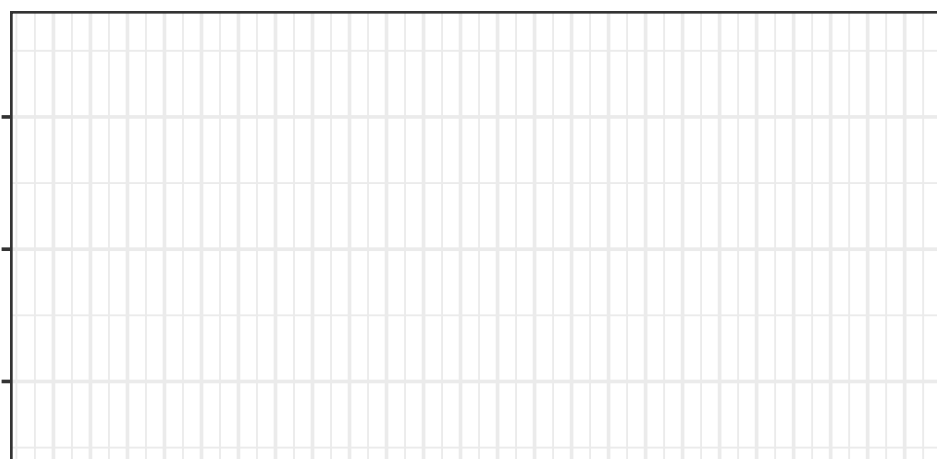
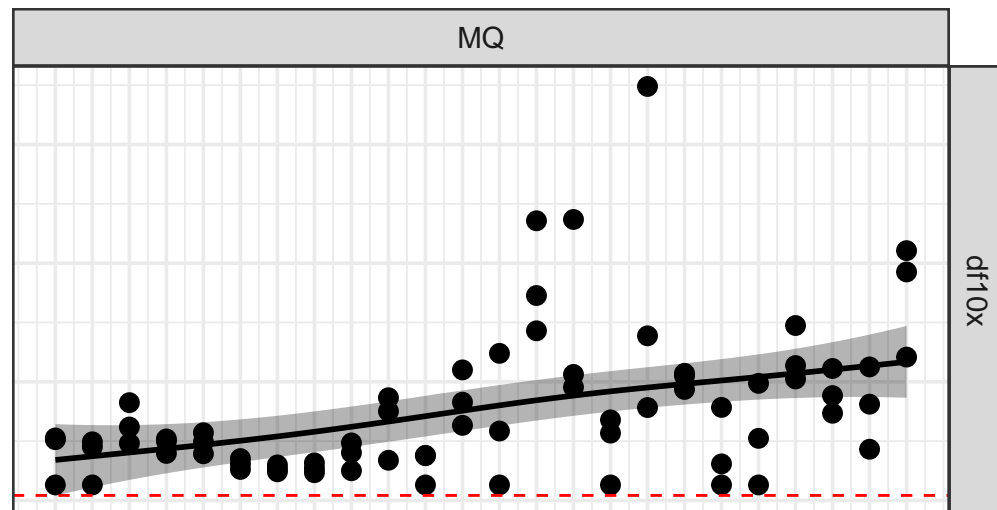
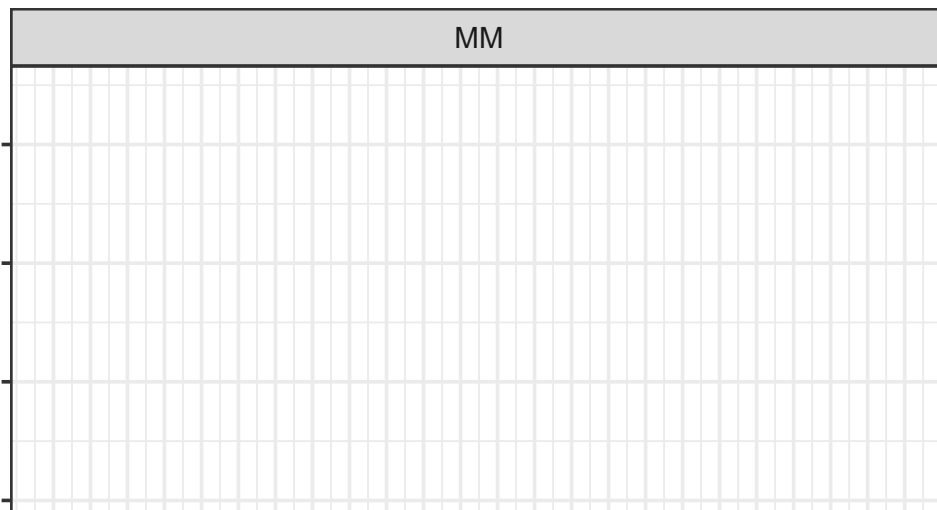
3000

2000

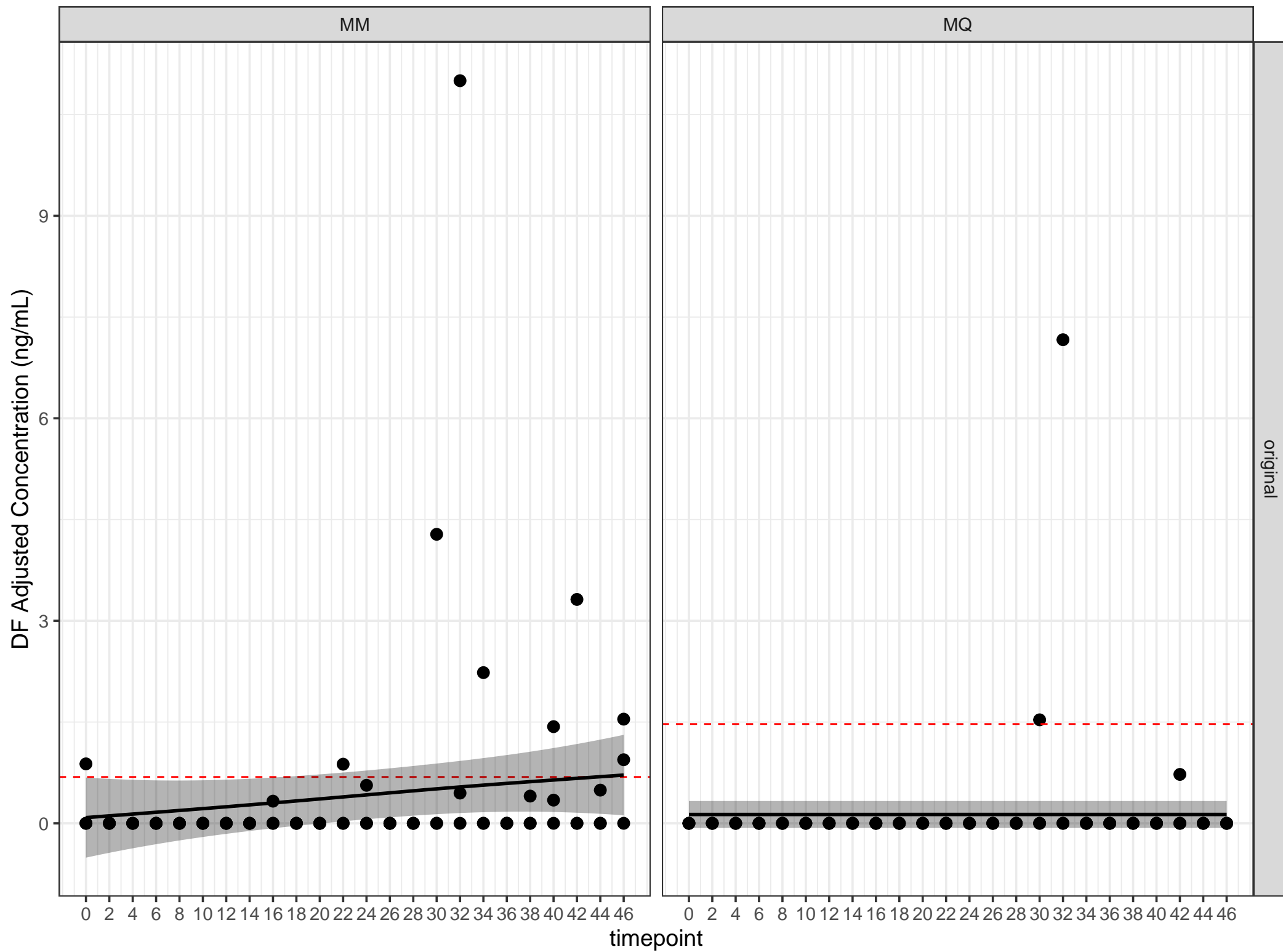
1000

0

timepoint

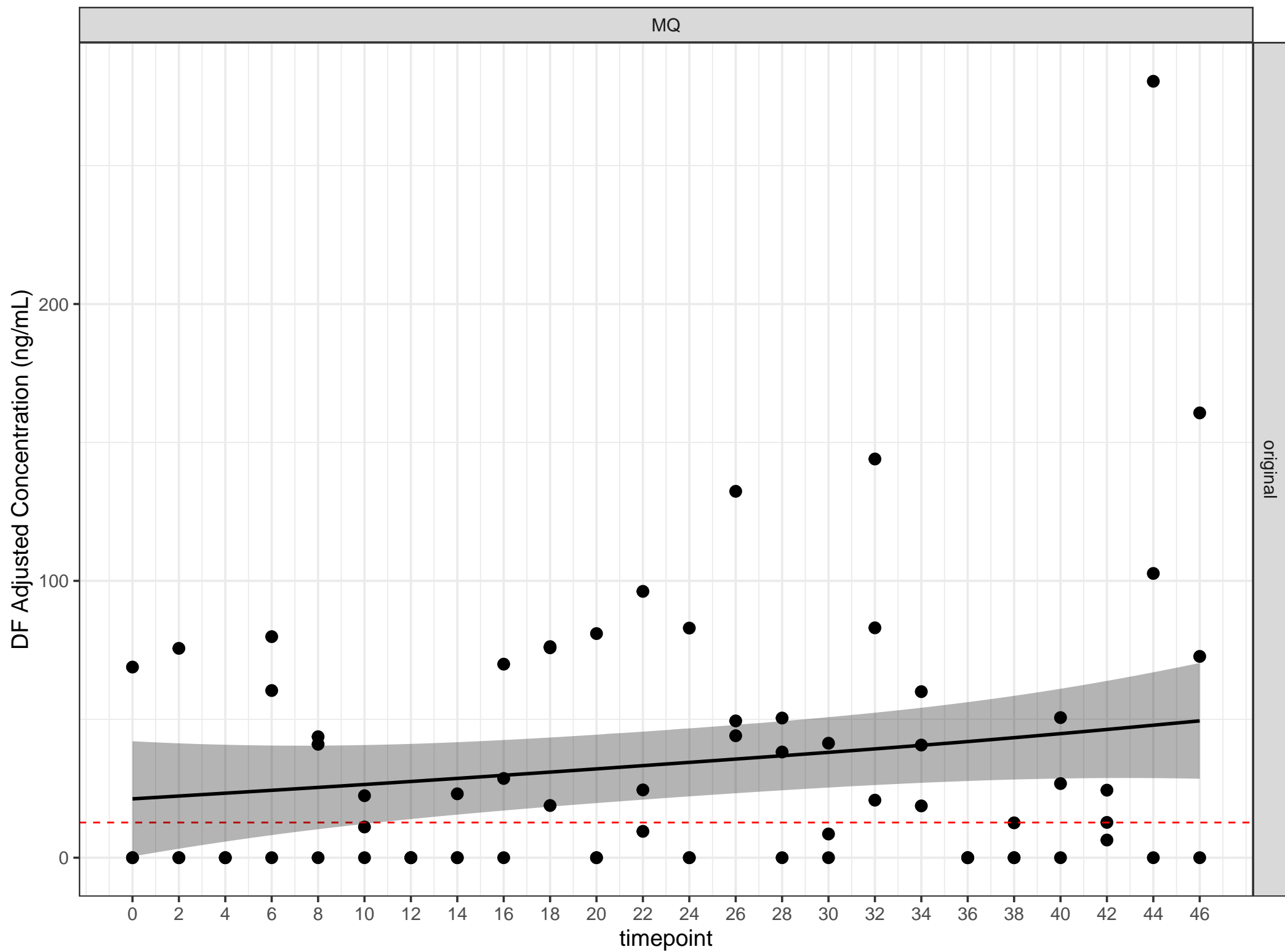


## adenosine pos

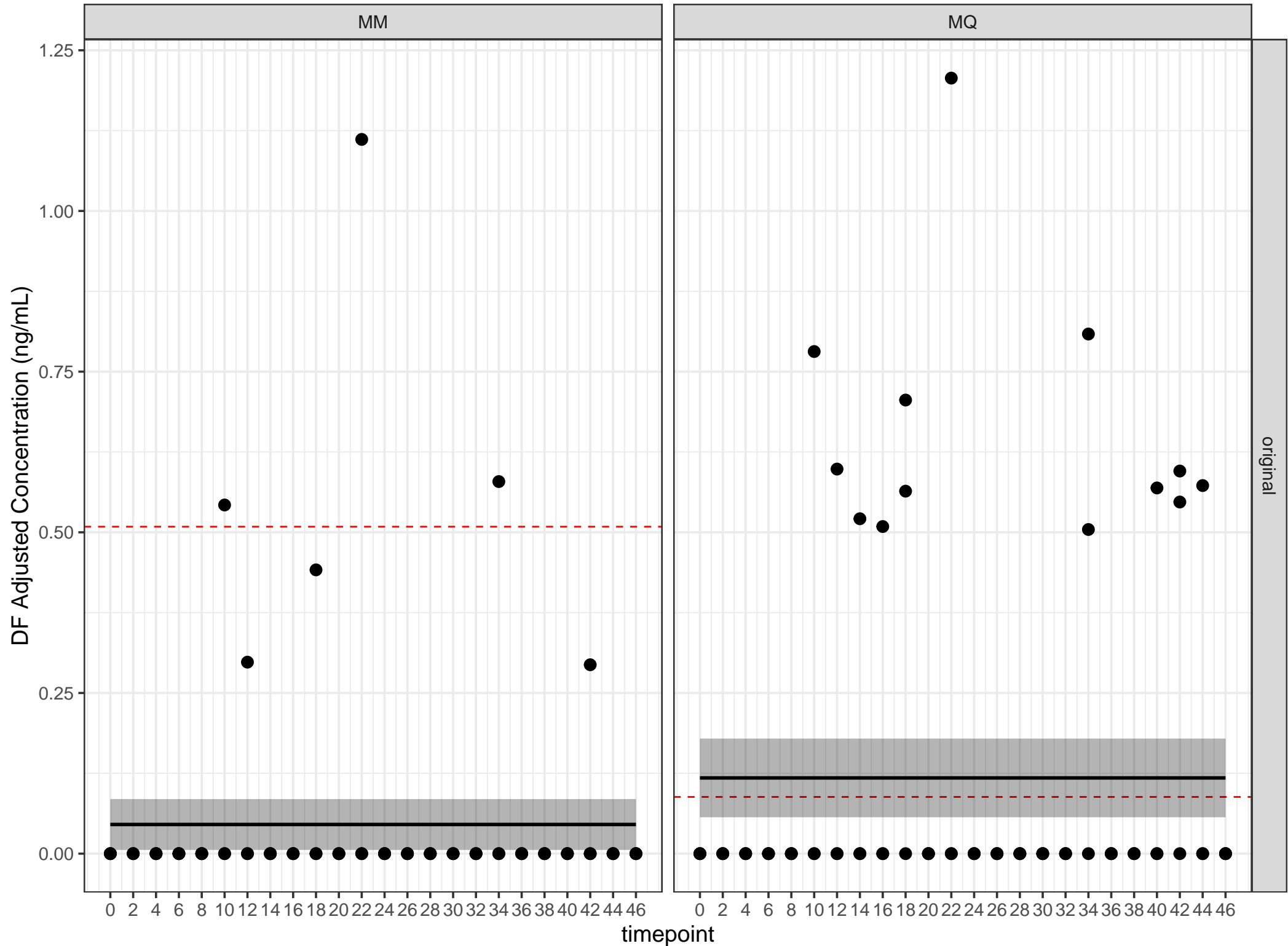




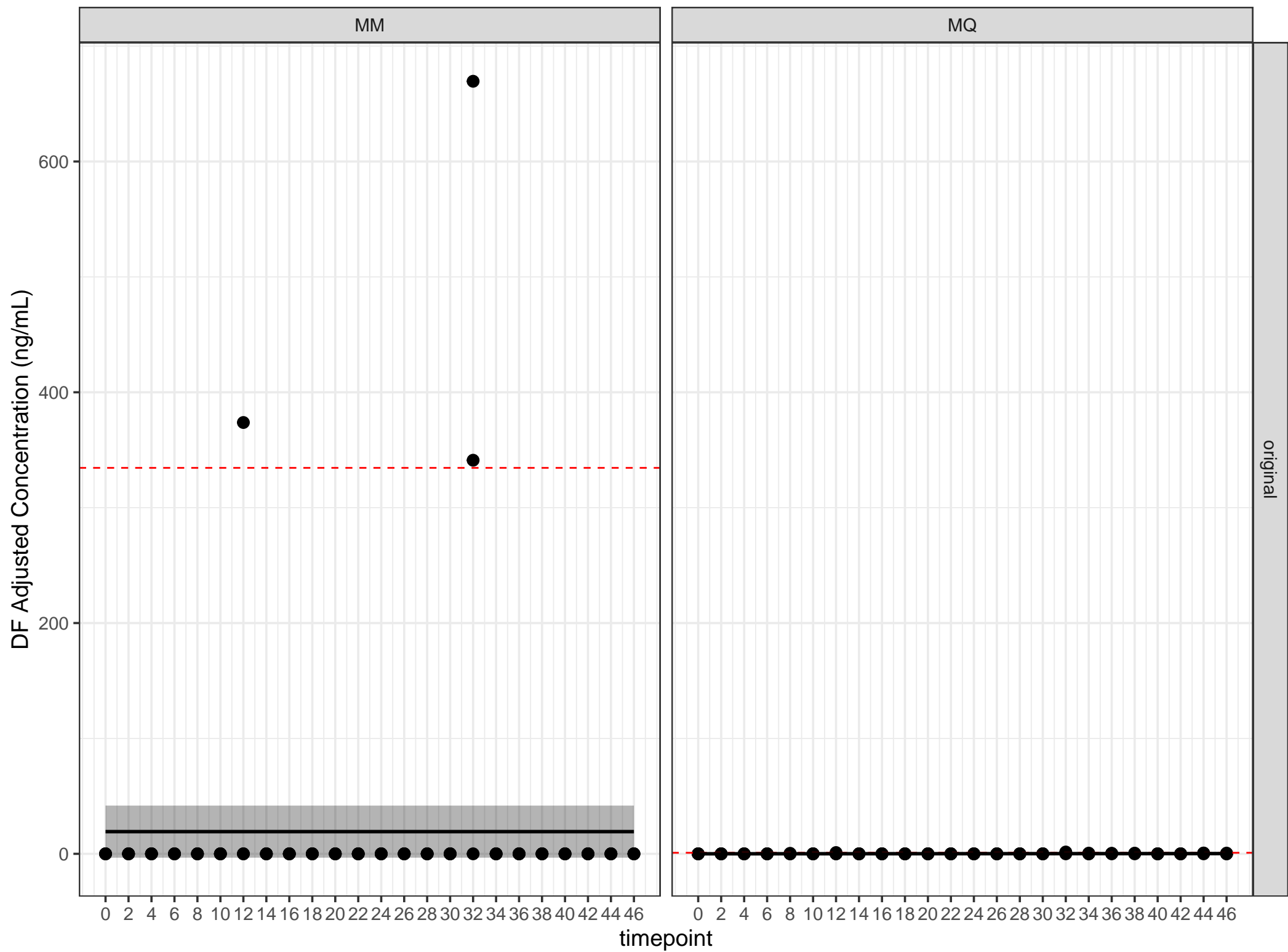
# alpha-ketoglutaric acid



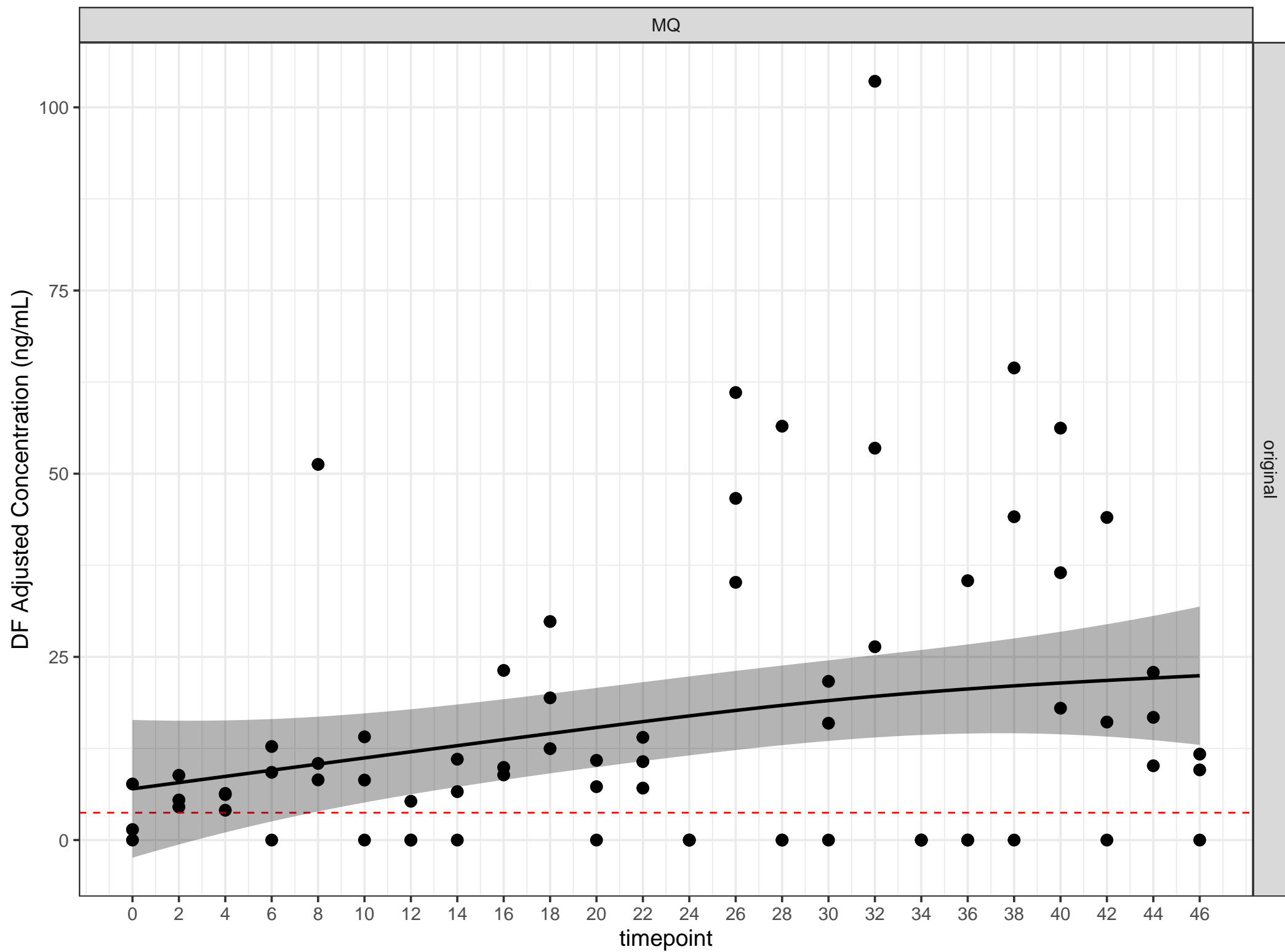
anthranilate



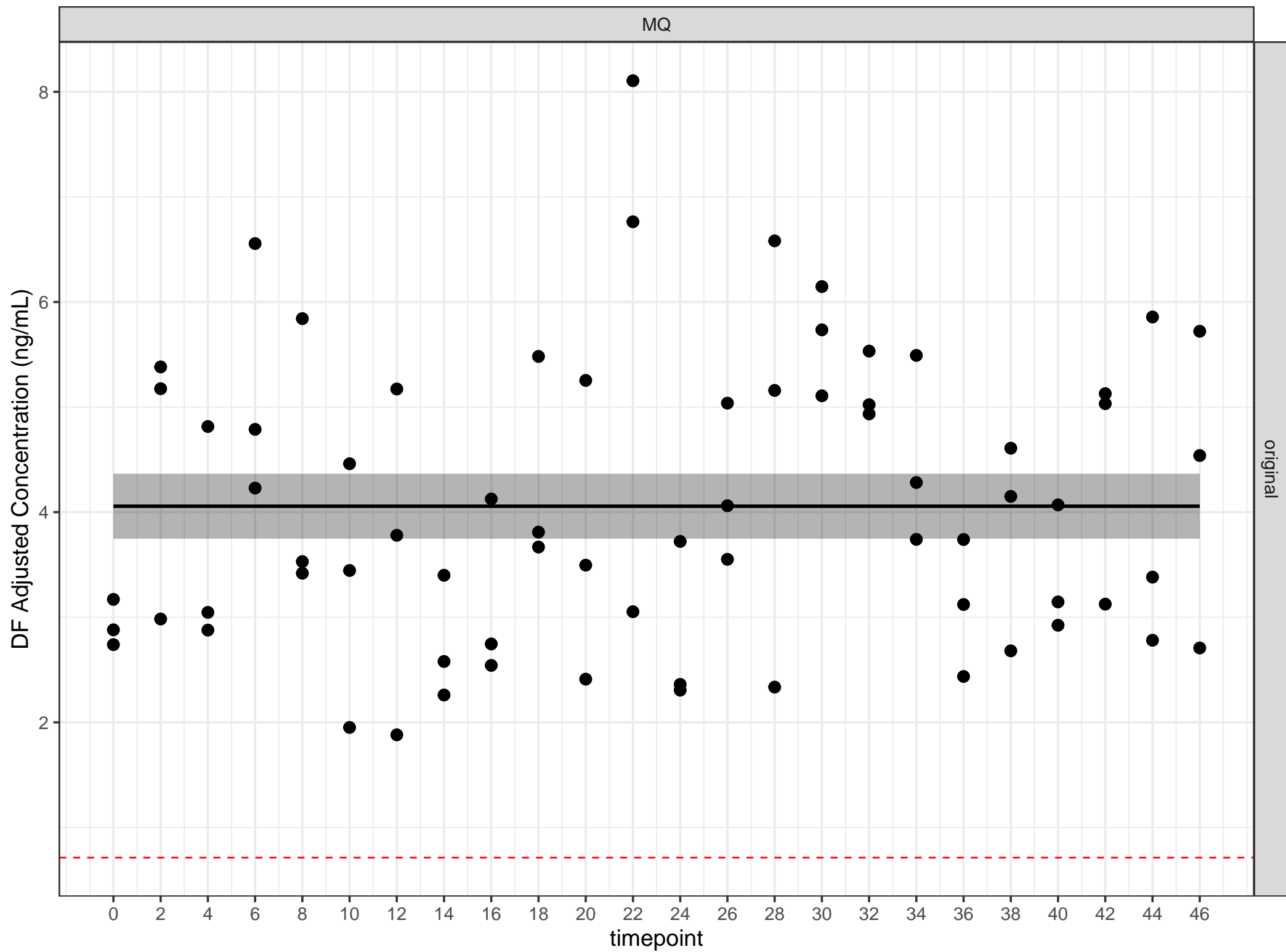
# arginosuccinic acid pos



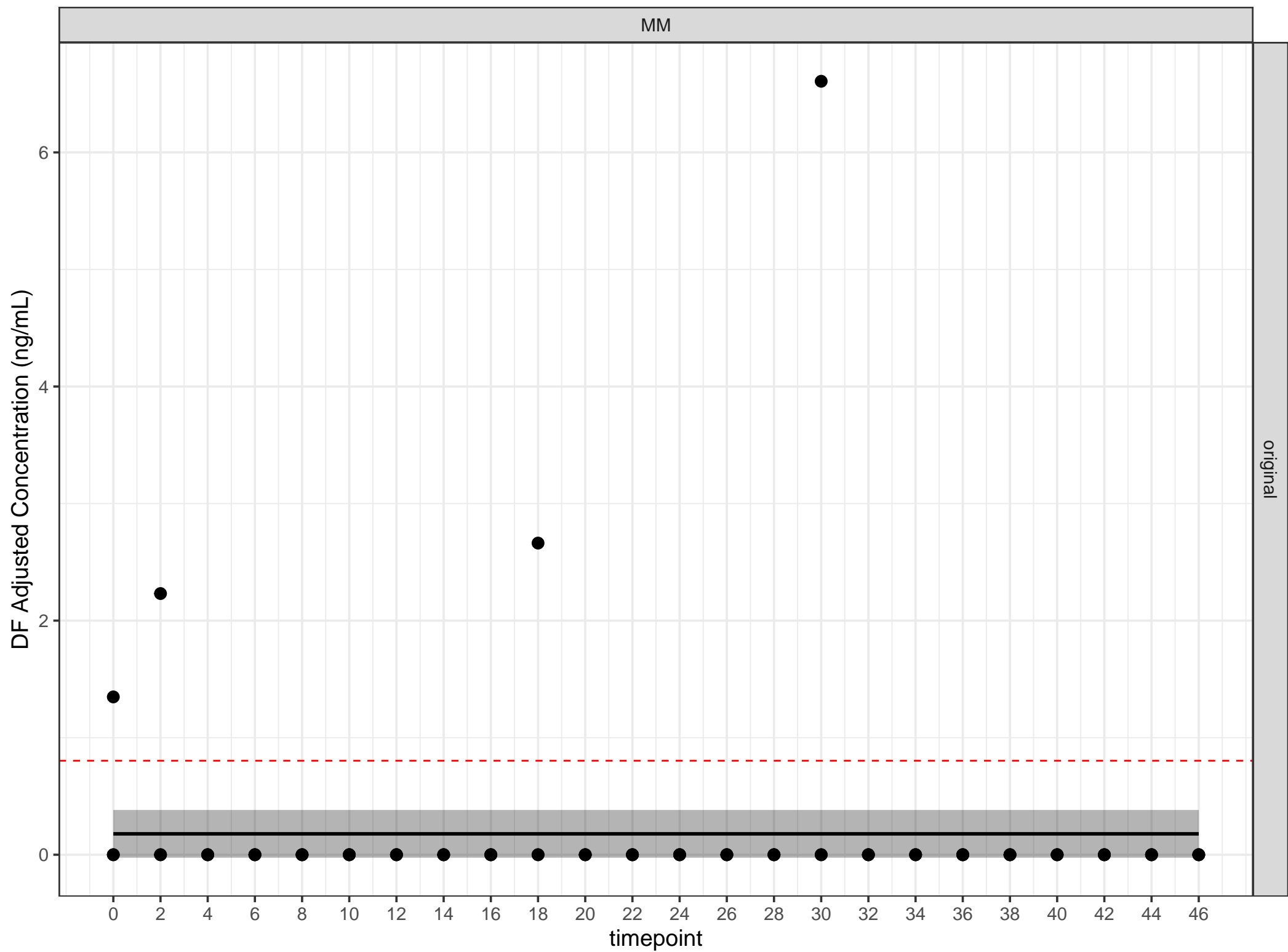
aspartic acid neg



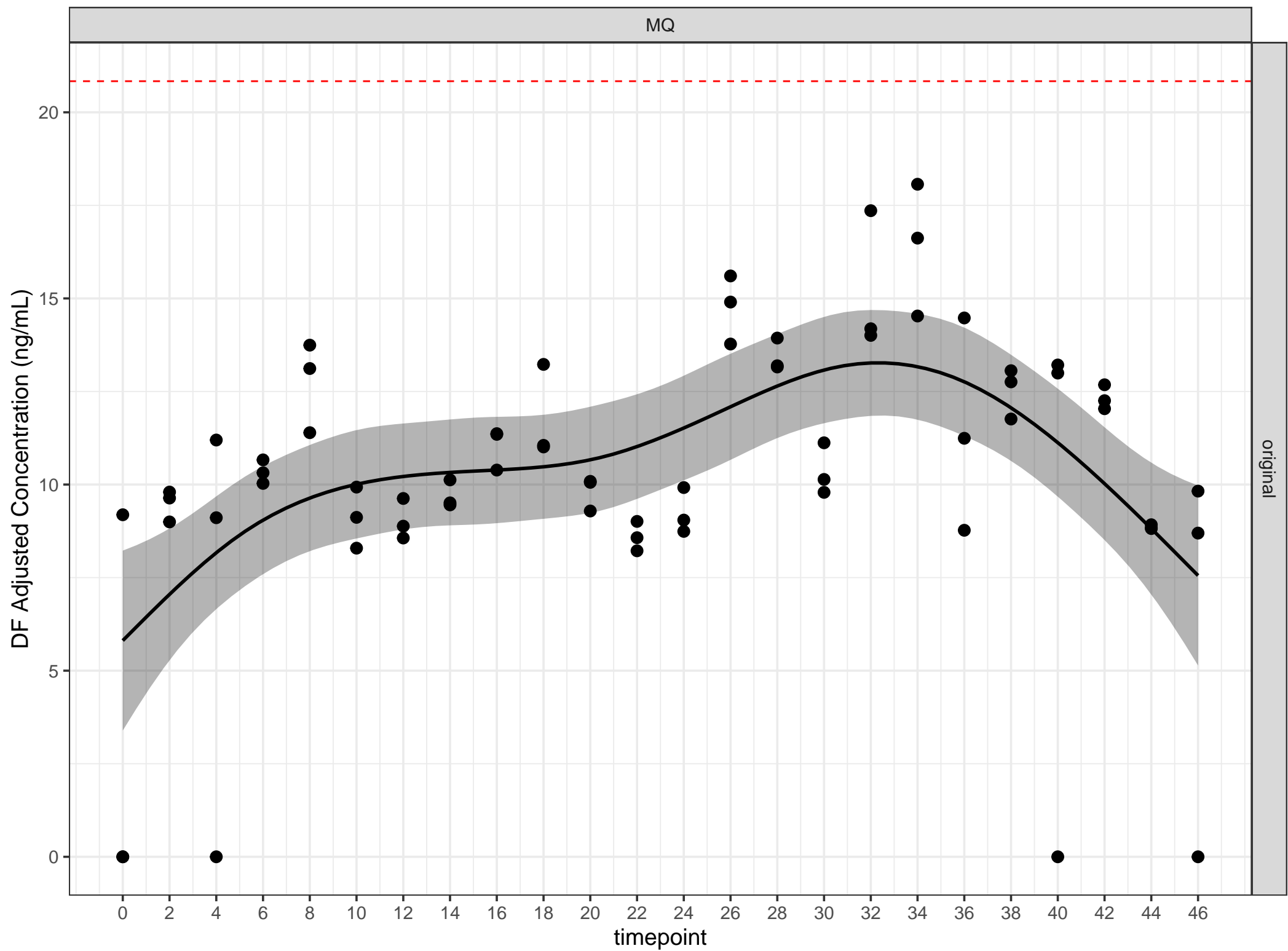
caffeine



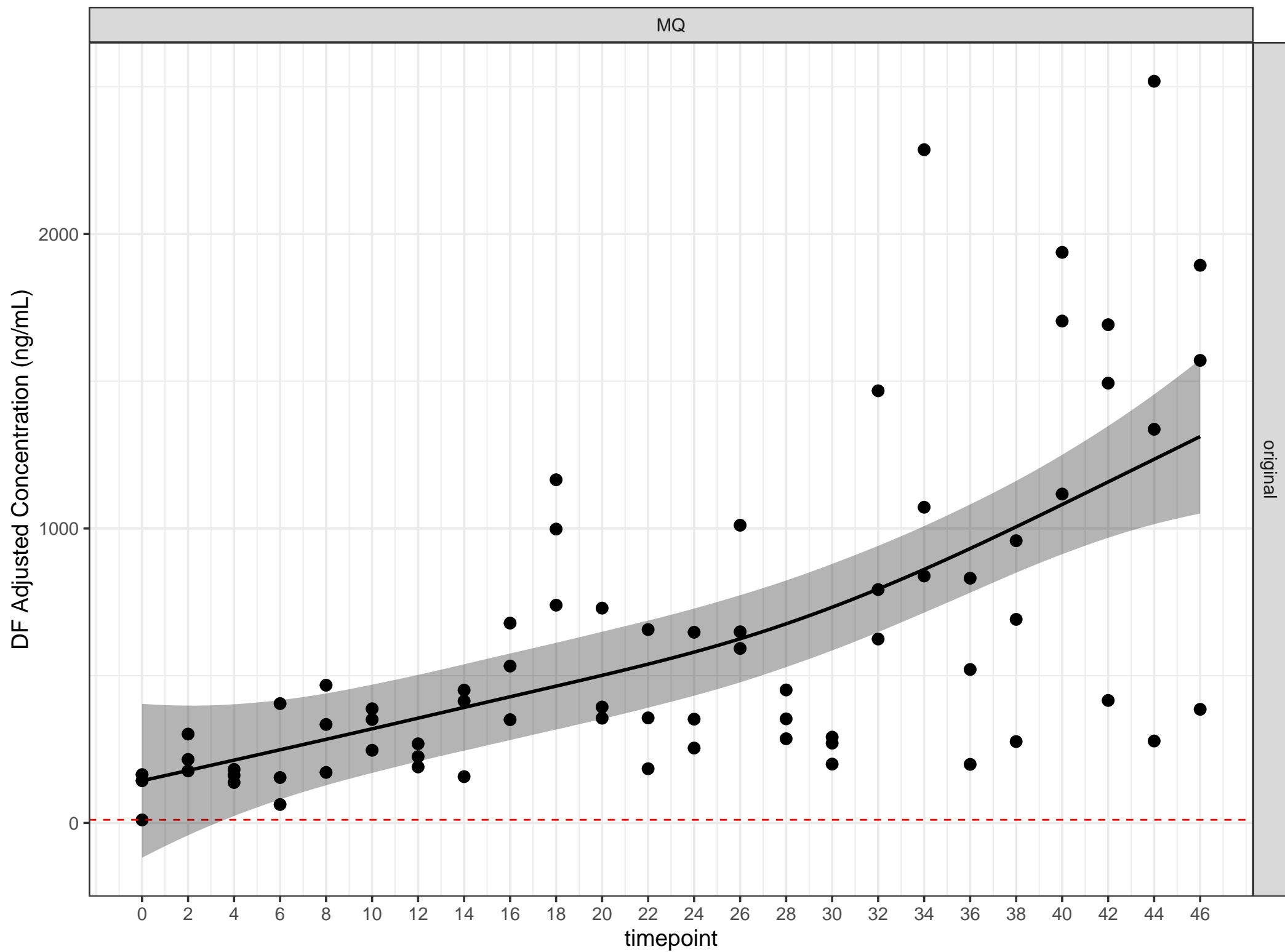
choline



chorismate

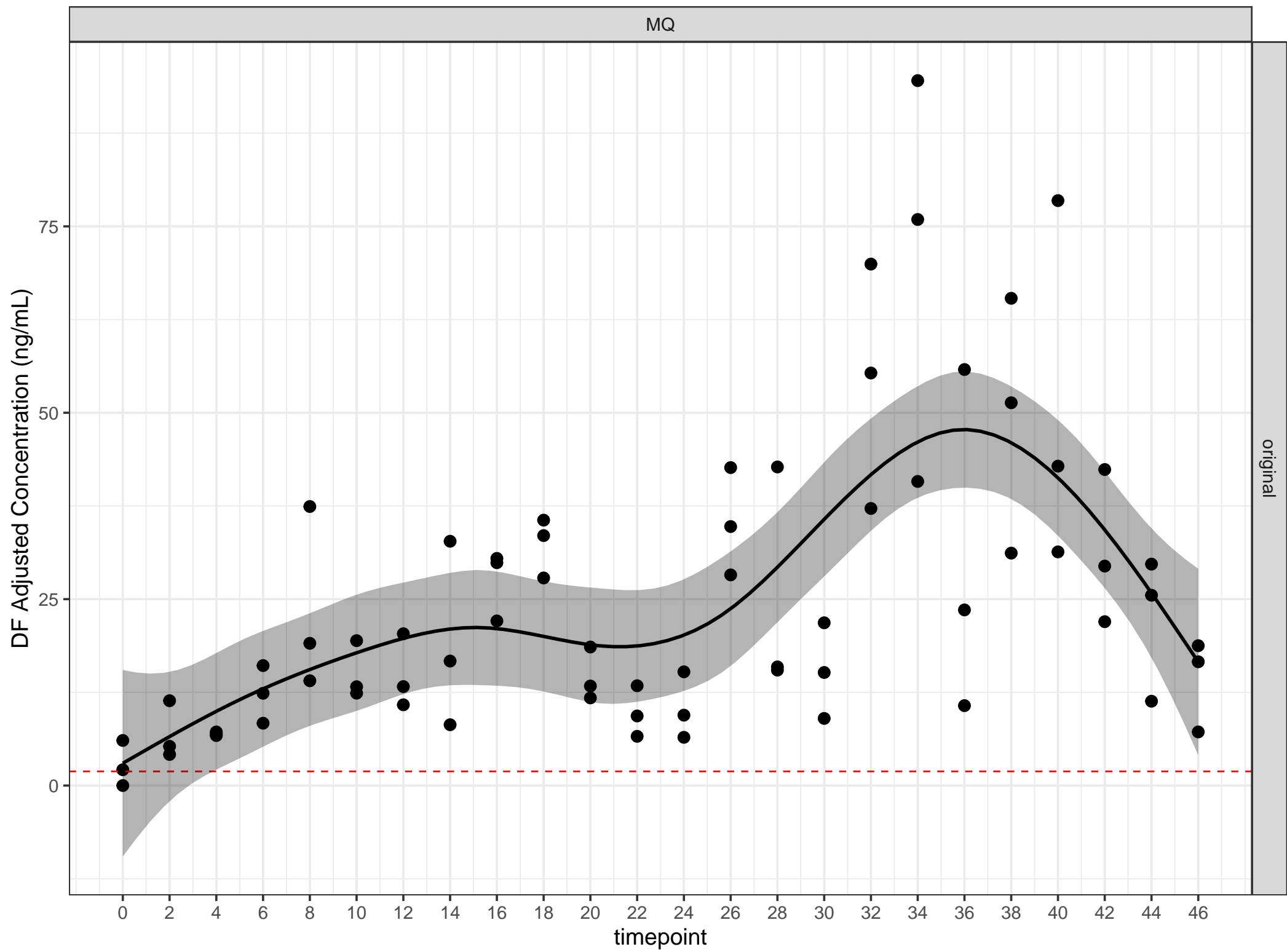


citric acid

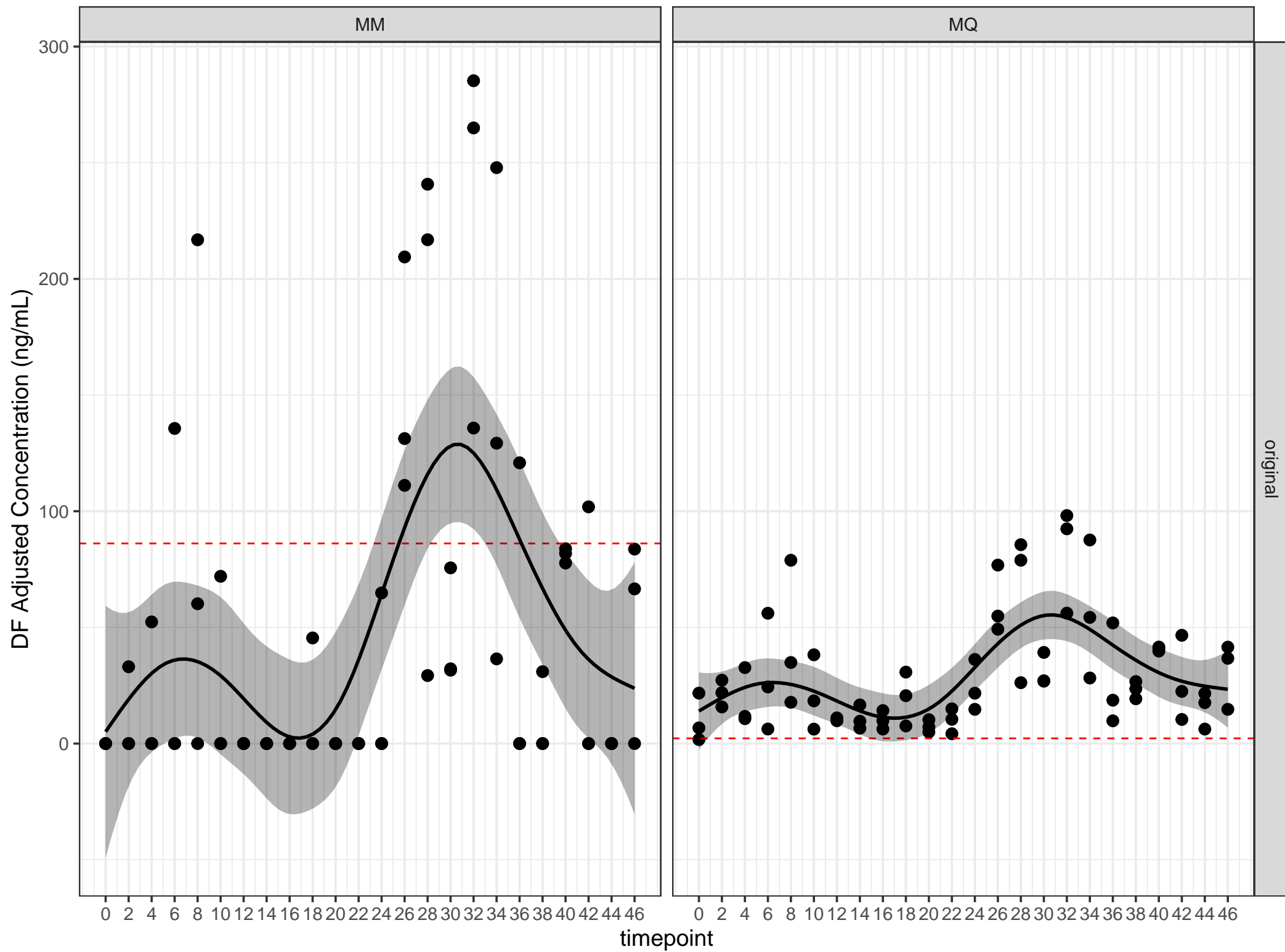




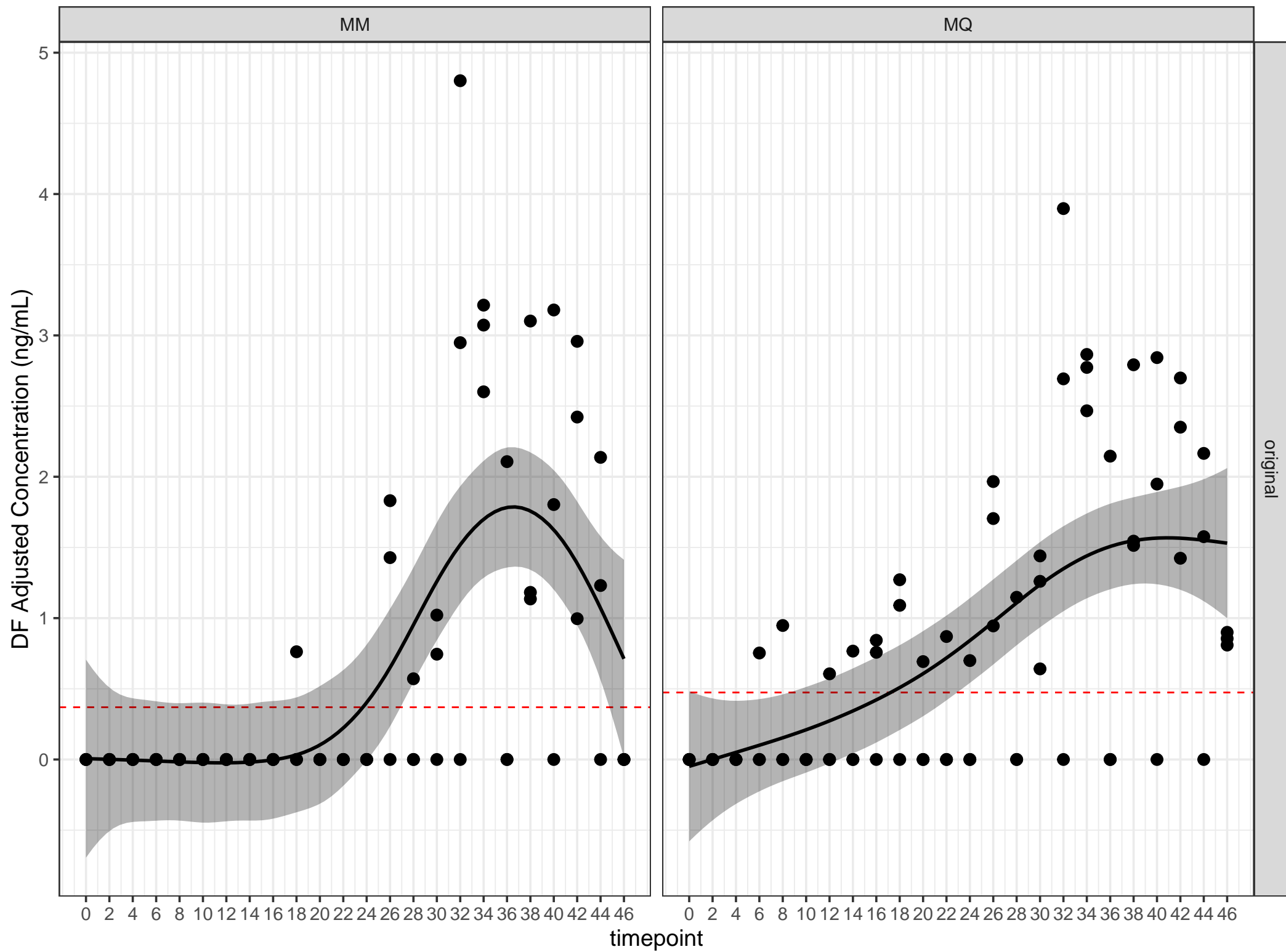
citrulline



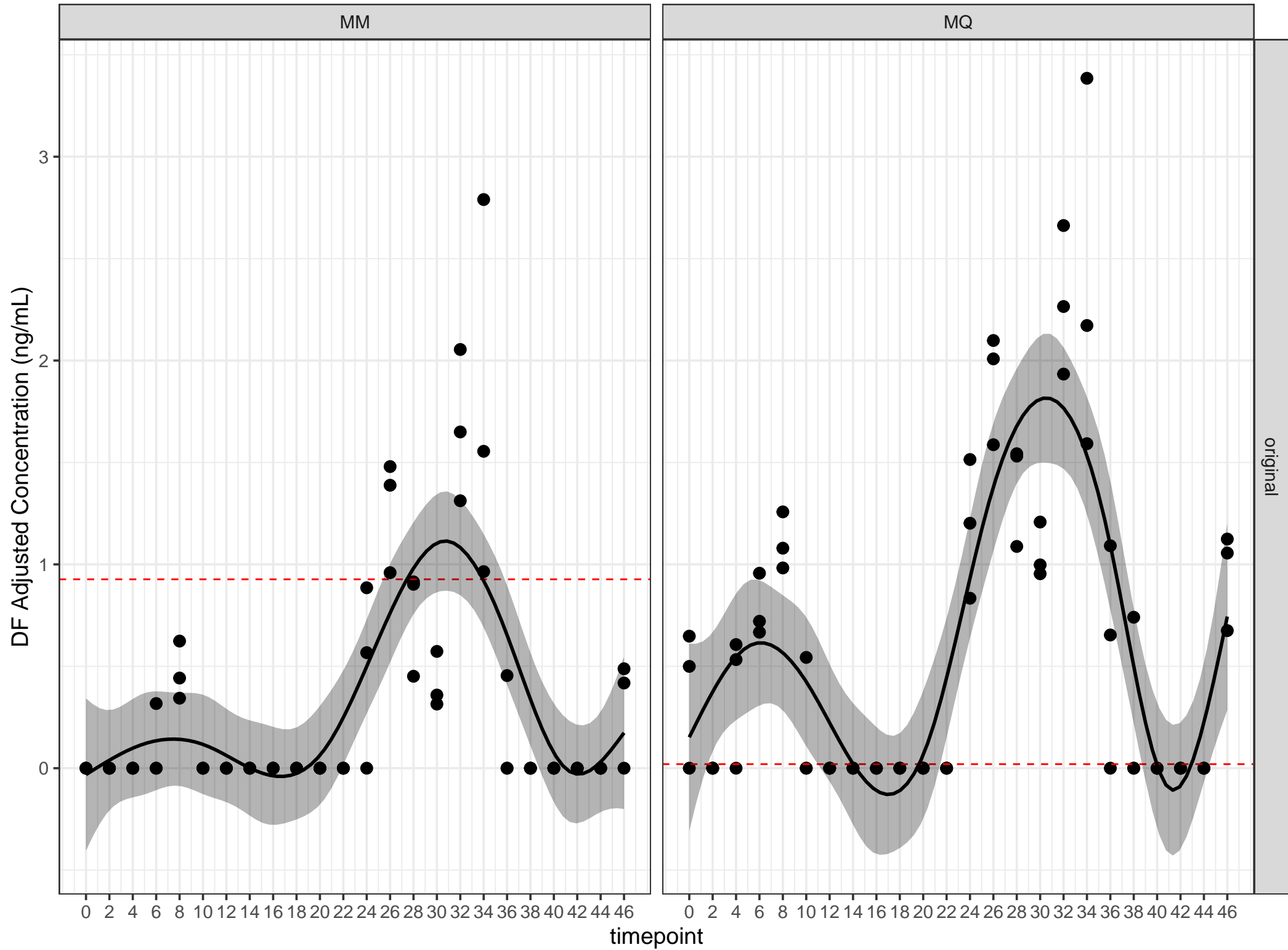
cytidine pos



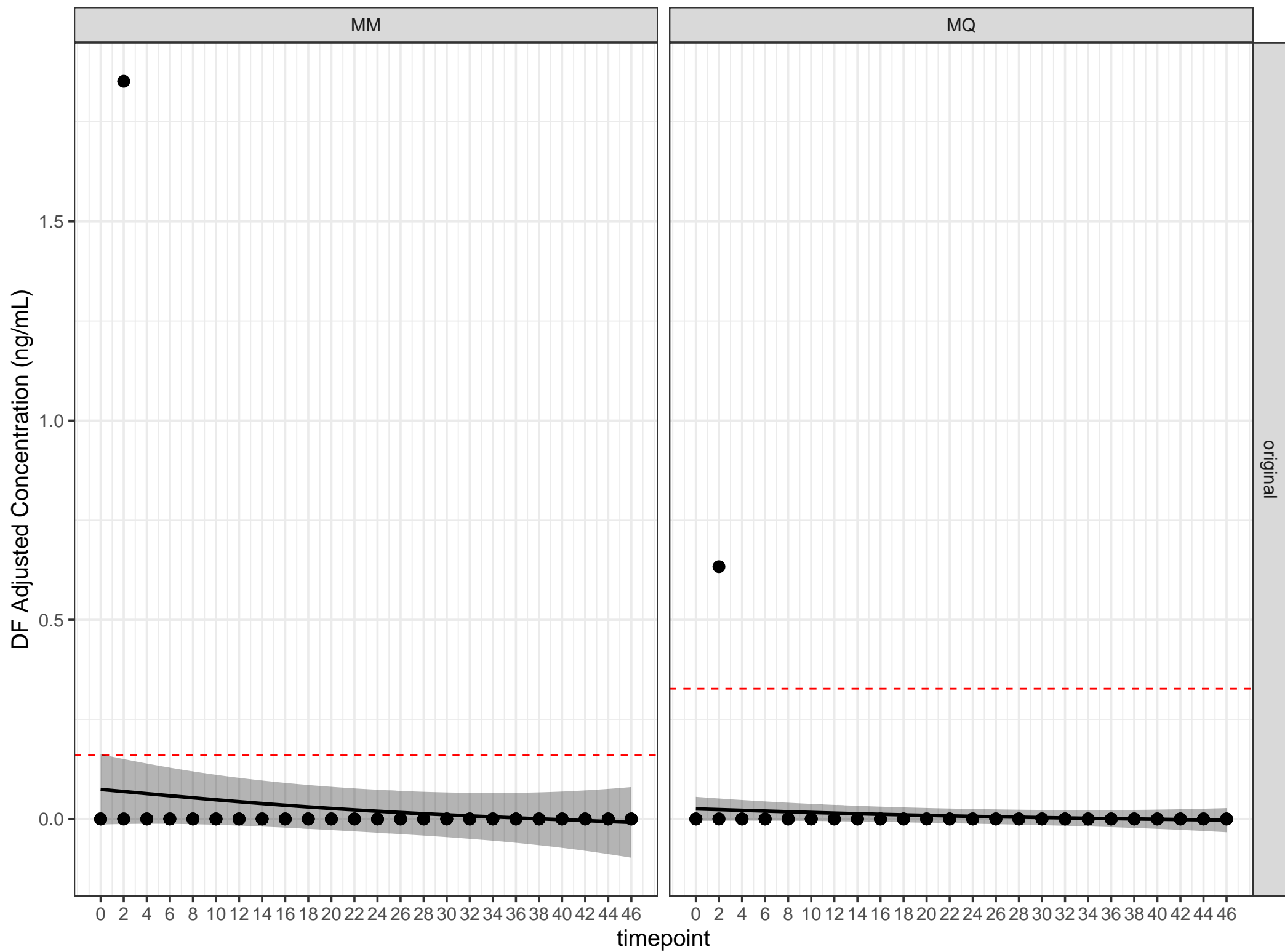
cytosine



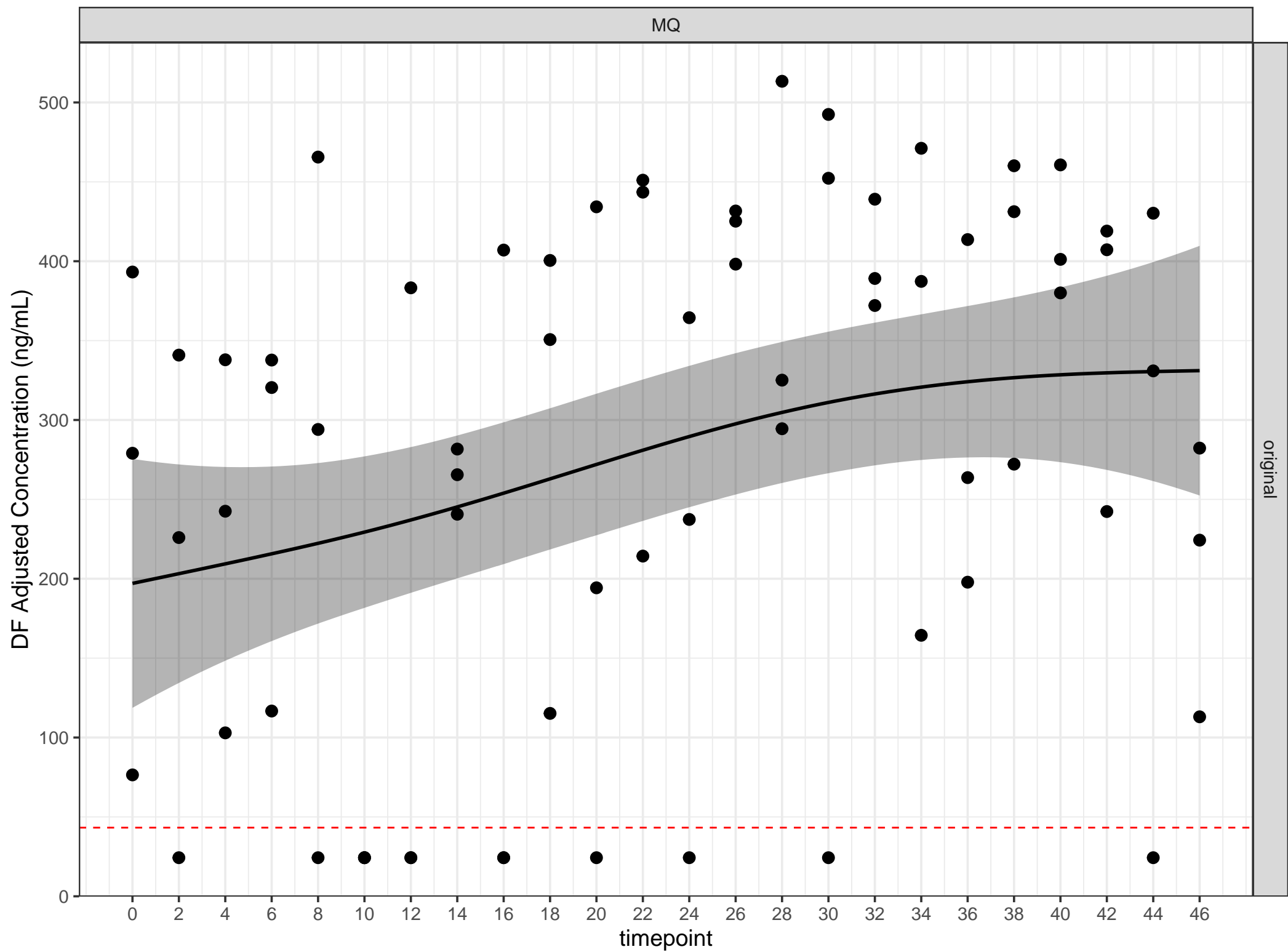
desthiobiotin



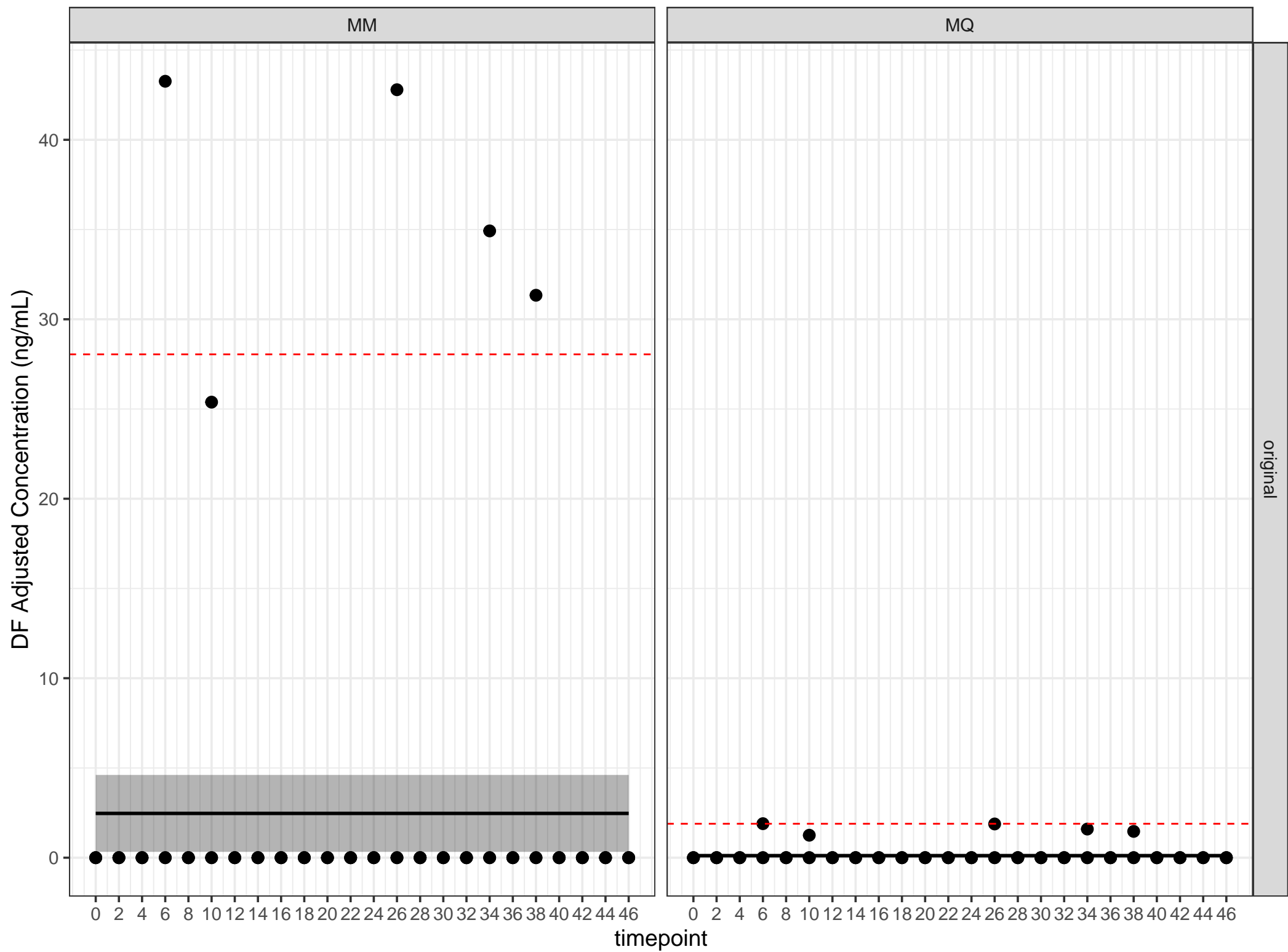
ectoine



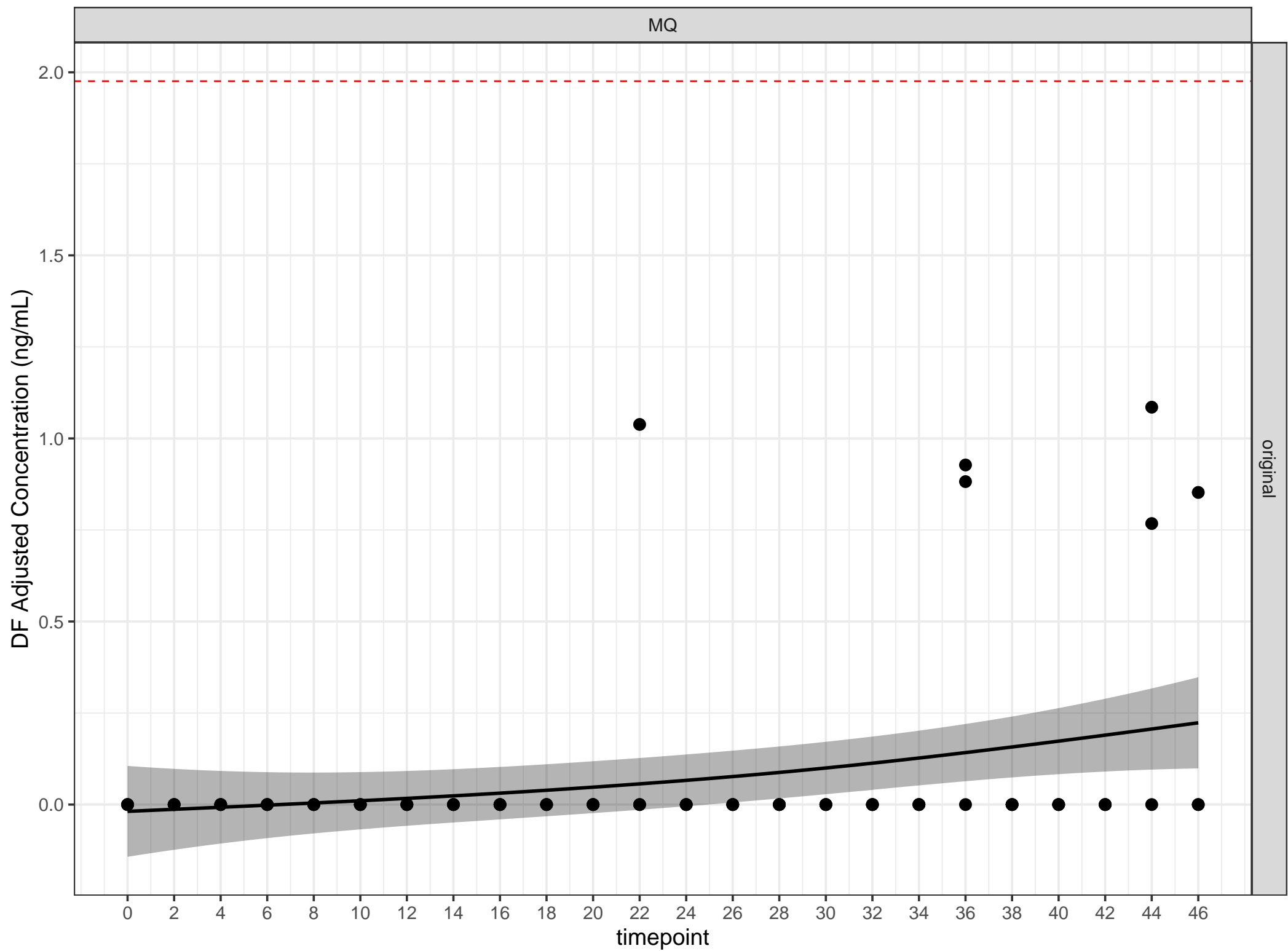
# fructose 1\_6-bisphosphate



# fumaric acid

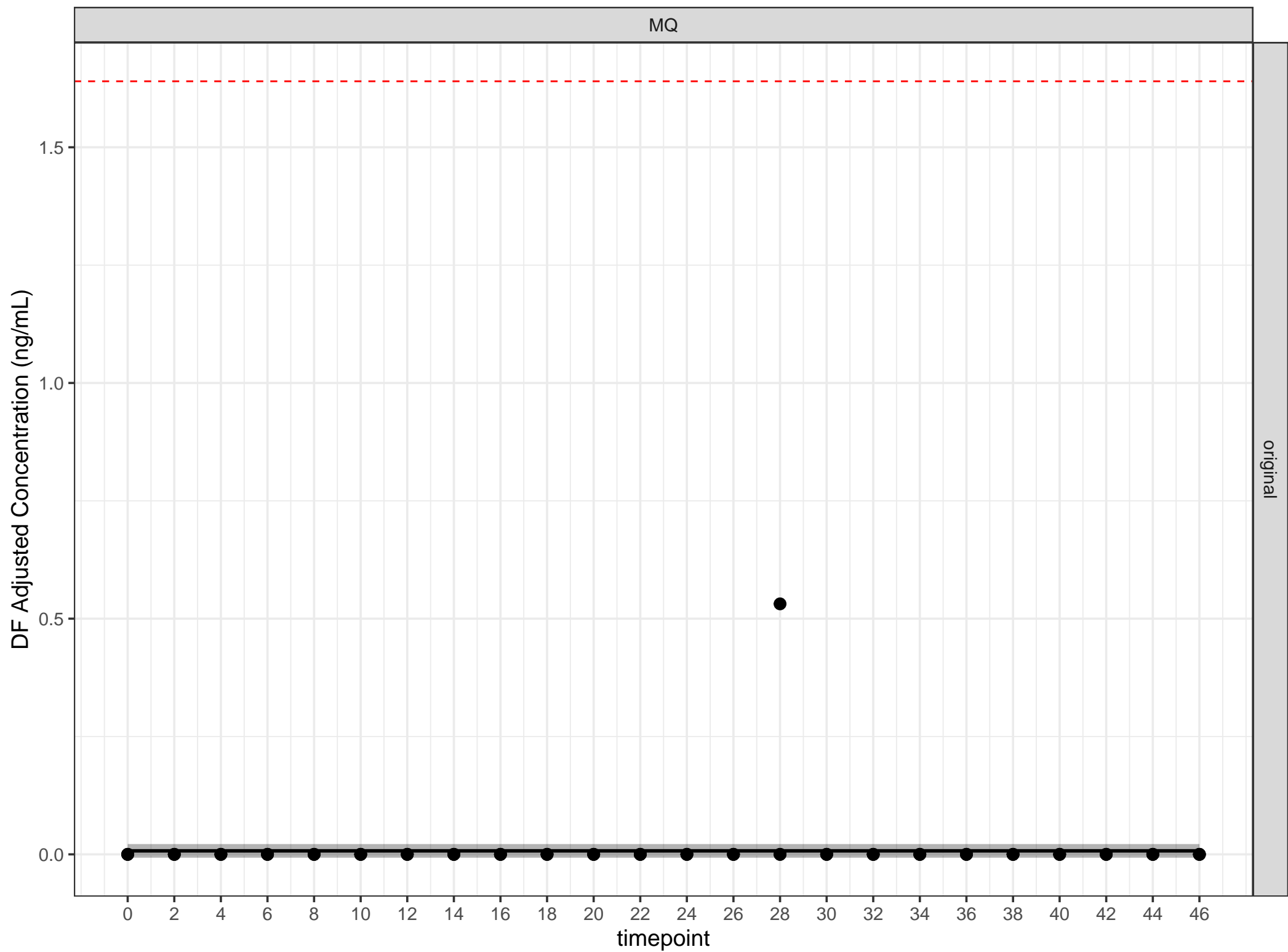


# glucosamine-6-phosphate

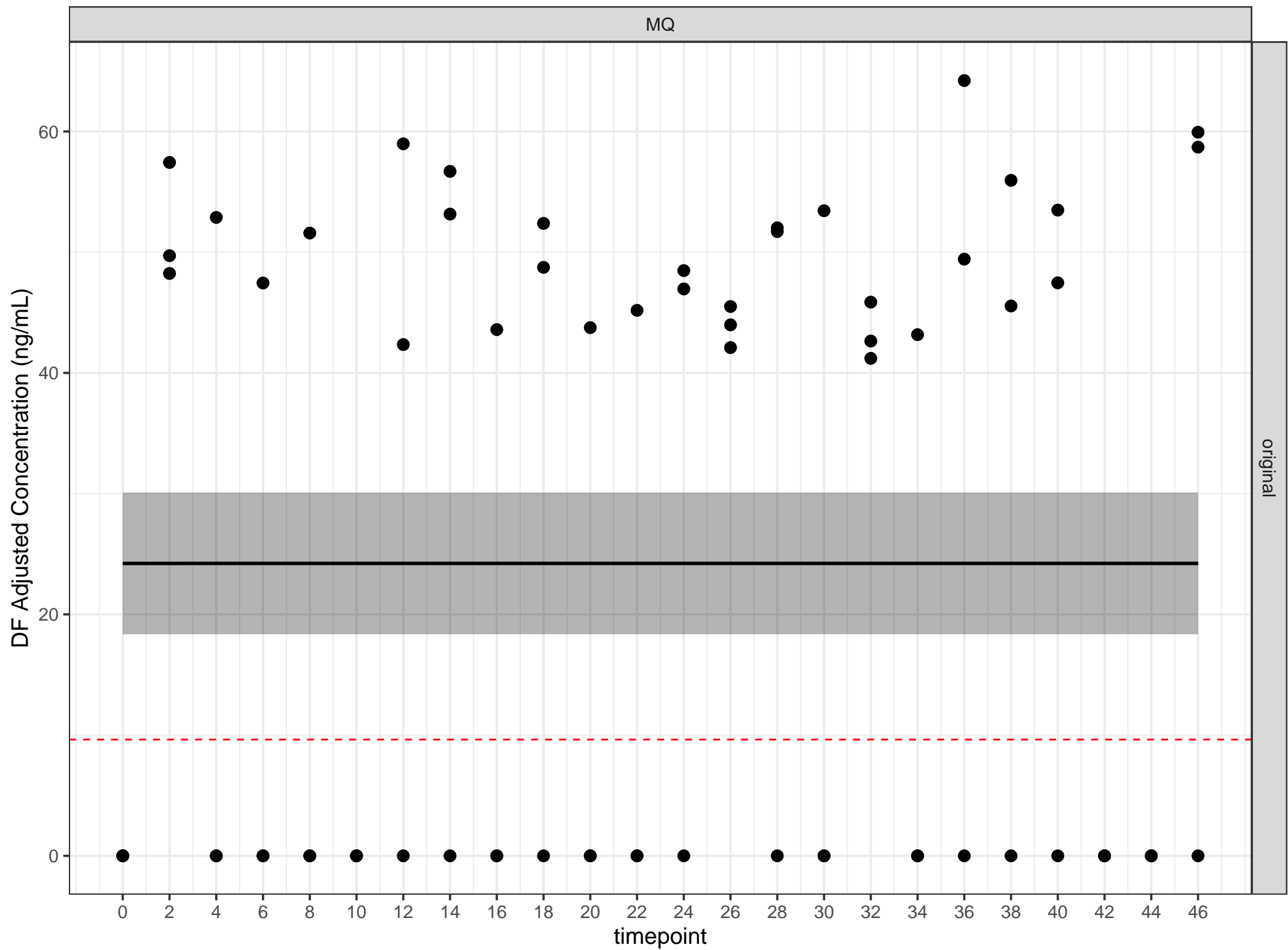




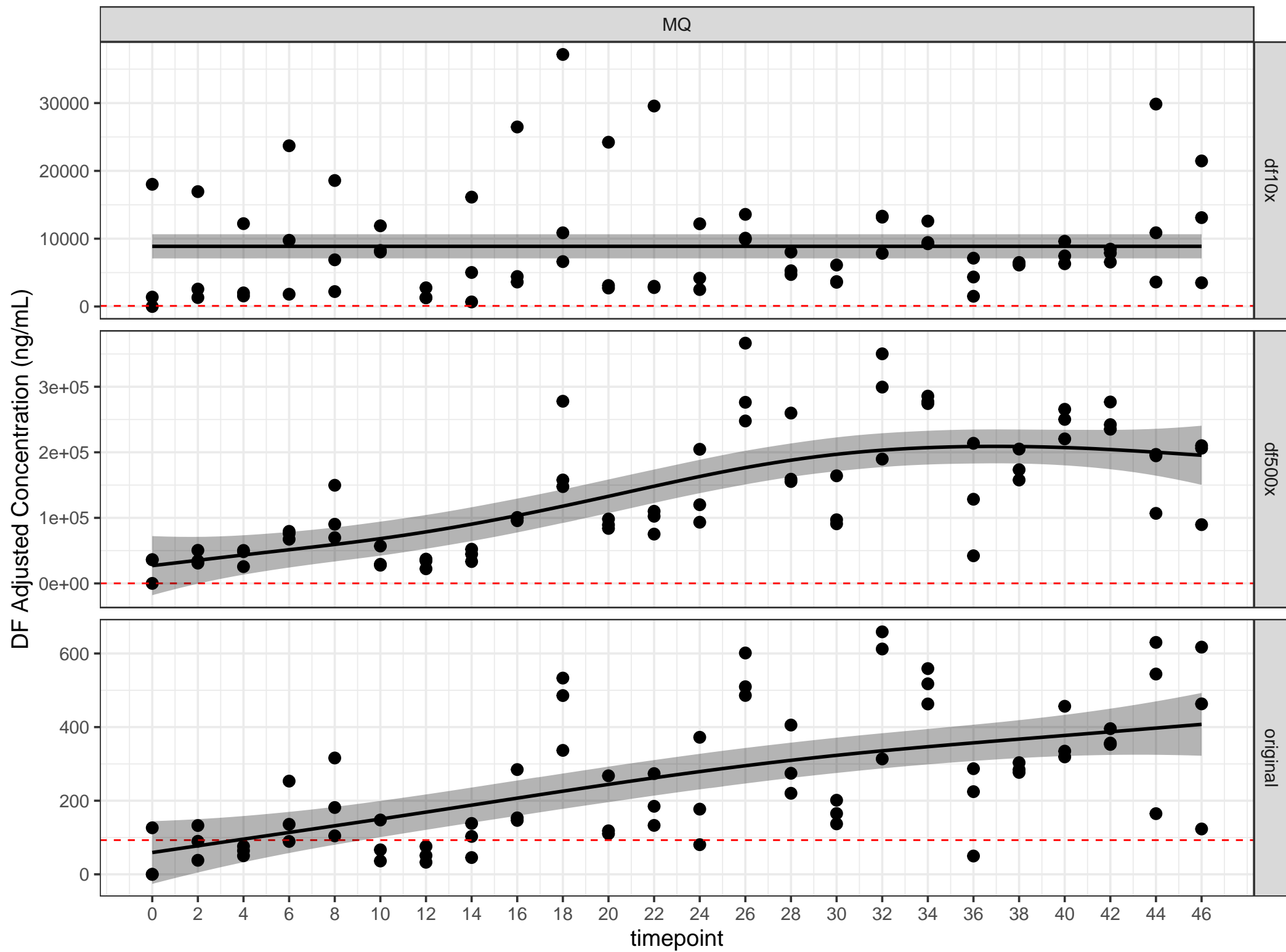
glucosamine162



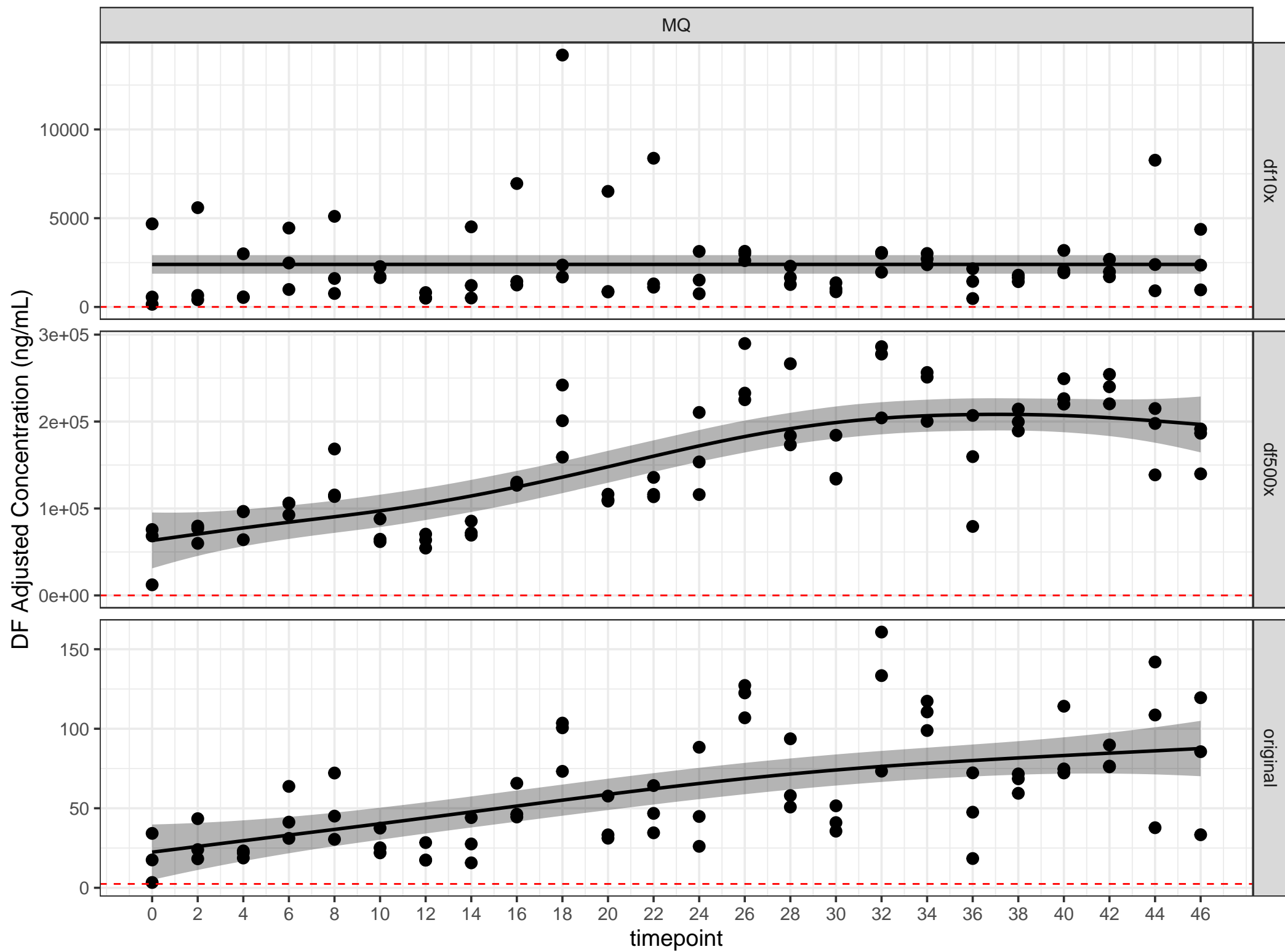
glucosamine180



glutamic acid neg

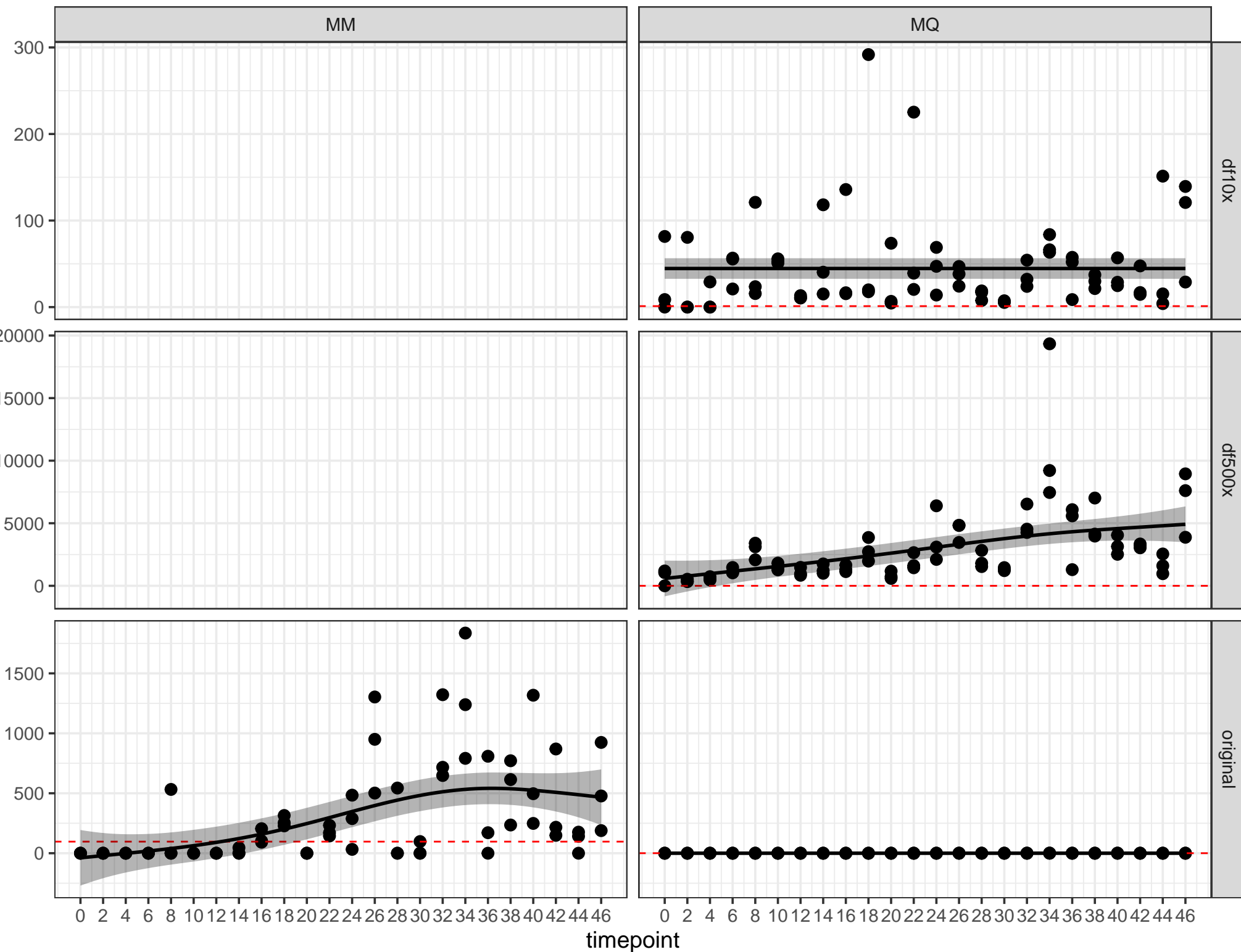


glutamic acid pos

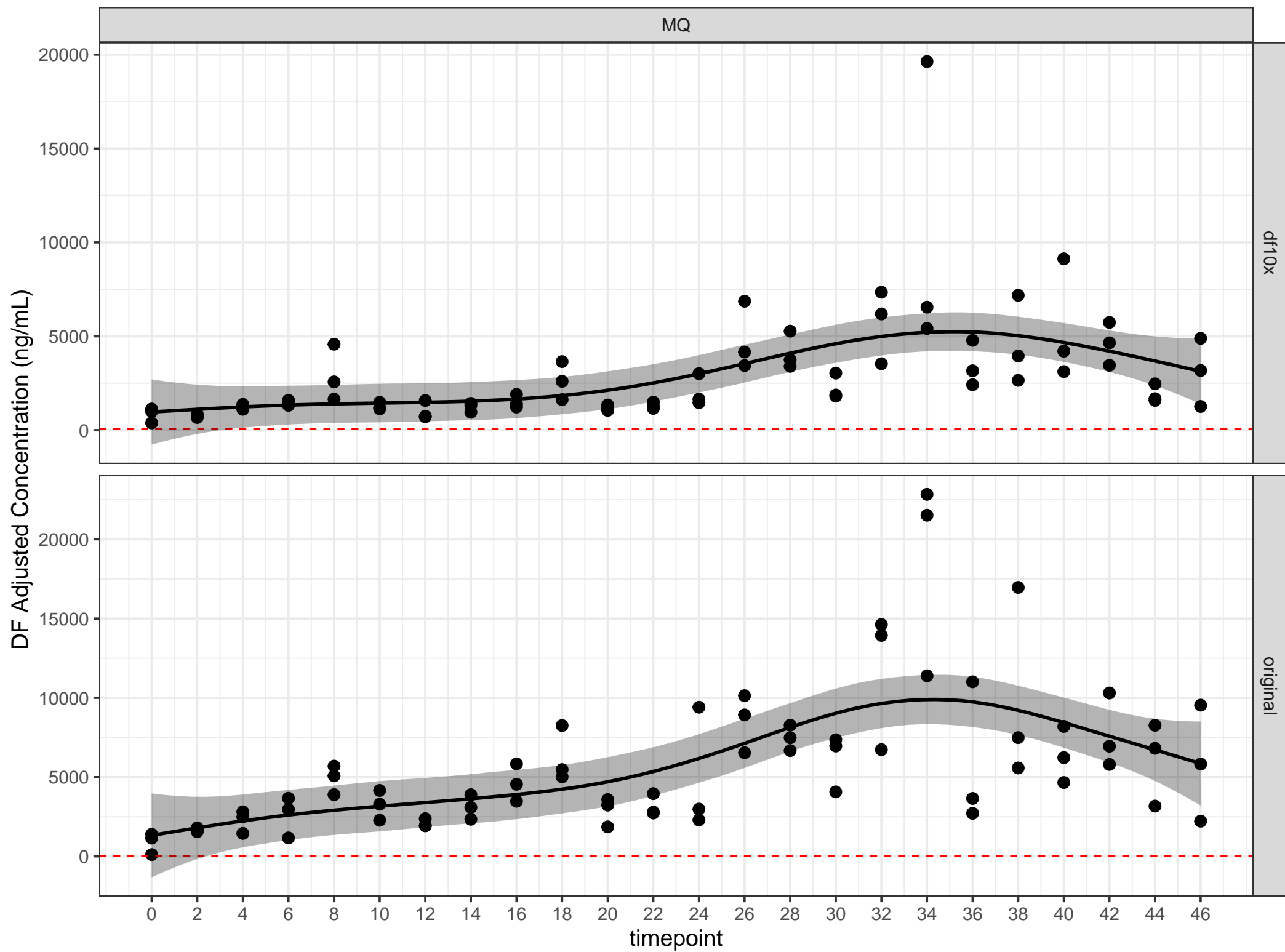


# glutamine

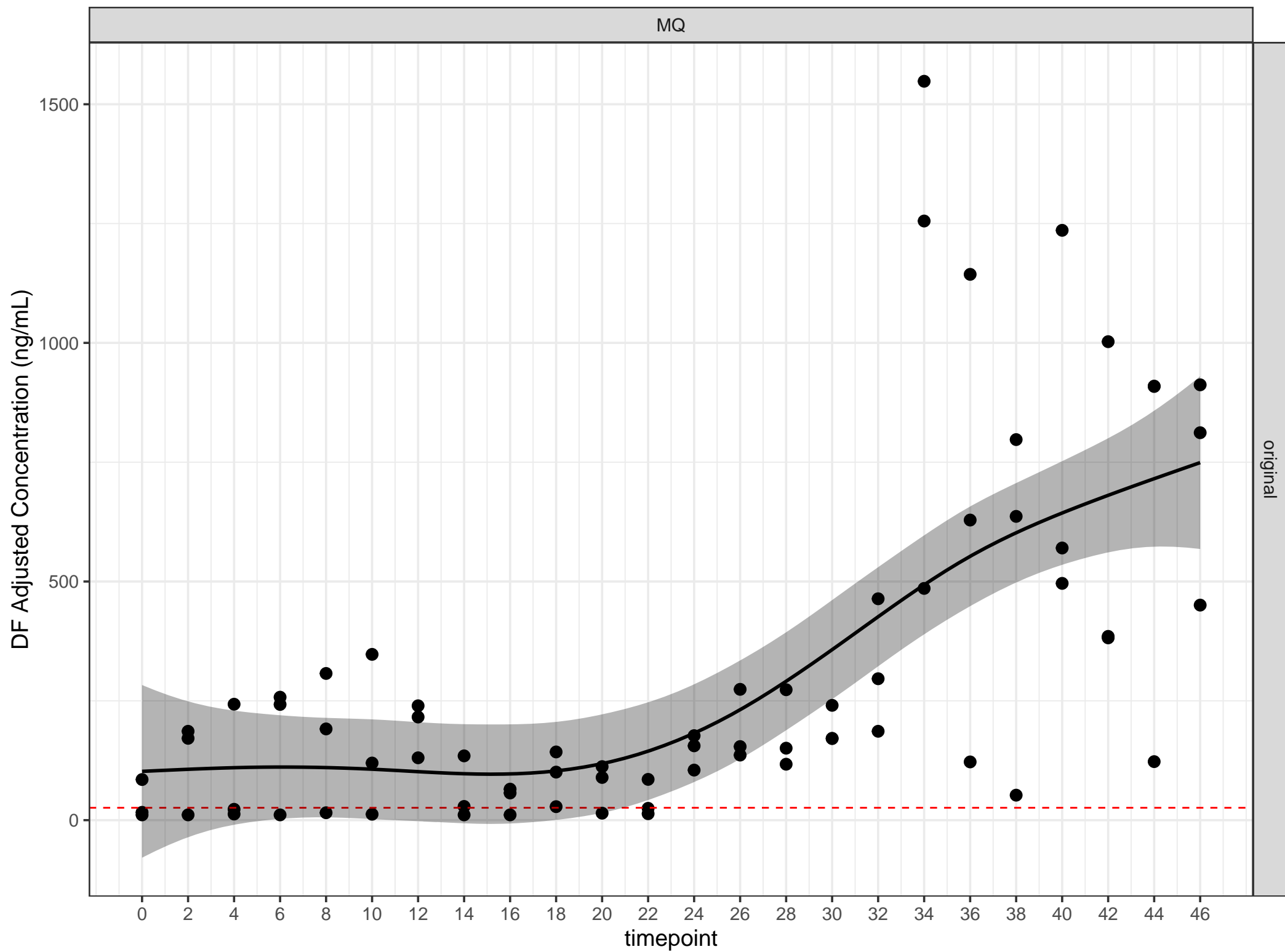
DF Adjusted Concentration (ng/mL)



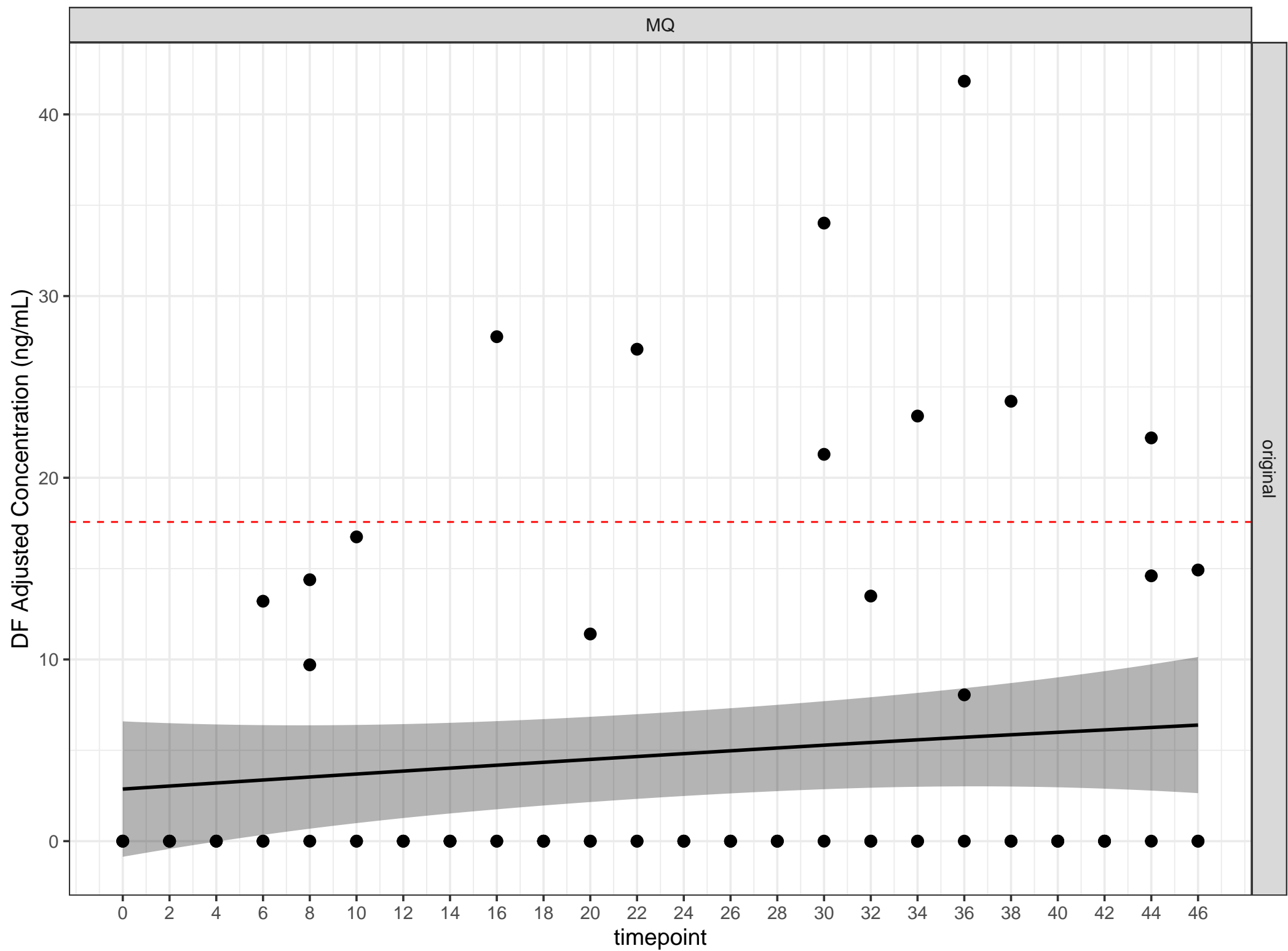
# glutathione oxidized



glutathione pos

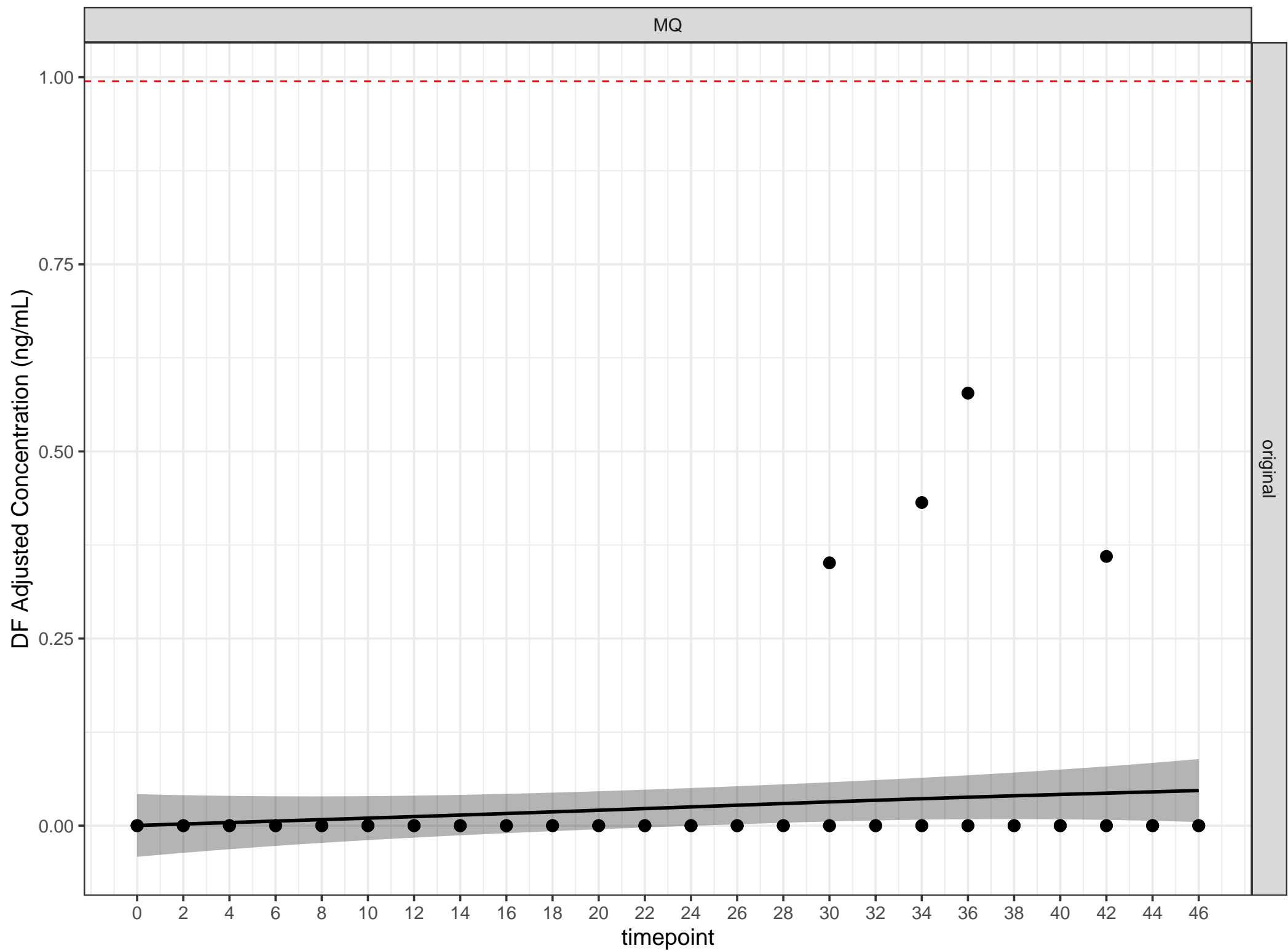


glyceraldehyde-3-phosphate

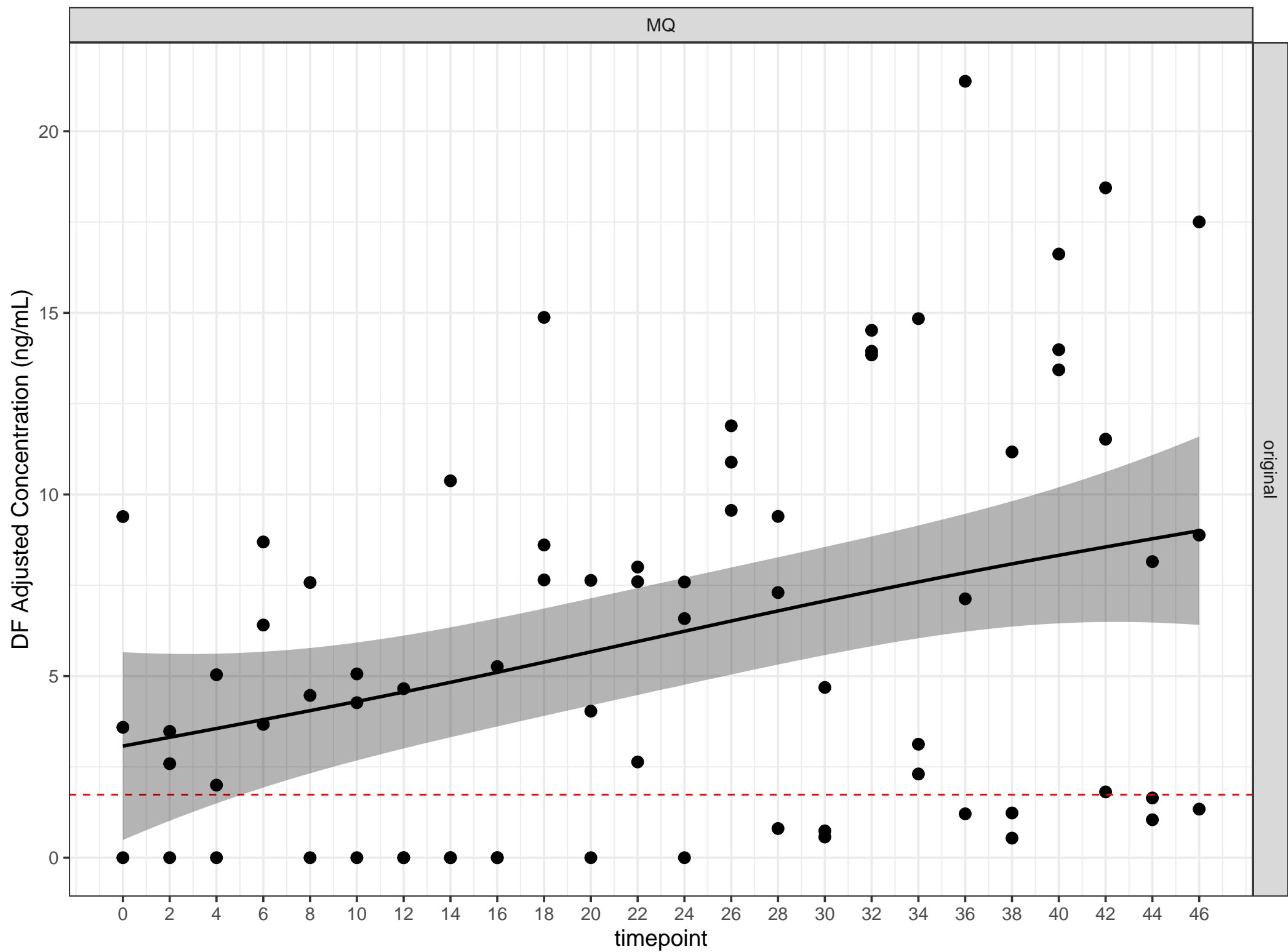




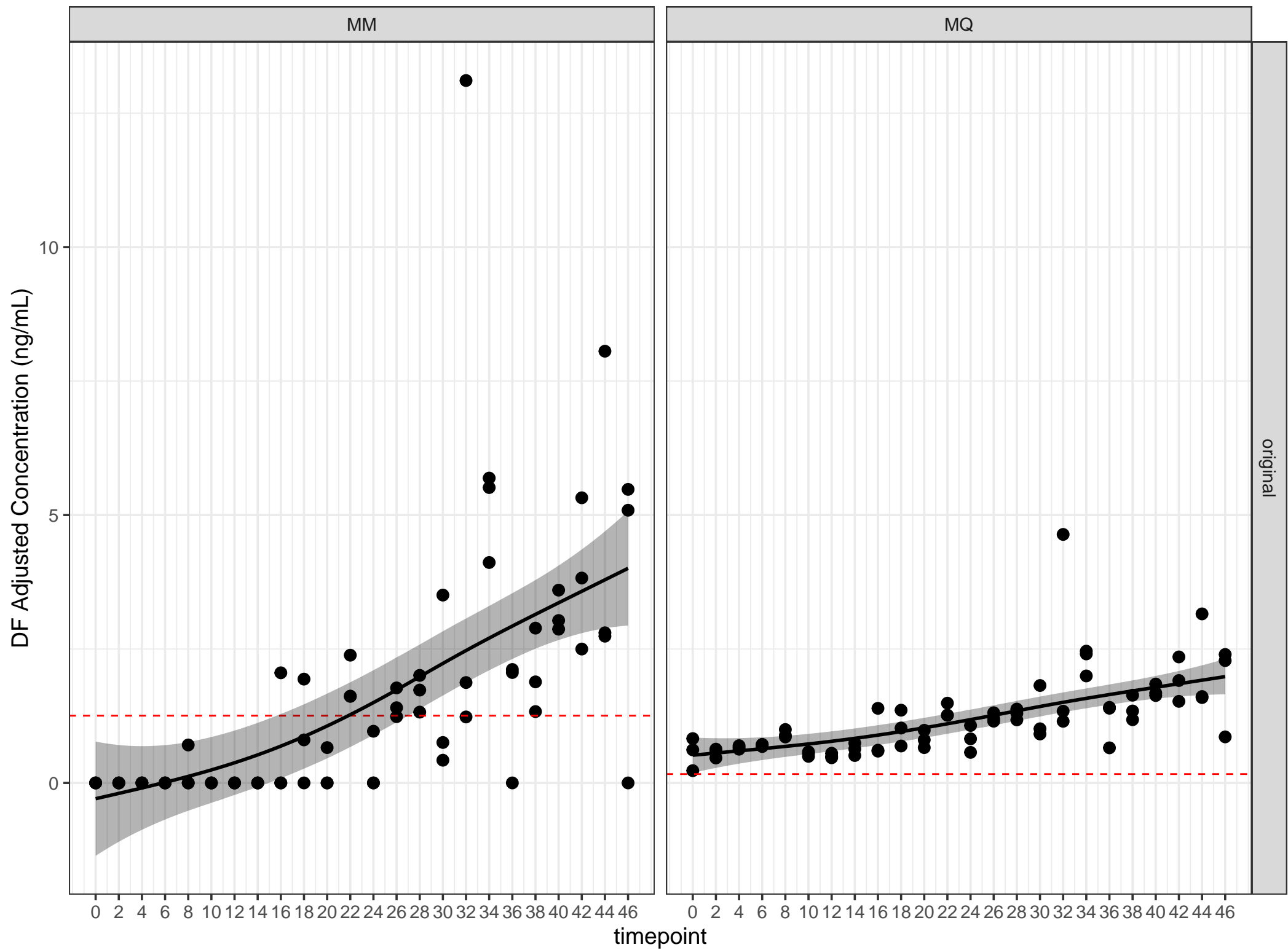
# glycerol-3-phosphate pos



guanine



guanosine pos



# hemin

DF Adjusted Concentration (ng/mL)

MM

MQ

df10x

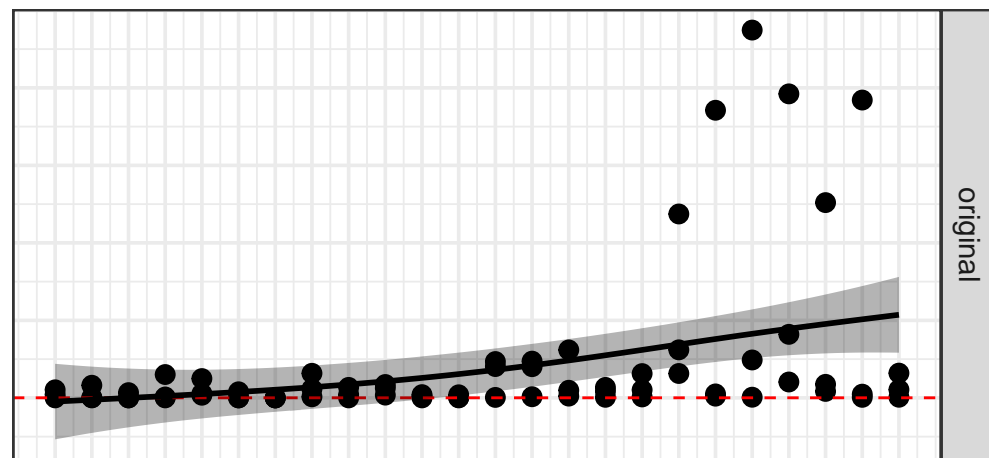
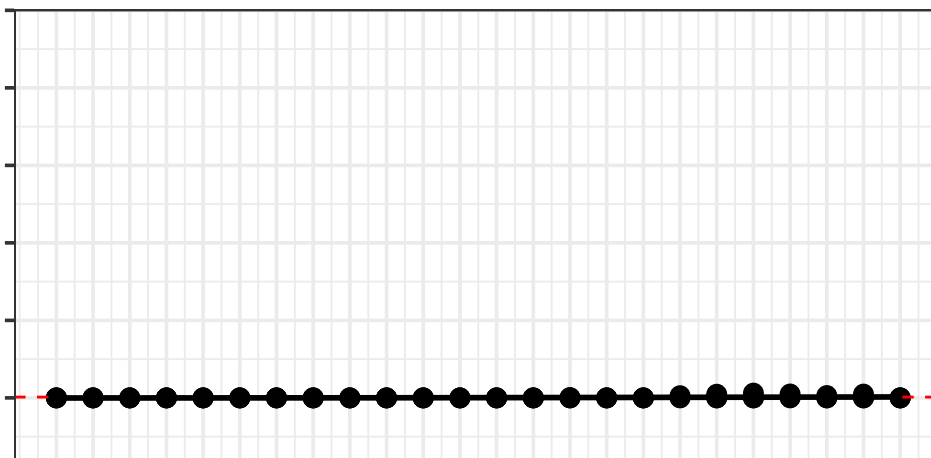
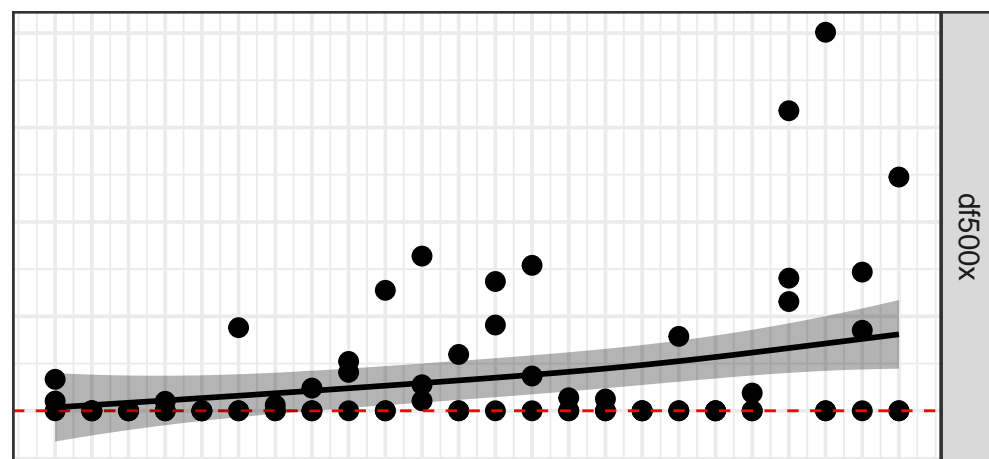
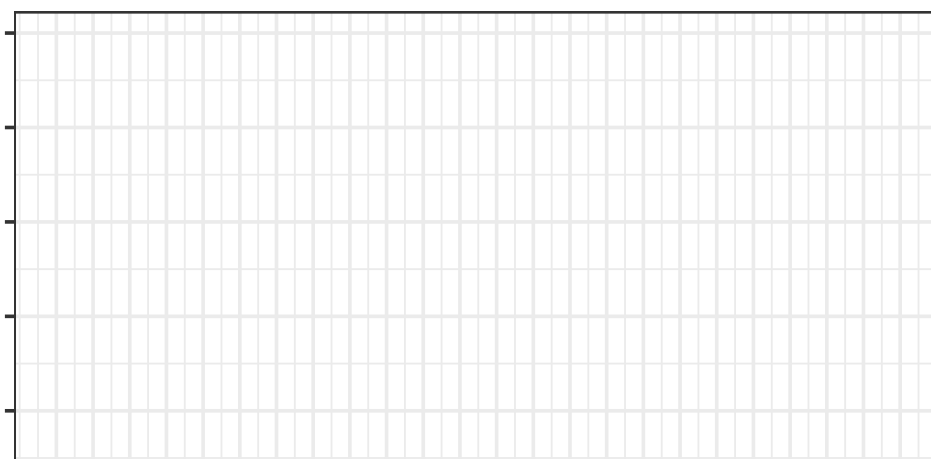
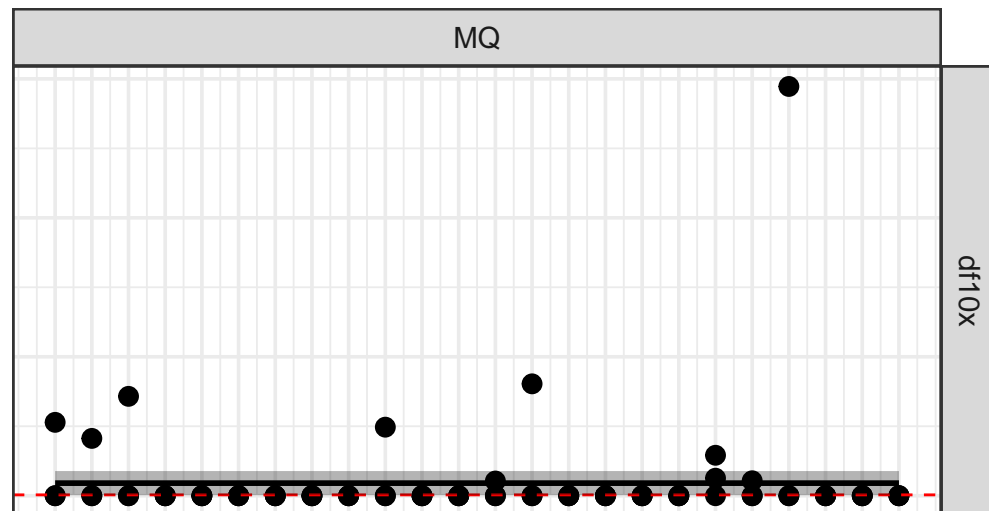
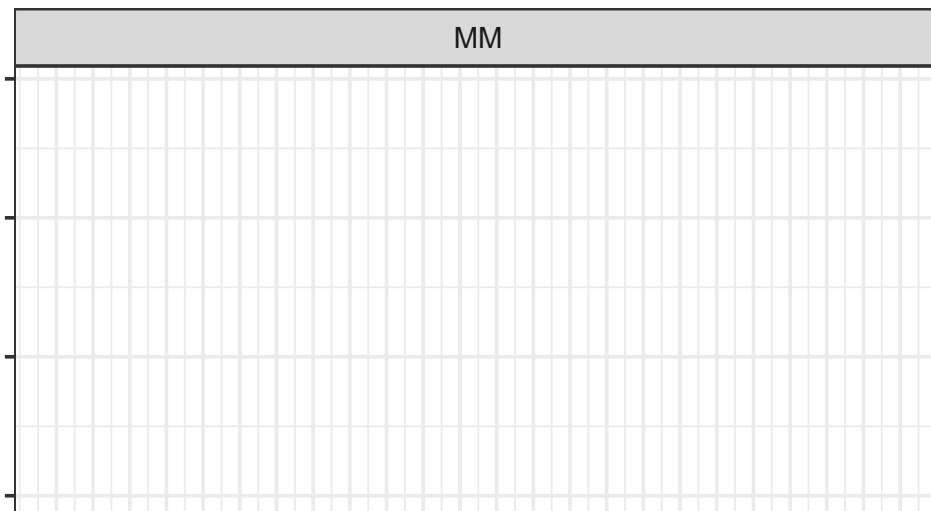
df500x

original

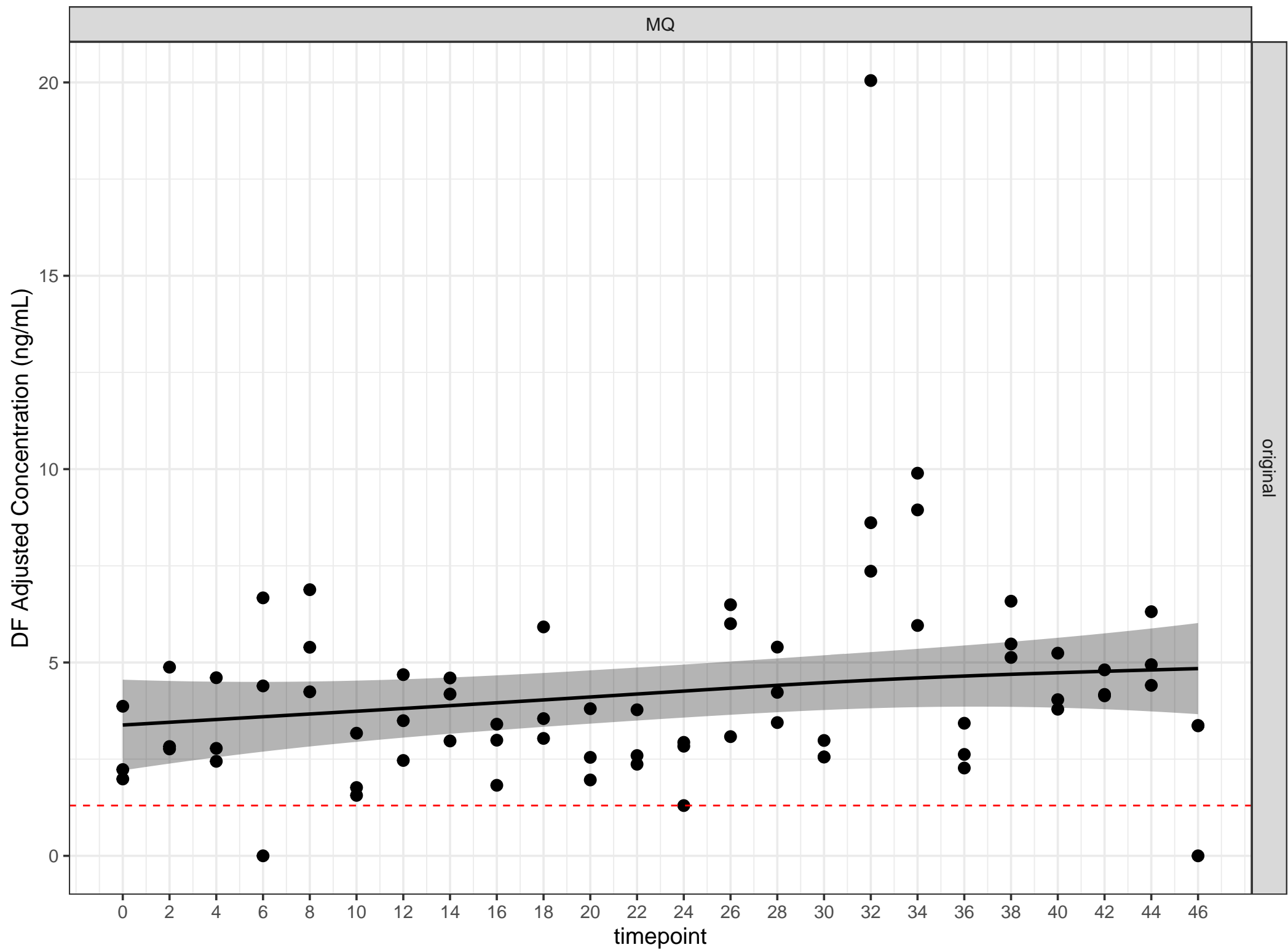
300  
200  
100  
0  
20000  
15000  
10000  
5000  
0  
25000  
20000  
15000  
10000  
5000  
0

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46  
timepoint

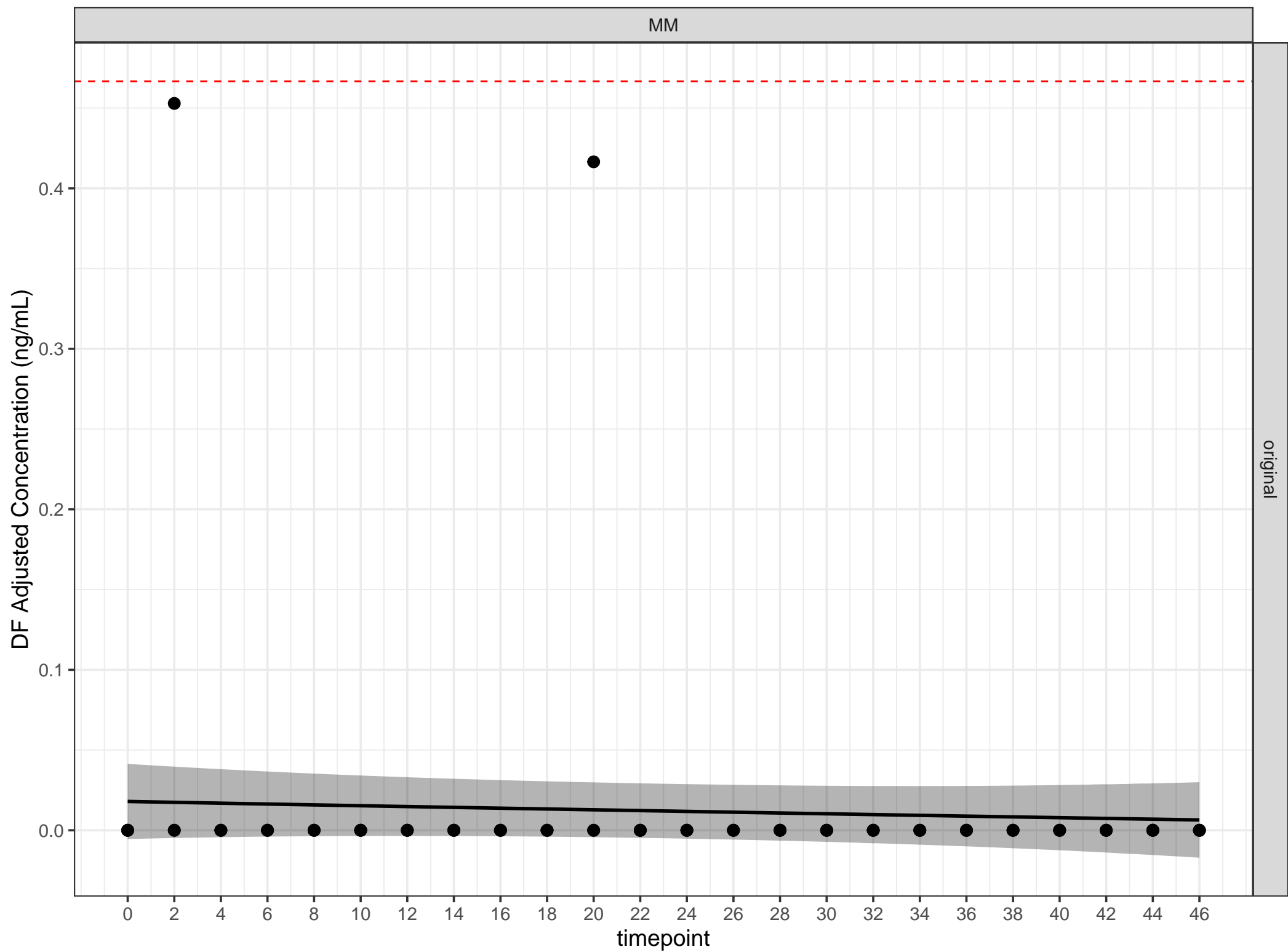
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46



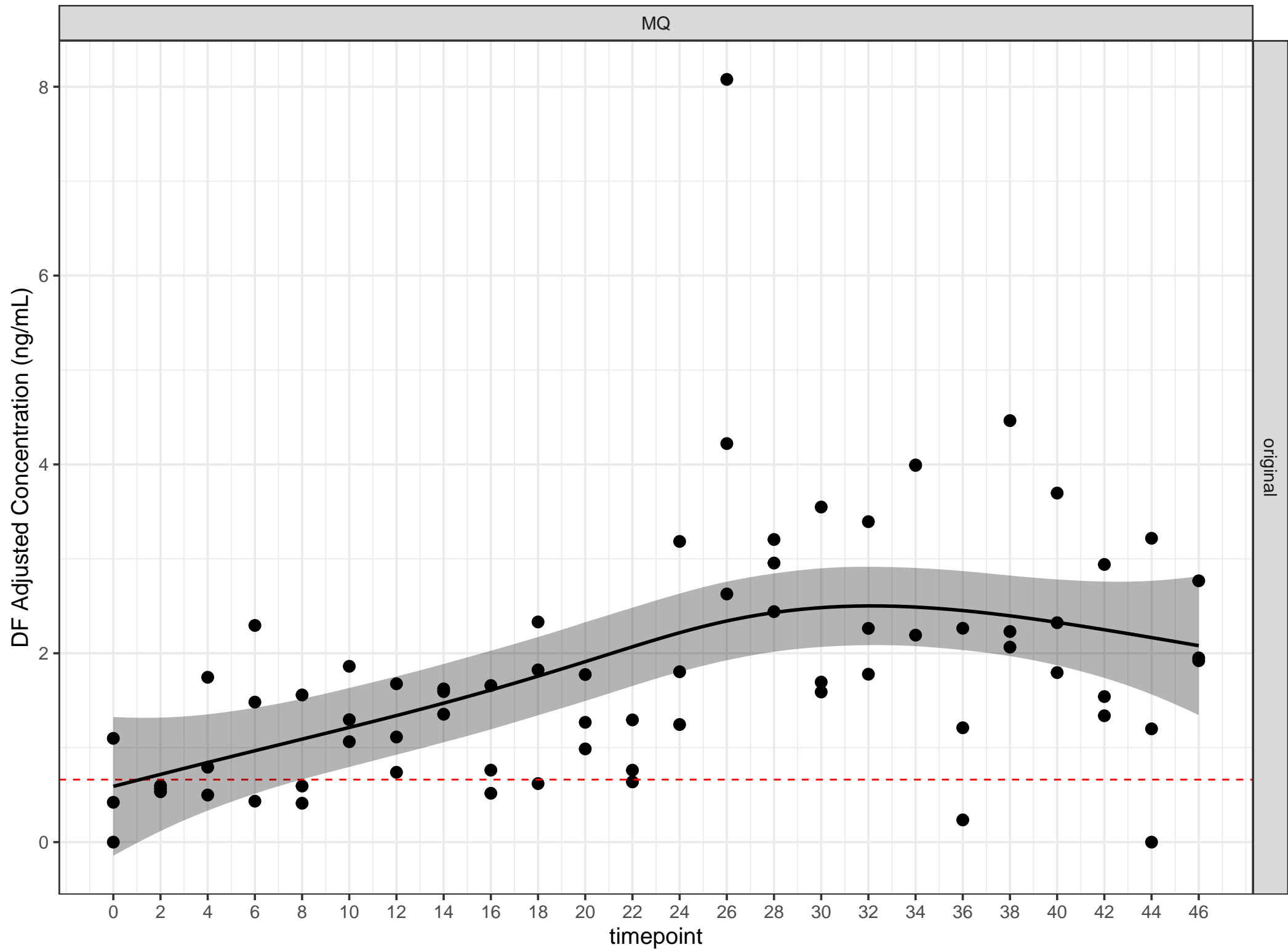
hexose-6-phosphate



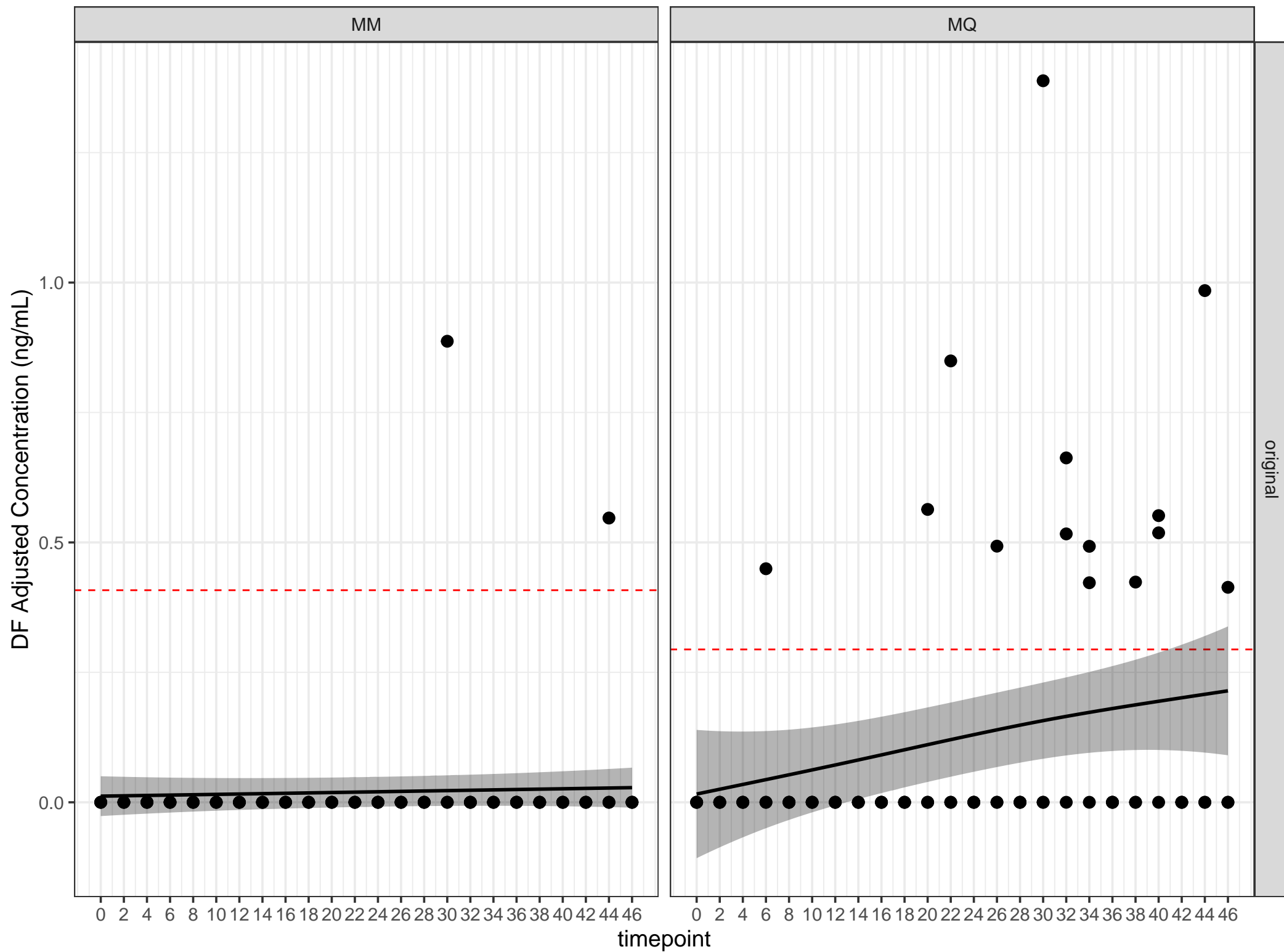
homarine



# homocysteine

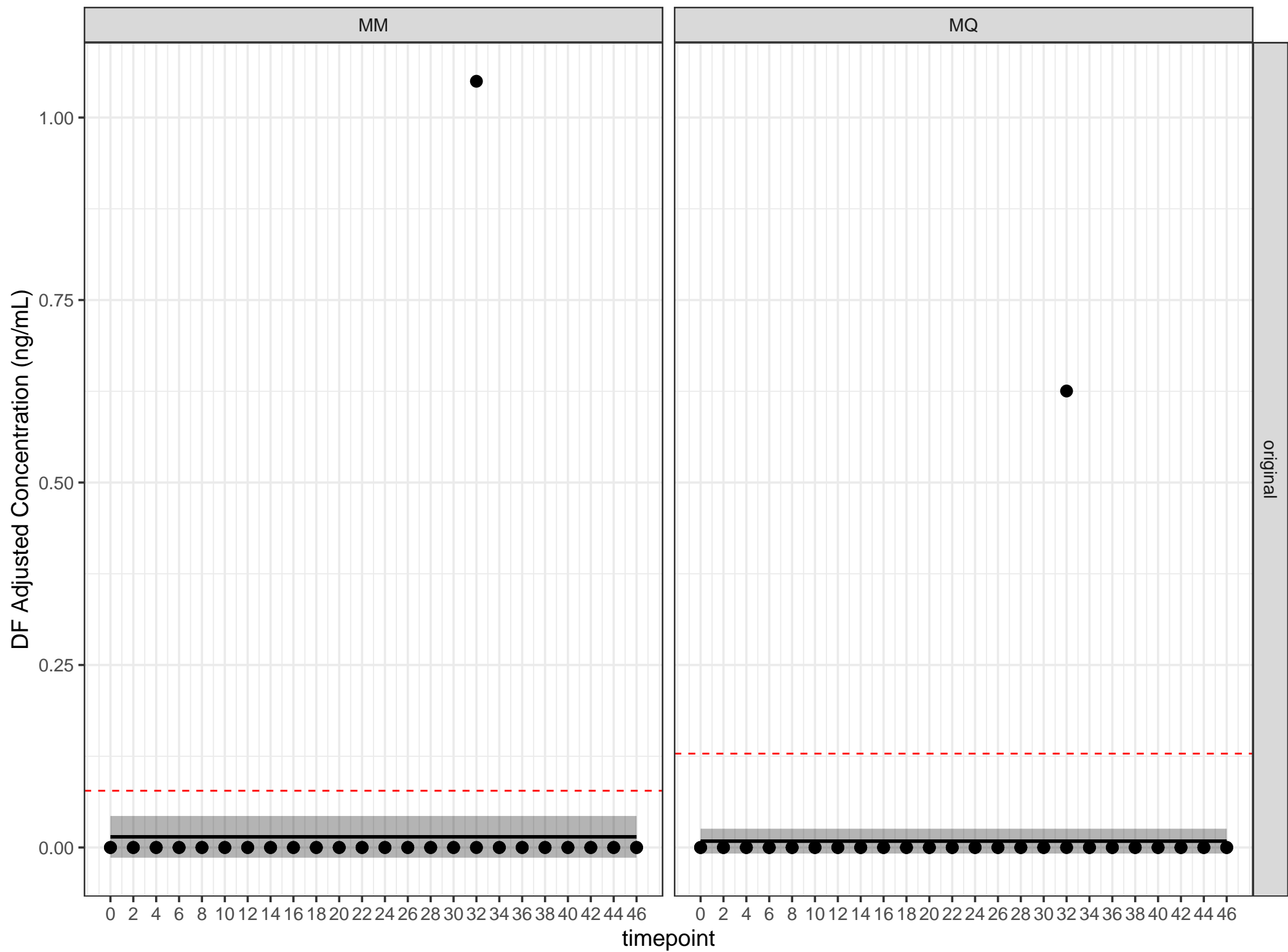


# hypoxanthine

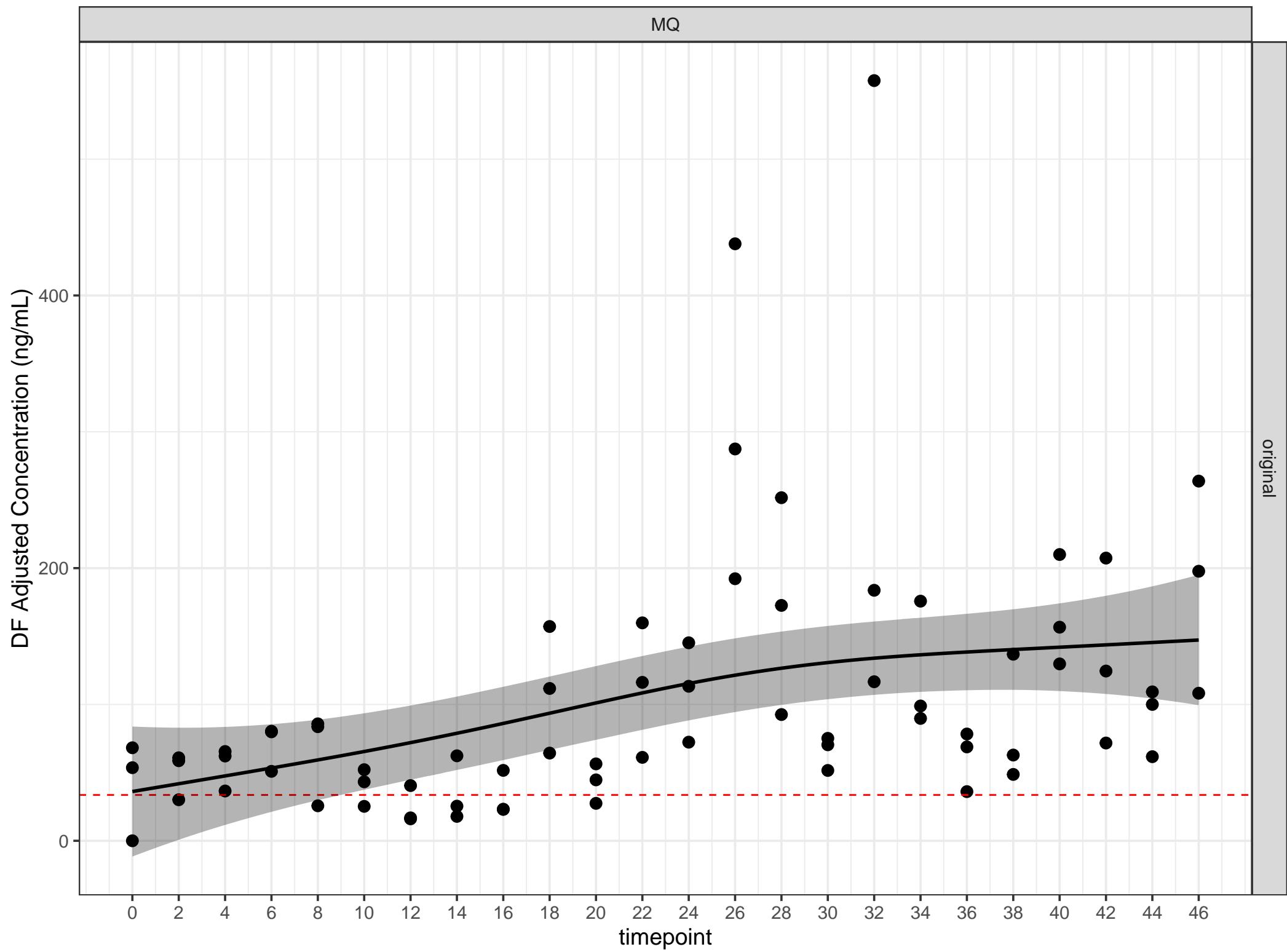




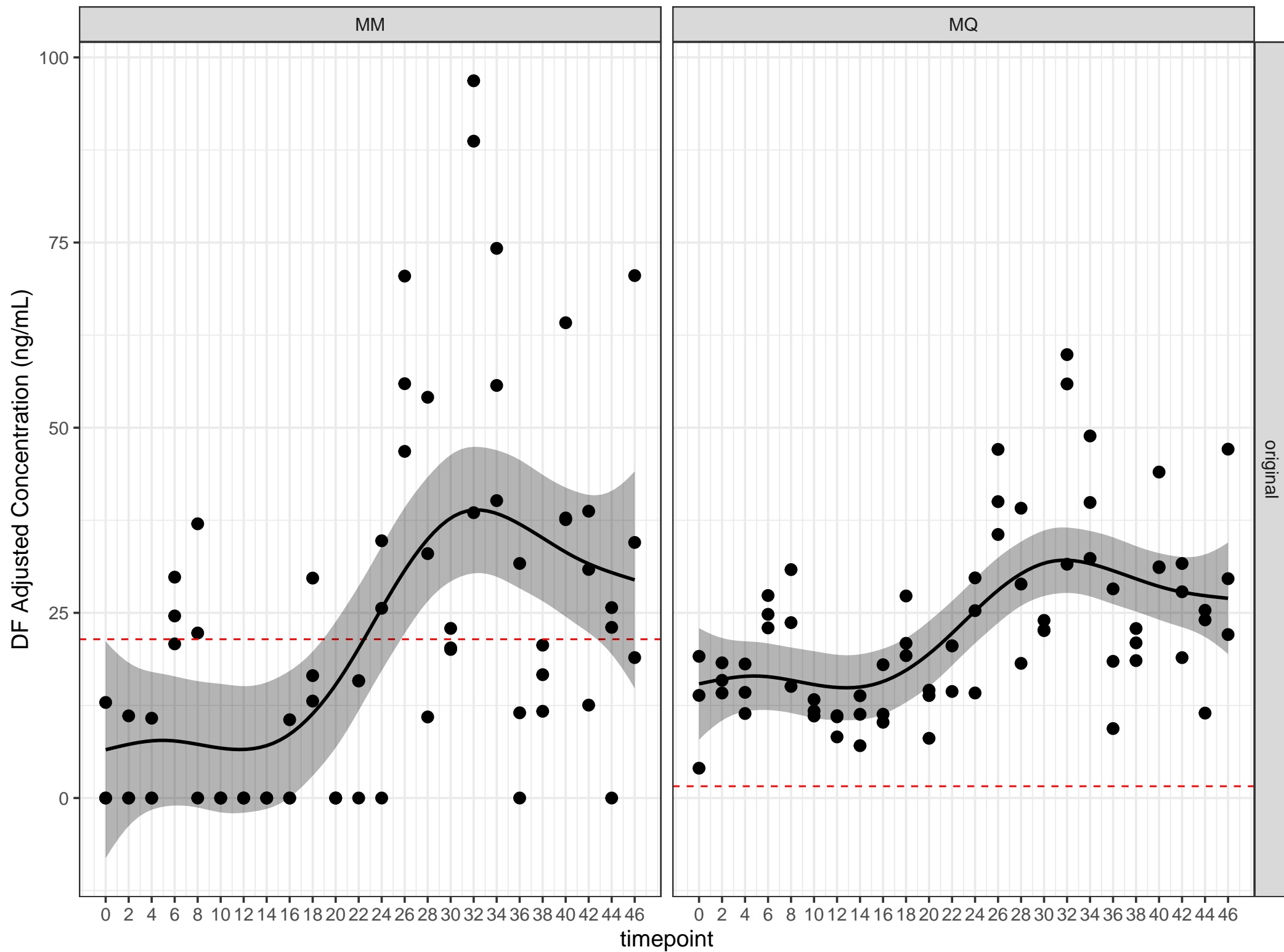
# inosine



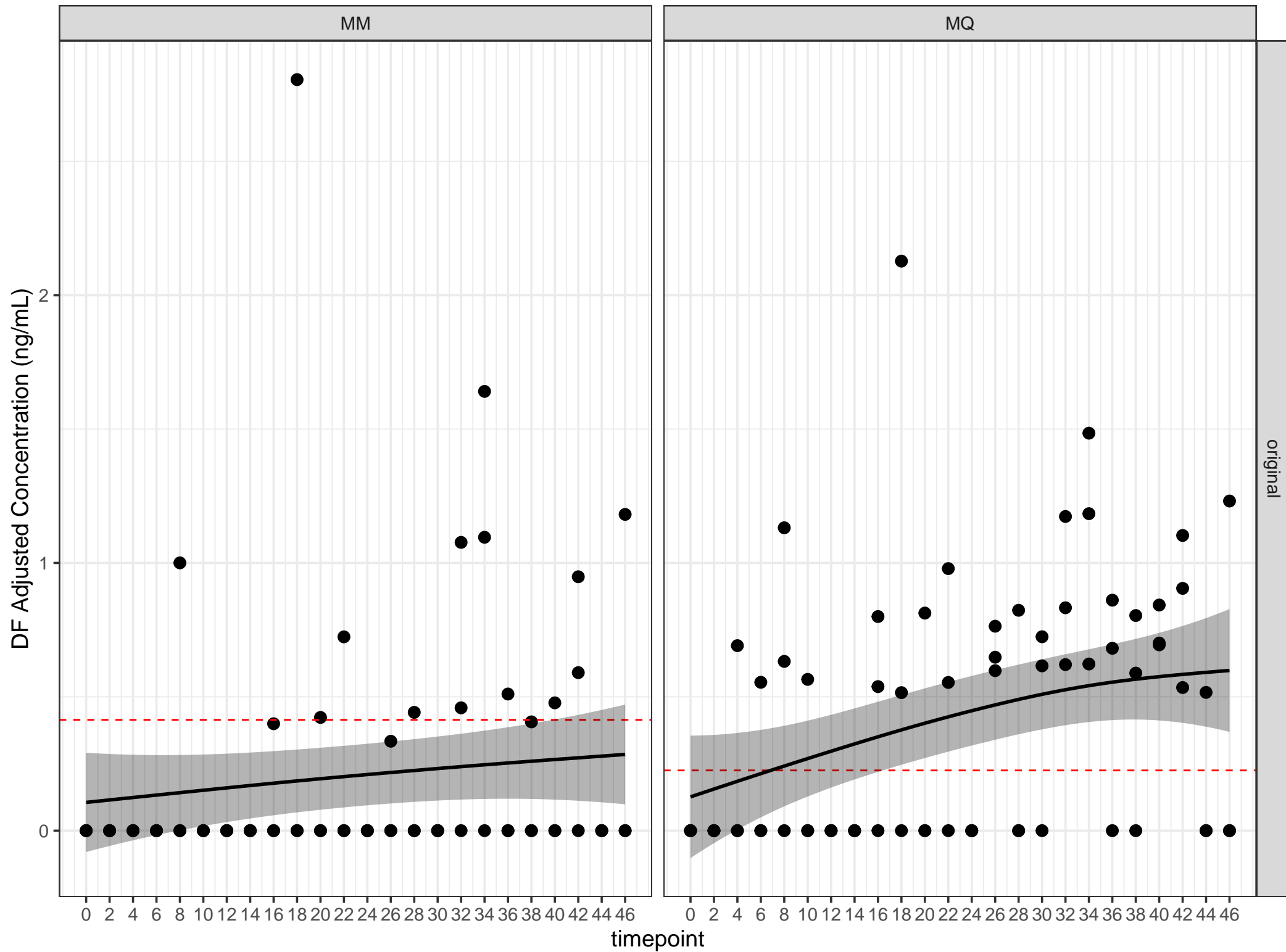
# inosine 5-monophosphate pos



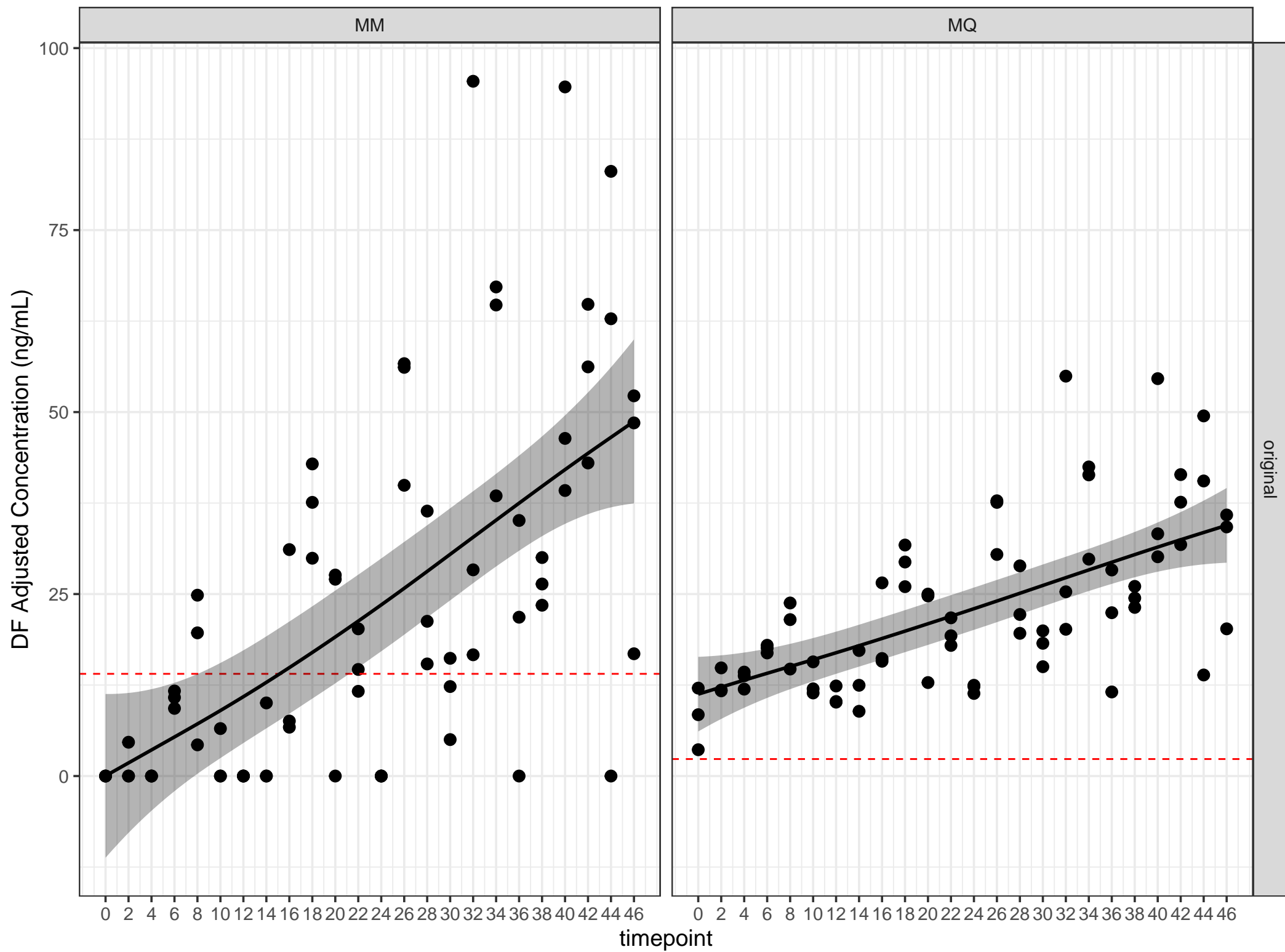
# isoleucine



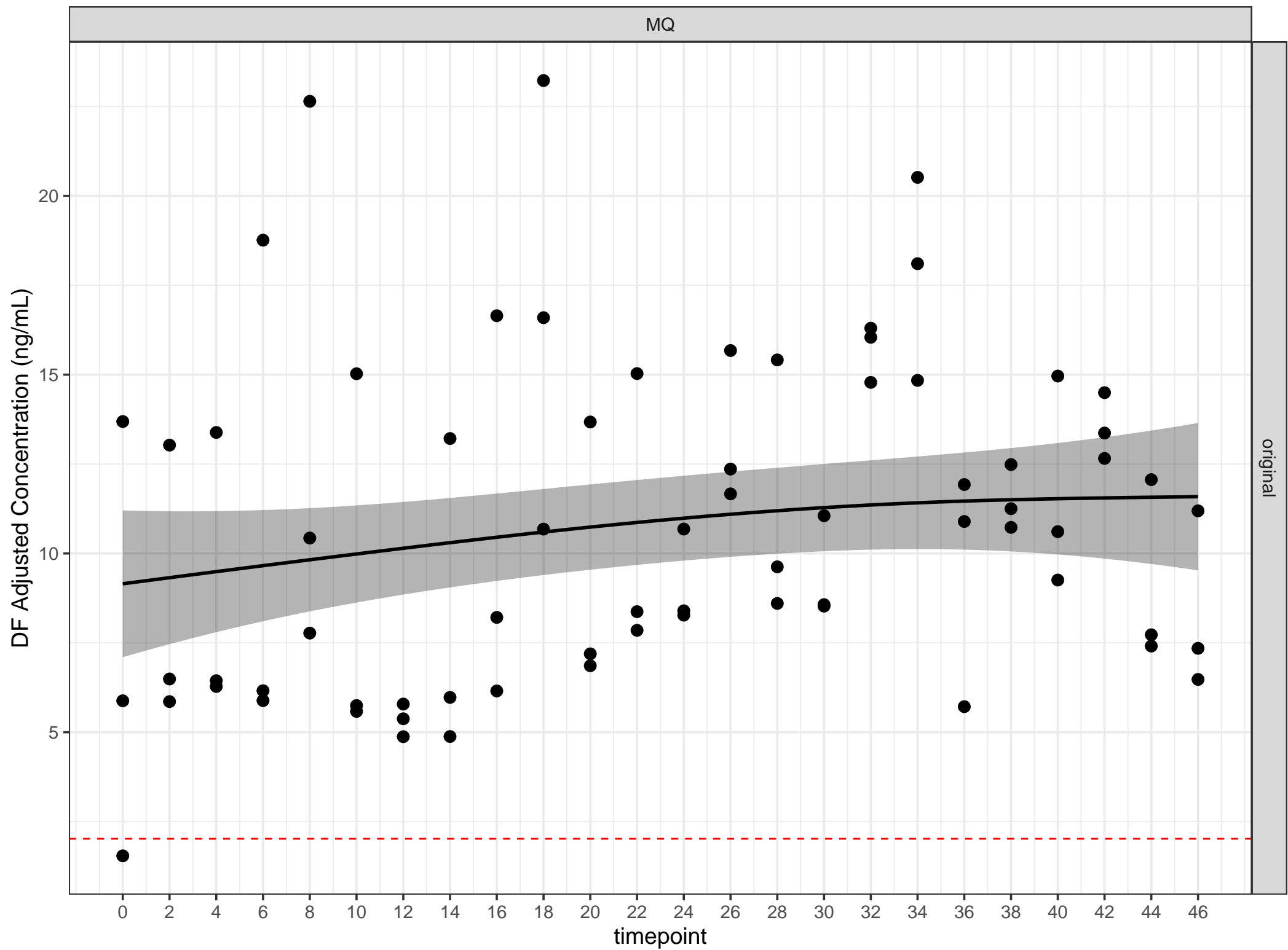
# kynurenine



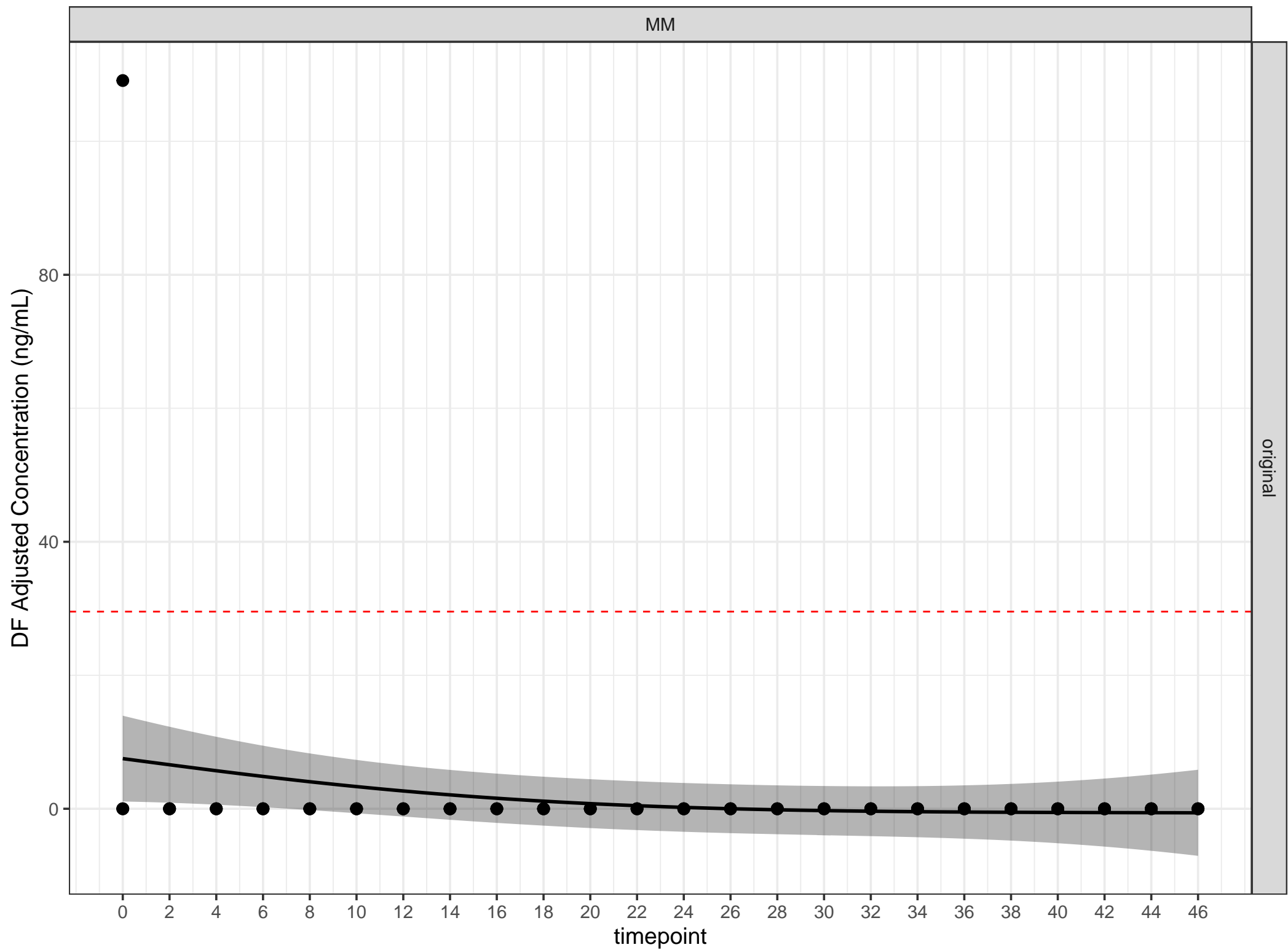
# leucine



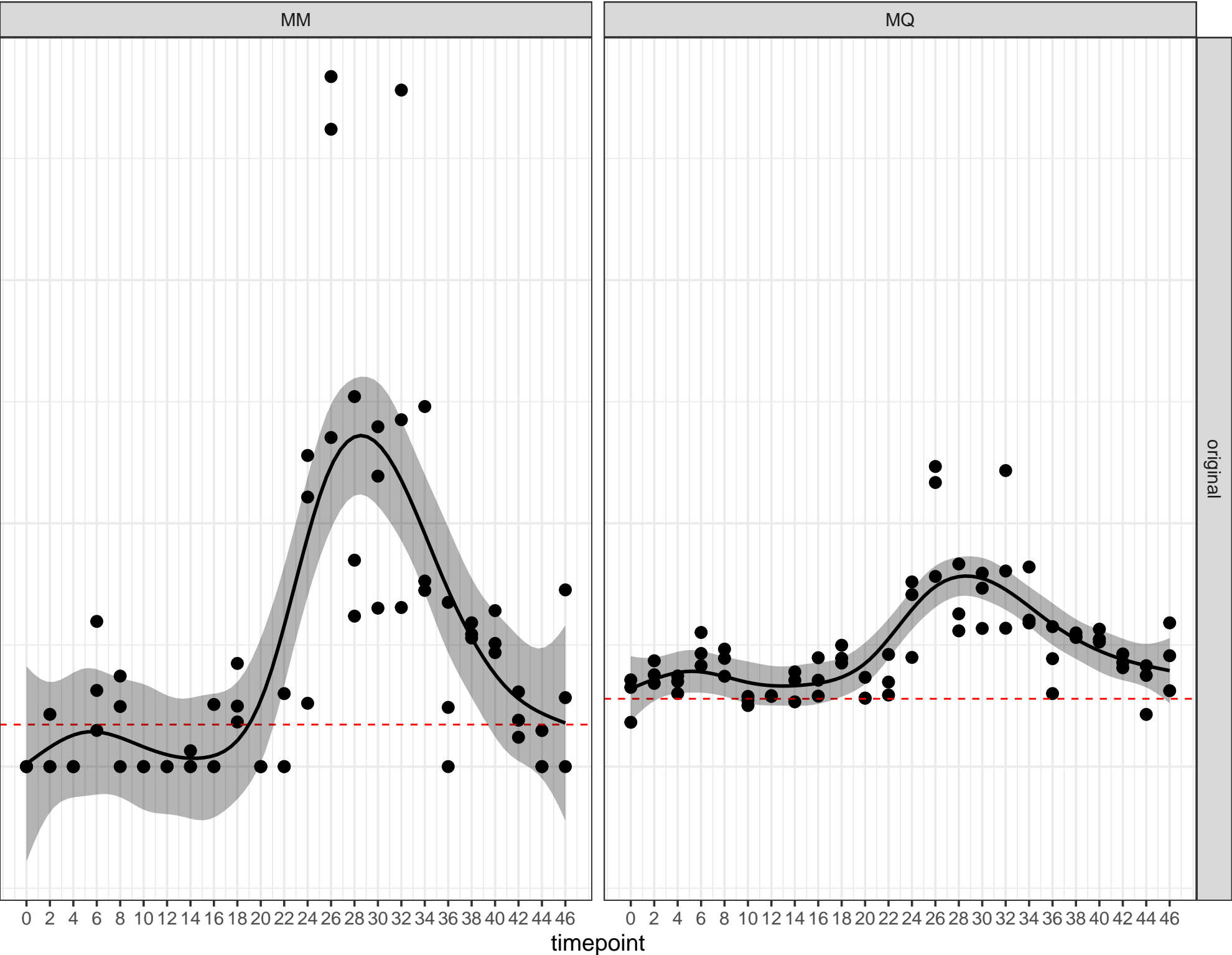
Iumichrome



malic acid

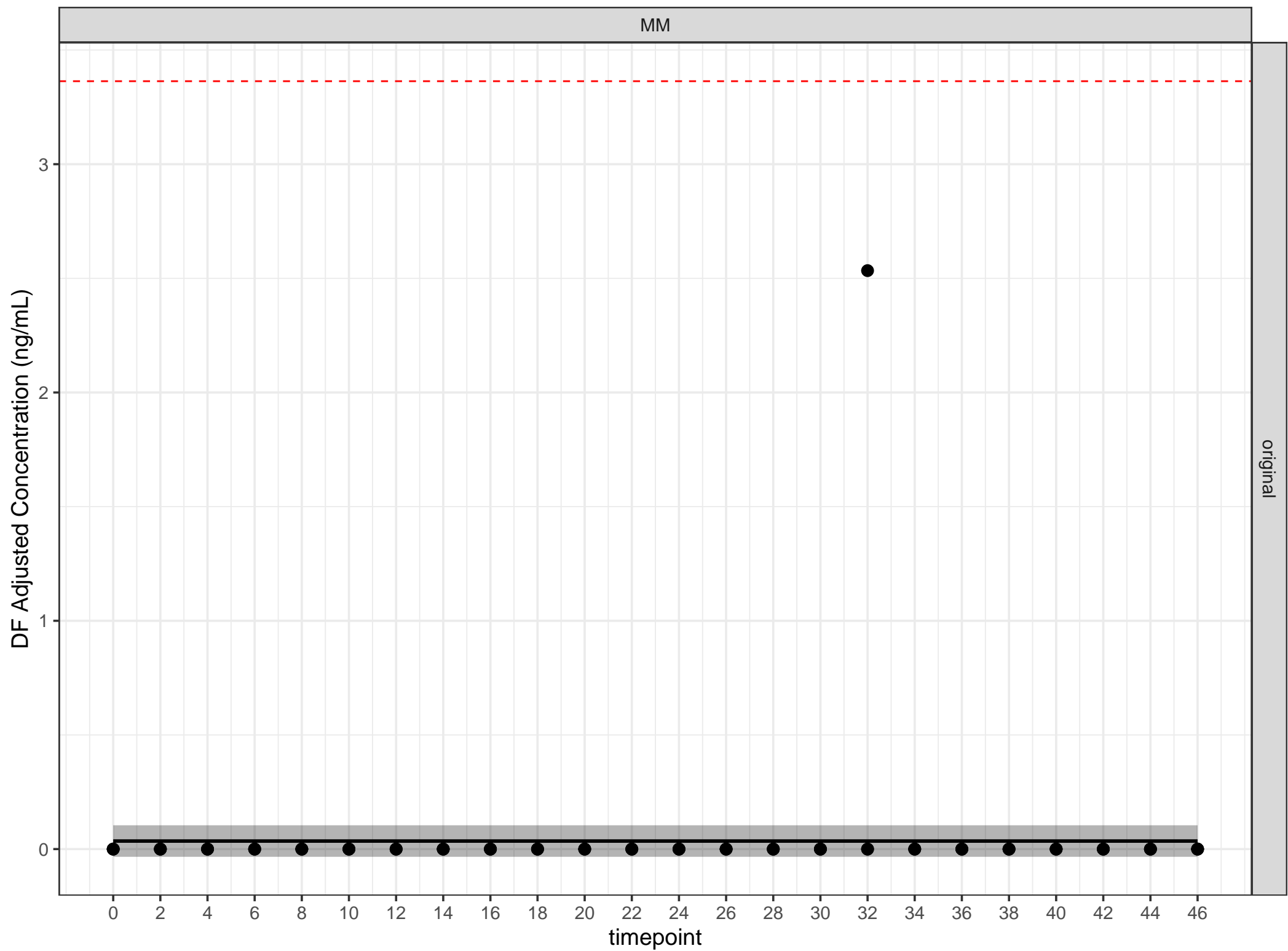


methionine

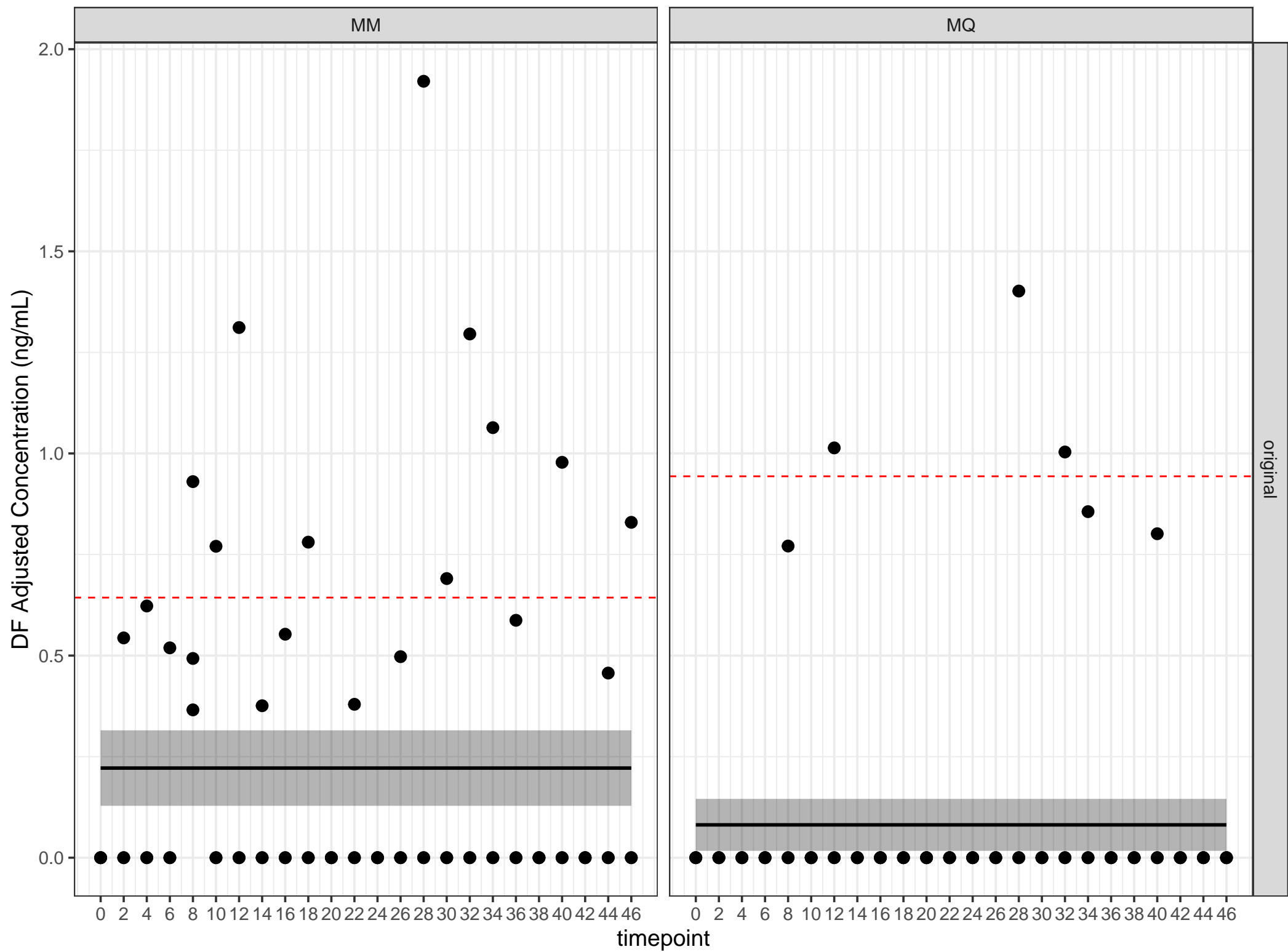




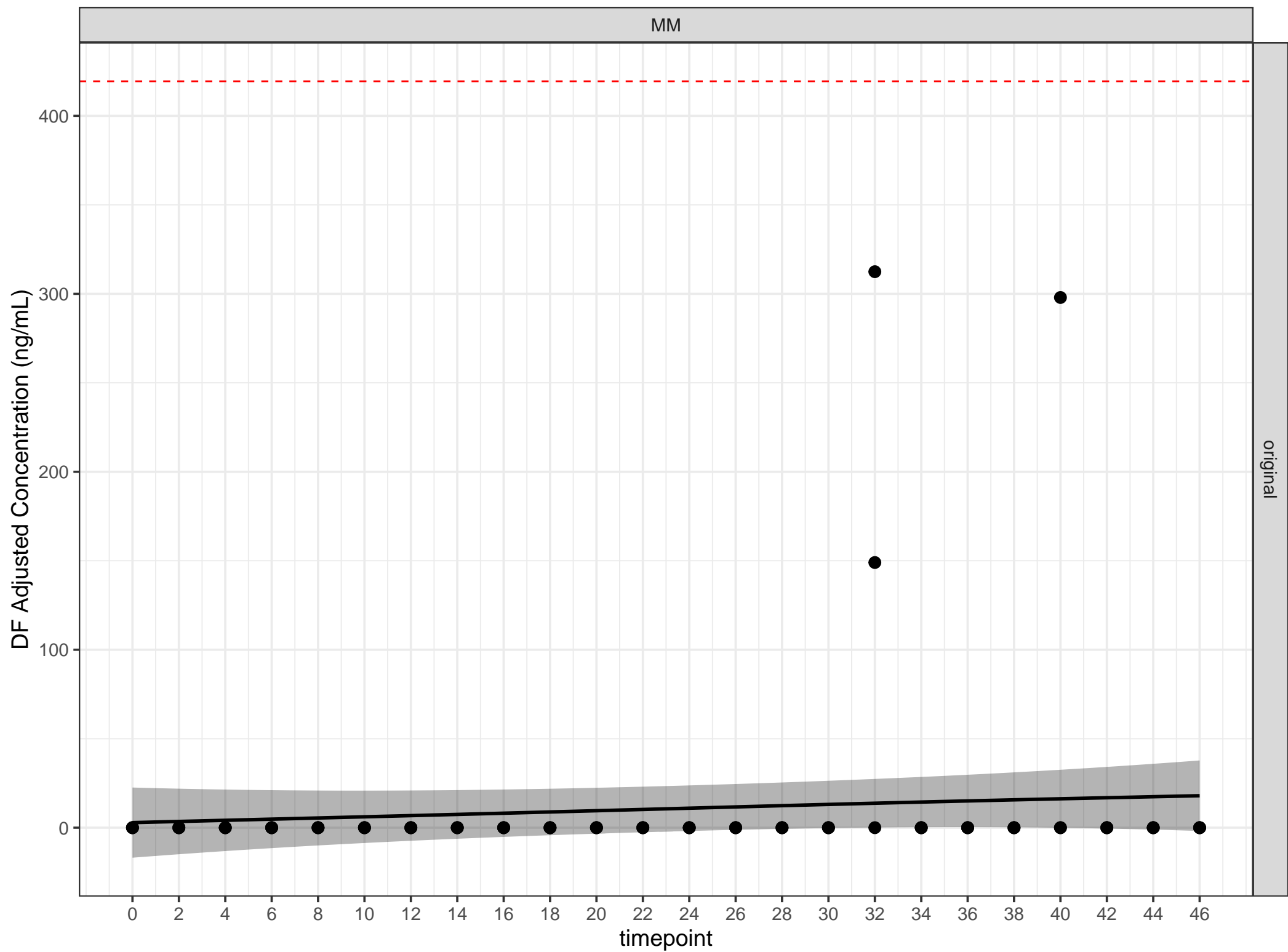
methylmalonic acid



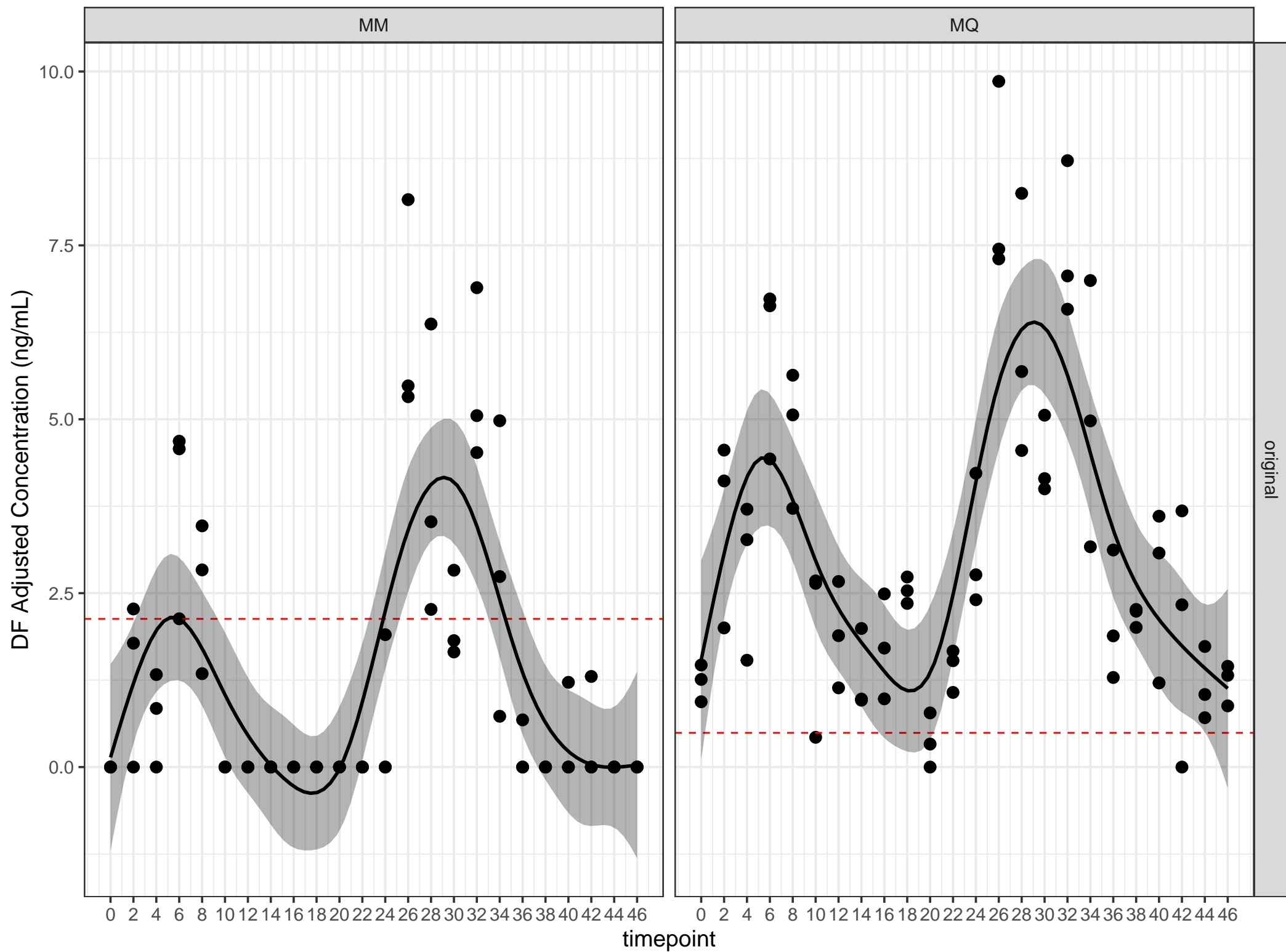
# muramic acid pos



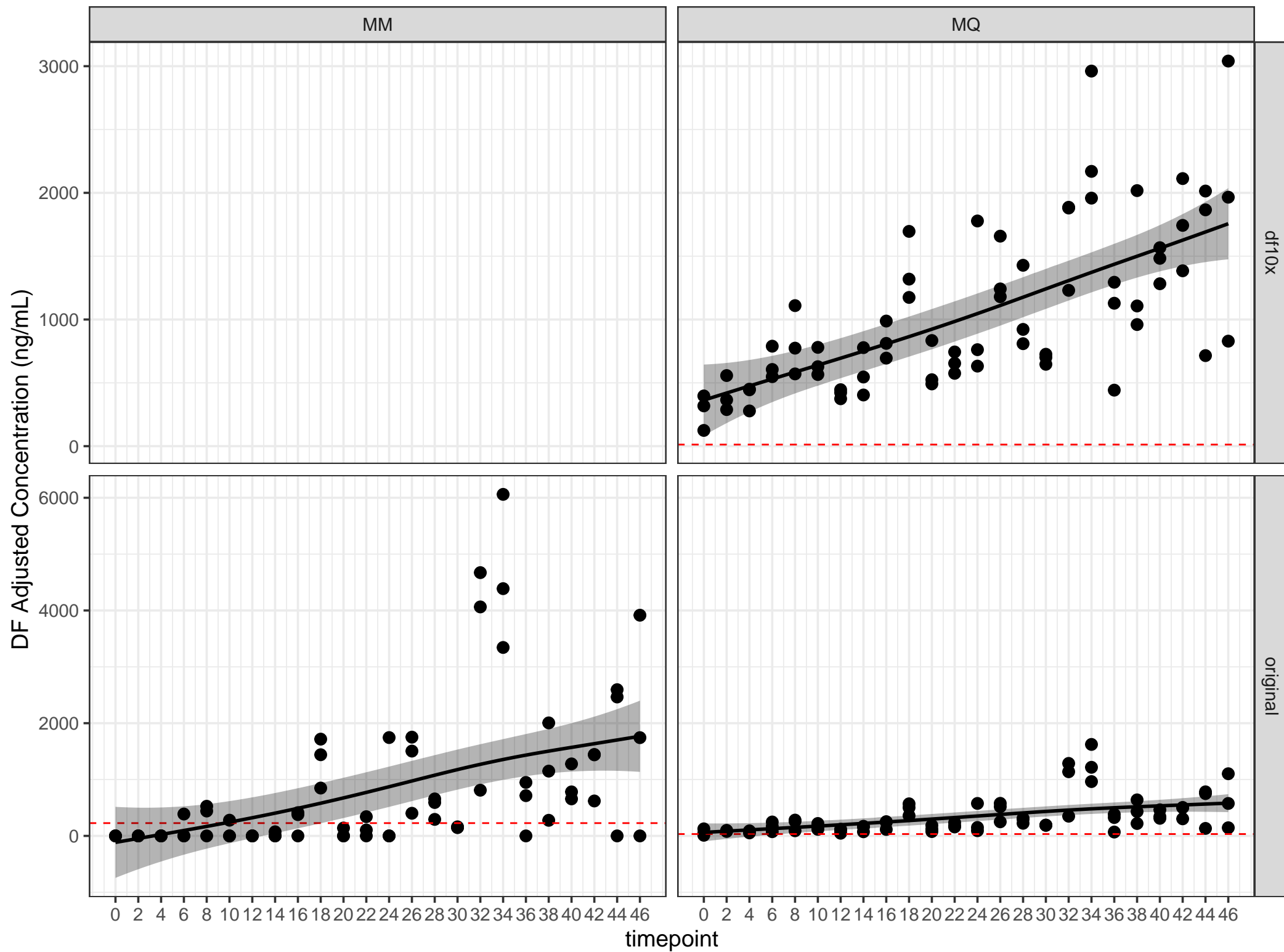
# n-acetyl-glucosamine-6-phosphate



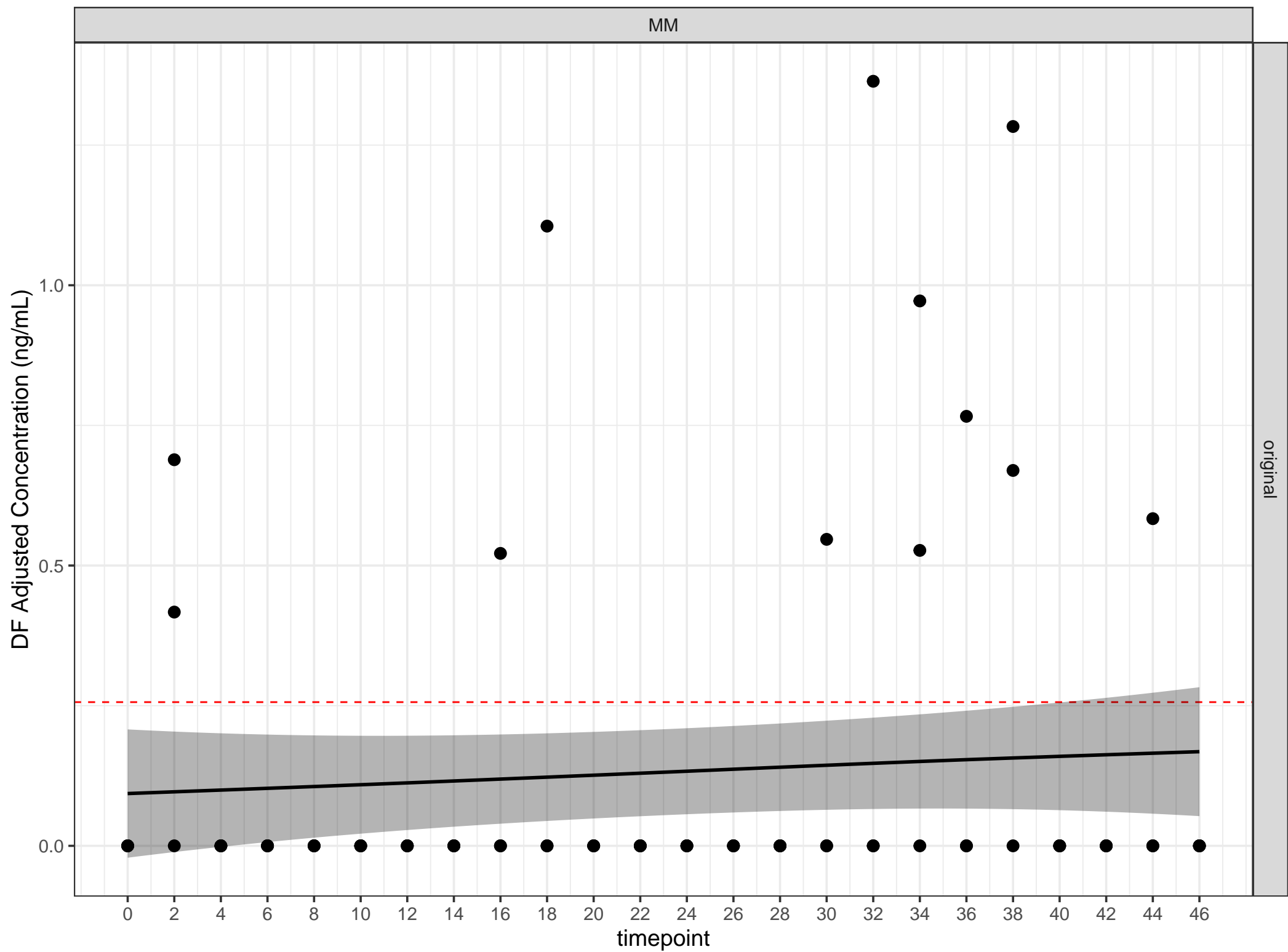
# n-acetylglucosamine204



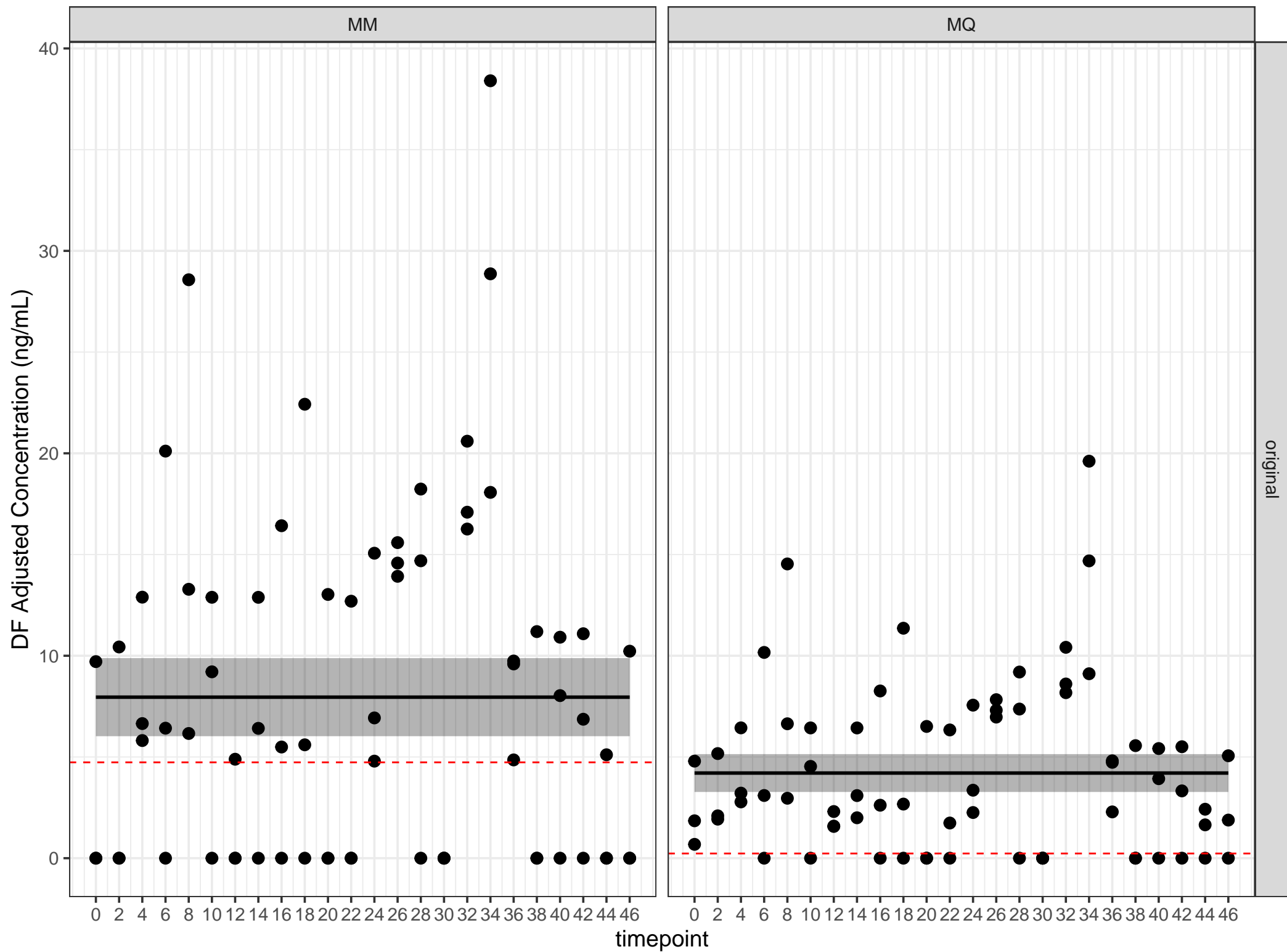
# n-acetylglutamic acid



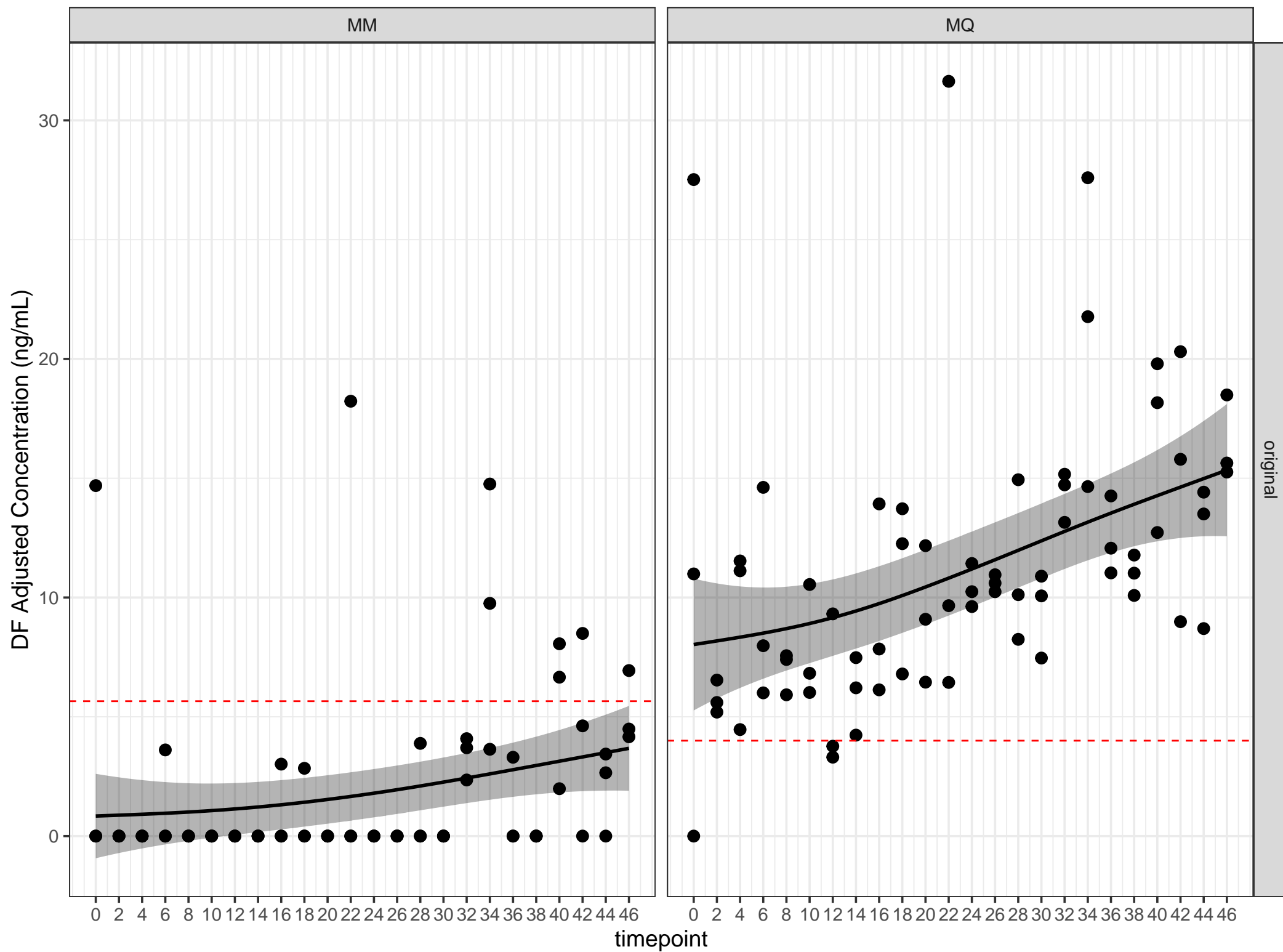
# n-acetylmuramic acid276



# niacin

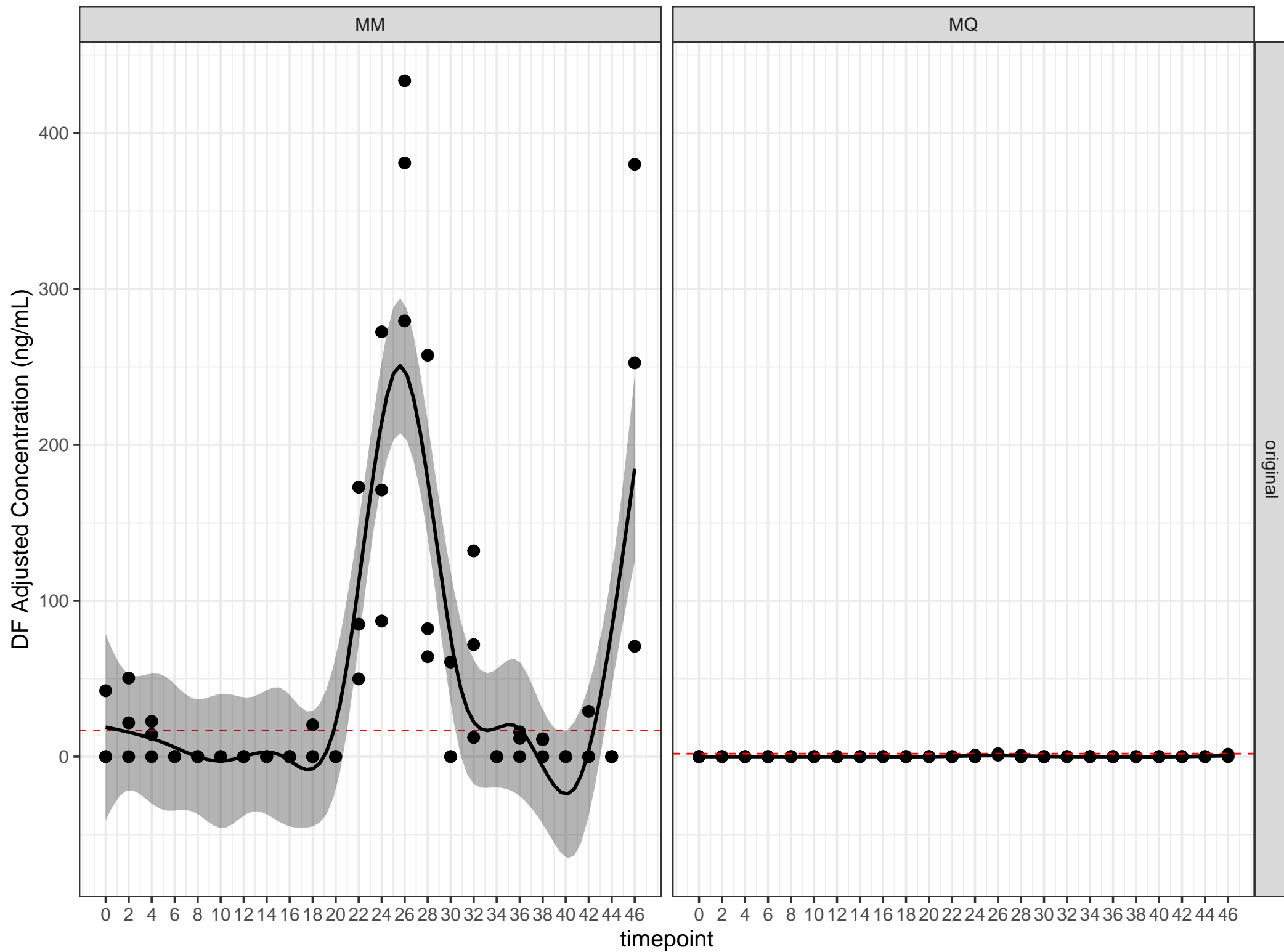


# nicotinamide

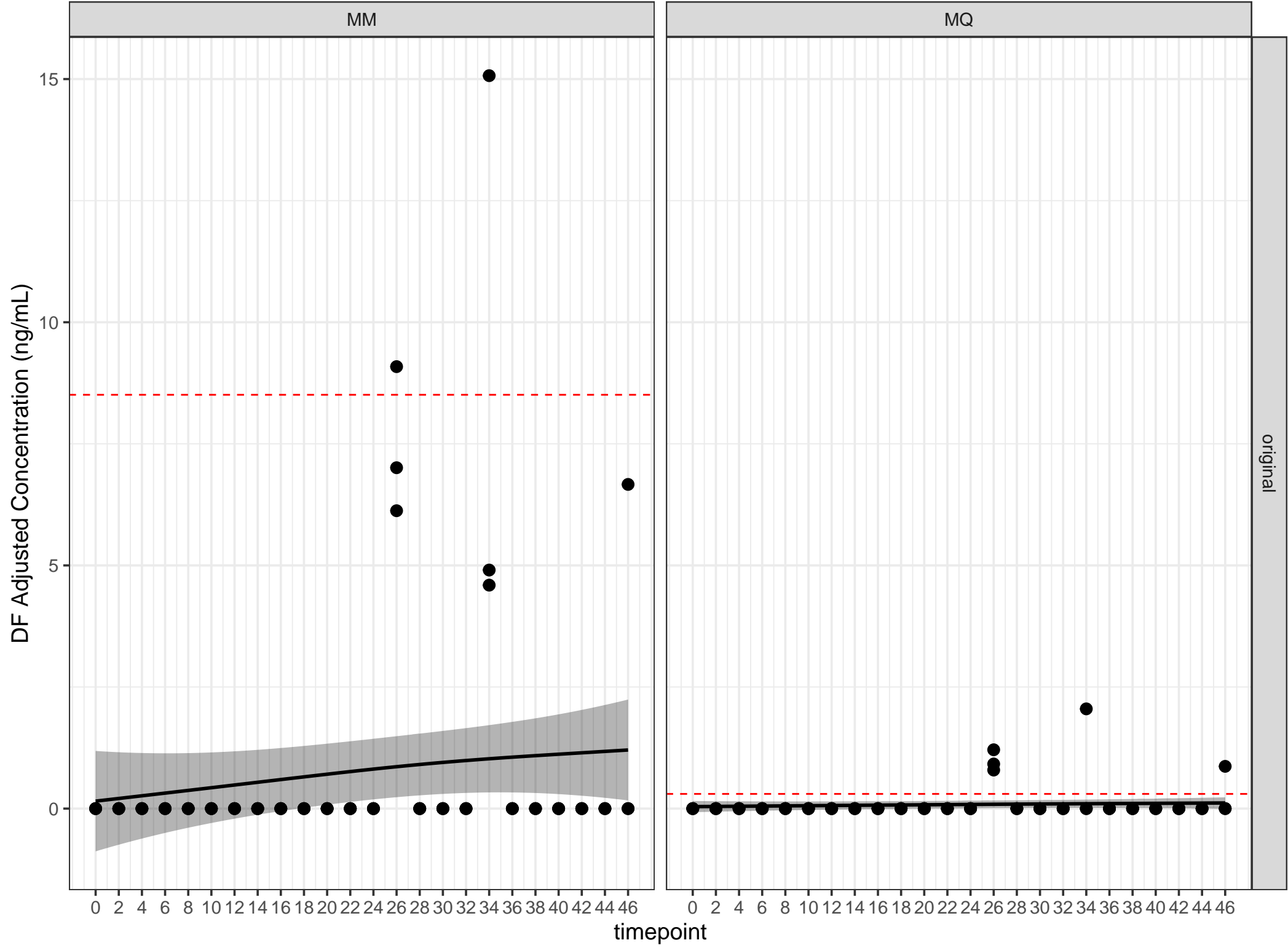




# ornithine



orotic acid



# pantoic acid

DF Adjusted Concentration (ng/mL)

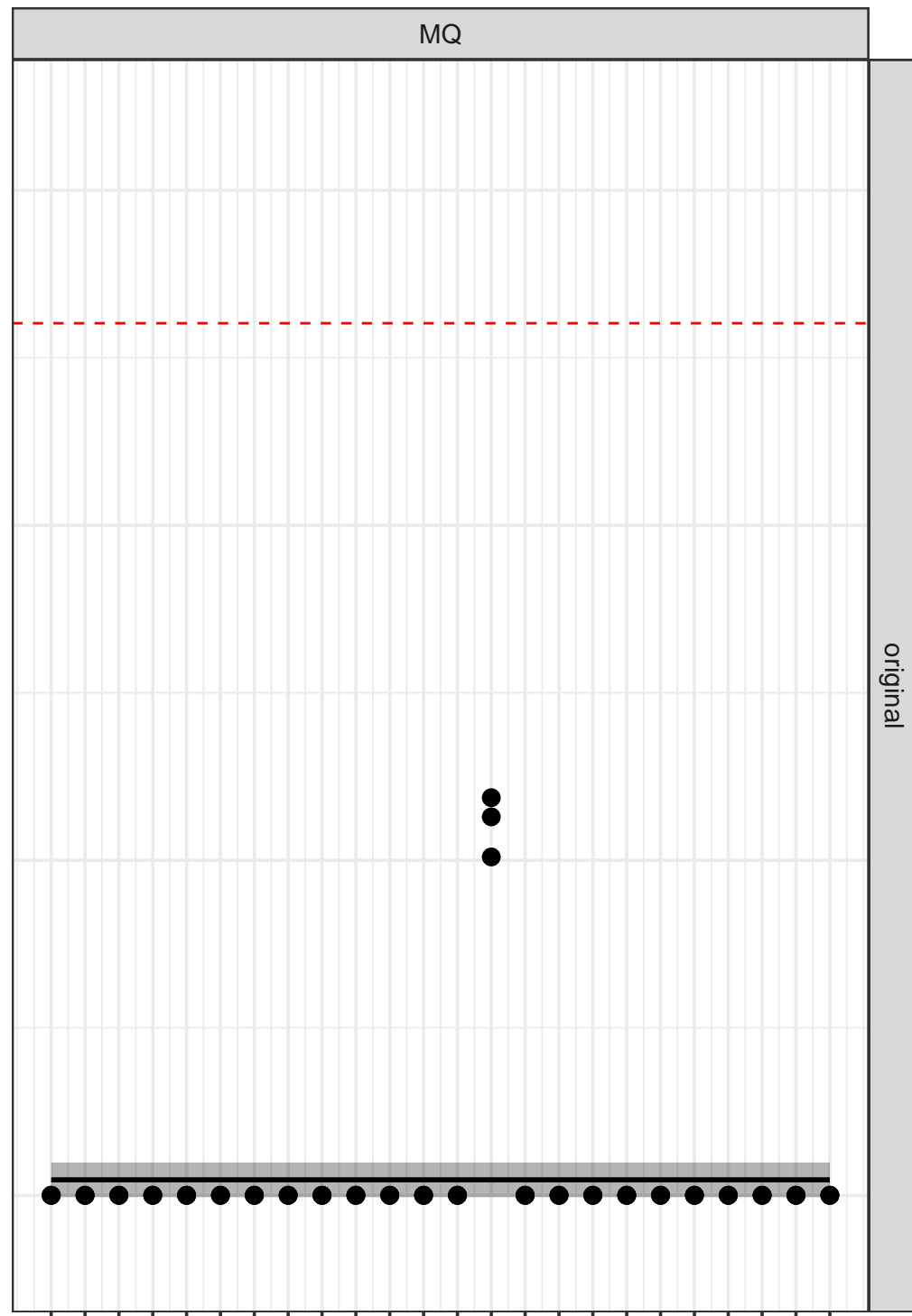
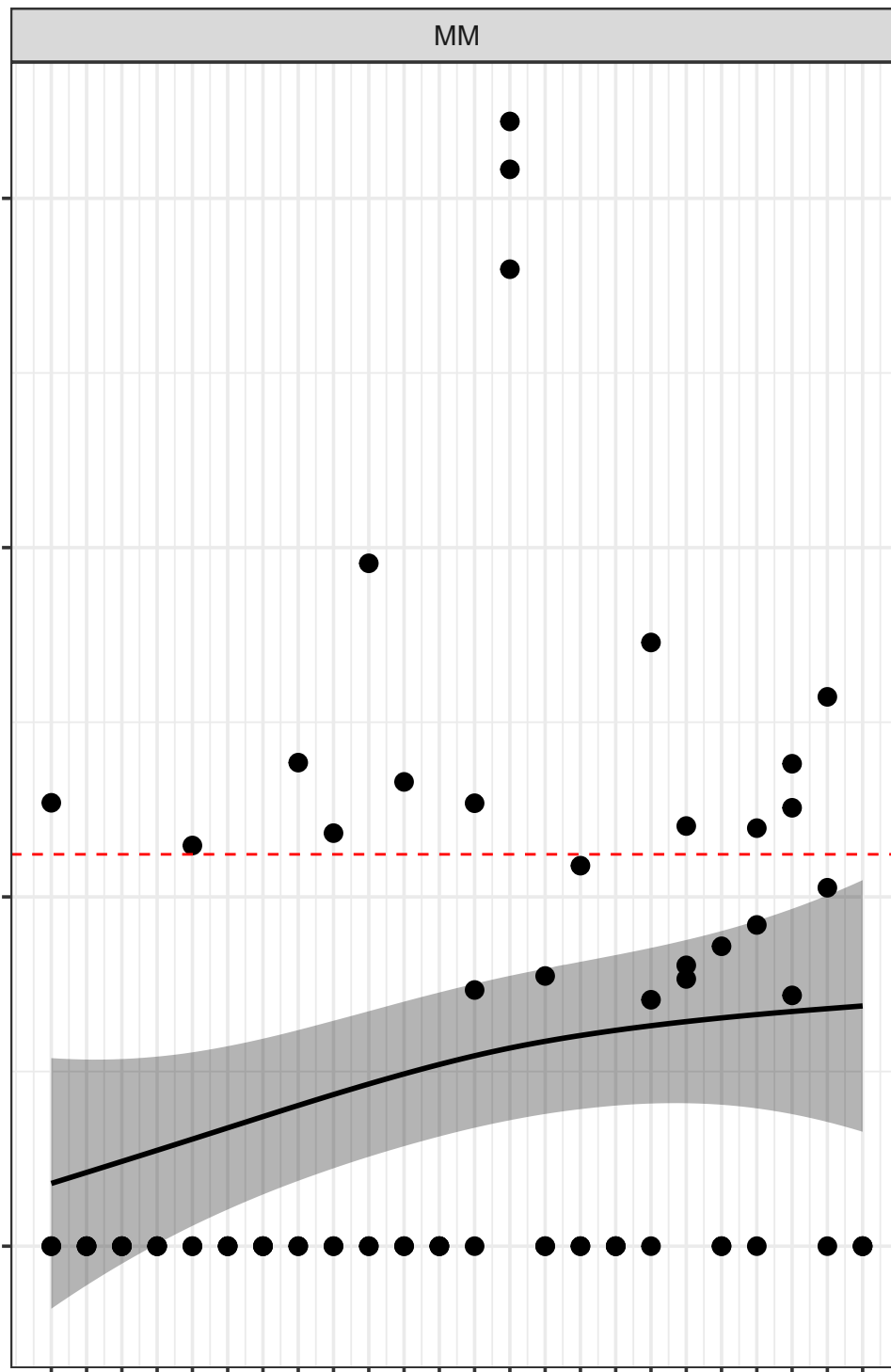
MM

MQ

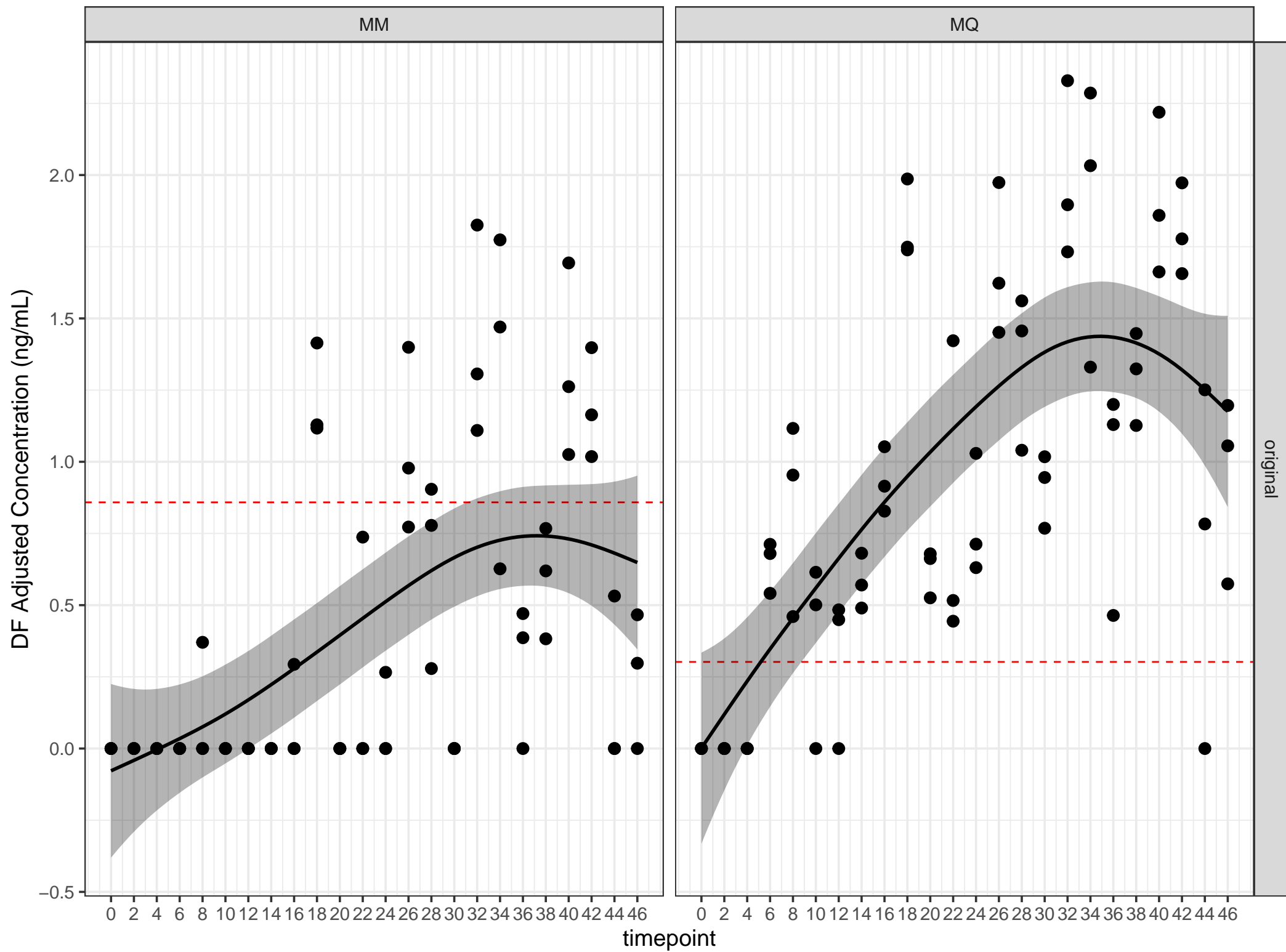
original

1.5  
1.0  
0.5  
0.0

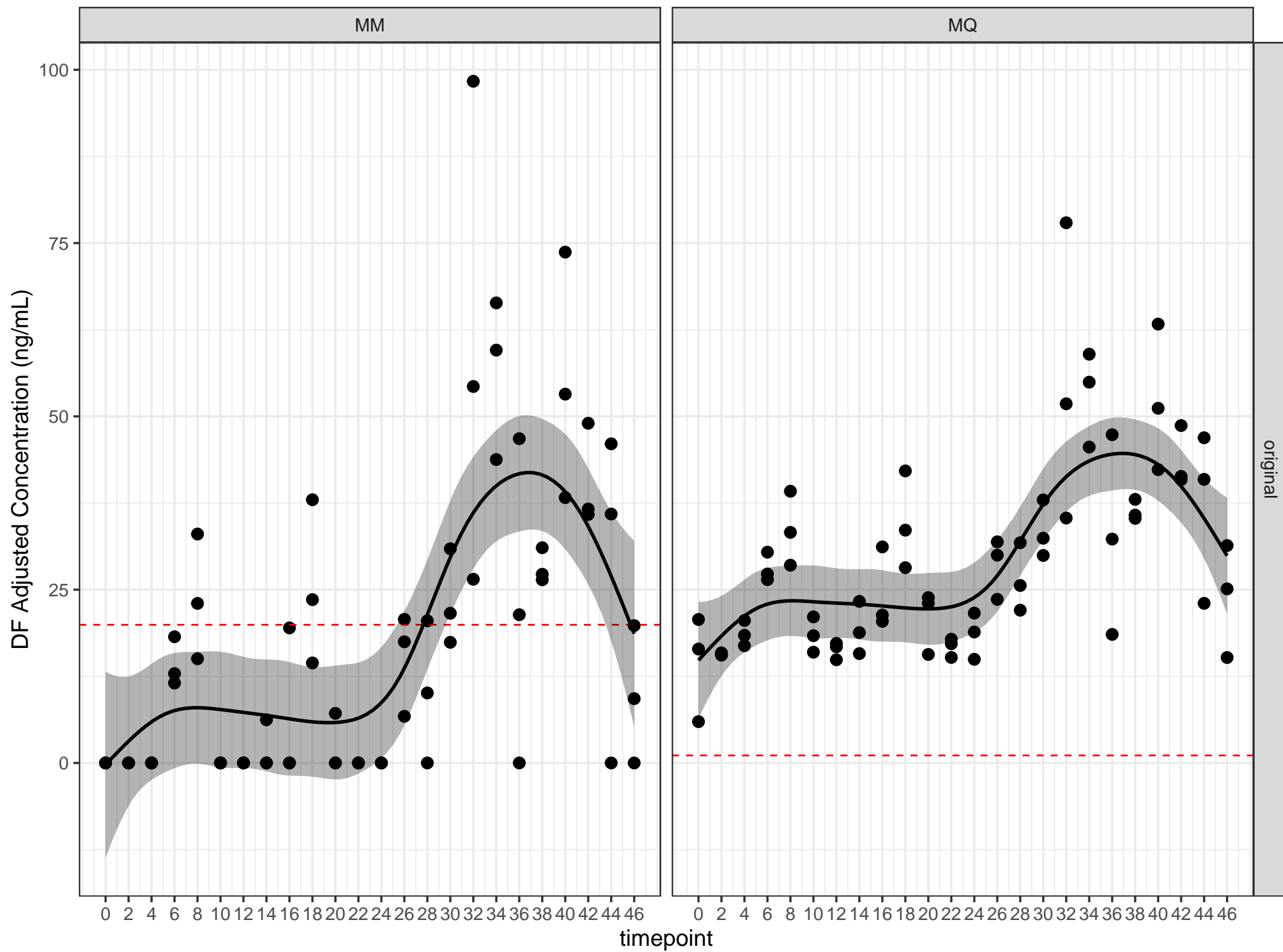
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46  
timepoint



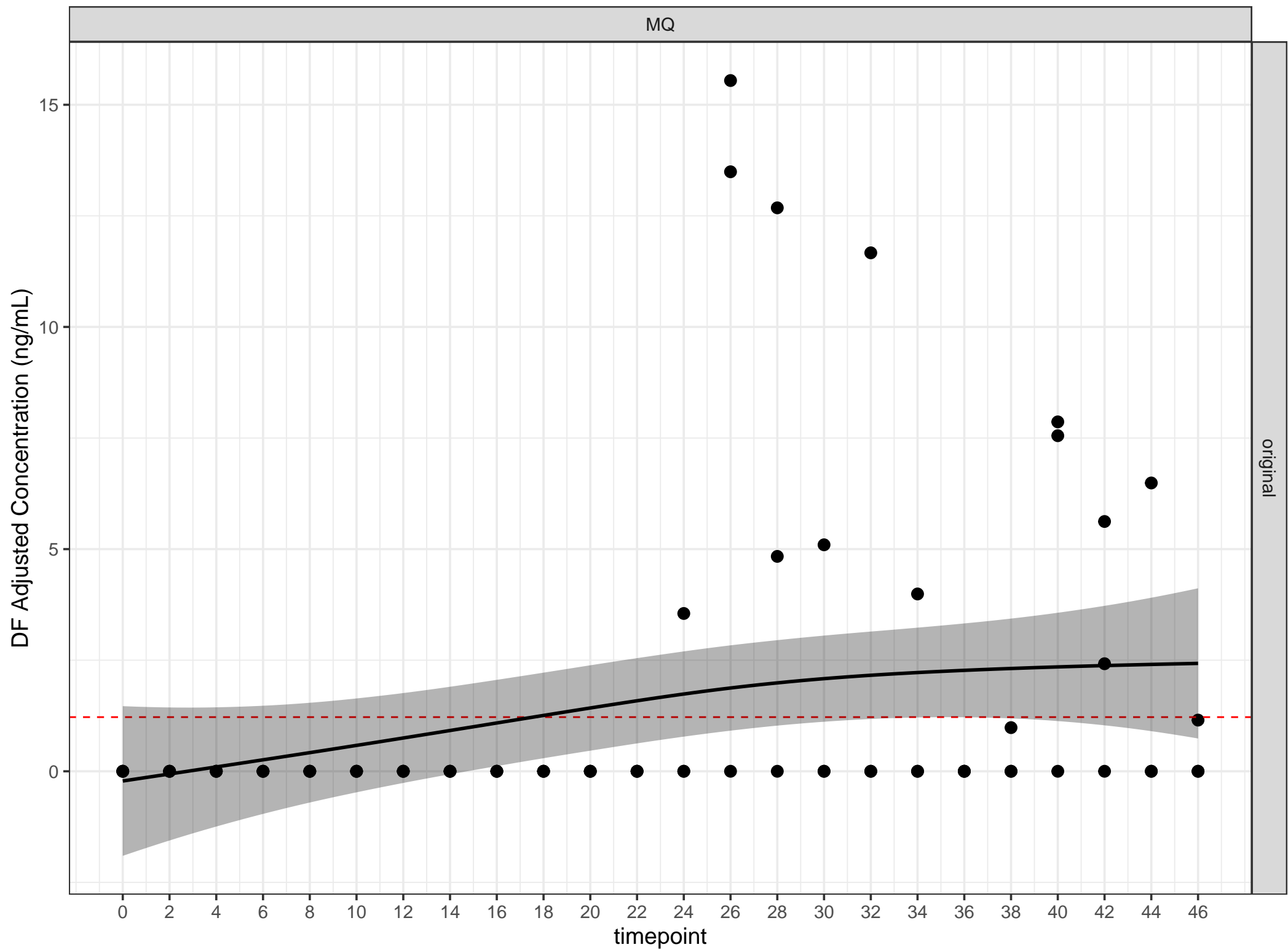
pantothenic acid neg



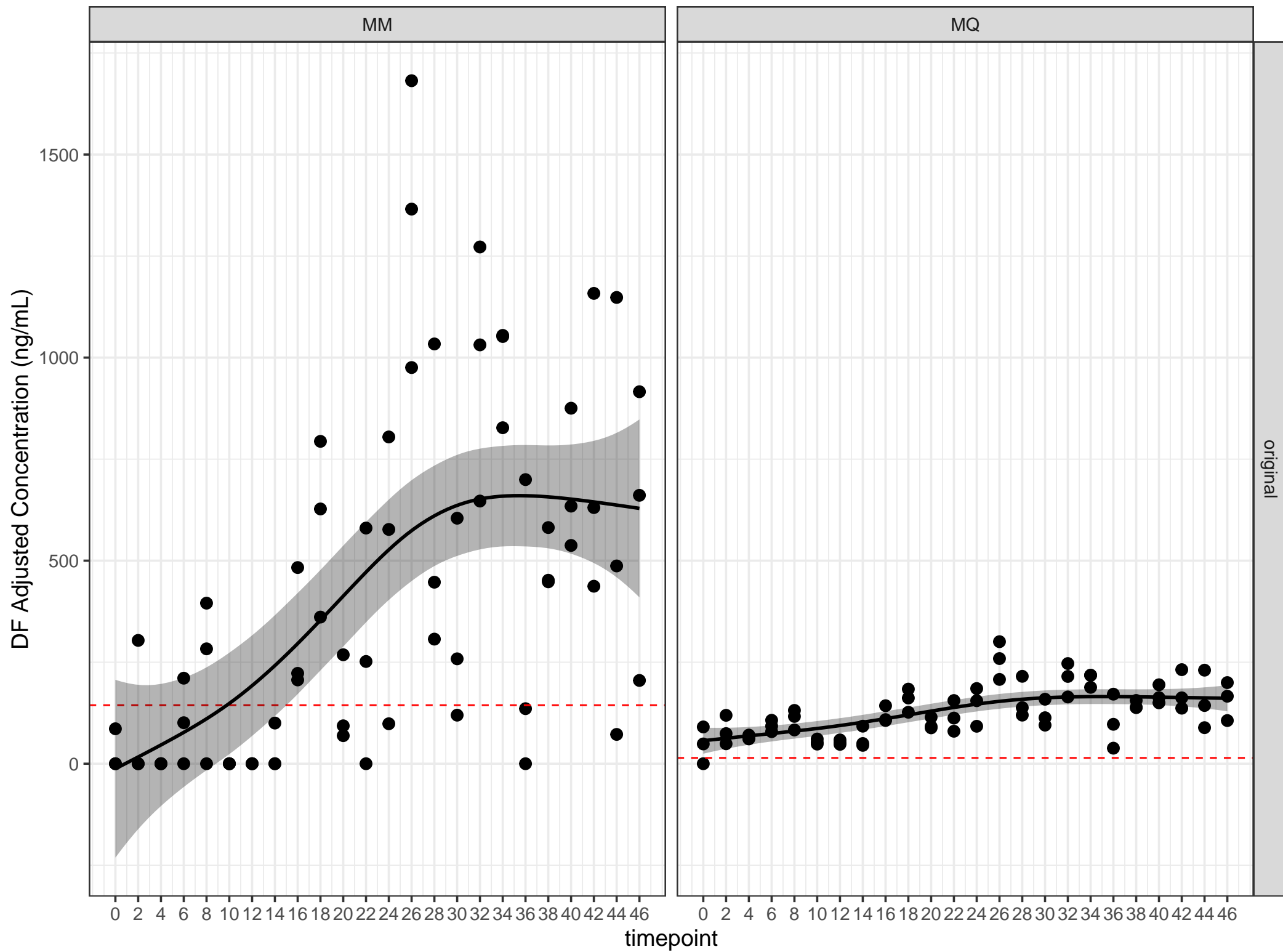
# phenylalanine



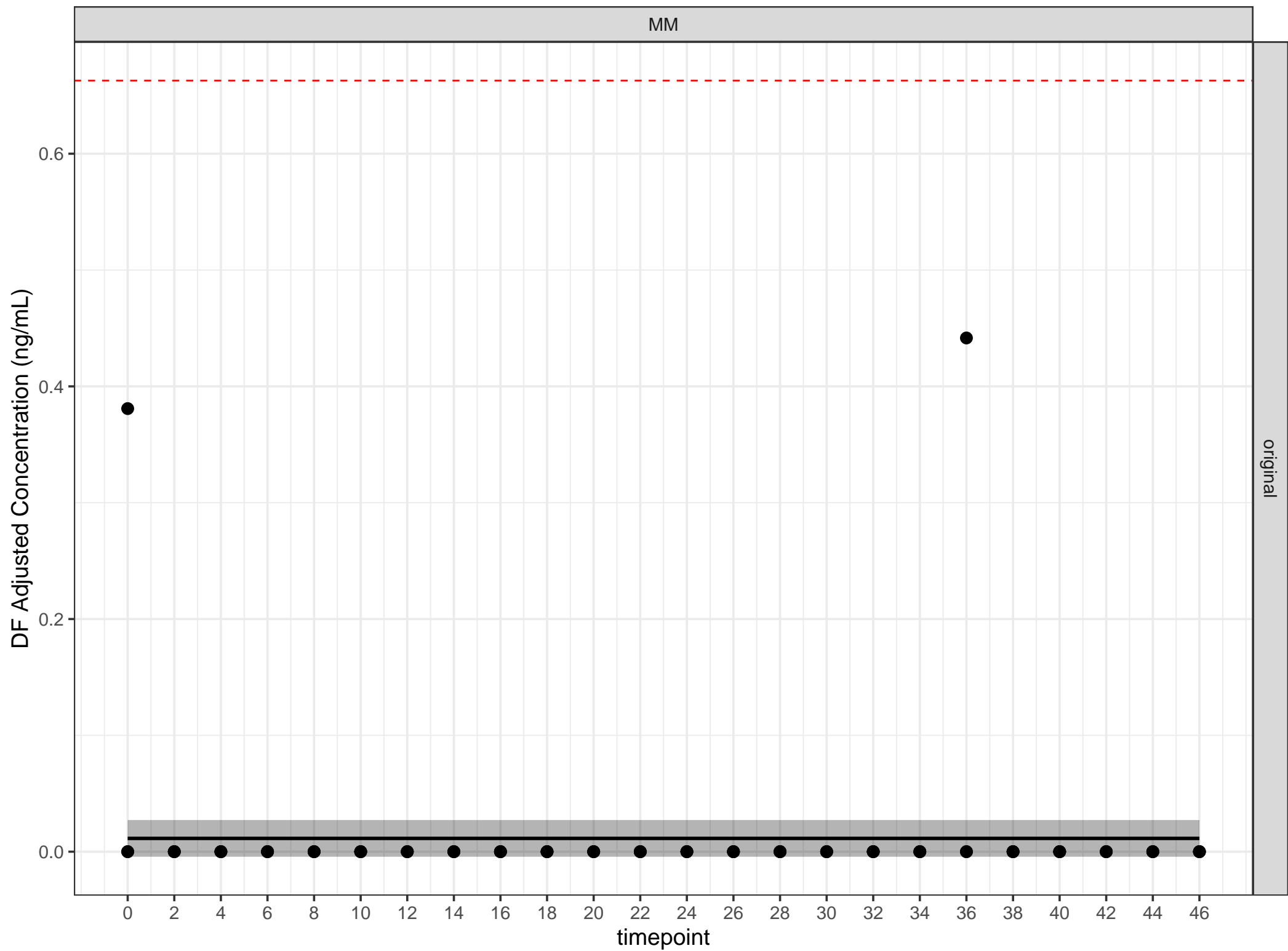
phosphoglyceric acid



proline

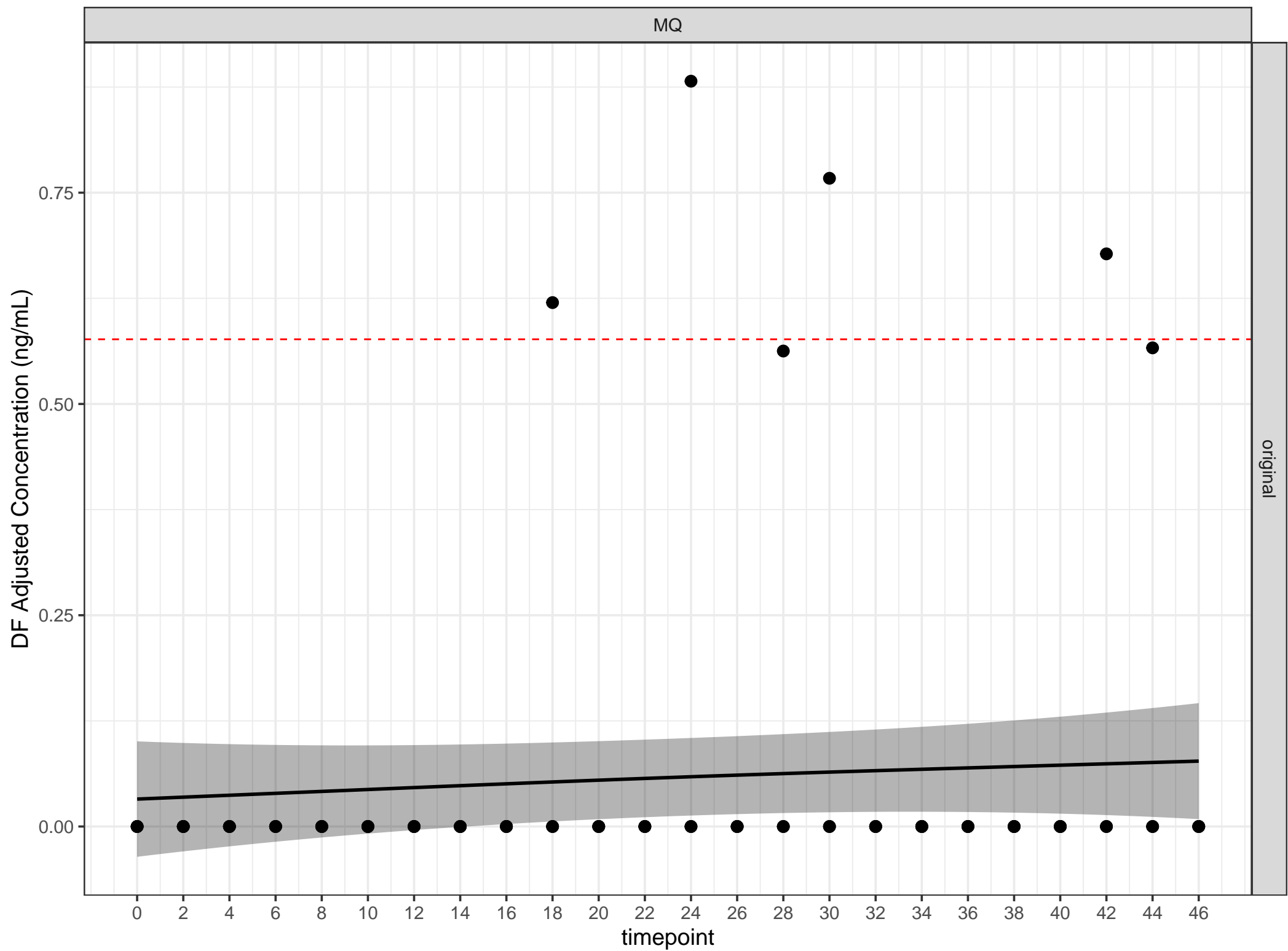


pyridoxine

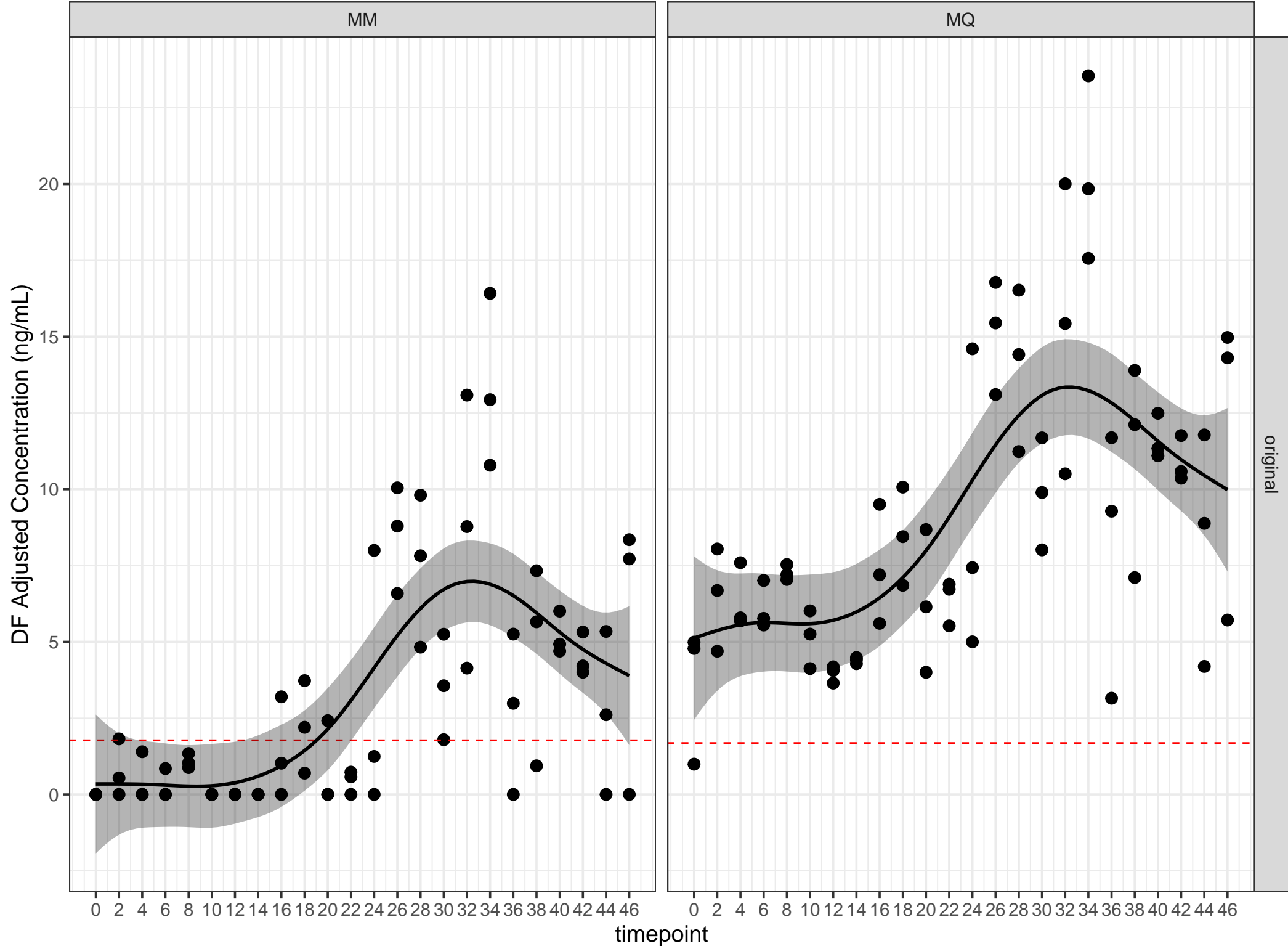




# ribose-5-phosphate



s-(5'-adenosyl)-L-homocysteine pos



# s-adenosyl-l-methionine

DF Adjusted Concentration (ng/mL)

MM

MQ

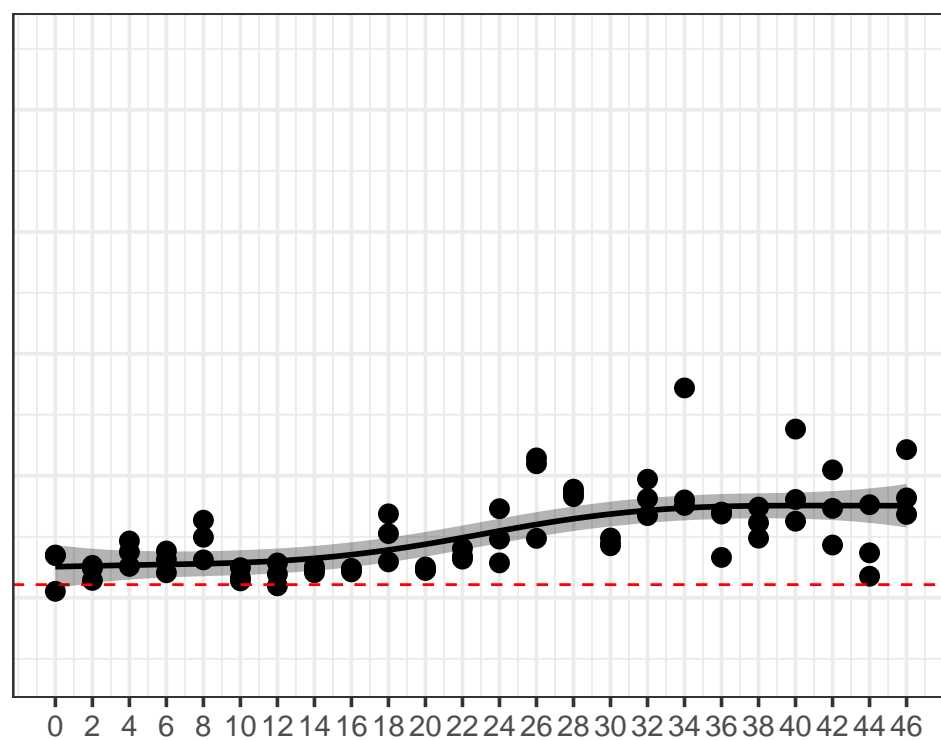
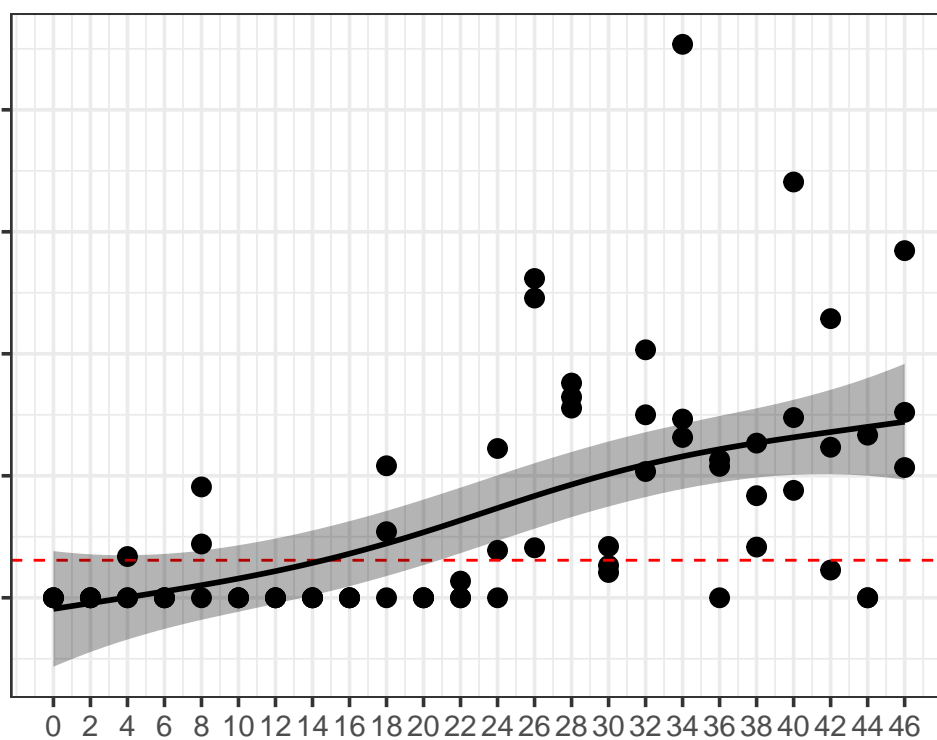
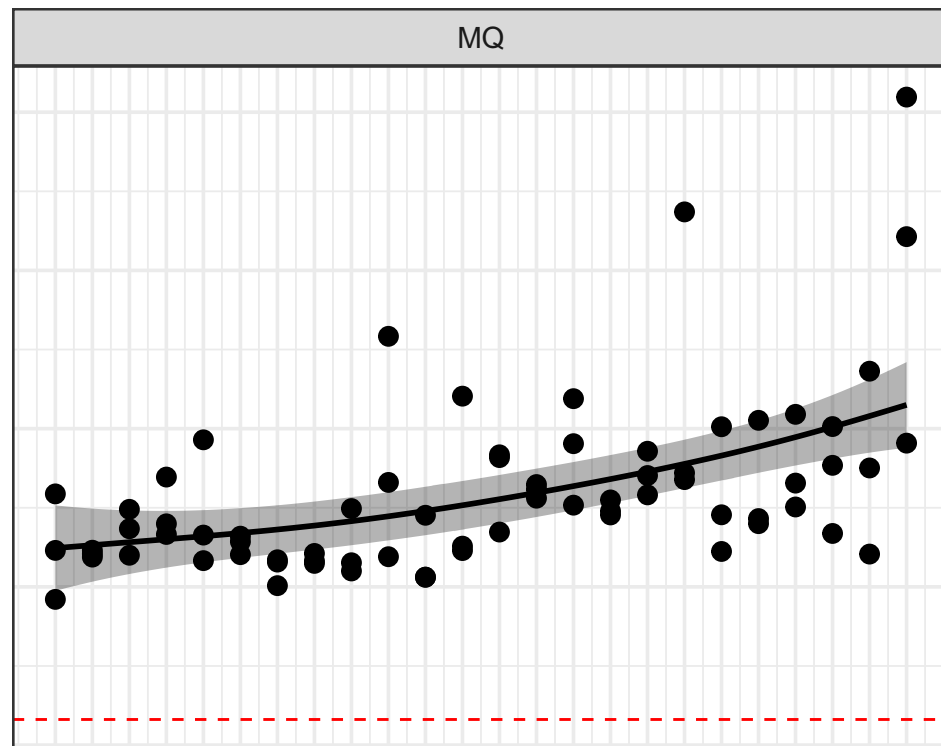
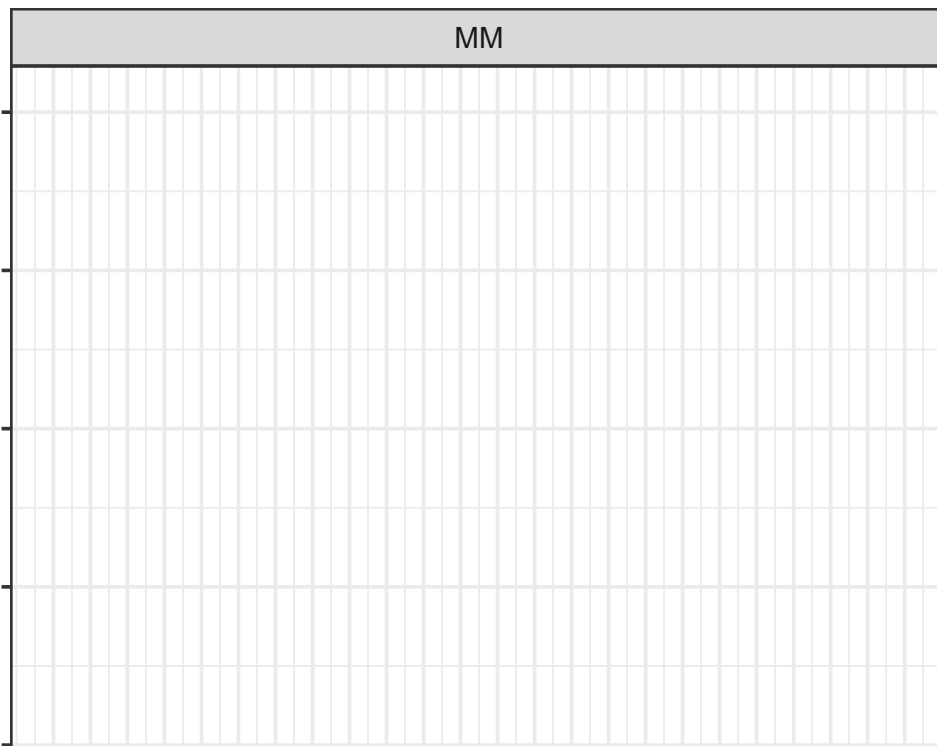
df10x

original

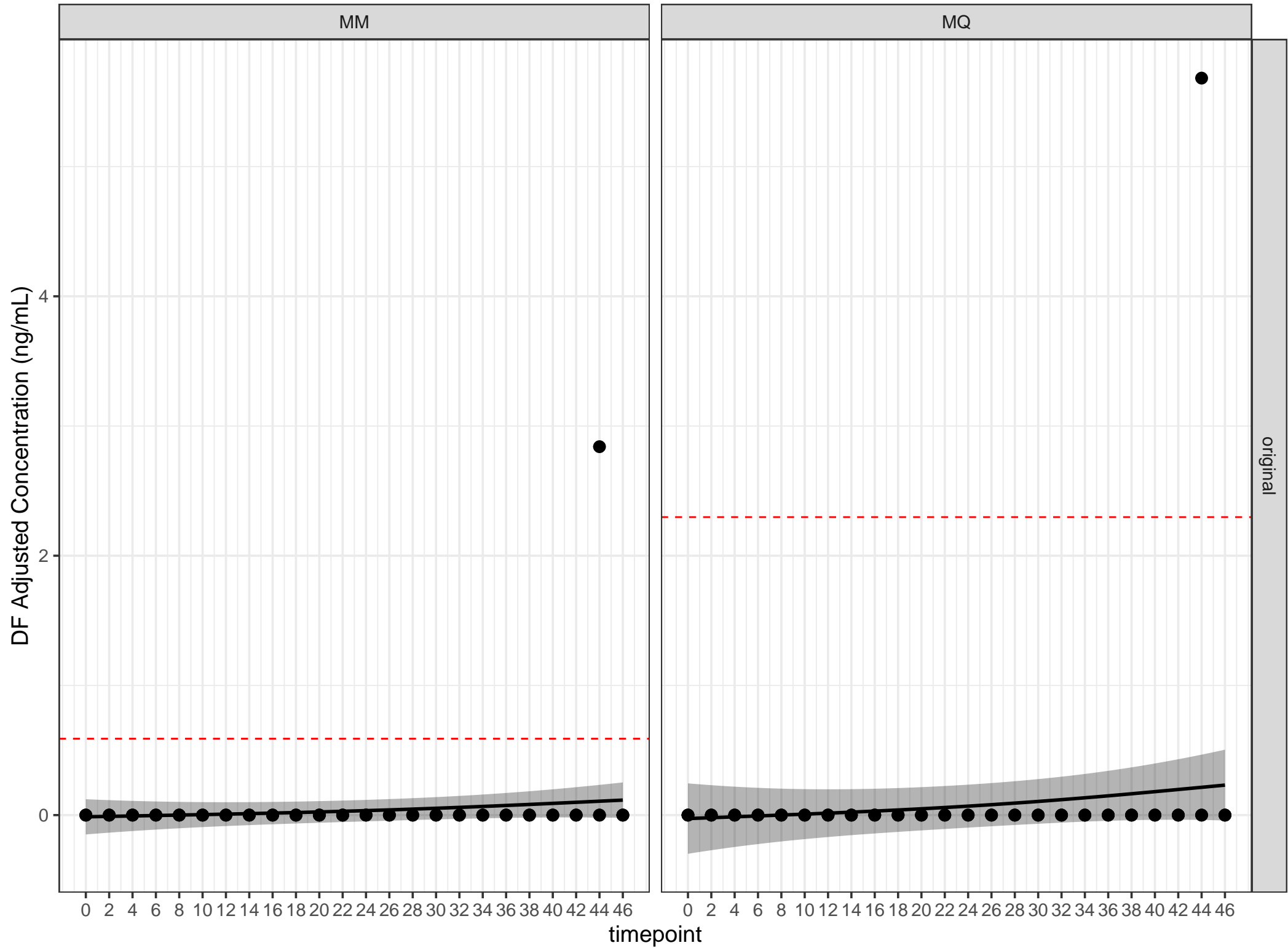
1000  
750  
500  
250  
0

4000  
3000  
2000  
1000  
0

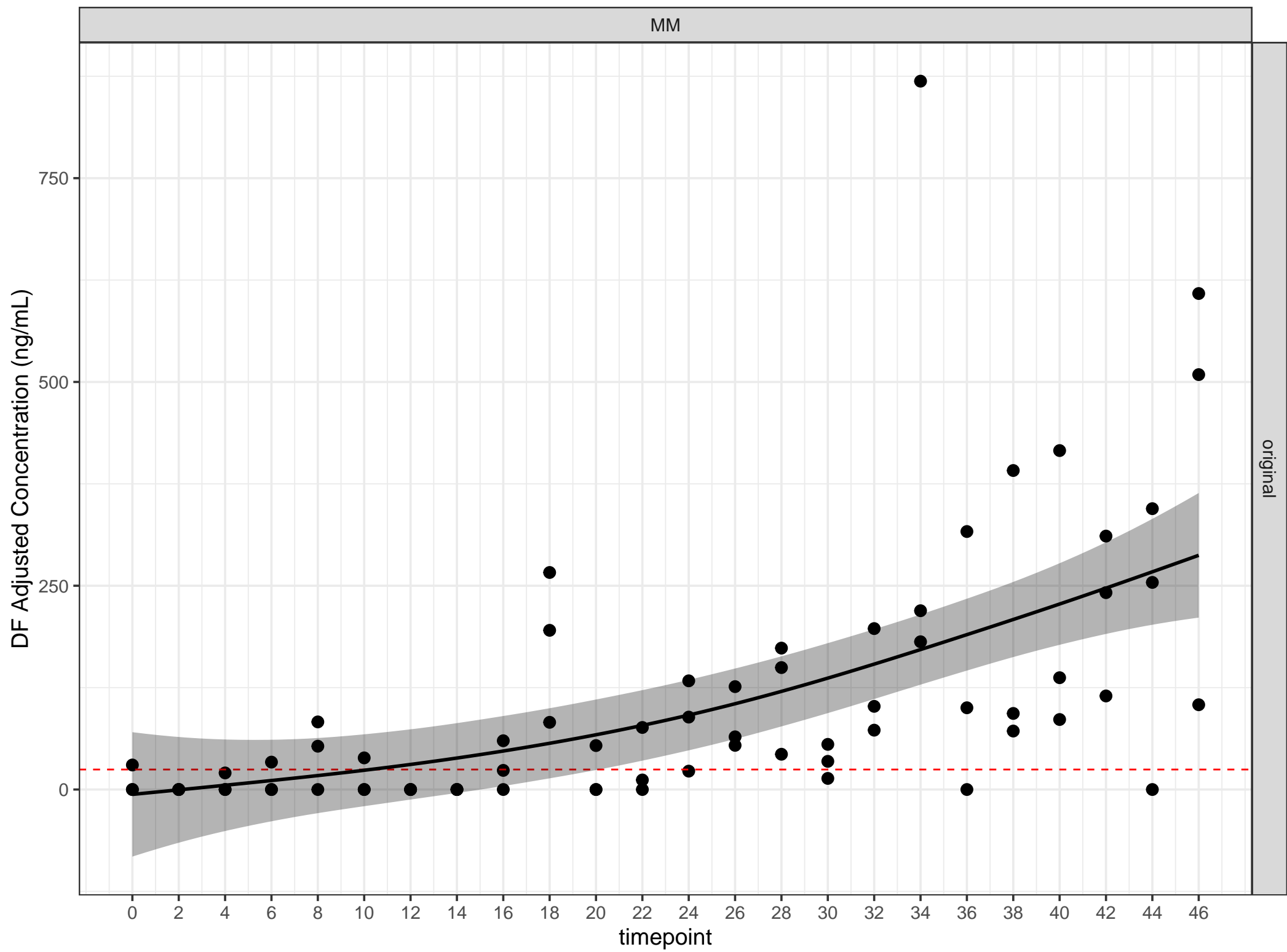
timepoint



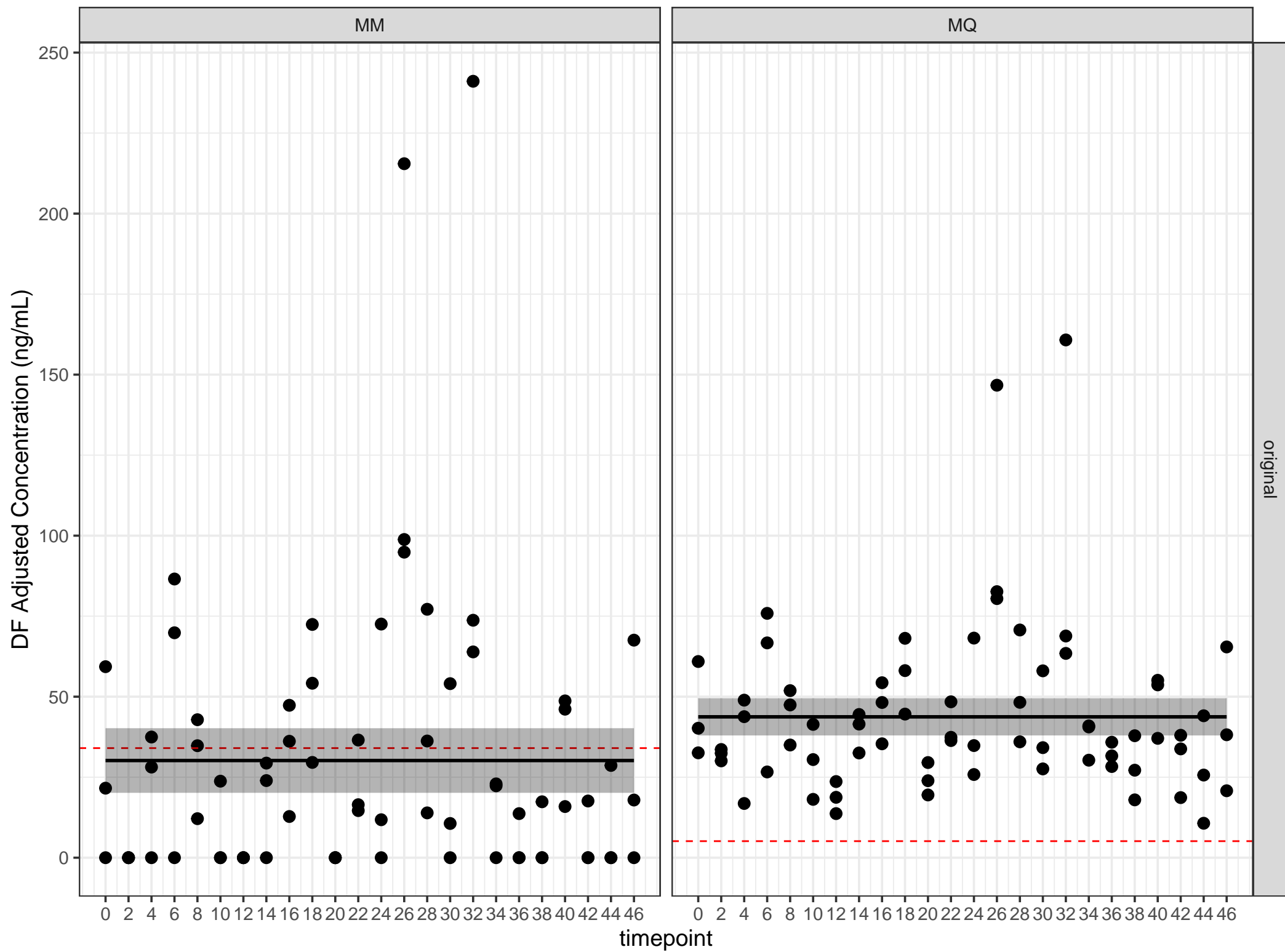
sodium taurocholate



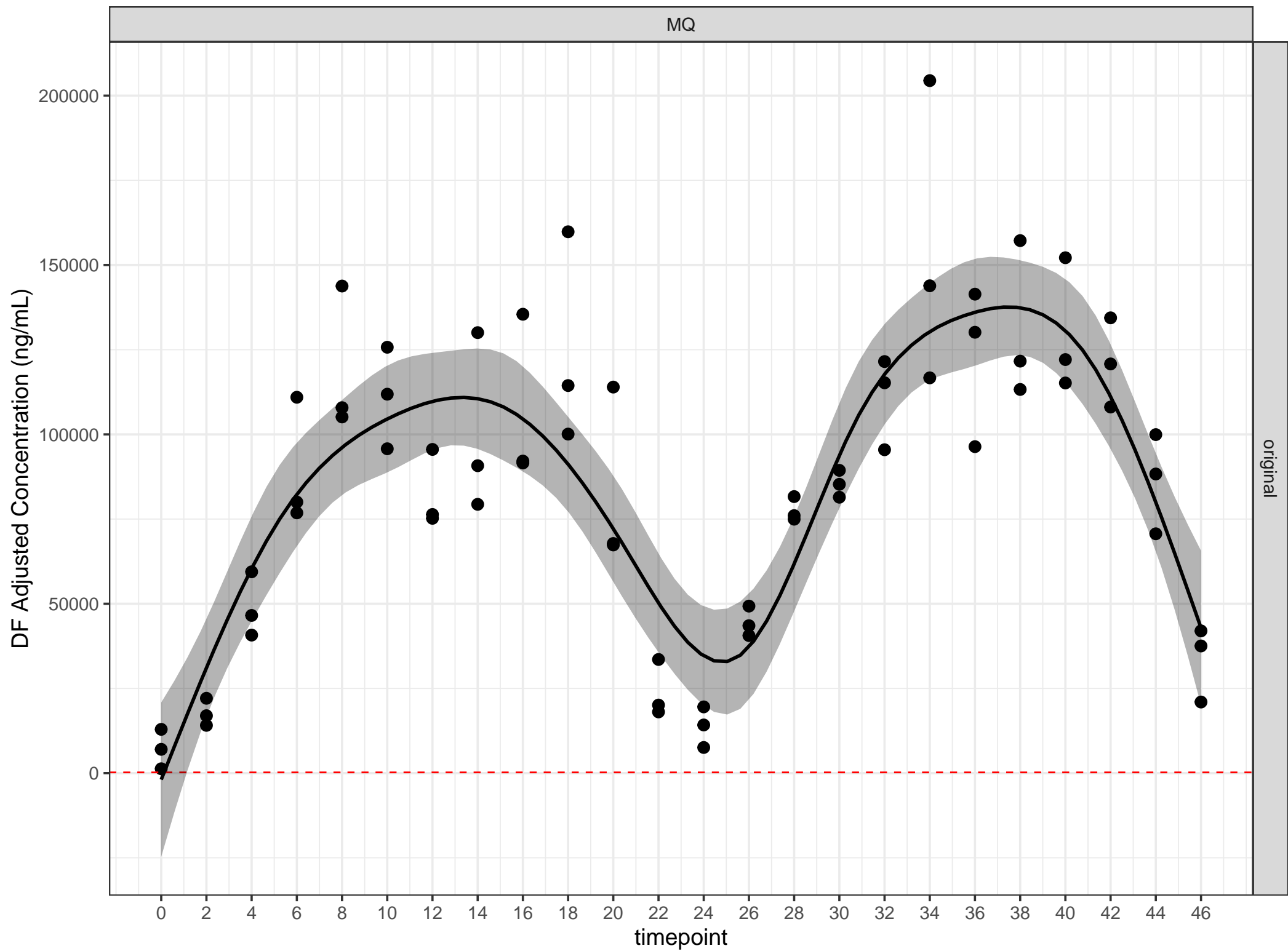
spermidine



# succinic acid

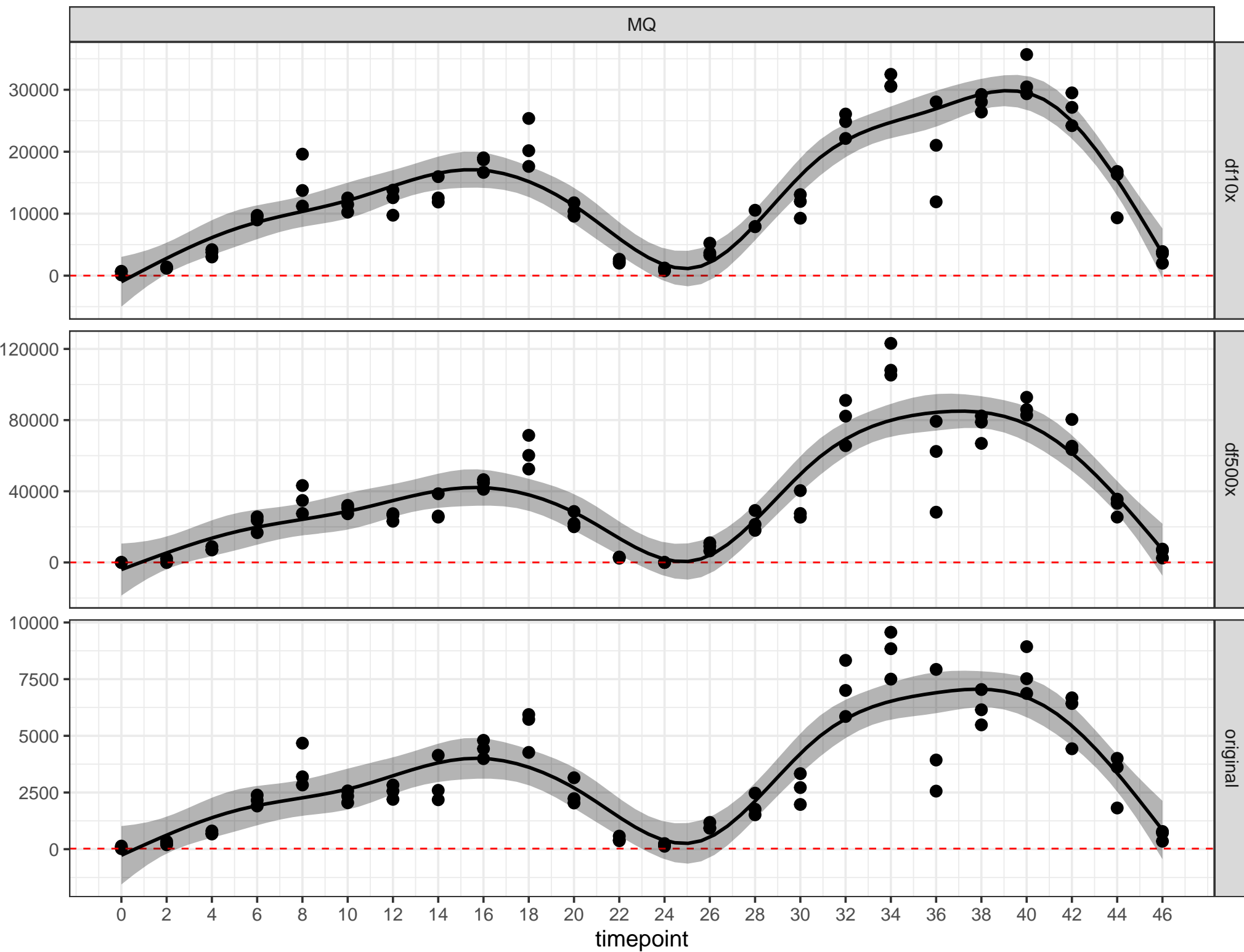


sucrose pos



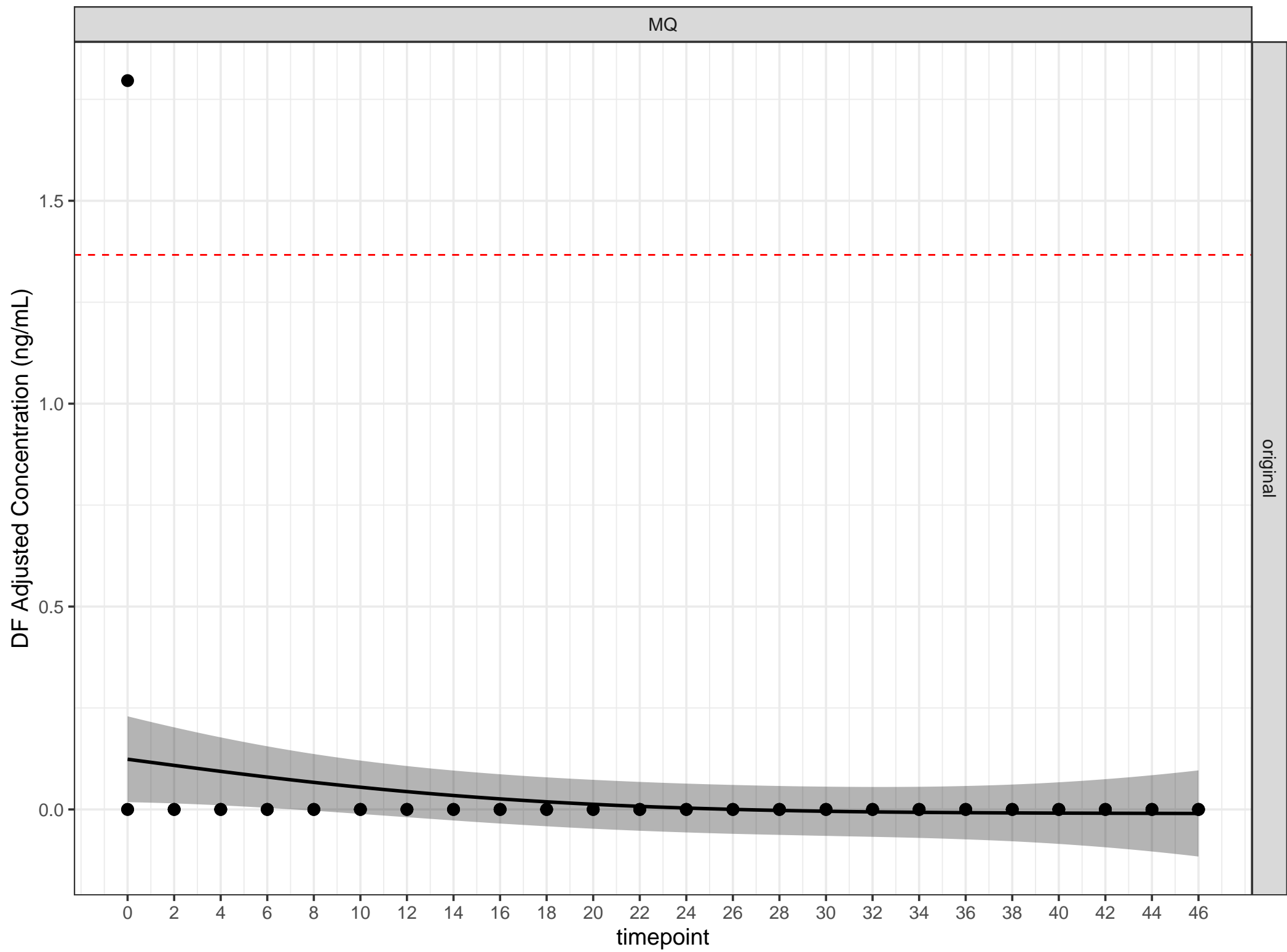
sucrose387 neg

DF Adjusted Concentration (ng/mL)

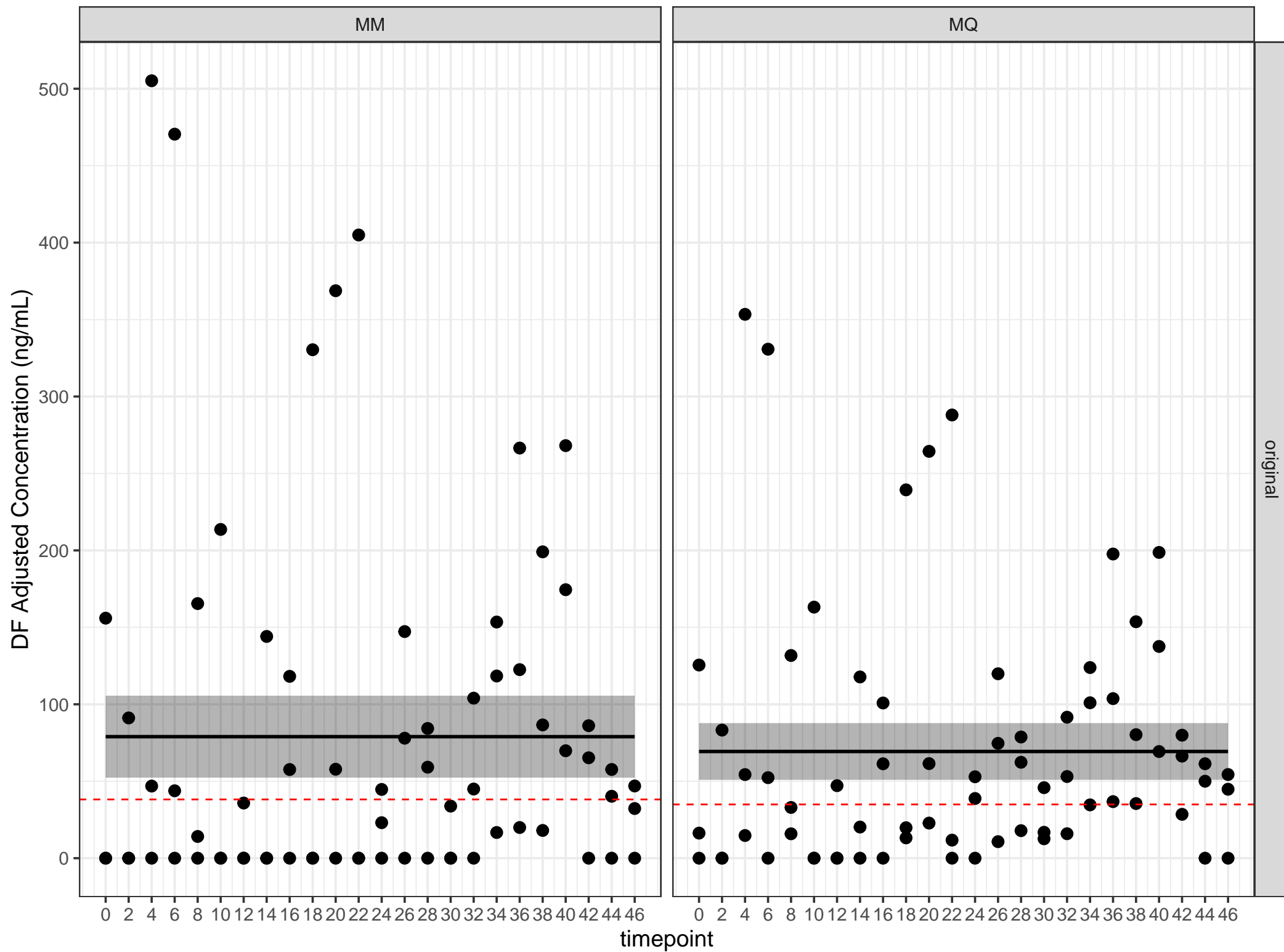




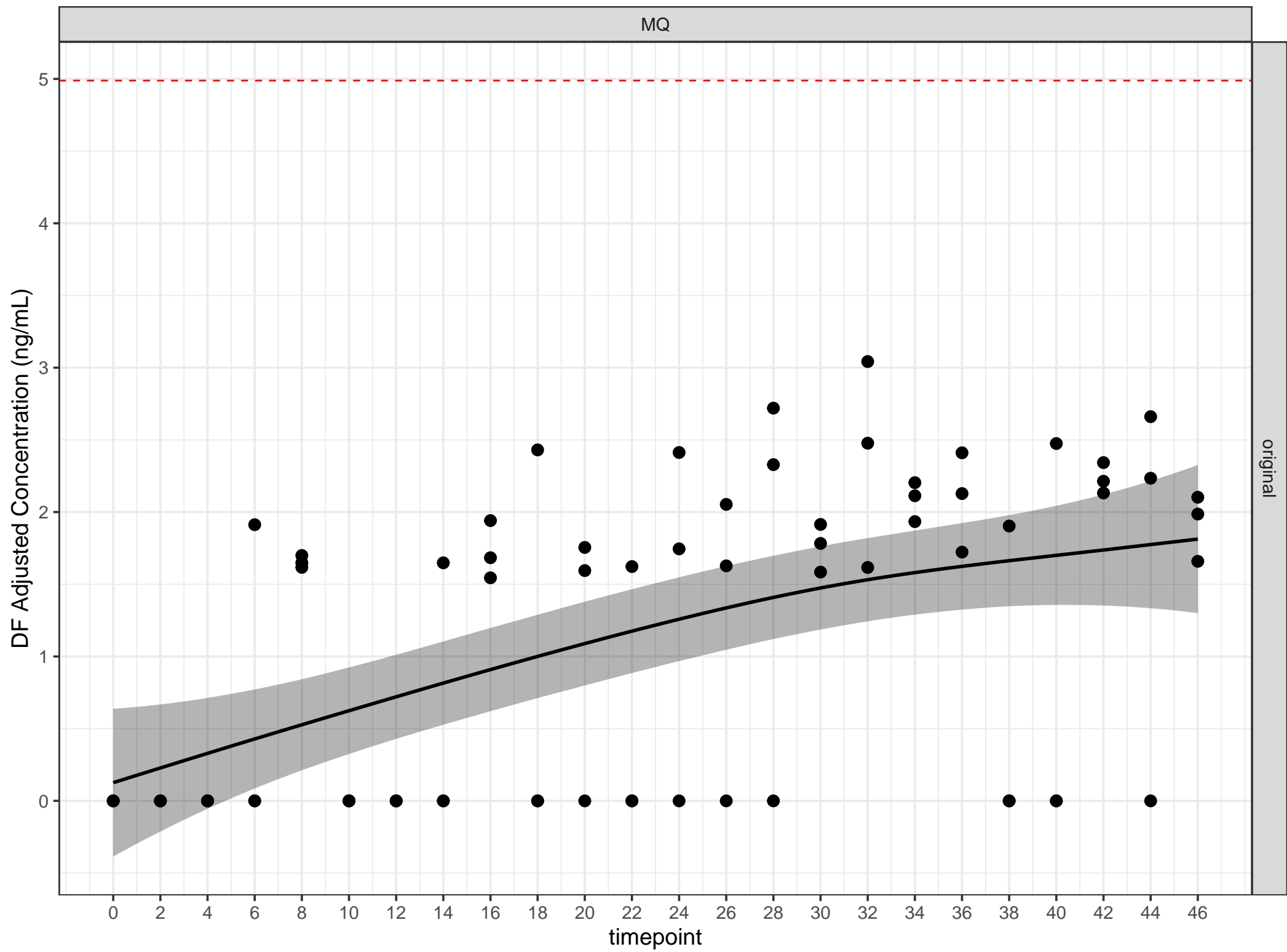
syringic acid



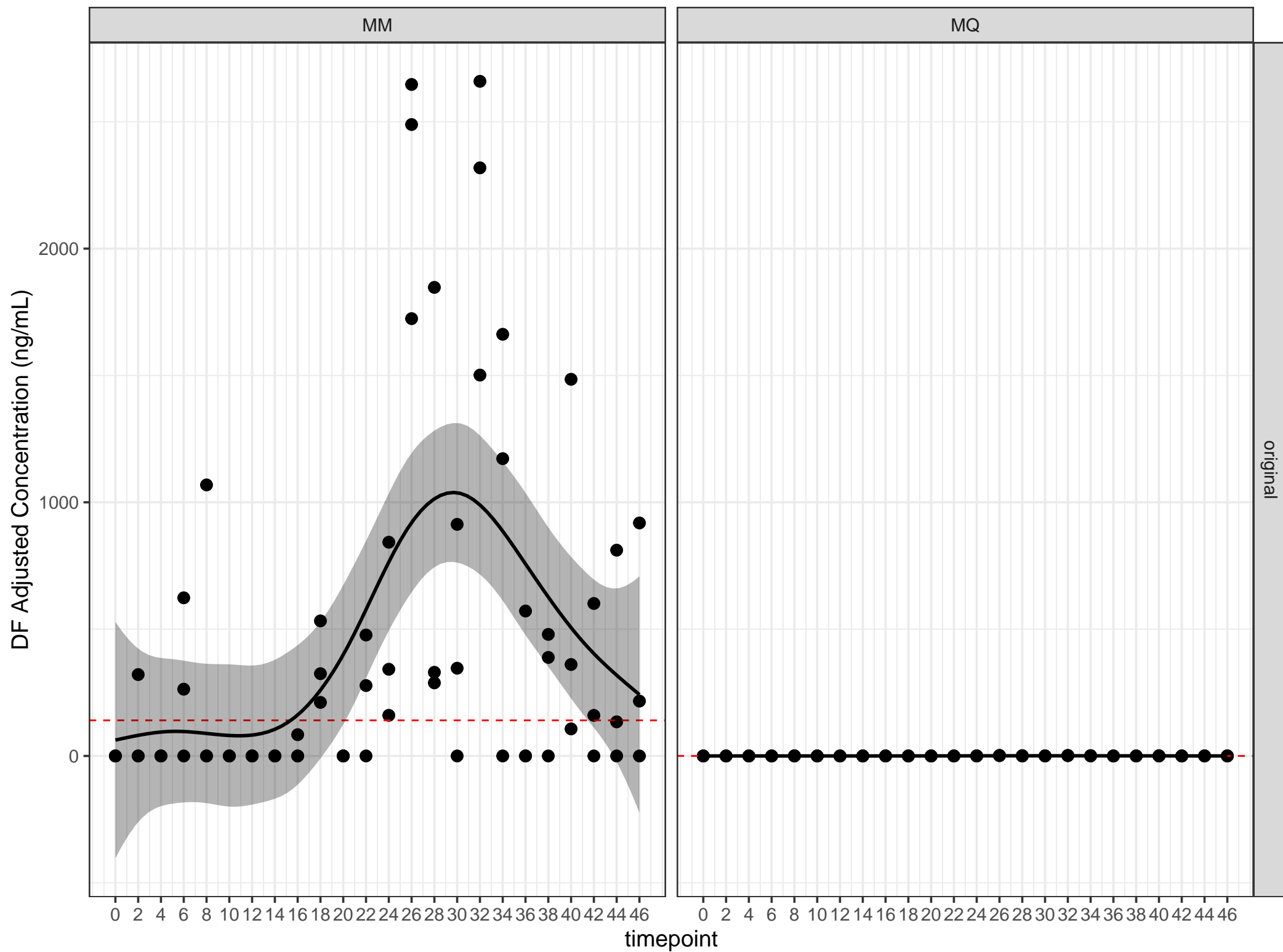
# tetrahydrobiopterin240



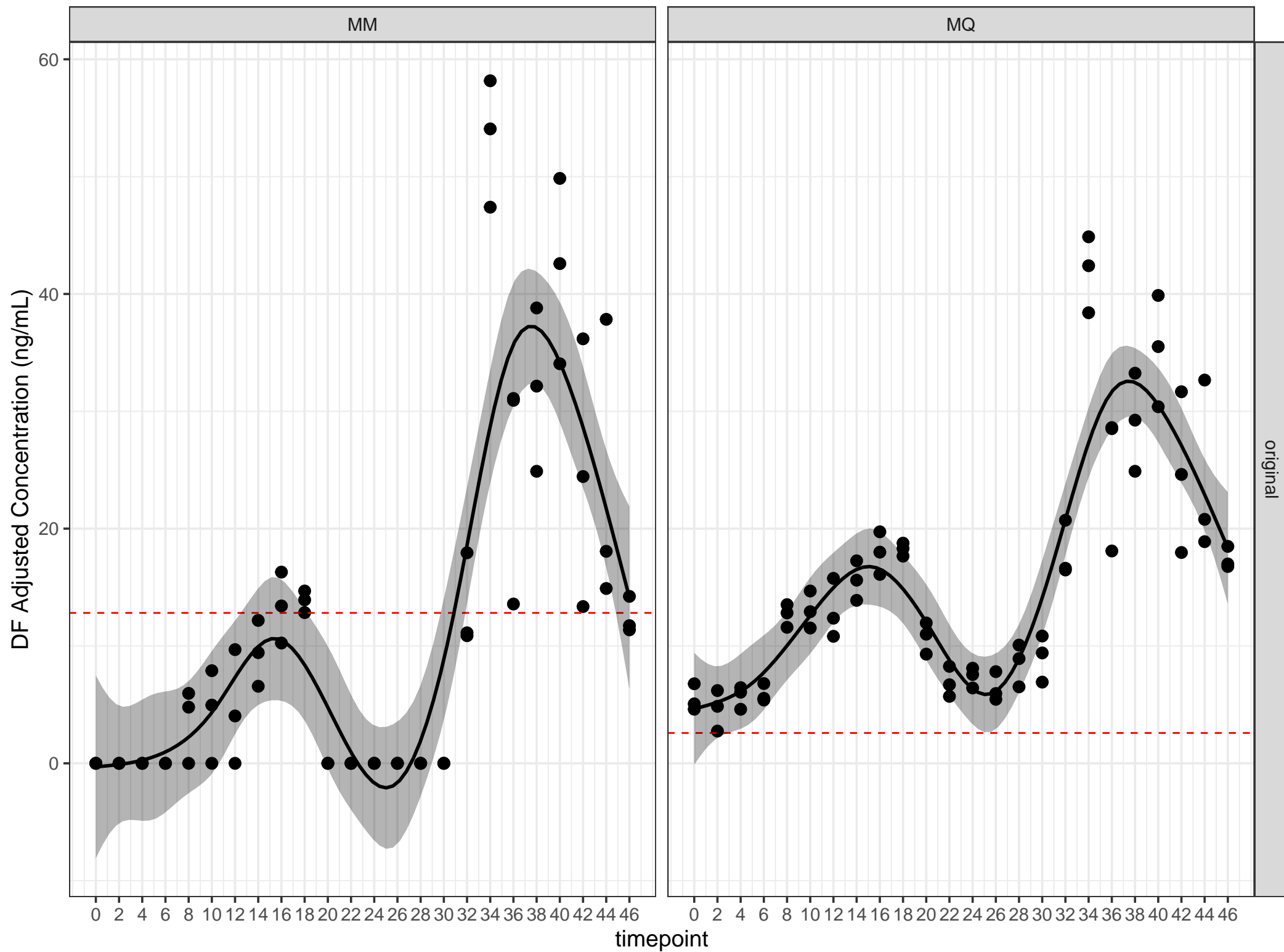
thiamine



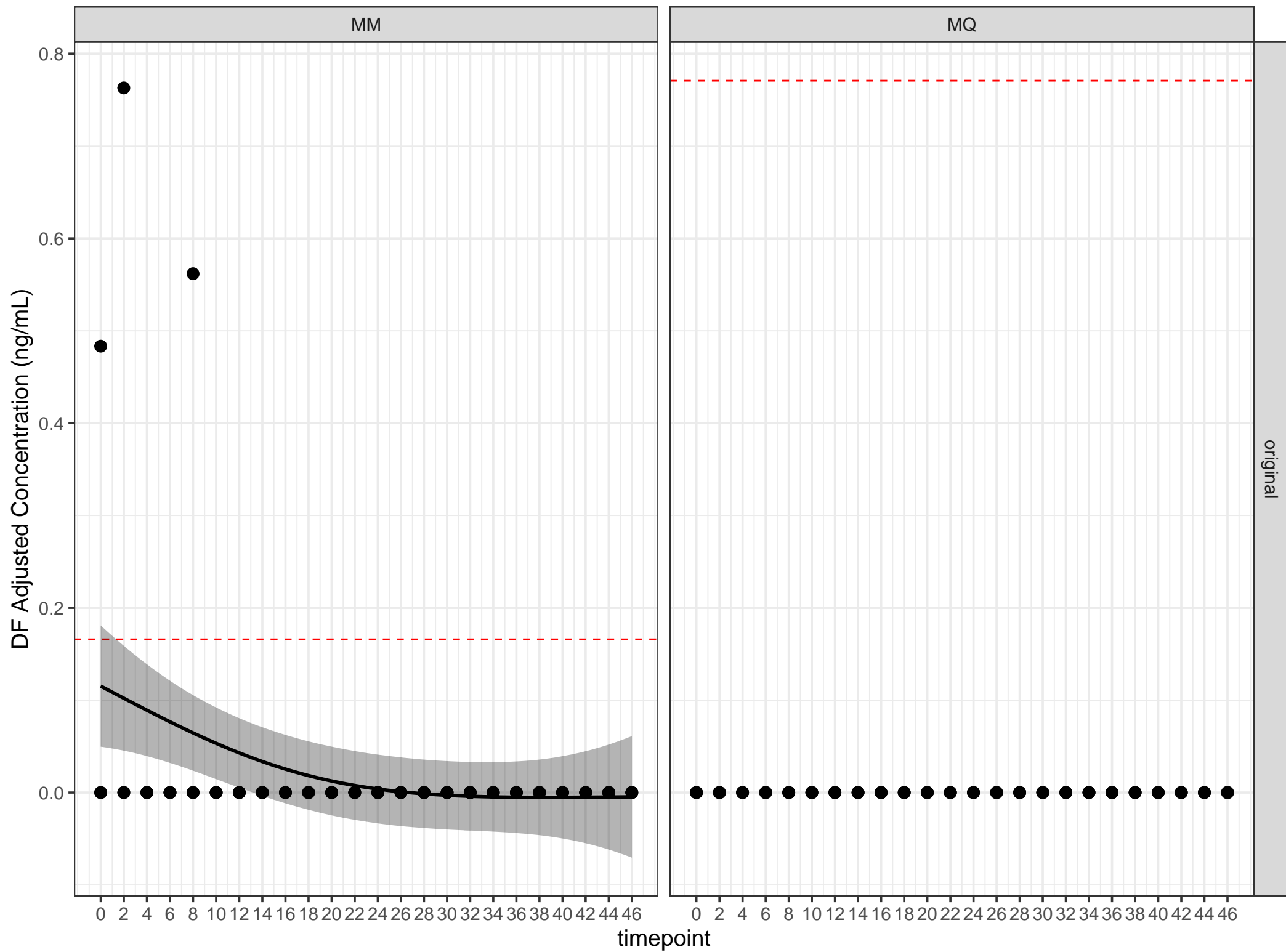
# threonine (isom. homoserine)



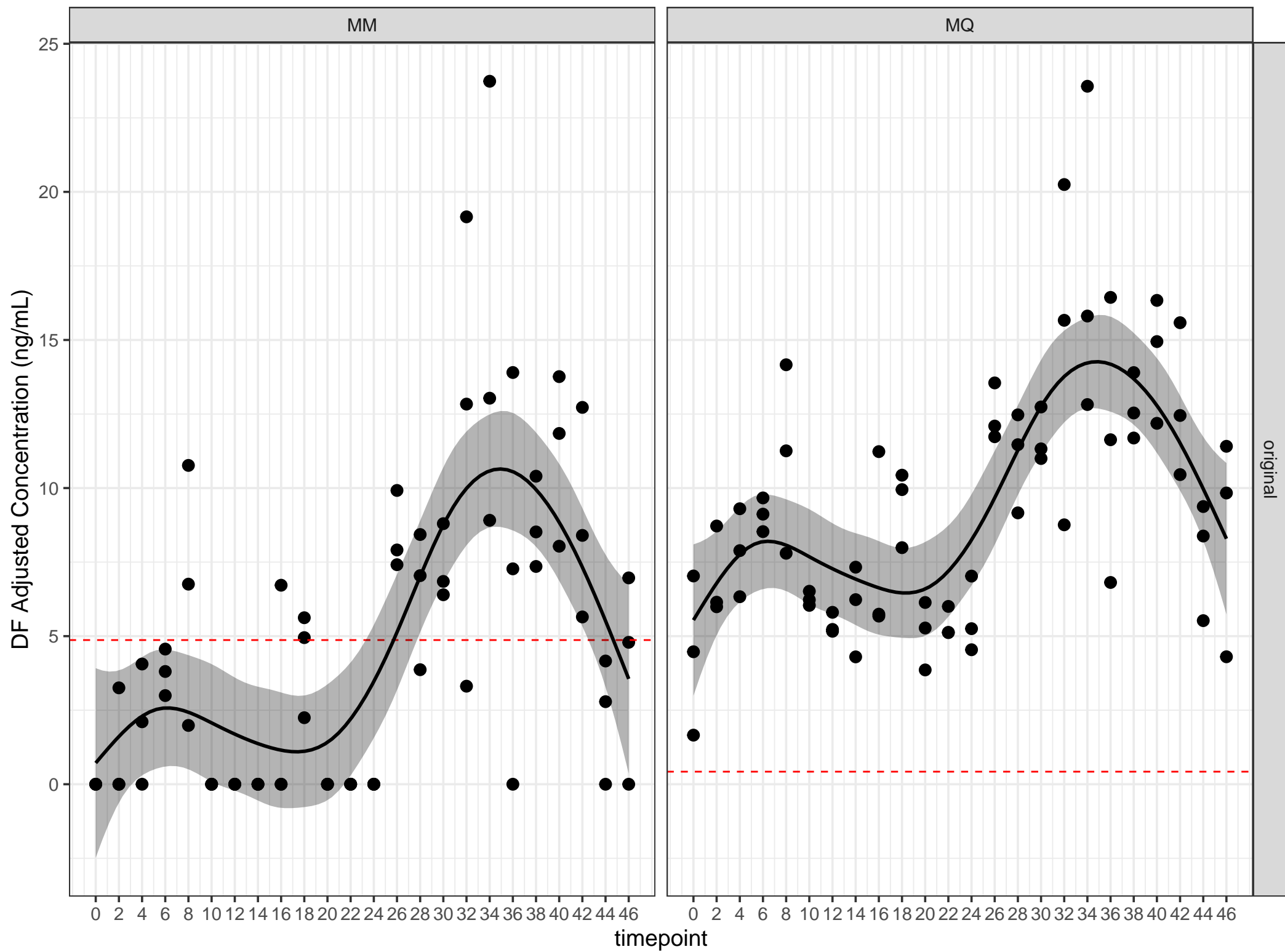
# thymidine



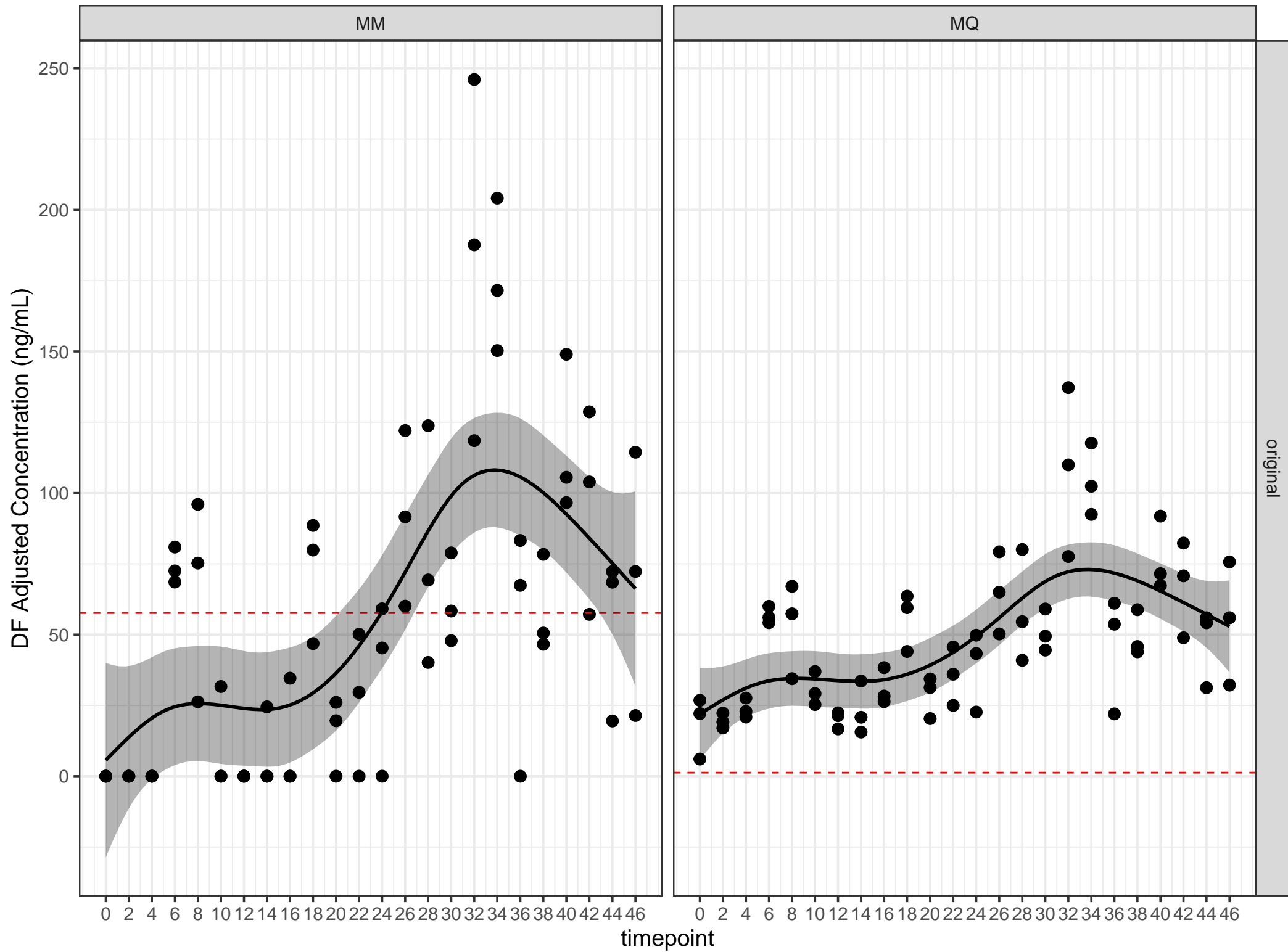
# trigonelline



# tryptophan

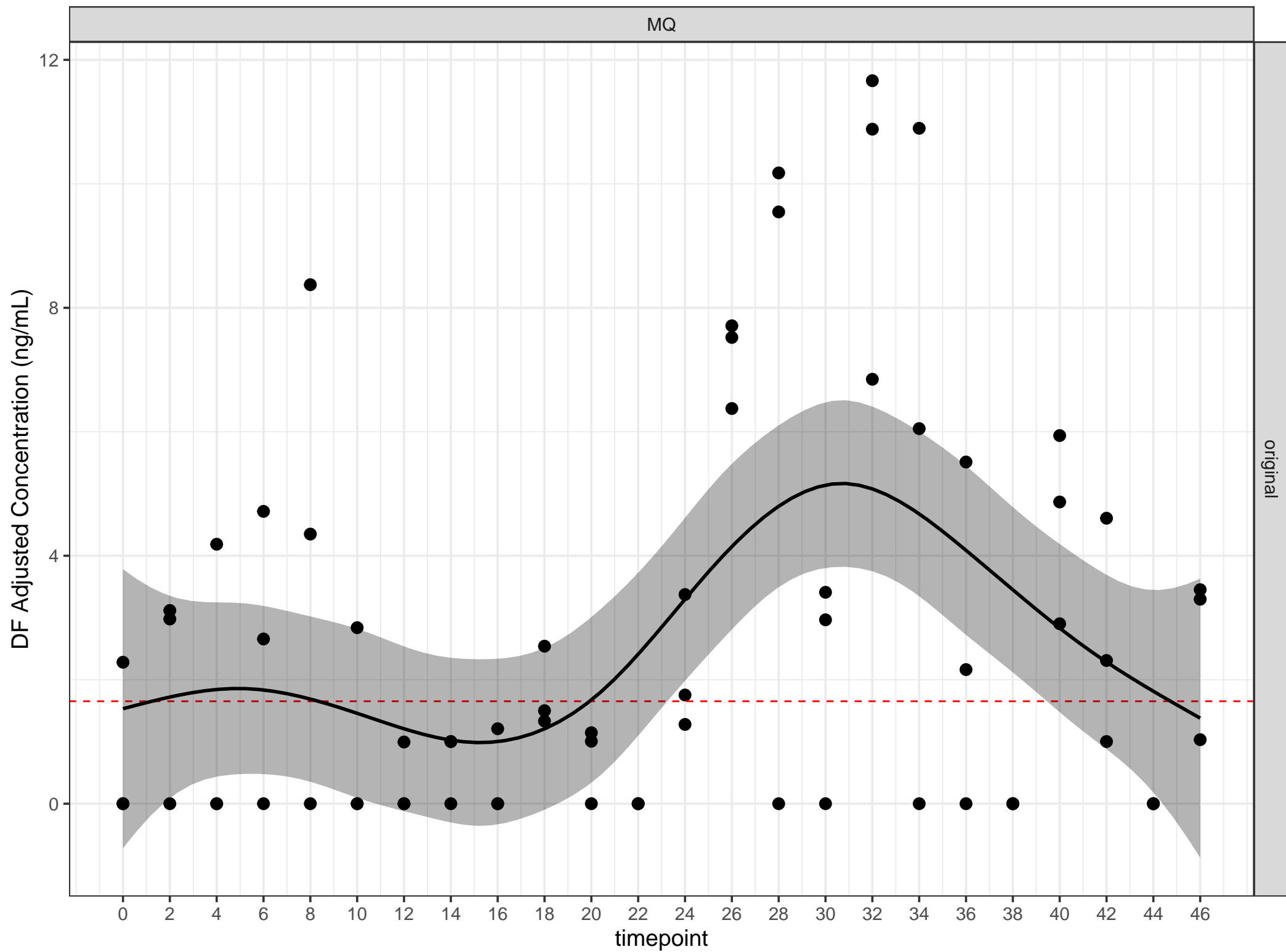


# tyrosine

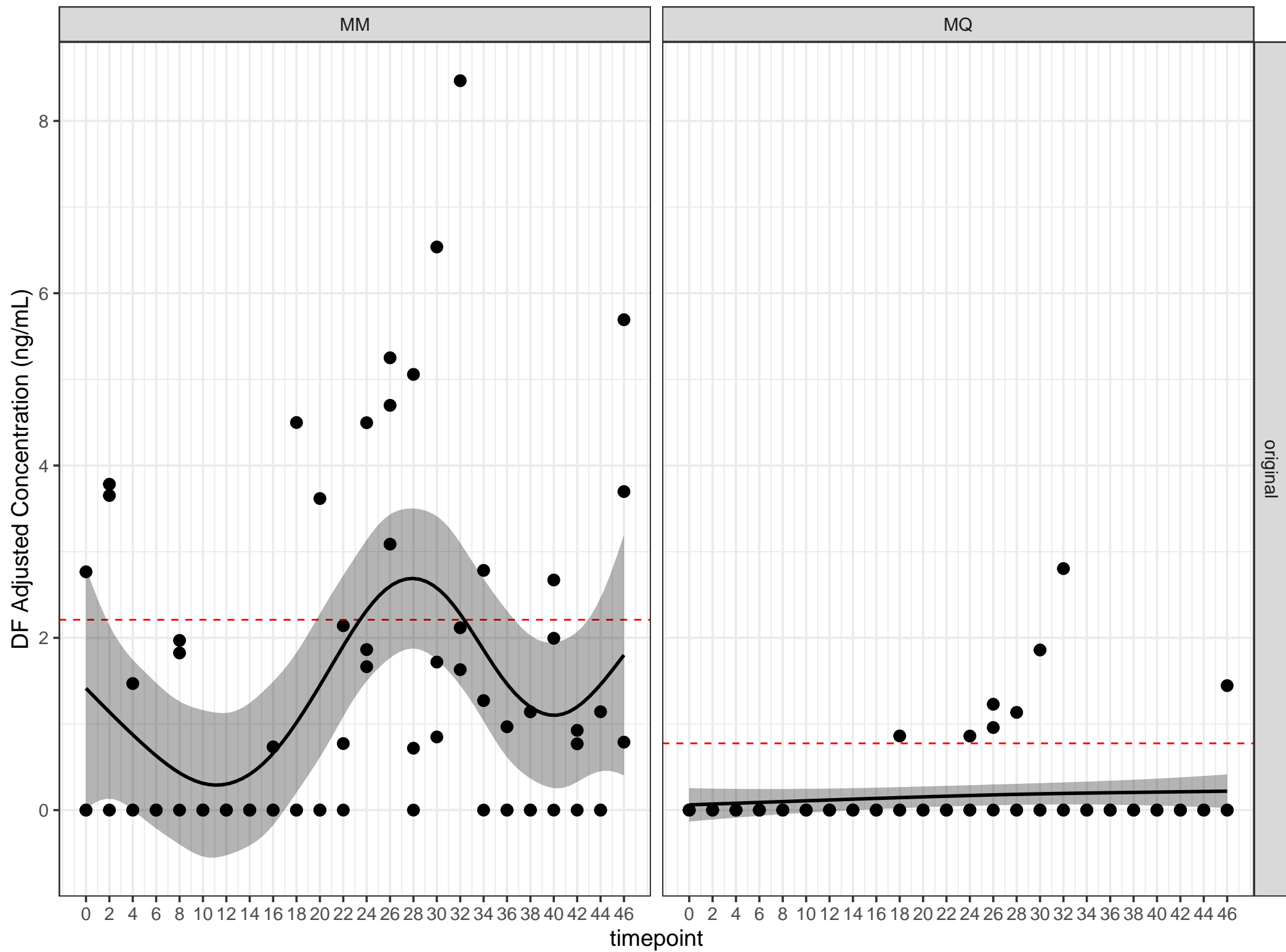




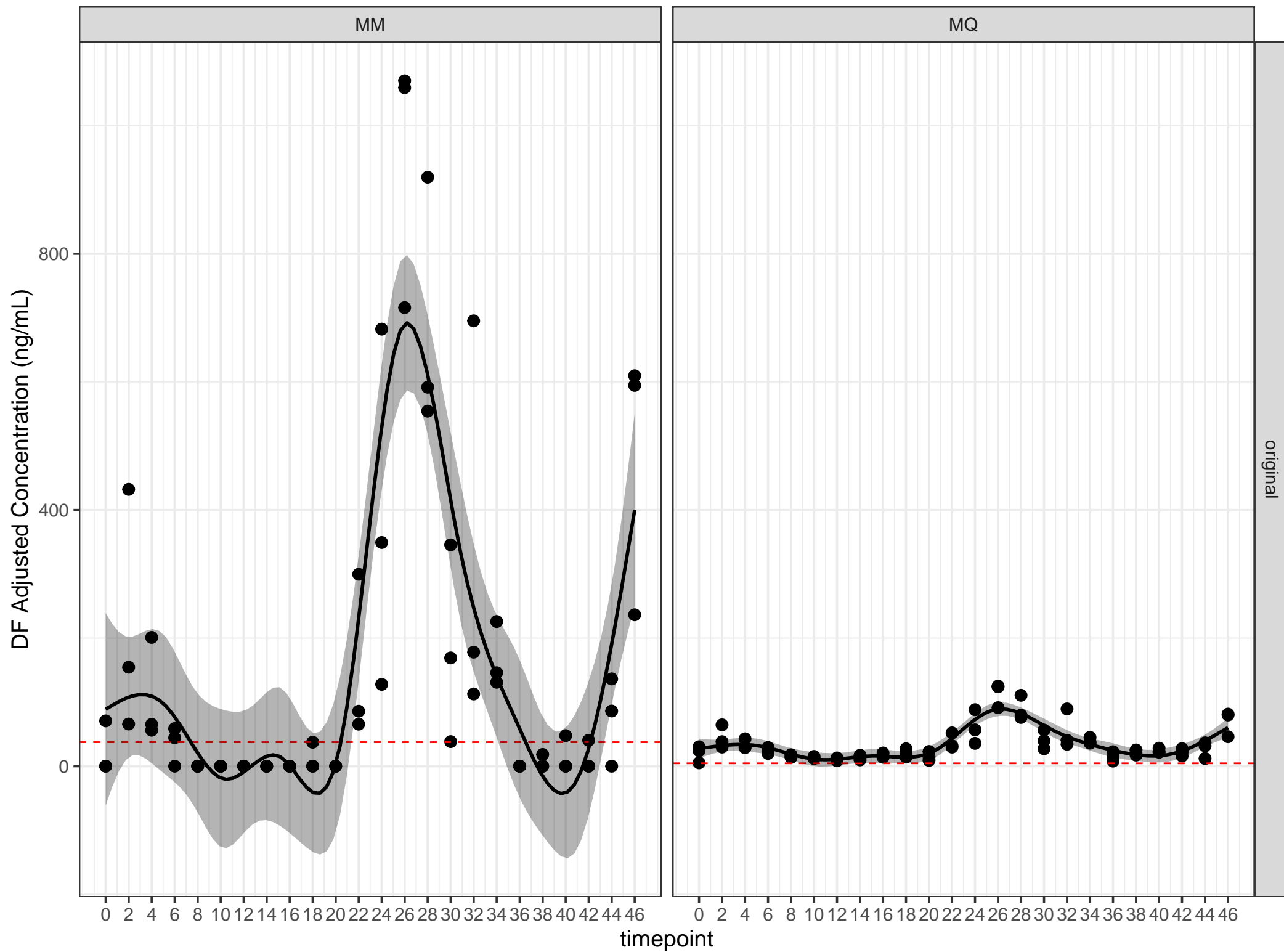
uracil



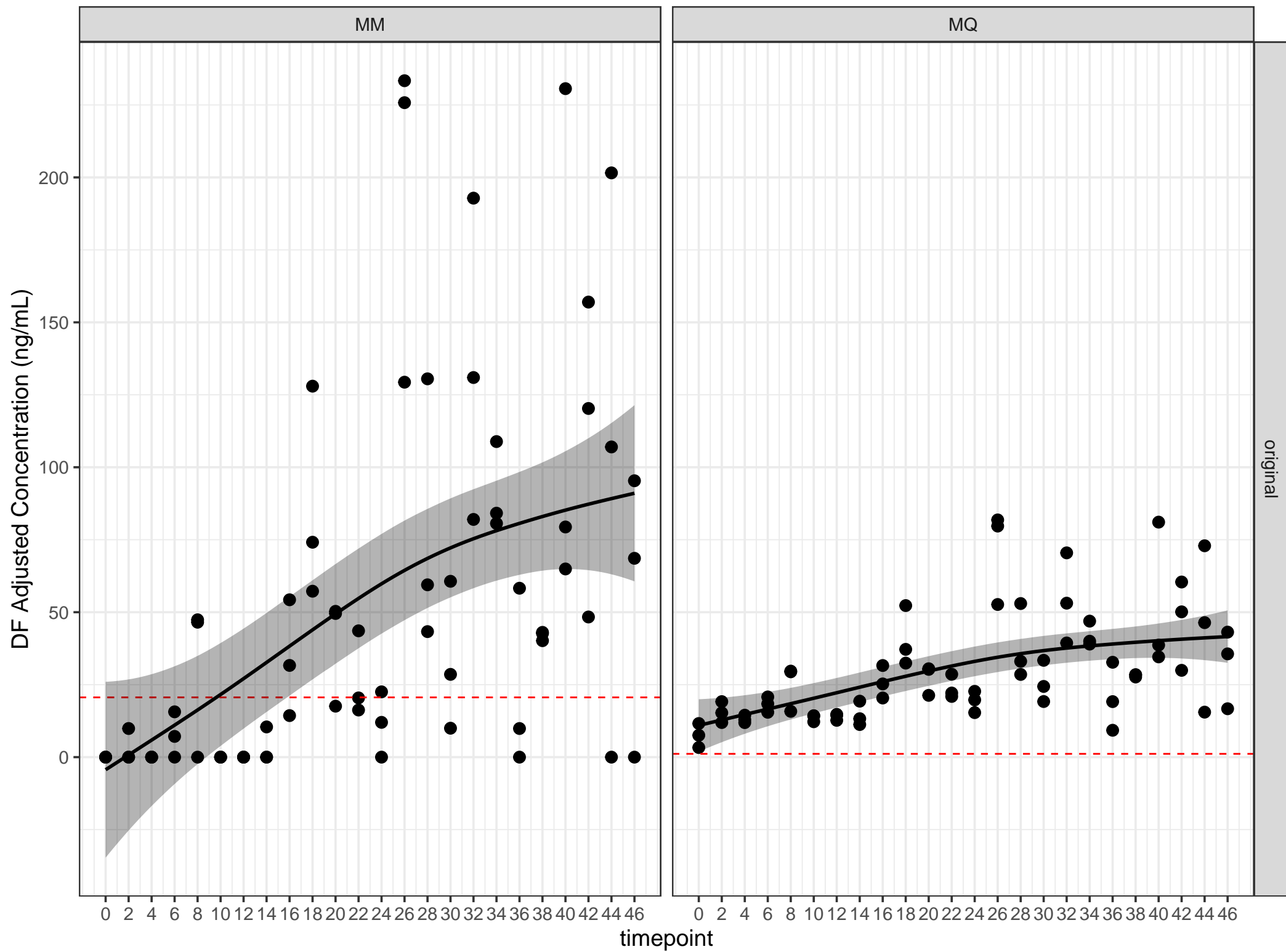
uridine



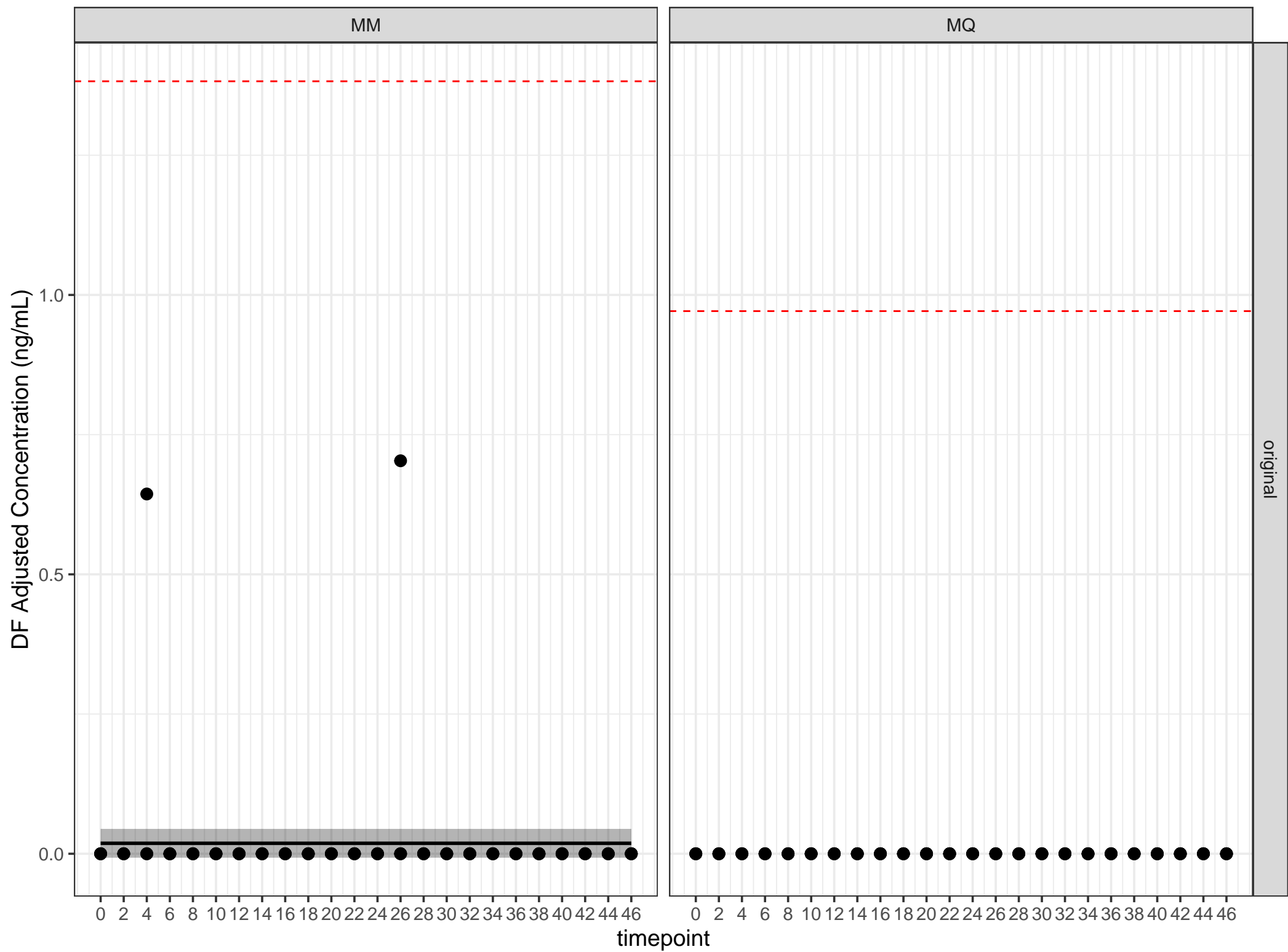
# uridine 5-monophosphate pos



valine



# xanthine neg



xanthosine neg

