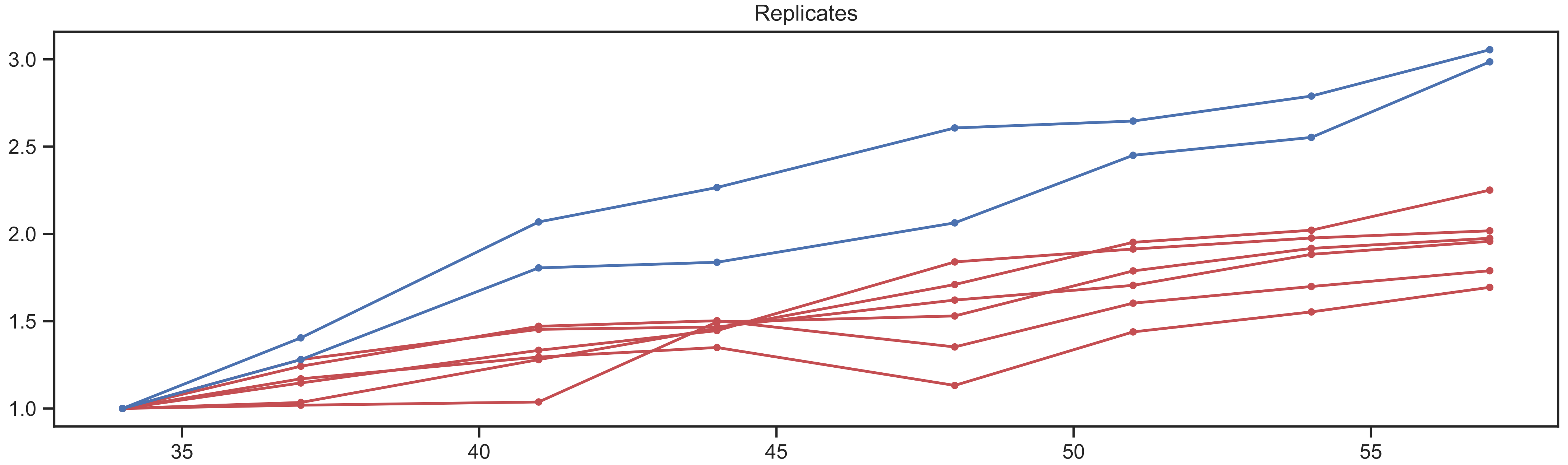
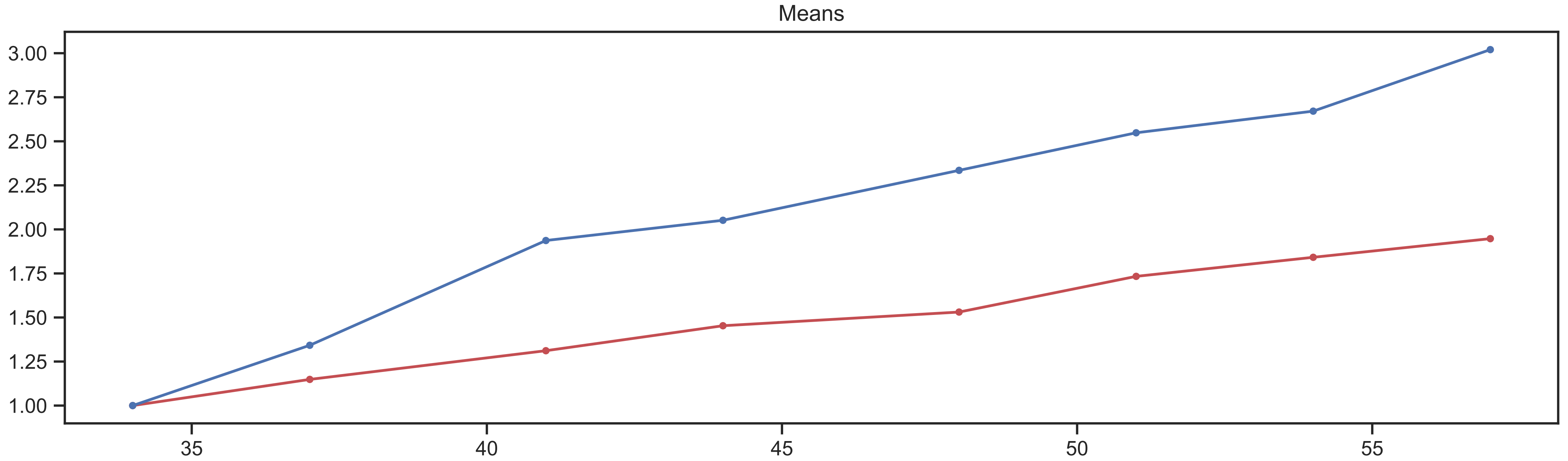
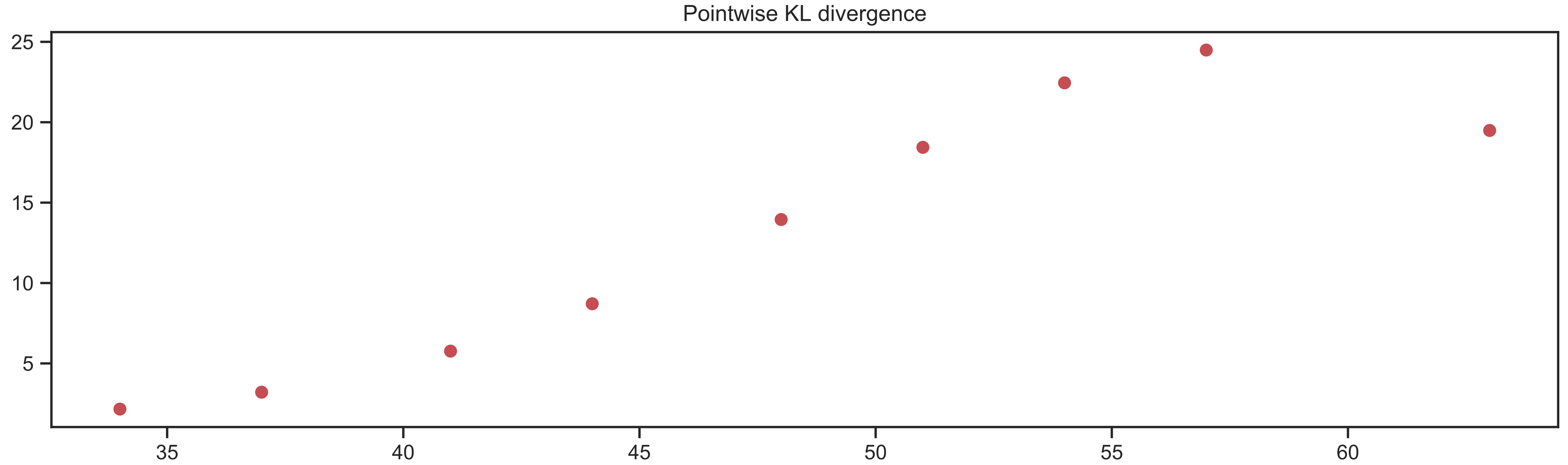
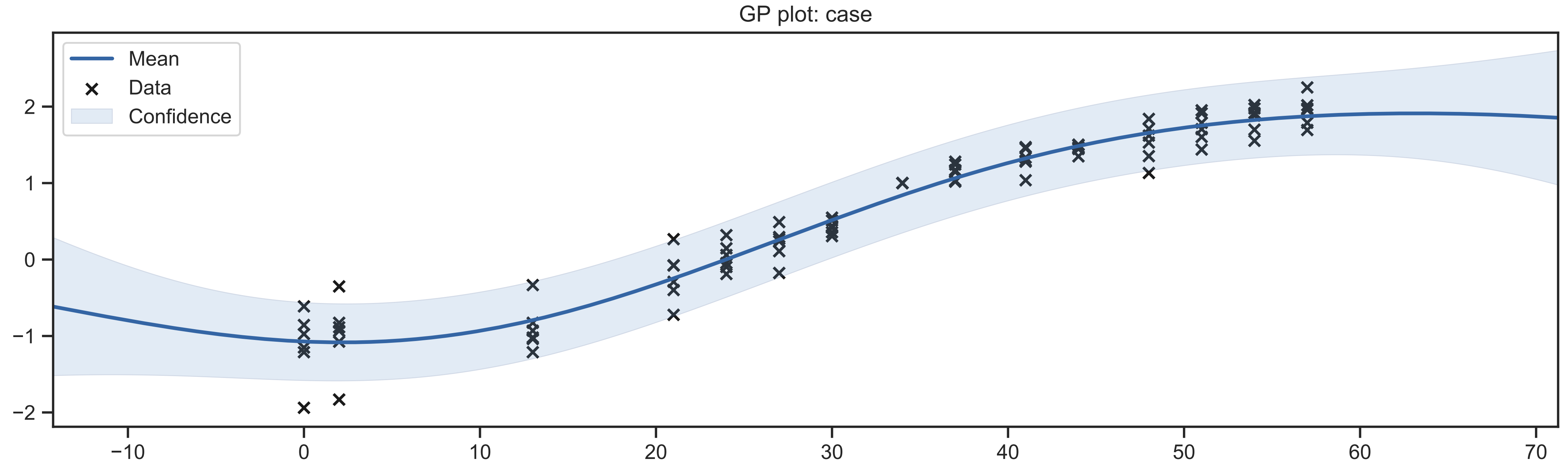
P0*C1

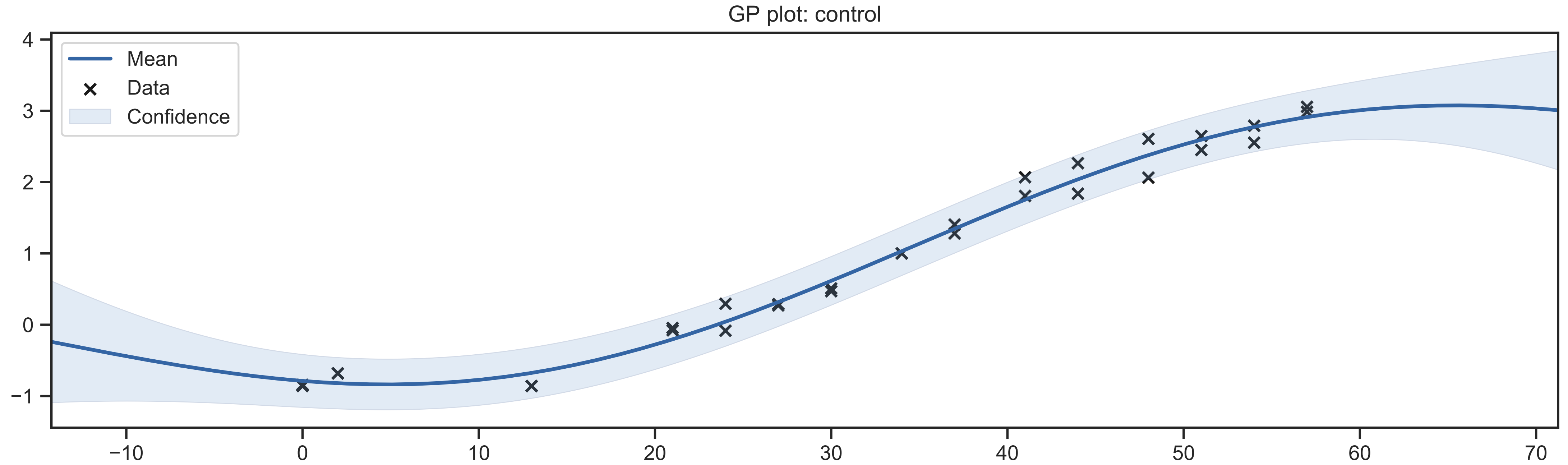


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

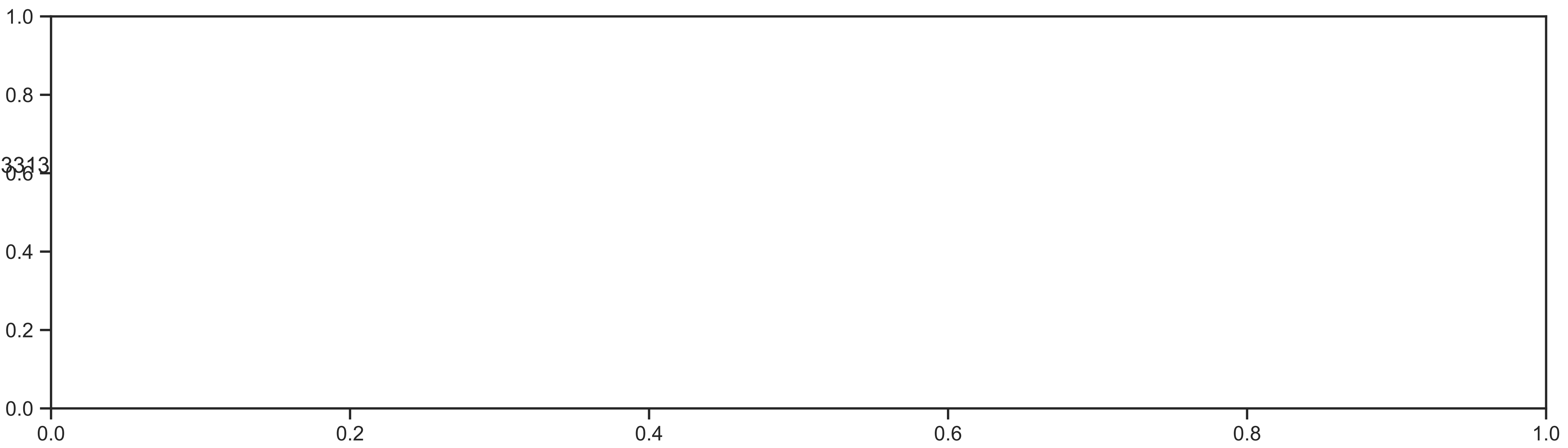




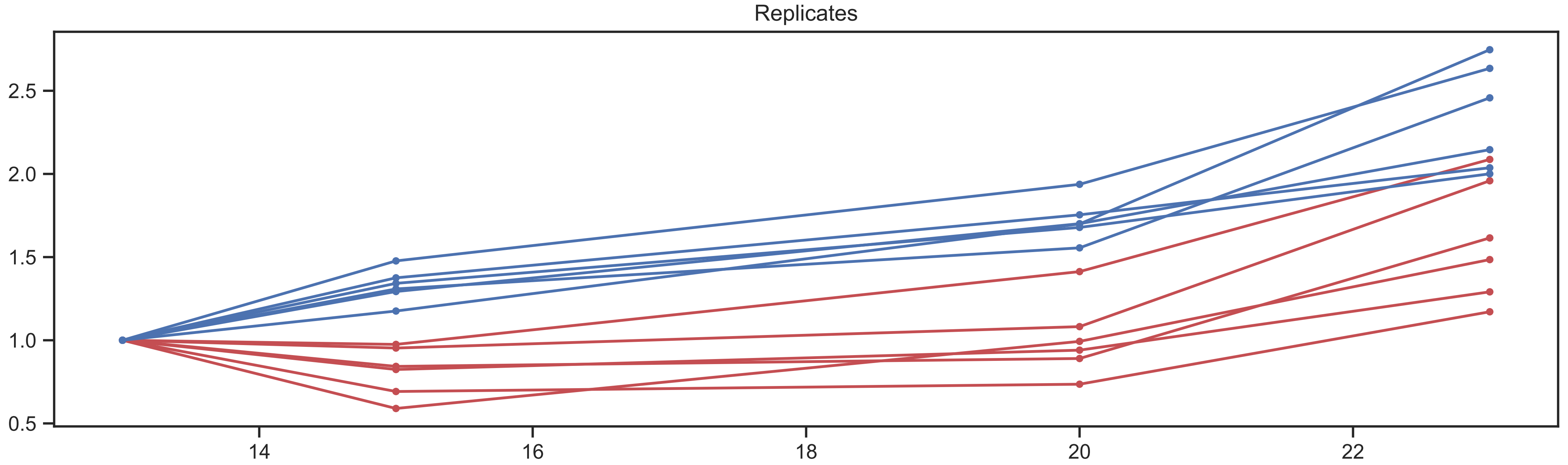




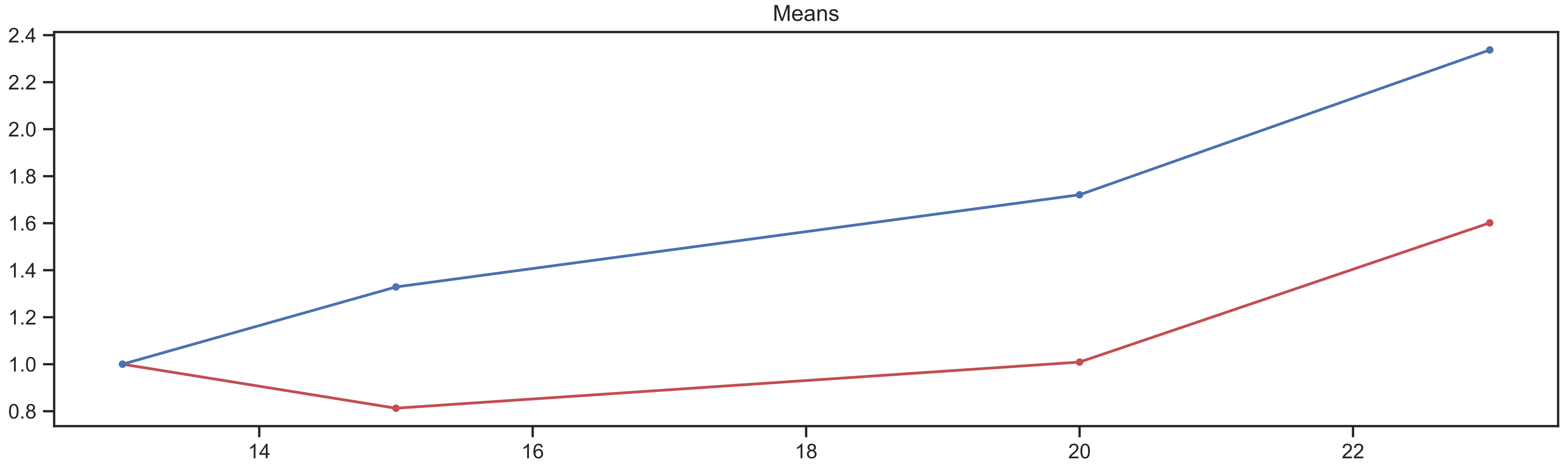
mRECIST: (0,0,5,1
kl: 13.149788525059119
response_angle_rel: 0:0.02320966449487053_1:0.01172225655817222_2:0.0206959474798698_3:0.021296356214458127_4:0.015899613968581847_5:0.02819604953313
response_angle_rel_control: 0:0.08055207430255873_1:0.06314080611397506
auc_norm: 0:0.29085798412852537_1:0.23901771642875572_2:0.291925138553956_3:0.3205207628978662_4:0.25644179457985145_5:0.3755317416942549
auc_control_norm: 0:[0.6012353]_1:[0.59921942]
tgi: 0.47968586051014295
red = treatment,   blue=control

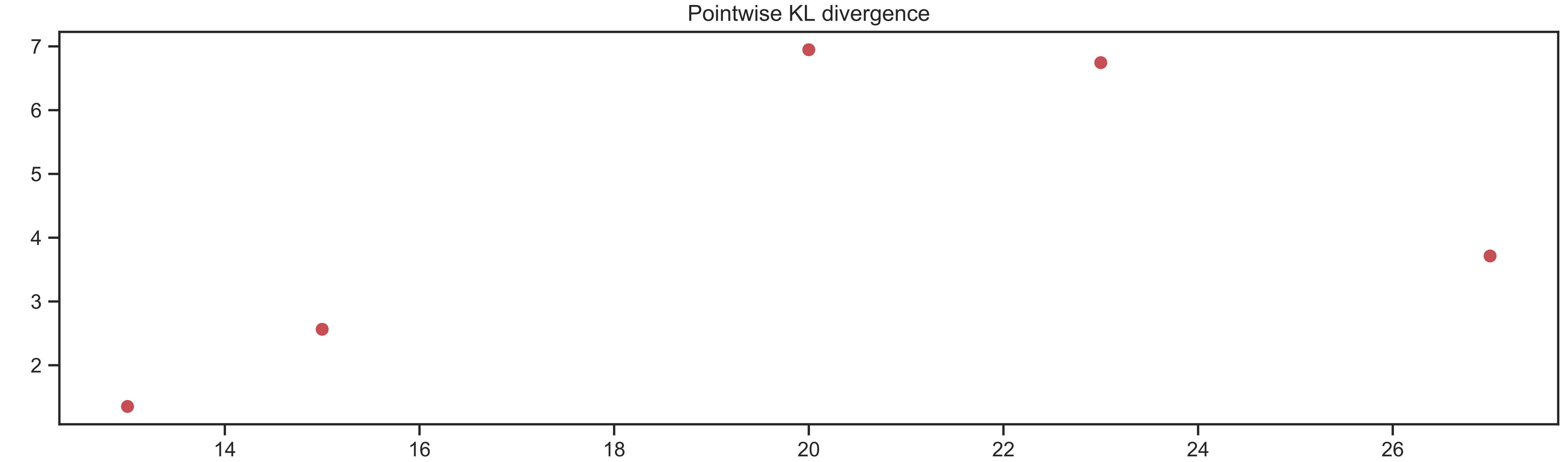


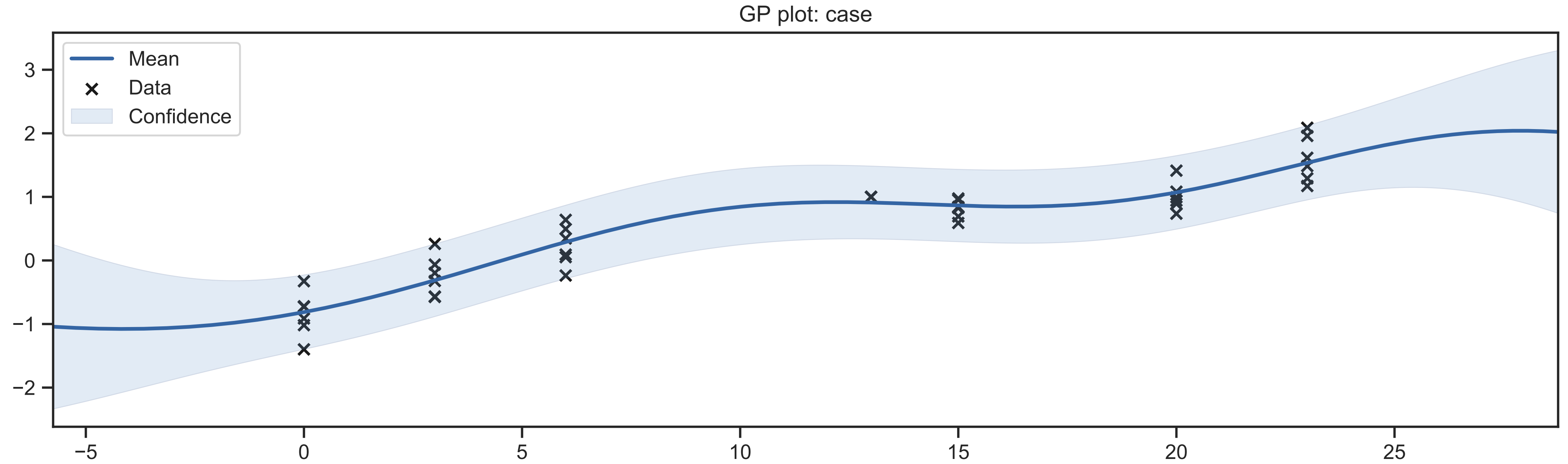
P1*C1

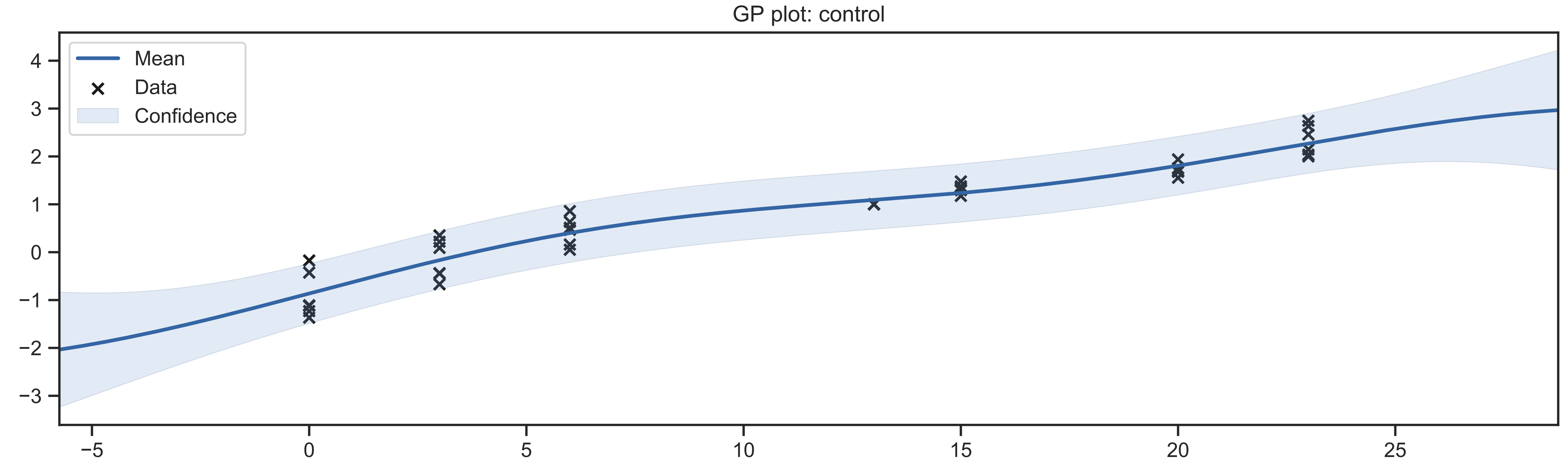

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

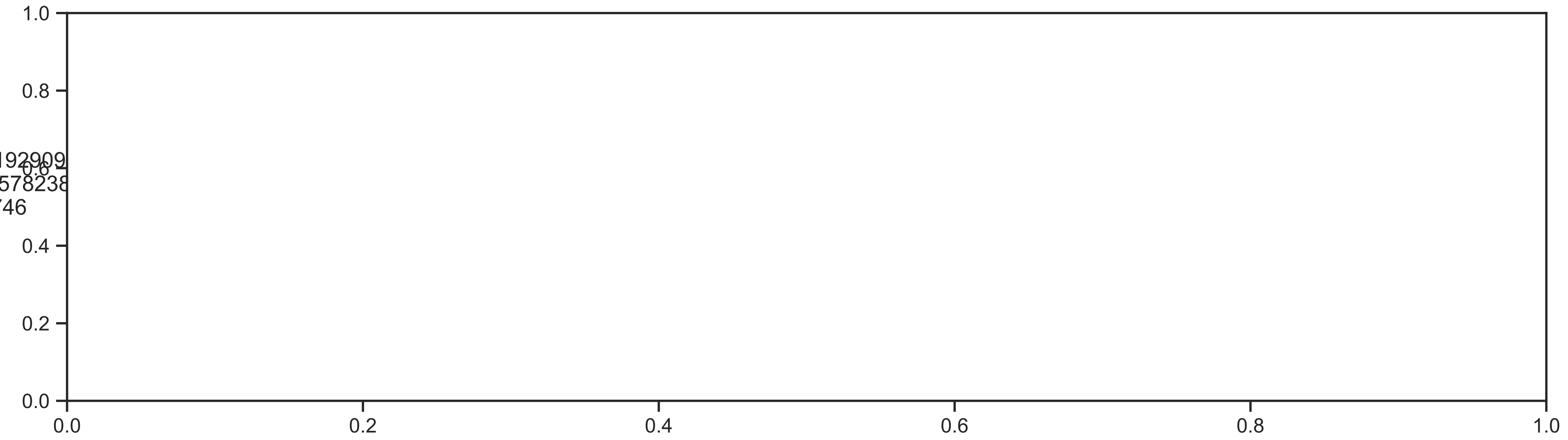

Means


Pointwise KL divergence

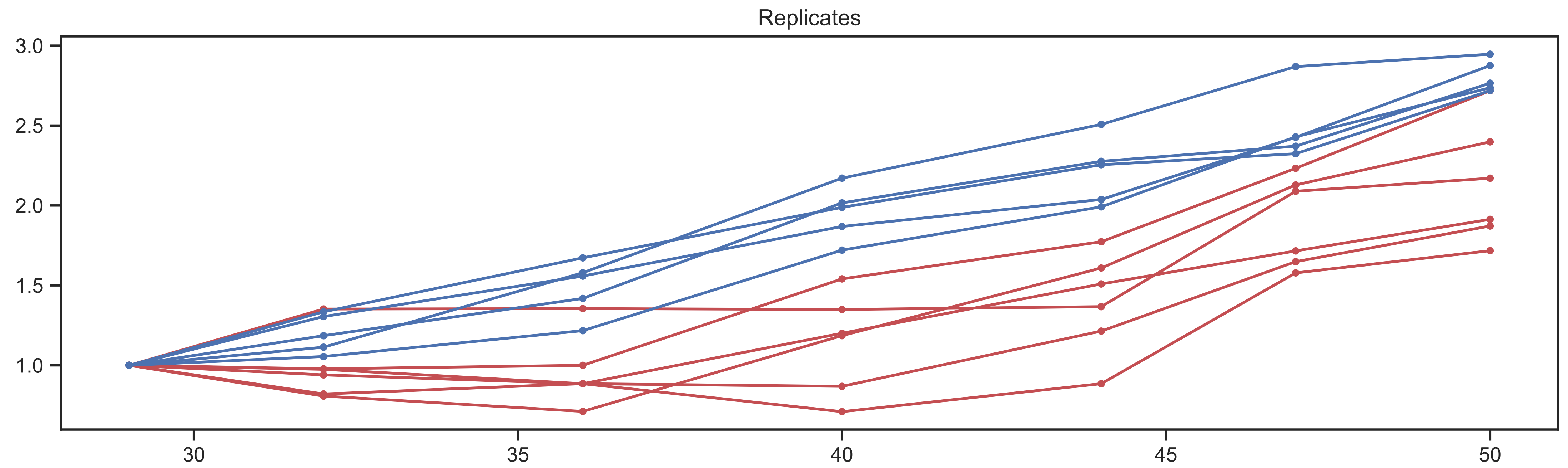

GP plot: case


GP plot: control

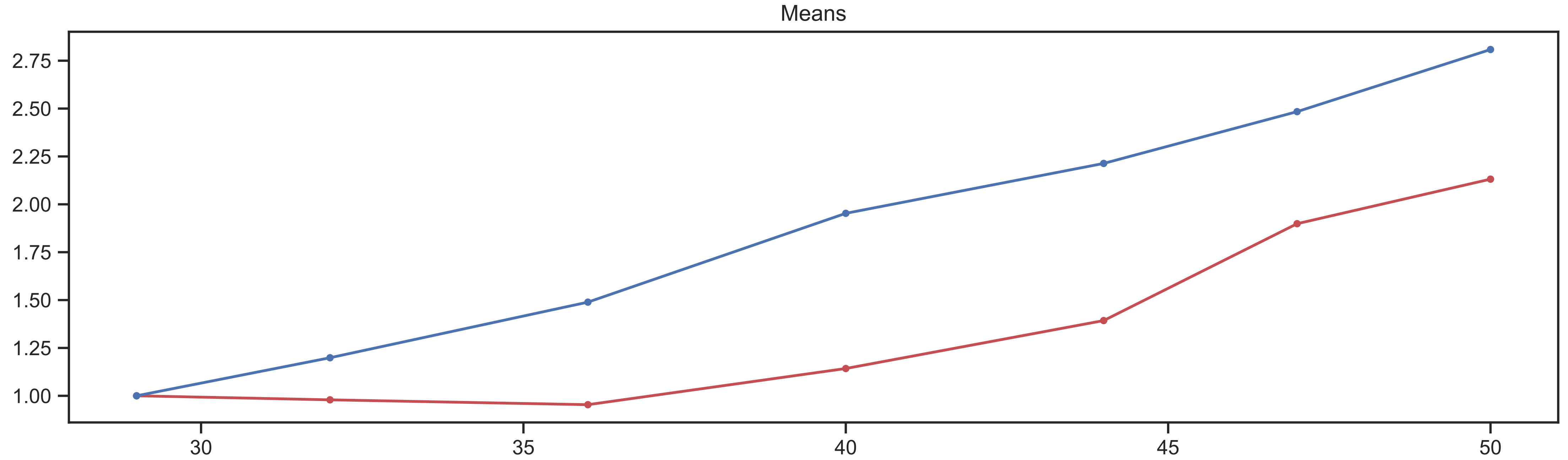
mRECIST: (0,0,5,1
kl: 4.035185817947912
response_angle_rel: 0:0.01760523691801974_1:0.013635982343728125_2:0.026972936410653296_3:0.02315560280722995_4:0.06698844854137467_5:0.0601885192909
response_angle_rel_control: 0:0.06919438571337963_1:0.0948322969251848_2:0.14483223609743137_3:0.1452024641156774_4:0.07363049504921455_5:0.06104578238
auc_norm: 0:0.052177382618057155_1:-0.00013417777378840756_2:0.1725419938963471_3:0.039451384591372235_4:0.2998503529138001_5:0.294633461502574б
auc_control_norm: 0:[0.35767087]_1:[0.50429073]_2:[0.56294836]_3:[0.54166457]_4:[0.37635204]_5:[0.34576362]
tgi: 0.33311838299304386
red = treatment, blue=control

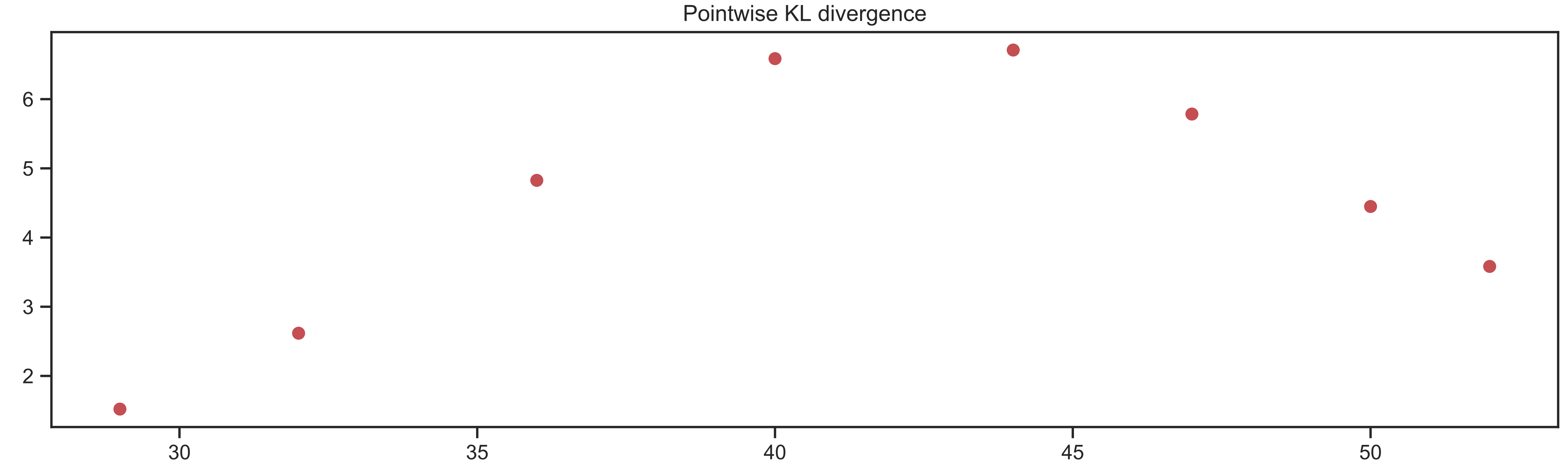


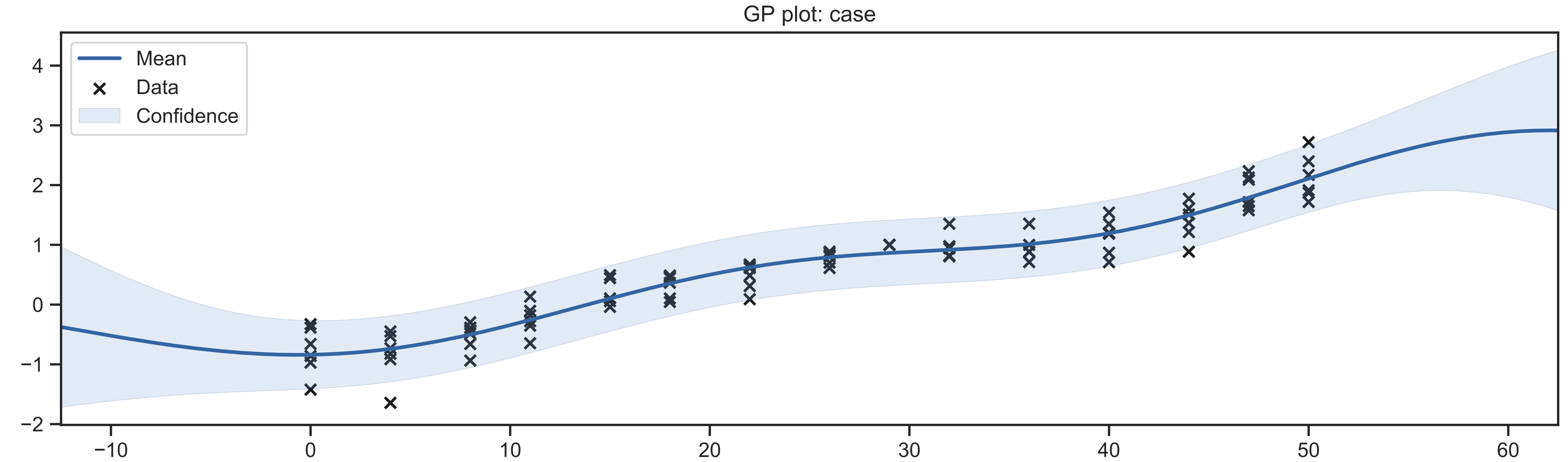
P2*C1

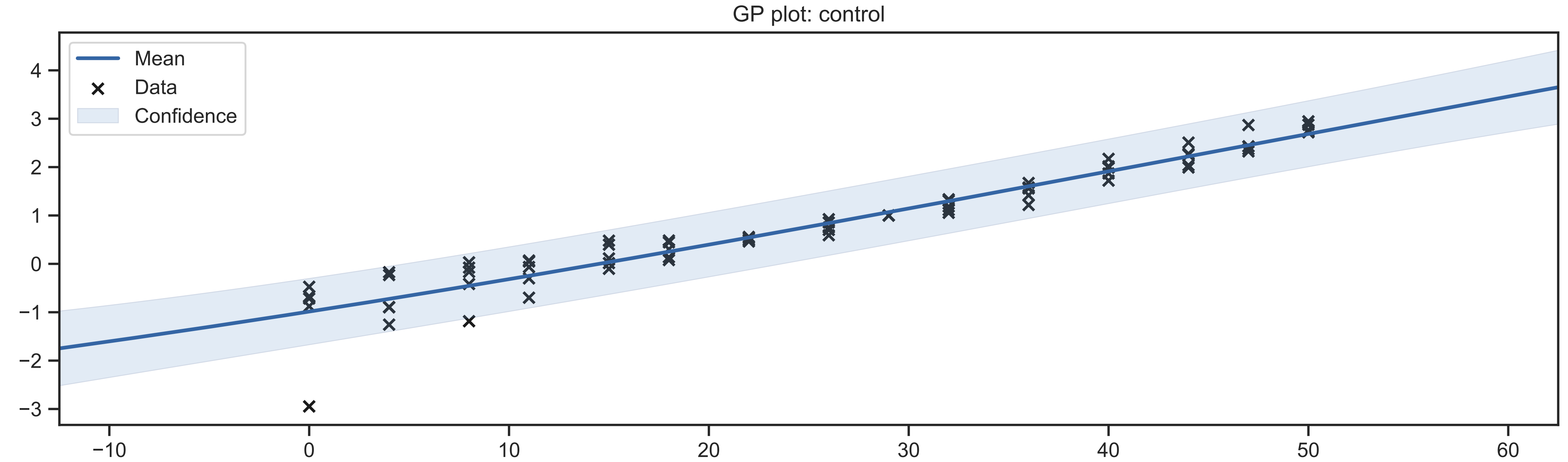


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

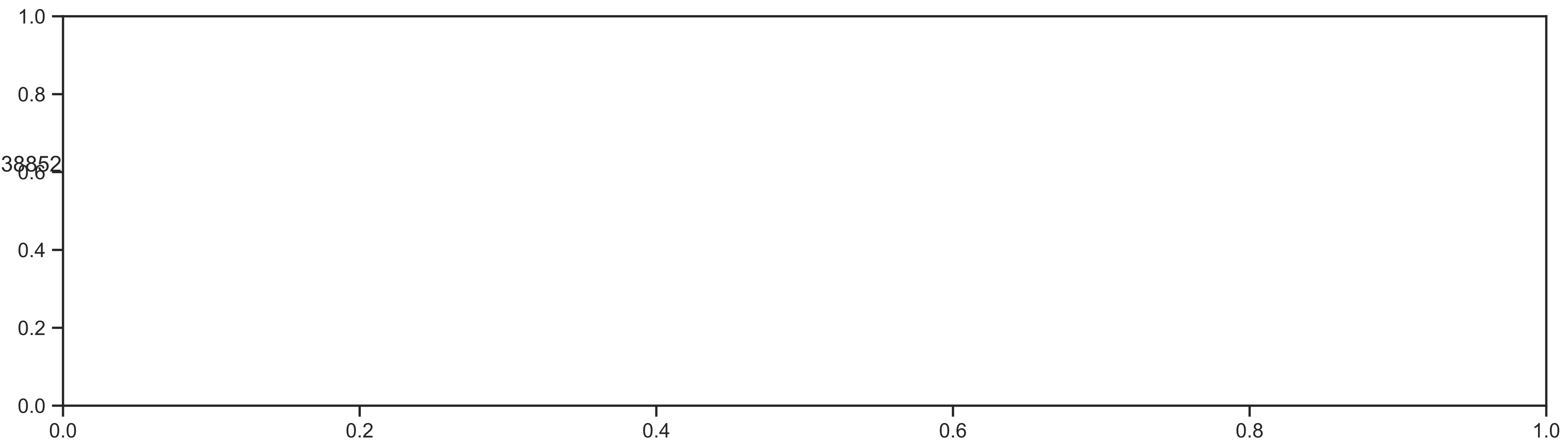




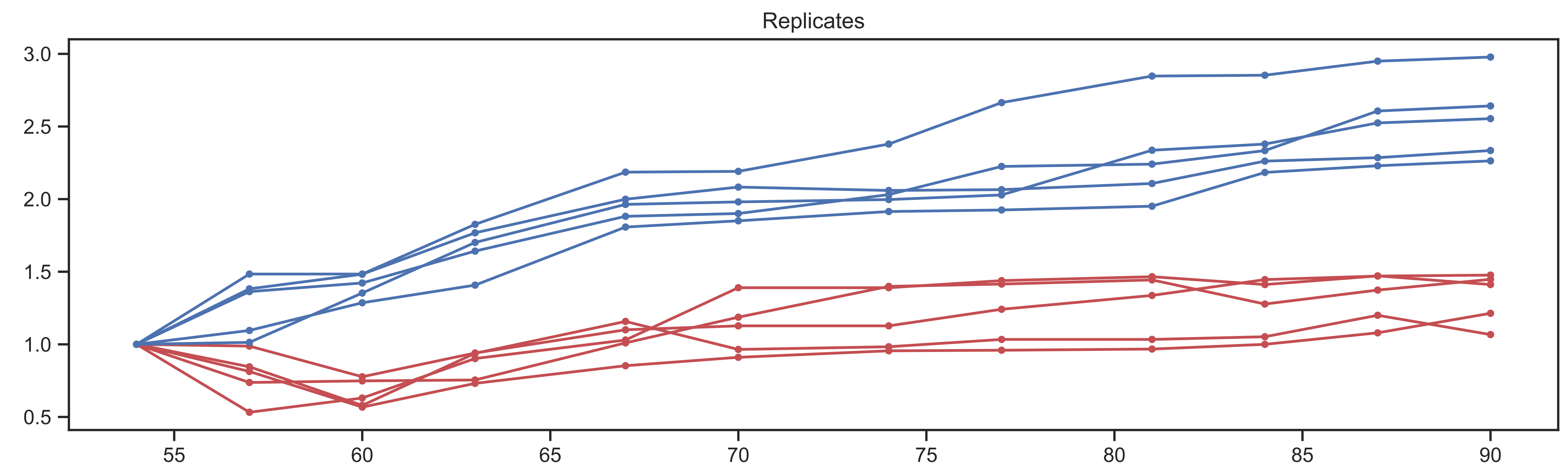




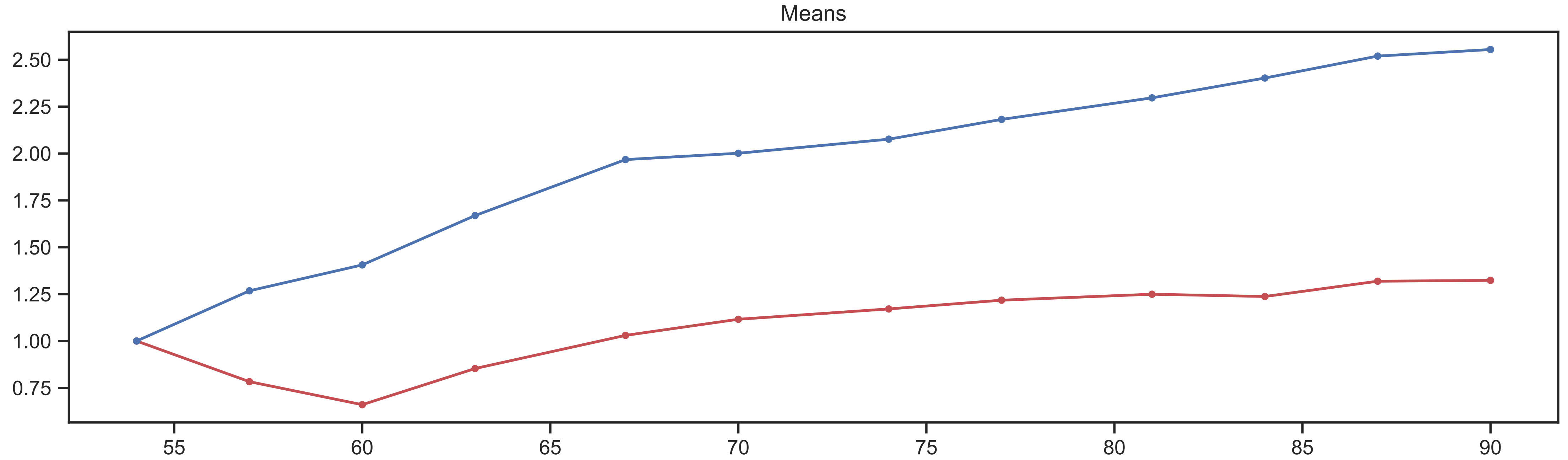
mRECIST: (0,0,5,1
kl: 3.9362548844585685
response_angle_rel: 0:0.011527337535818664_1:0.019602482346704544_2:0.018628333916381246_3:0.040423803511210187_4:0.06795592272334466_5:0.04115738852
response_angle_rel_control: 0:0.06137627768848648_1:0.07413689478368346_2:0.062495155958189386_3:0.10365312335149308_4:0.05875931232922508
auc_norm: 0:0.24360623238599277_1:0.2599016215589073_2:0.25775048305182635_3:0.38890448793790755_4:0.5063626349192591_5:0.39924321338975405
auc_control_norm: 0:[0.49602797]_1:[0.56402725]_2:[0.49745832]_3:[0.53263263]_4:[0.50084238]
tgi: 0.22256574618918656
red = treatment, blue=control

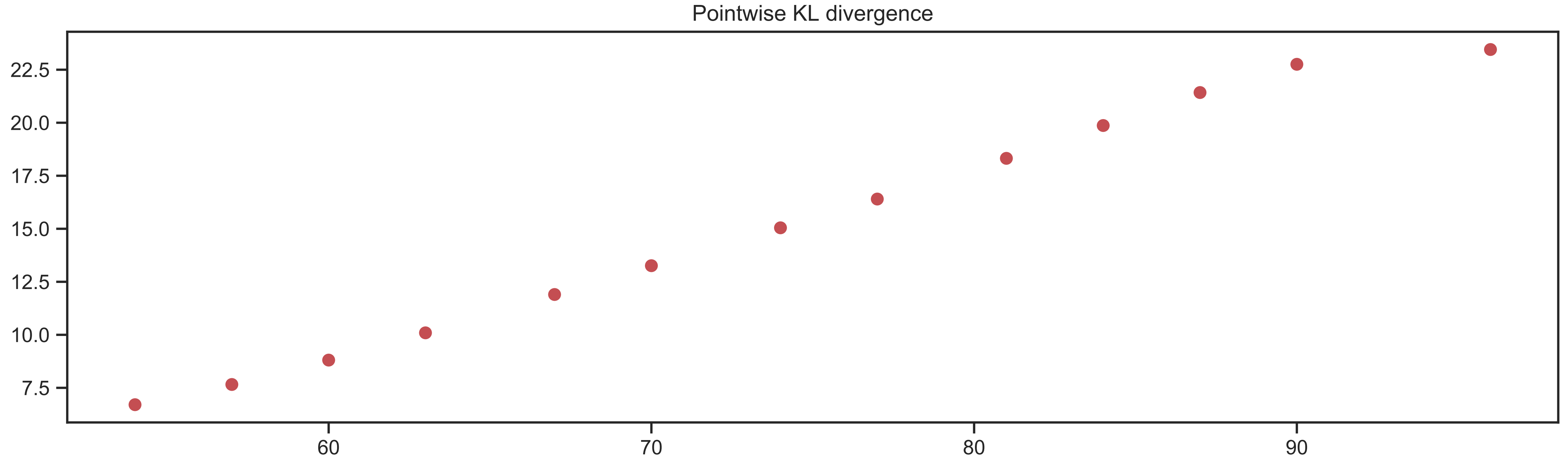


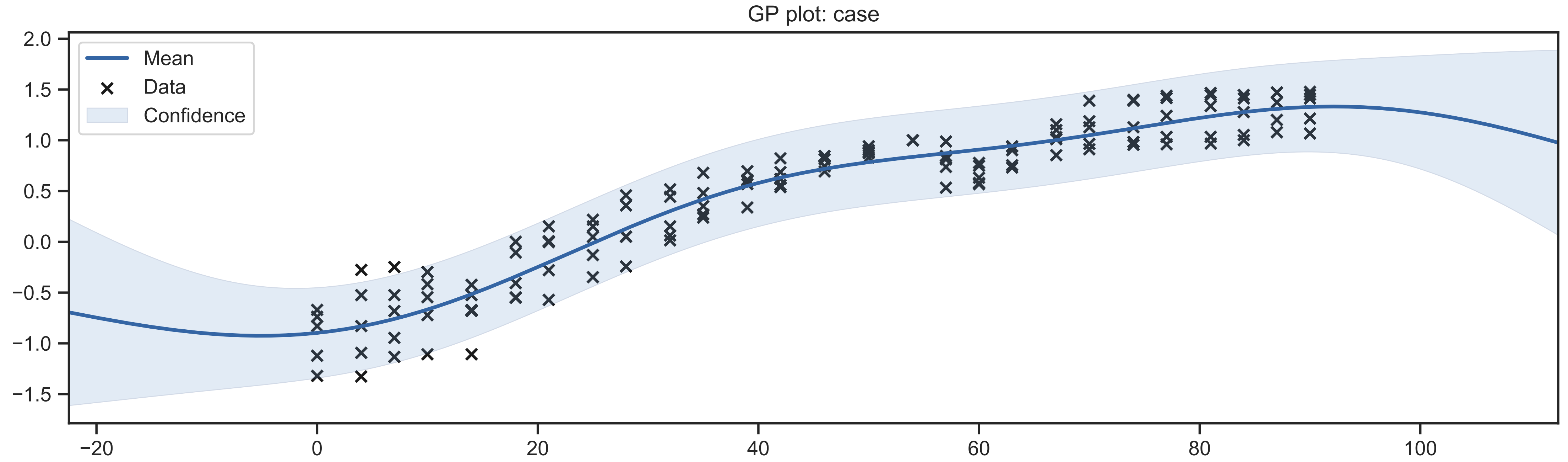
P3*C1

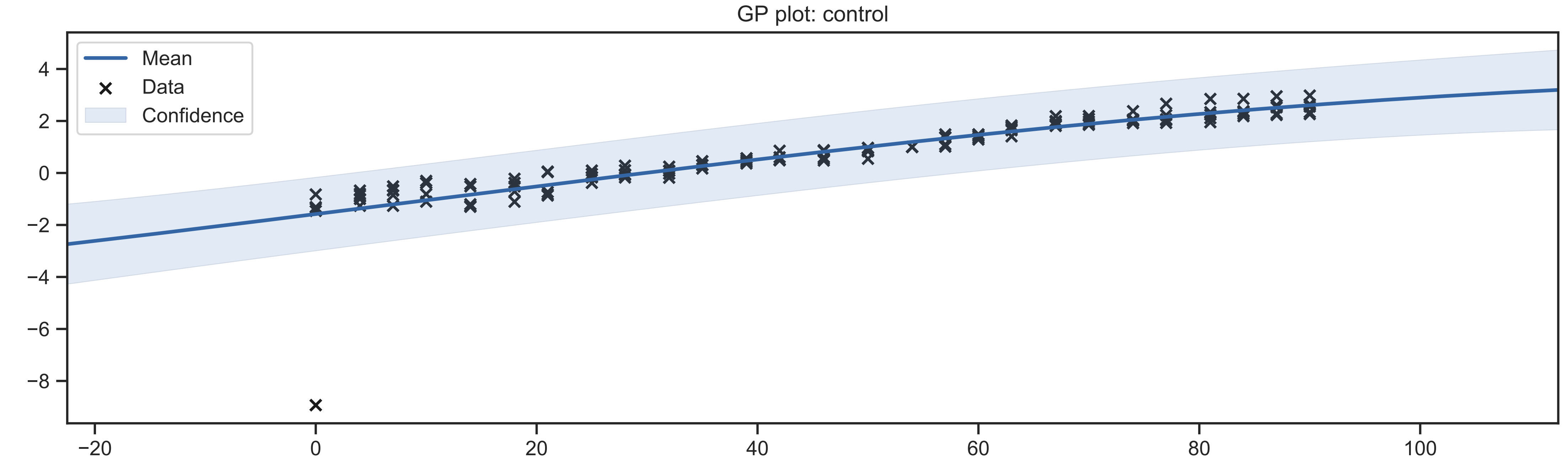

Replicates

KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

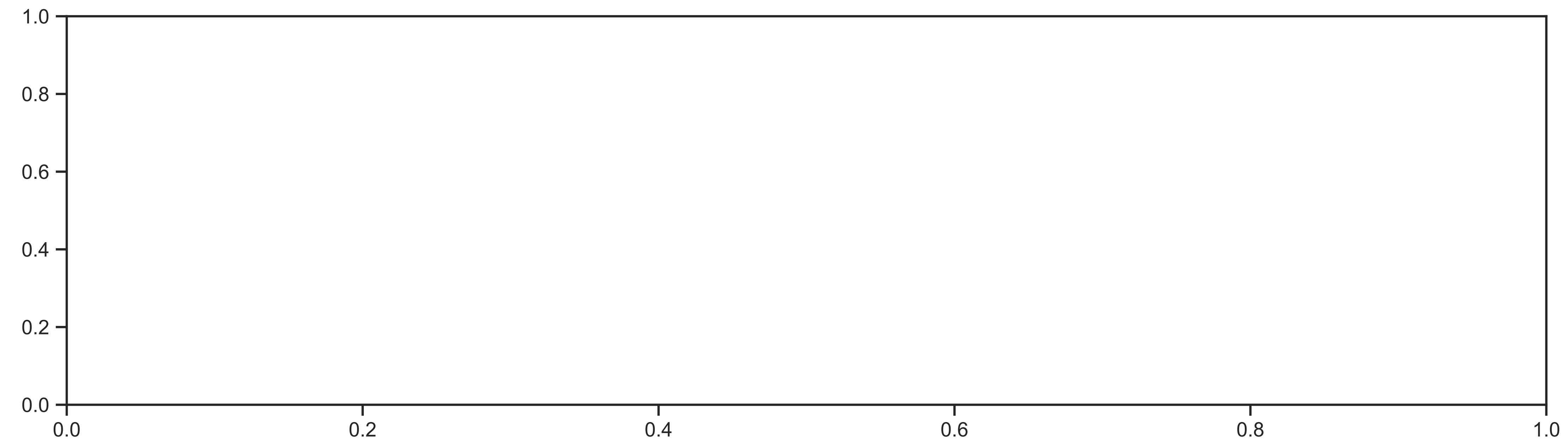

Means


Pointwise KL divergence

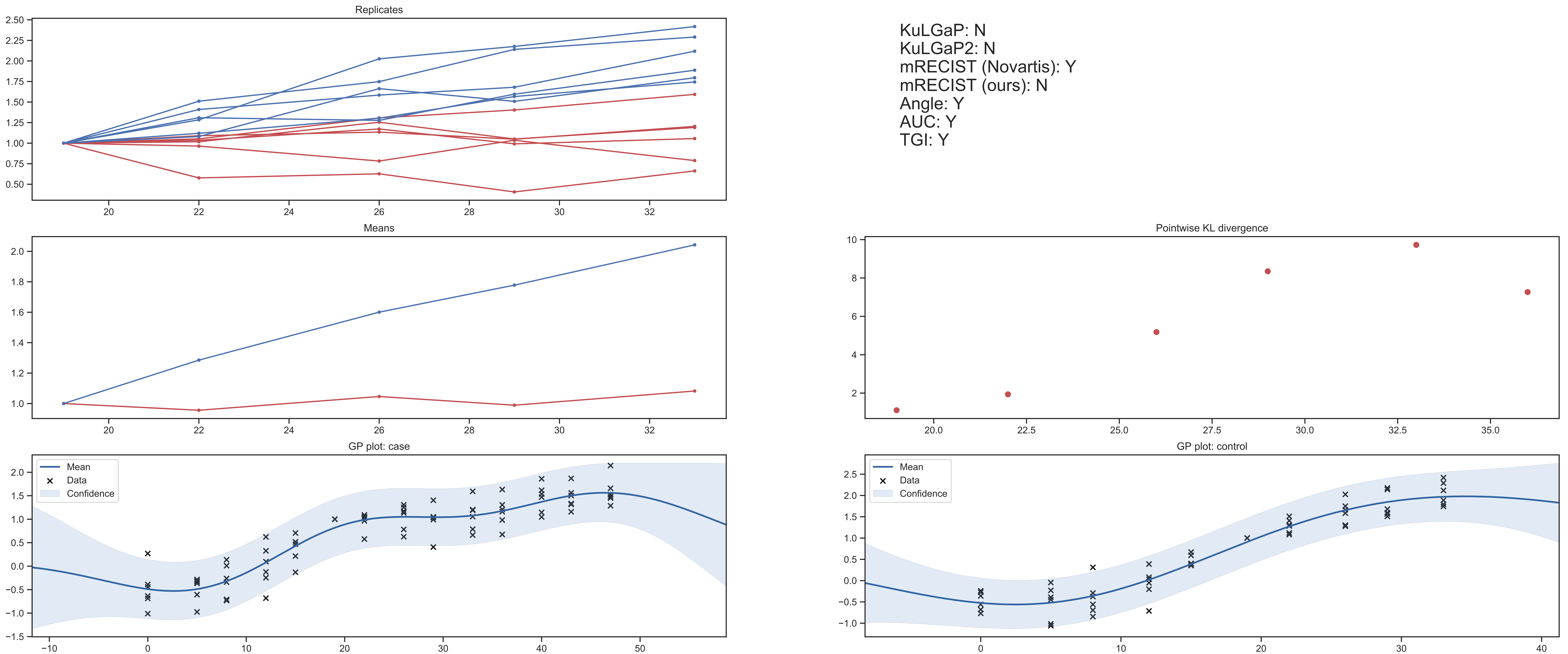

GP plot: case


GP plot: control

mRECIST: (0,0,5,0
kl: 14.600451345201014
response_angle_rel: 0:0.004648204870866382_1:0.000842099466507866_2:0.004573021247371469_3:0.003791427219017185_4:-0.00010753884125428866
response_angle_rel_control: 0:0.020307056591744765_1:0.02544859758668977_2:0.028700073984562327_3:0.03029652860800434_4:0.04948975738086314
auc_norm: 0:0.13759179451546286_1:0.00248348142704731_2:0.12431927153935339_3:0.10783057524448454_4:0.056702593403695344
auc_control_norm: 0:[0.3802749]_1:[0.42401565]_2:[0.46916906]_3:[0.51507475]_4:[0.59849133]
tgi: 0.676044779393641
red = treatment,   blue=control

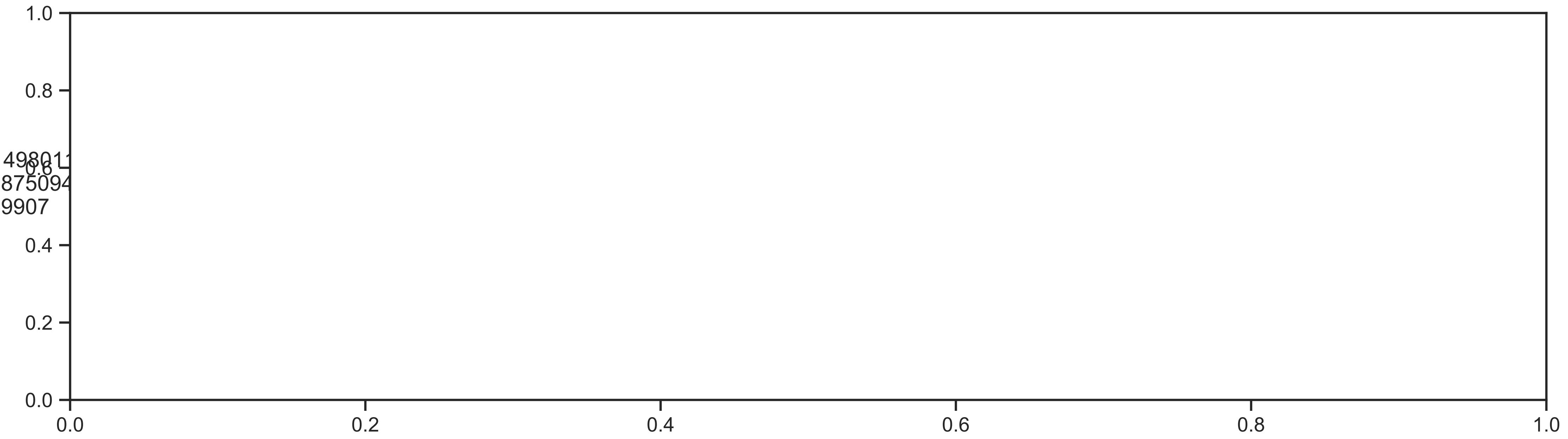


P4*C1

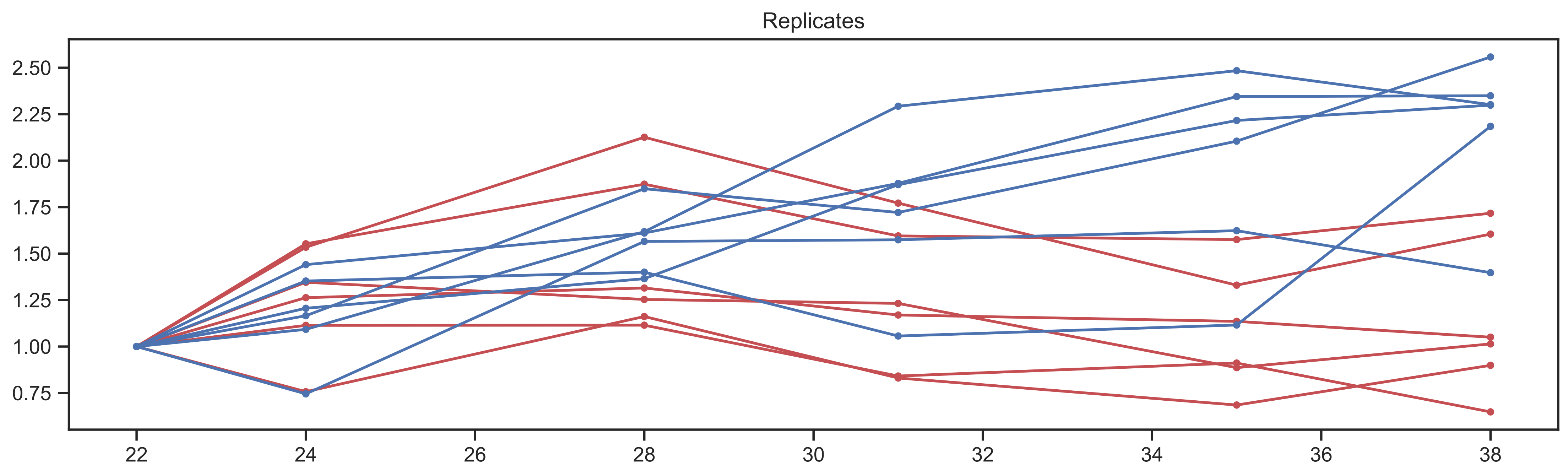


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

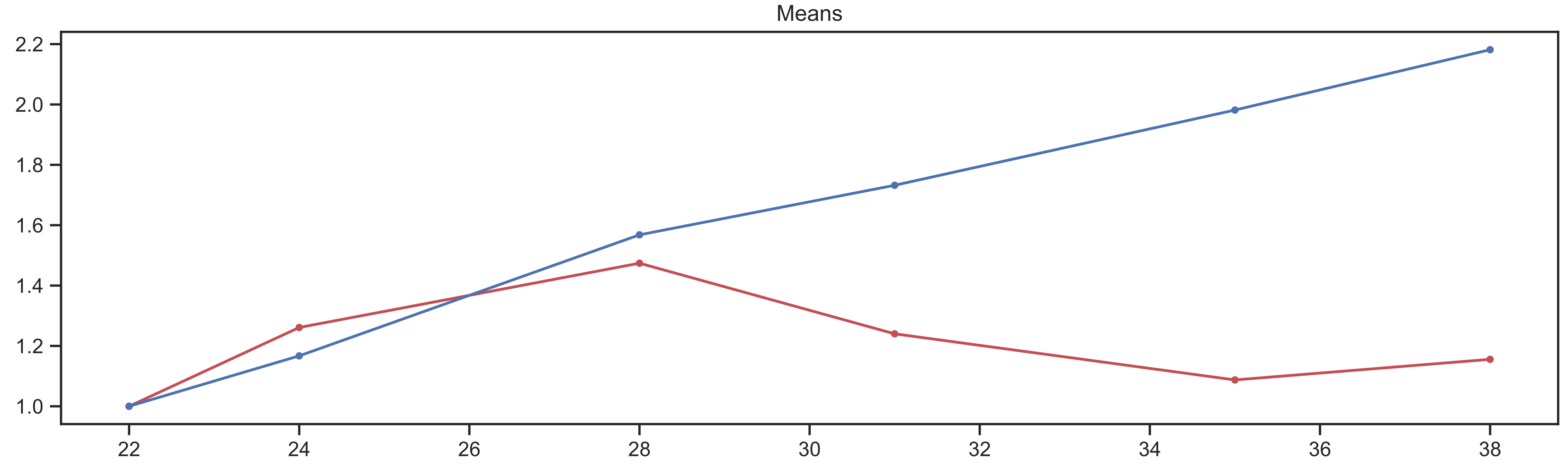
mRECIST: (0,0,6,0
kl: 5.005203804900228
response_angle_rel: 0:0.013487722645976188_1:-0.00022530552359059552_2:0.013230420084069957_3:0.03234402489983267_4:0.005366997396841779_5:0.01149801
response_angle_rel_control: 0:0.03180965027978828_1:0.07387147650816056_2:0.07450215564591367_3:0.043579743288582766_4:0.02738209611148893_5:0.03875094
auc_norm: 0:0.032060009834226036_1:-0.13815042697016494_2:0.0017066184494498177_3:0.16080429927573803_4:-0.03496038380725102_5:0.05133617277359907
auc_control_norm: 0:[0.19262201]_1:[0.39069666]_2:[0.39796901]_3:[0.32172615]_4:[0.21797859]_5:[0.27412243]
tgi: 0.875012581323563
red = treatment,   blue=control

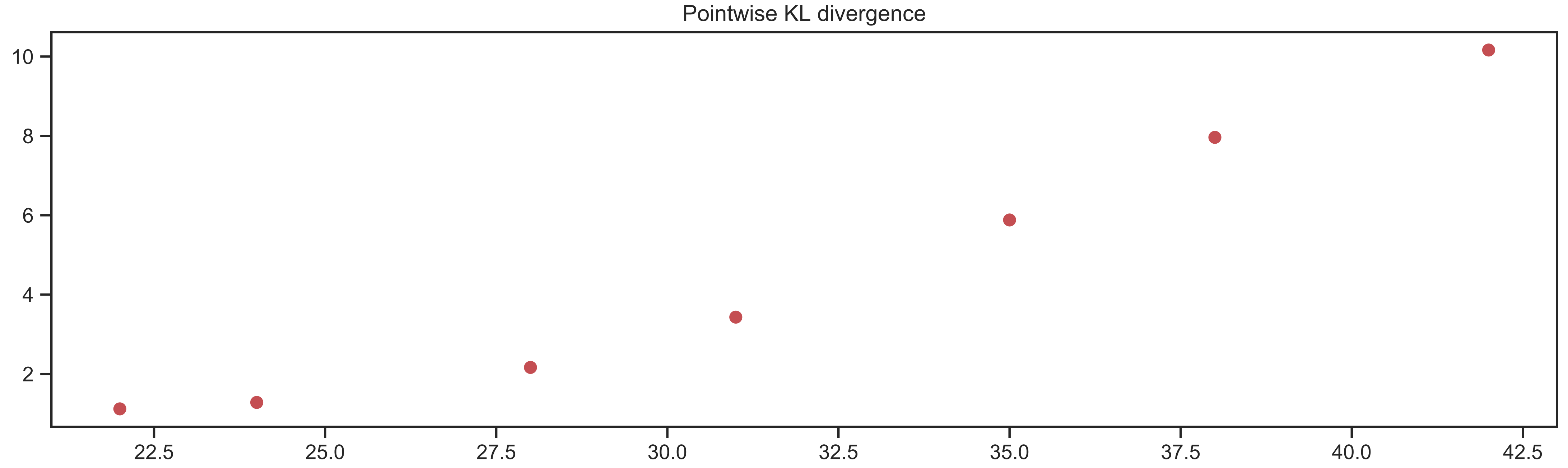


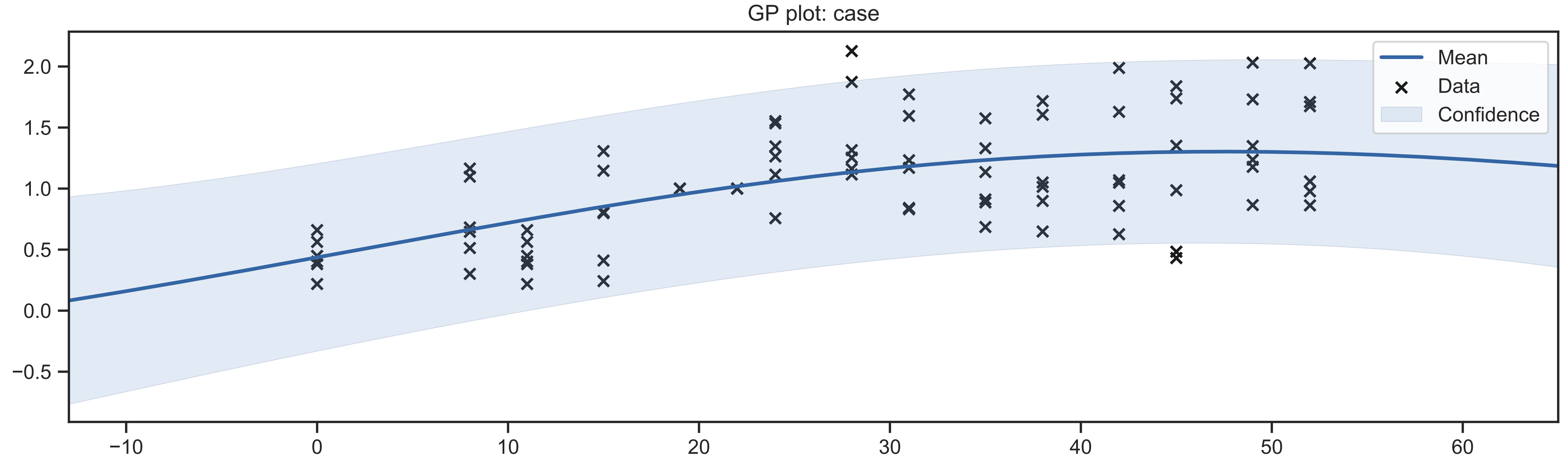
P5*C1

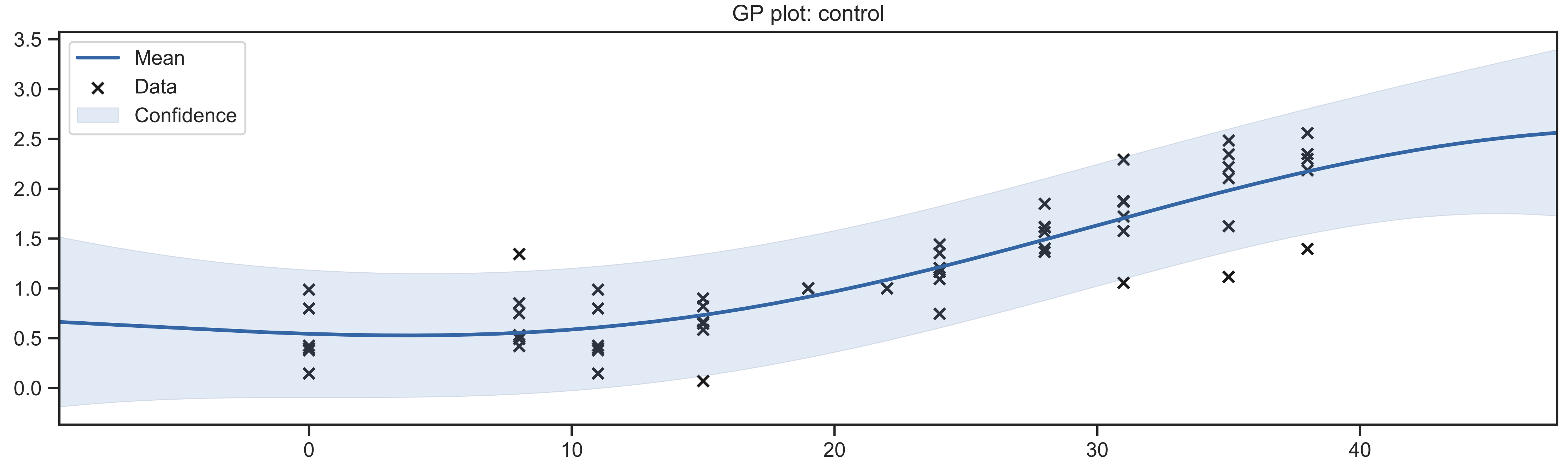


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

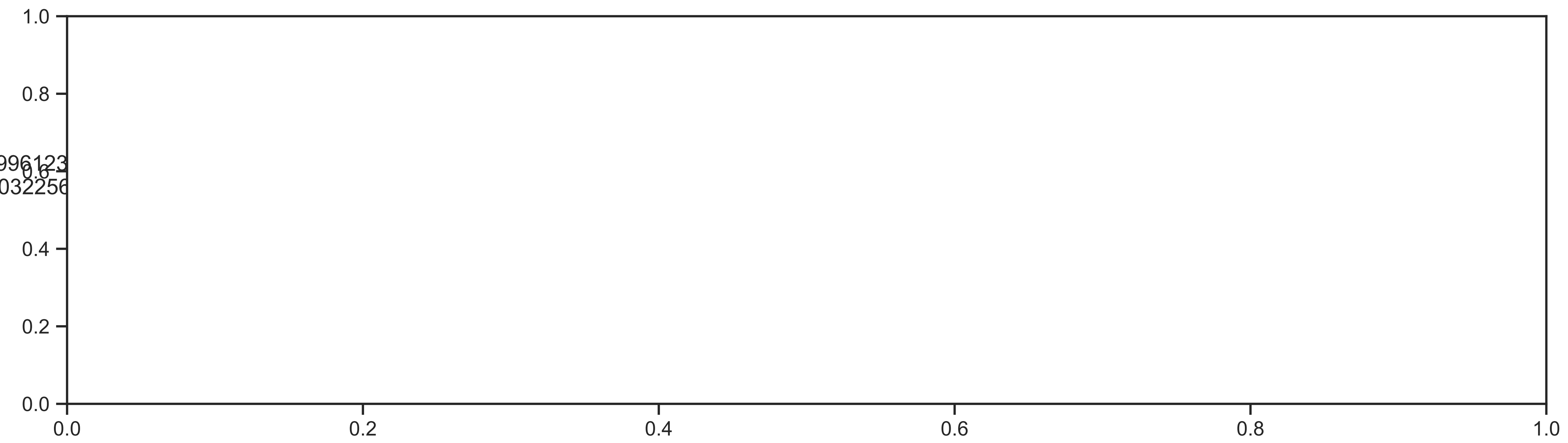




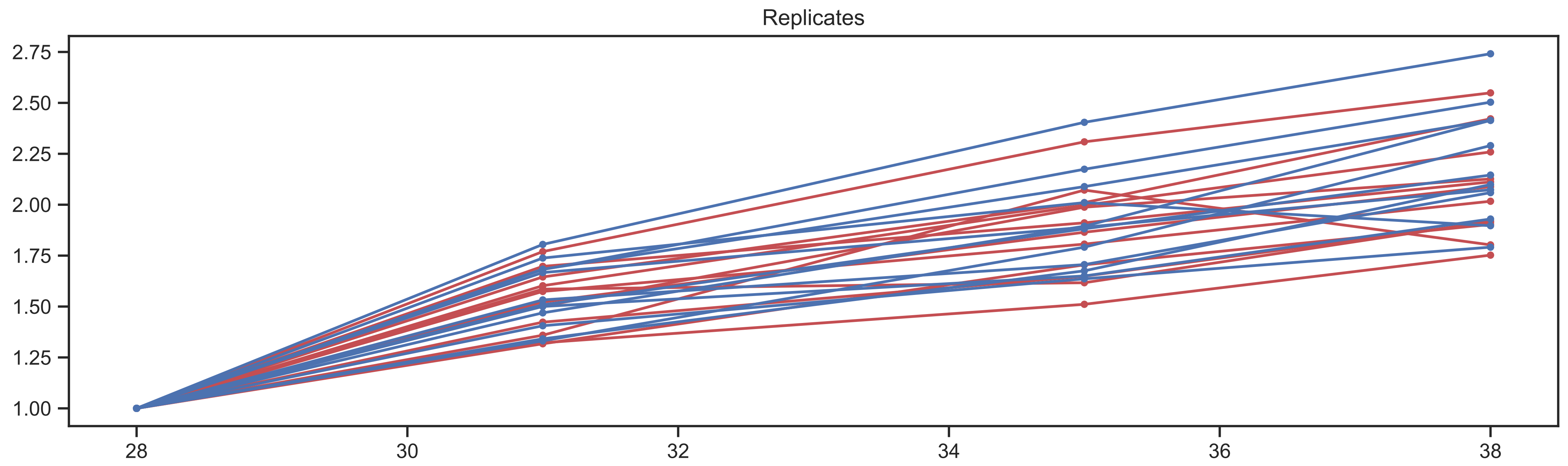




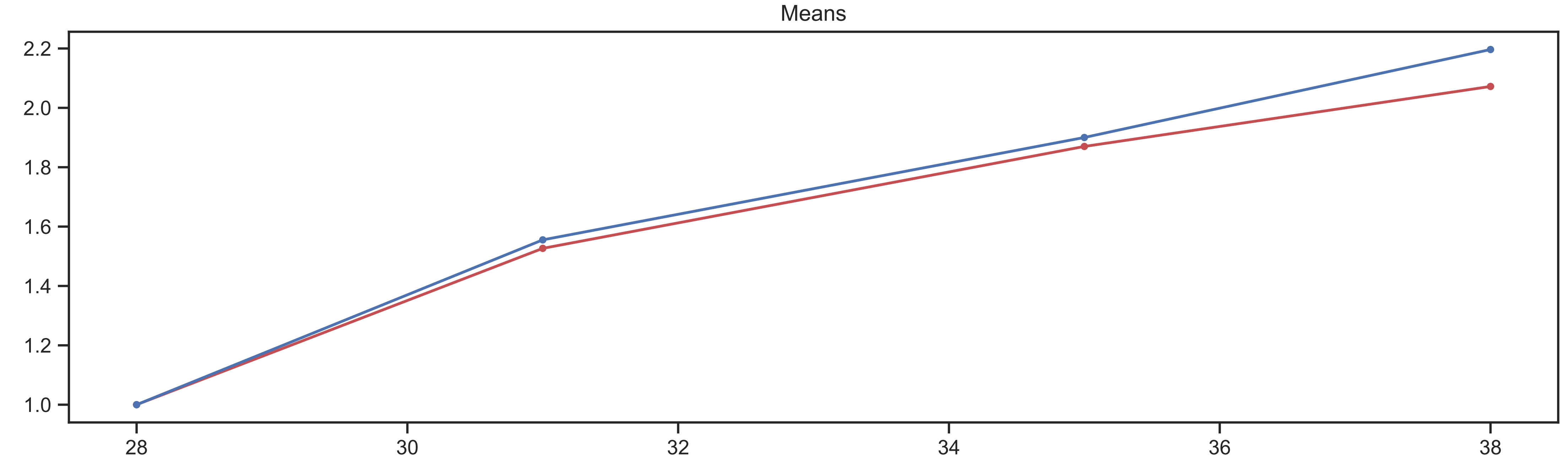
mRECIST: (0,0,4,2
kl: 3.653172655182448
response_angle_rel: 0:0.03257005153009142_1:-0.0025137266837423865_2:0.024196503995539253_3:0.0021025580957079975_4:-0.001914400212962043_5:0.00996123
response_angle_rel_control: 0:0.061734225800660514_1:0.018404437113574097_2:0.07800879066077876_3:0.06898941430205179_4:0.0447786914939483_5:0.0603225
auc_norm: 0:0.30597759986878237_1:-0.10413347068503438_2:0.27805719925852224_3:0.09877969998129799_4:-0.0958471289845106_5:0.05903763264870292
auc_control_norm: 0:[0.47006363]_1:[0.01757351]_2:[0.45790115]_3:[0.38940537]_4:[0.44466854]_5:[0.42504089]
tgi: 0.8712006677636442
red = treatment,   blue=control

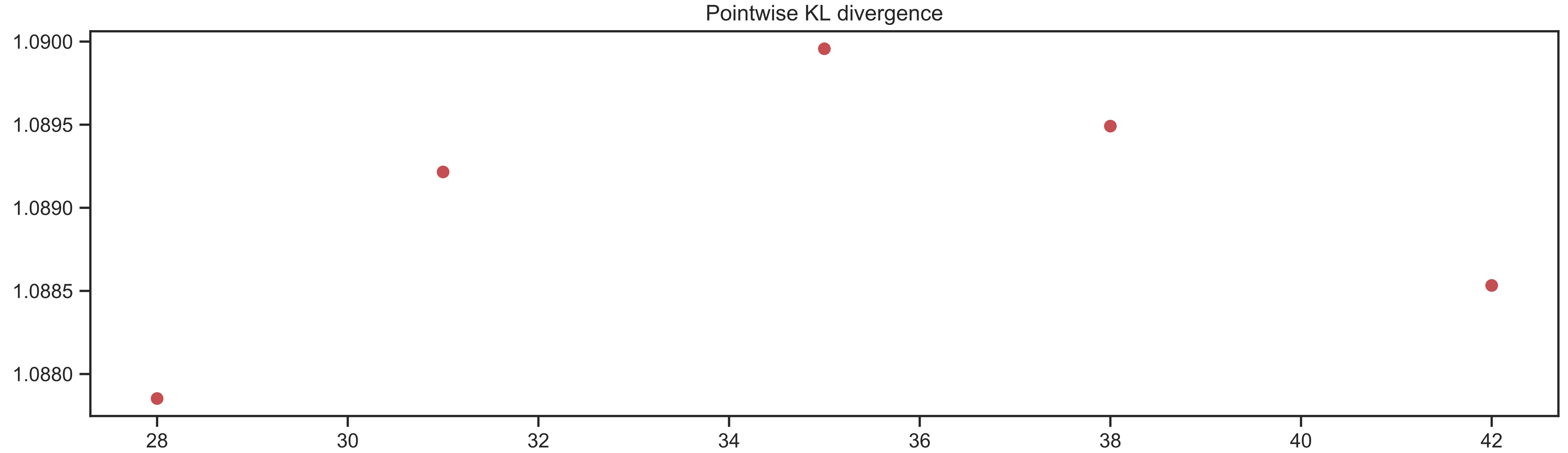


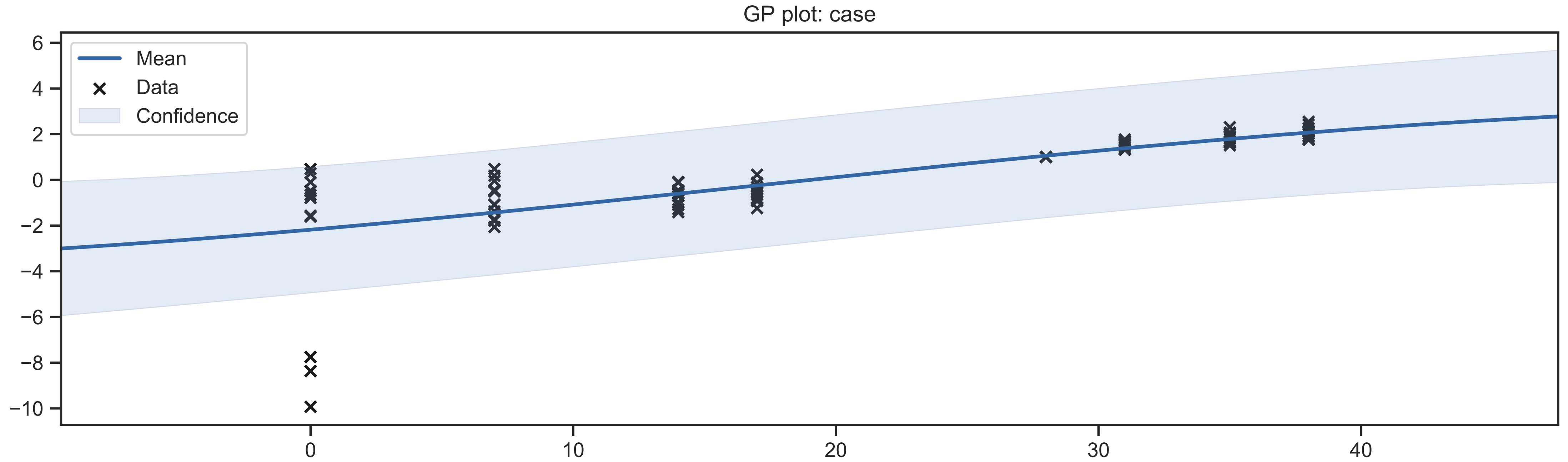
P6*C1

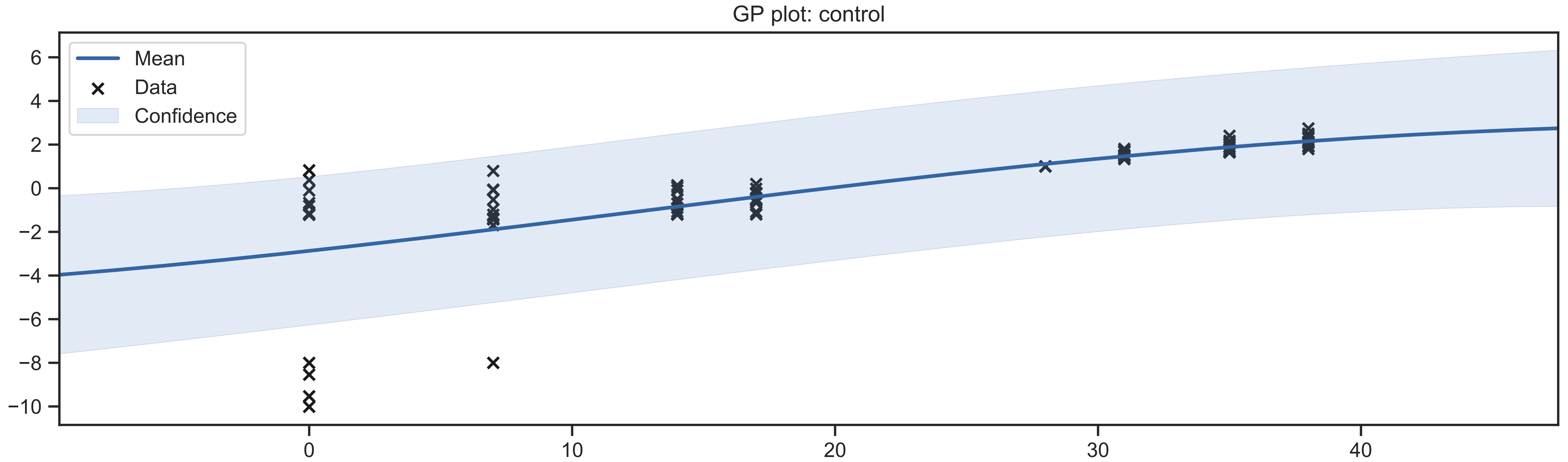

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

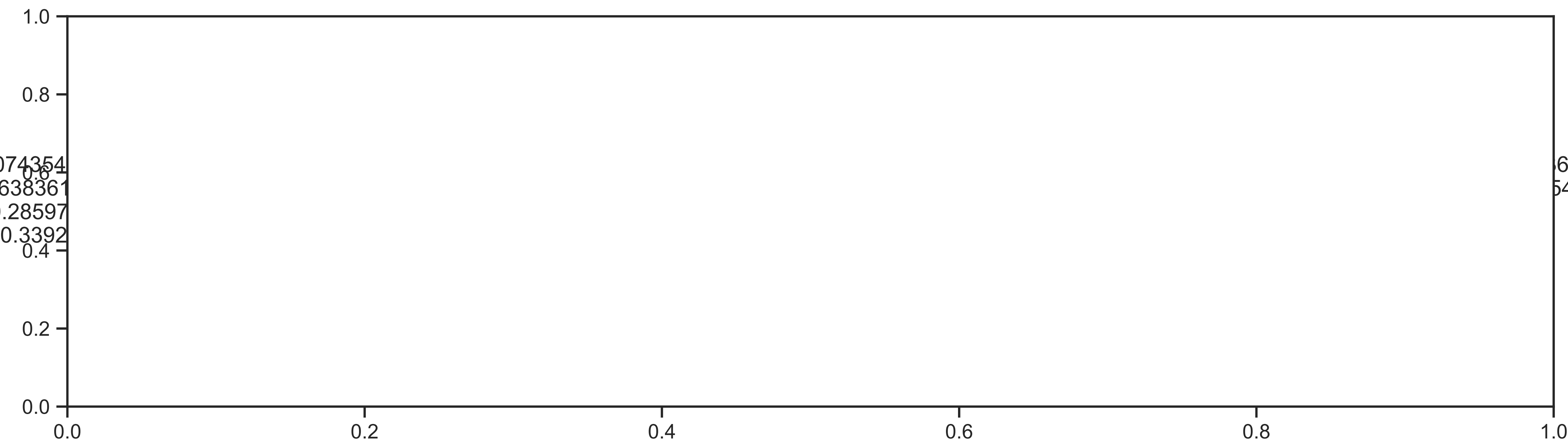

Means


Pointwise KL divergence


GP plot: case

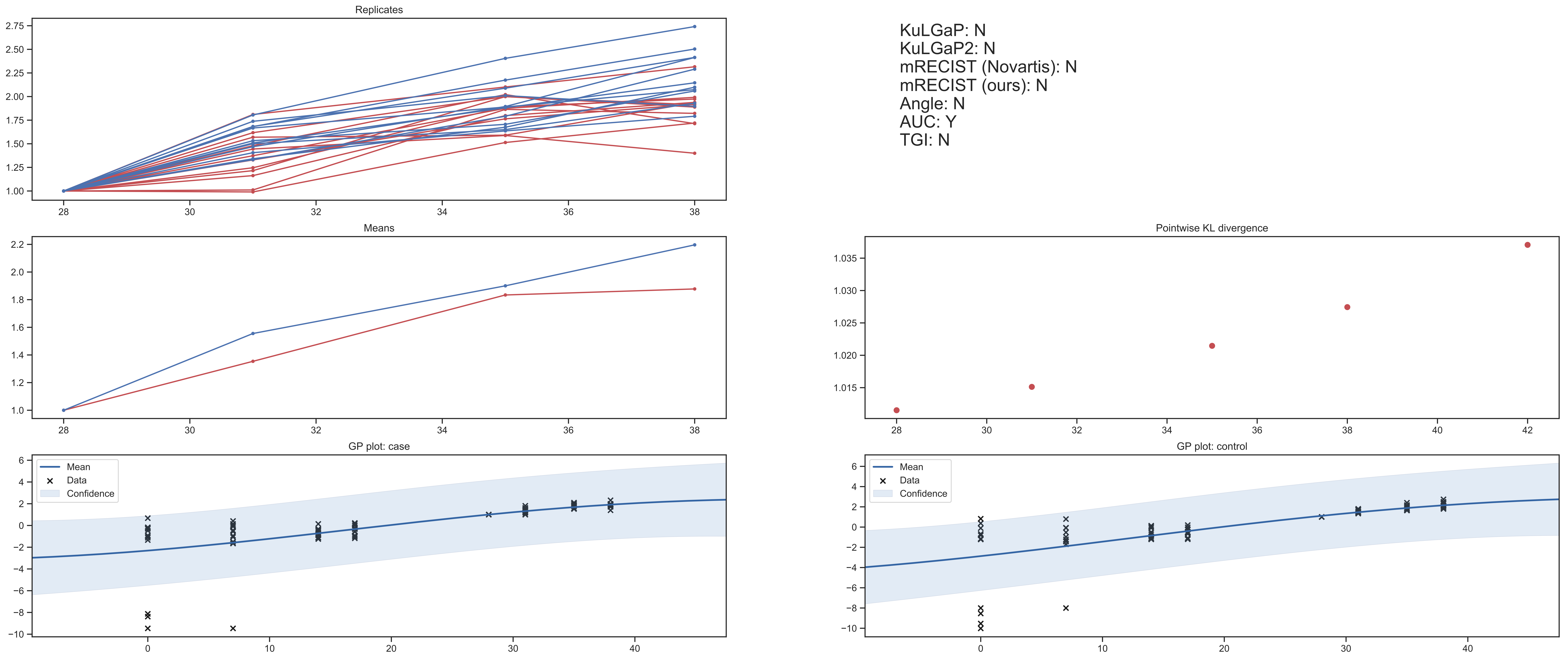

GP plot: control

mRECIST: (0,0,0,12
kl: 0.08936188573729853
response_angle_rel: 0:0.07458822793483509_1:0.008116147549716637_2:0.016200545756867697_3:0.021014982945200527_4:0.013166061130578482_5:0.09008074354 6746625788035
response_angle_rel_control: 0:0.05752374151482952_1:0.0562718307353203_2:0.028818663974913717_3:0.03359191041010573_4:0.04077436273371379_5:0.05063836 5475702942925714
auc_norm: 0:0.3528471986635107_1:0.3036506810272793_2:0.3195984342489136_3:0.38672448980095914_4:0.20820326960127788_5:0.44349438884201686_6:0.28597
auc_control_norm: 0:[0.43585014]_1:[0.27627423]_2:[0.24461231]_3:[0.29741053]_4:[0.33861564]_5:[0.35071973]_6:[0.43761518]_7:[0.46007546]_8:[0.53040889]_9:[0.3392
tgi: 0.12732504971755532
red = treatment, blue=control



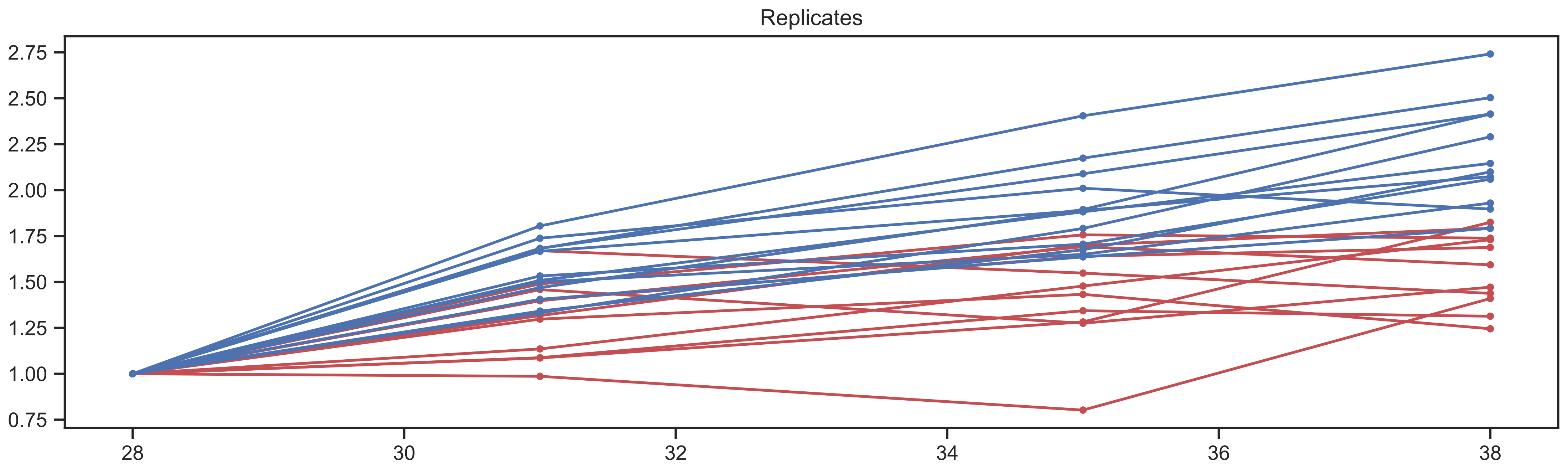
P6*C2

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N

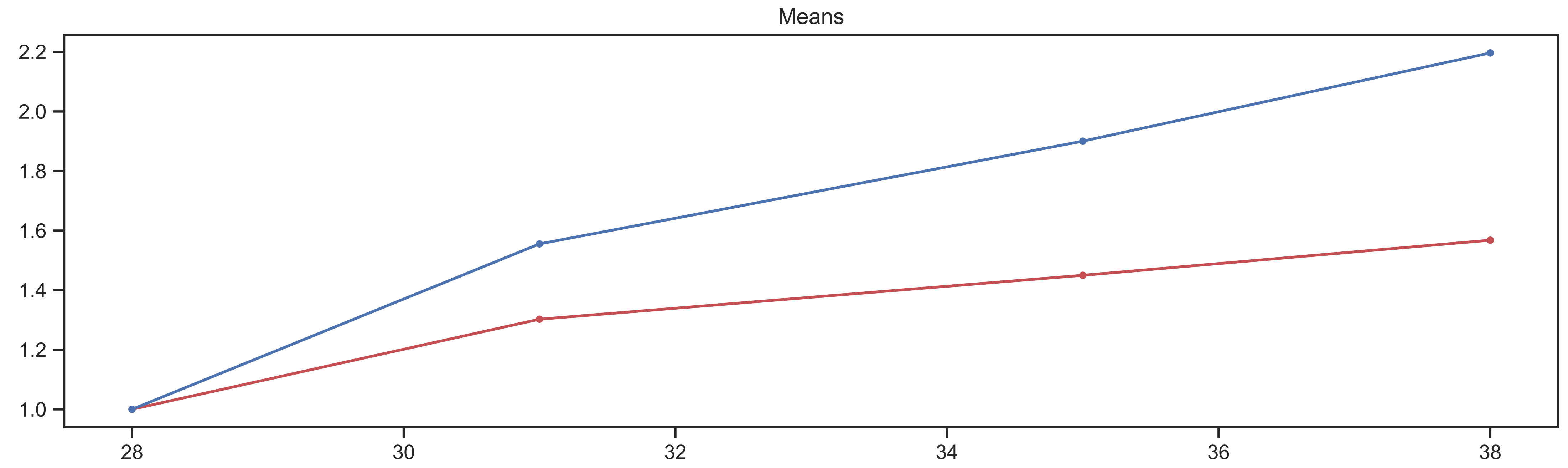


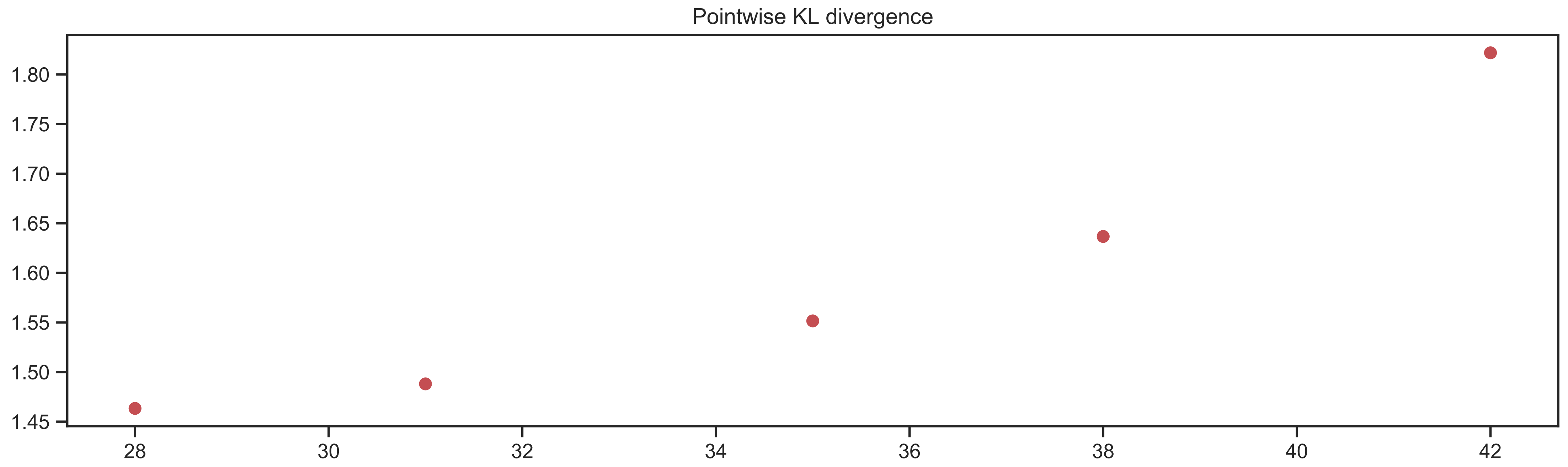
mRECIST: (0,0,1,11
kl: 0.023207818194147356
response_angle_rel: 0:0.016267513766112116_1:0.01360362025878277_2:0.037718764285076936_3:0.055441719420956666_4:0.055626095559935175_5:0.0388603491 97515211553503
response_angle_rel_control: 0:0.05752374151482952_1:0.0562718307353203_2:0.028818663974913717_3:0.03359191041010573_4:0.04077436273371379_5:0.0506383 5475702942925714
auc_norm: 0:0.23088797600039326_1:0.2887789027190114_2:0.19617991227462706_3:0.27290408060821447_4:0.3103505214170565_5:0.192678708660841_6:0.12129
auc_control_norm: 0:[0.43585014]_1:[0.27627423]_2:[0.24461231]_3:[0.29741053]_4:[0.33861564]_5:[0.35071973]_6:[0.43761518]_7:[0.46007546]_8:[0.53040889]_9:[0.3392
tgi: 0.1995603181590312
red = treatment, blue=control

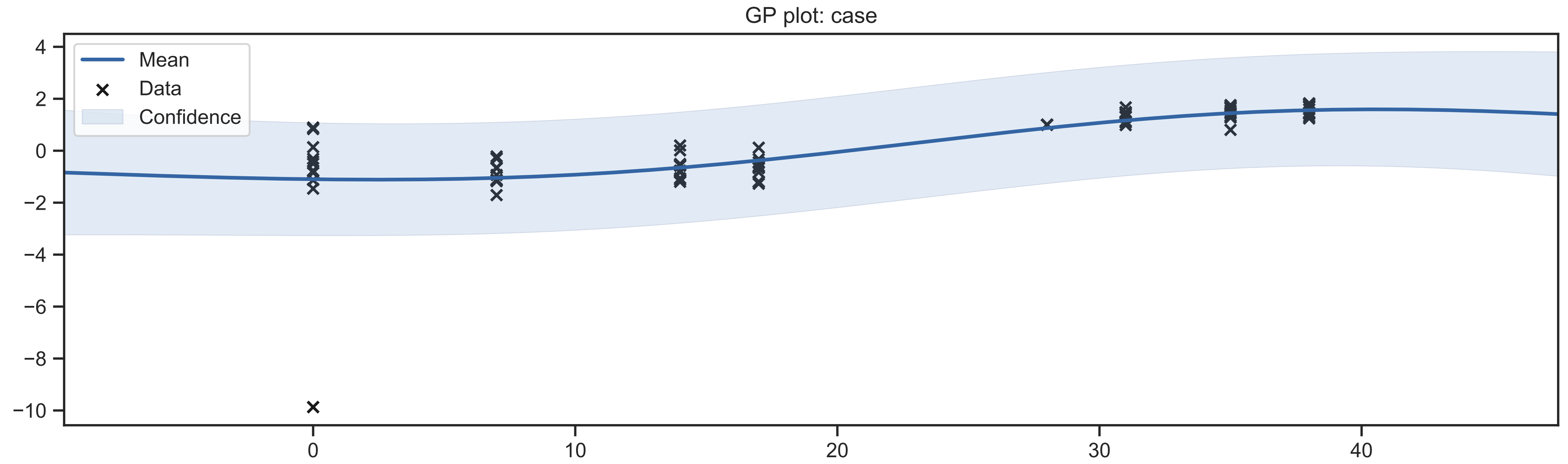
P6*C3

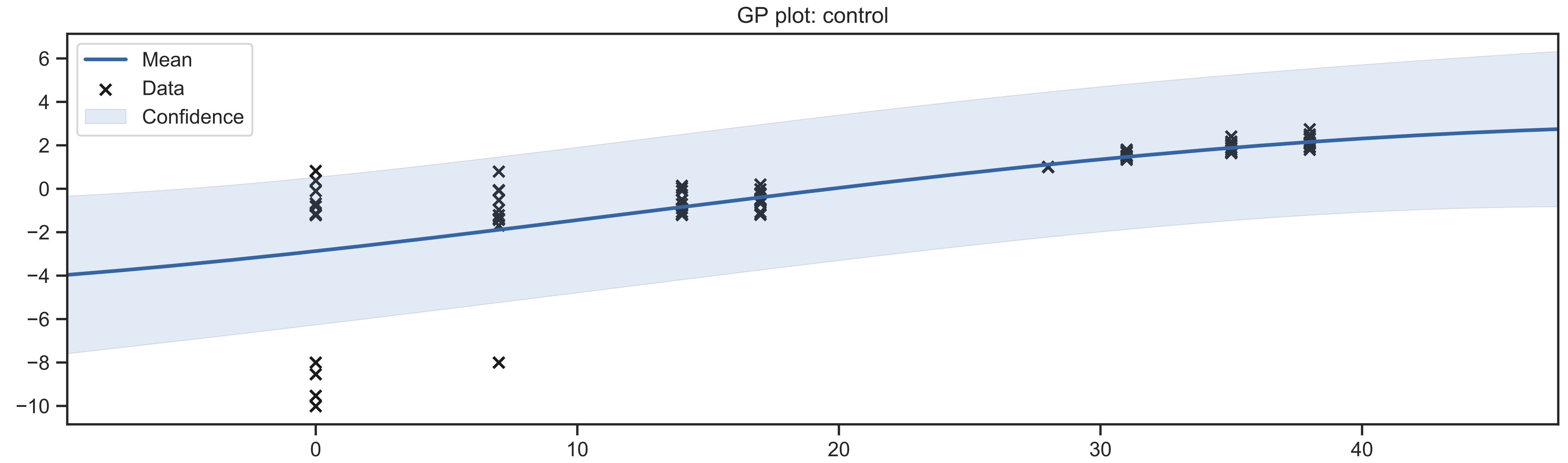


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

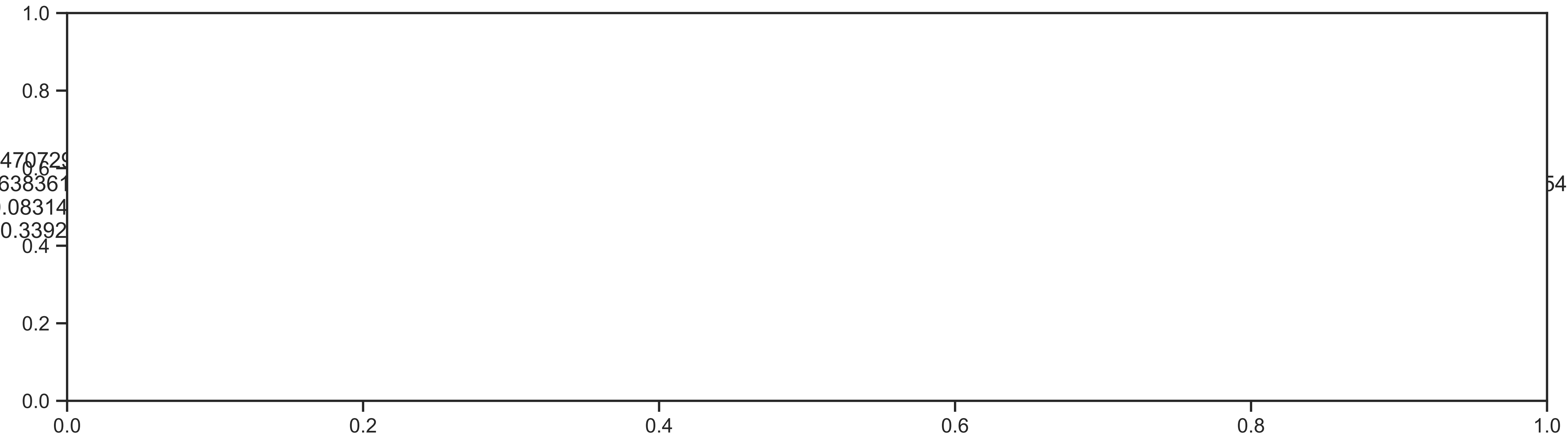




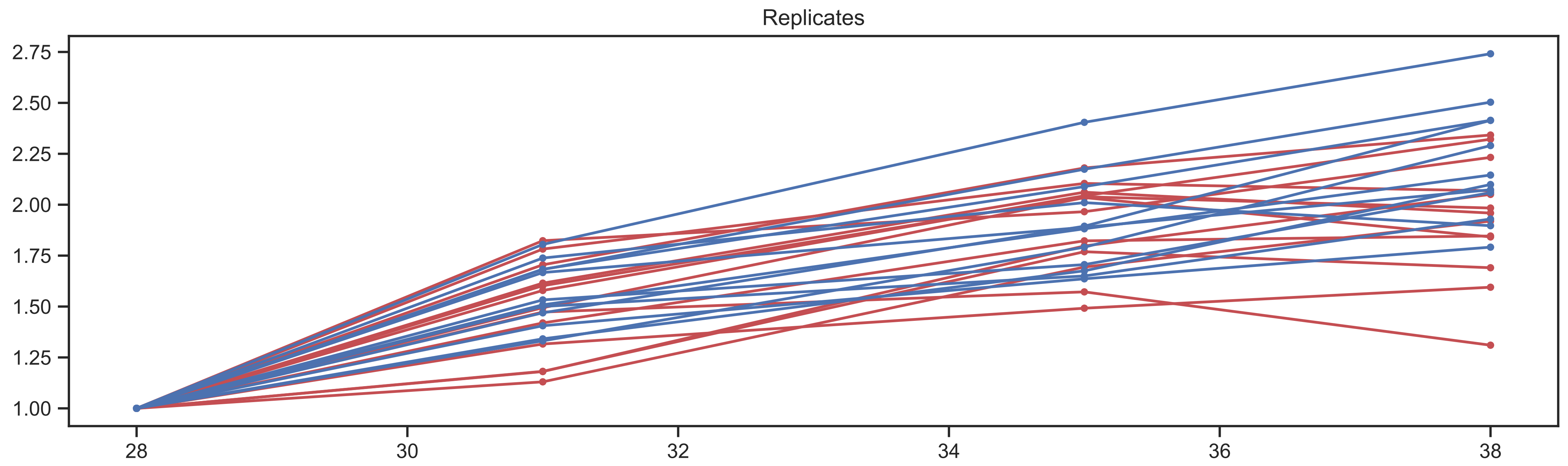




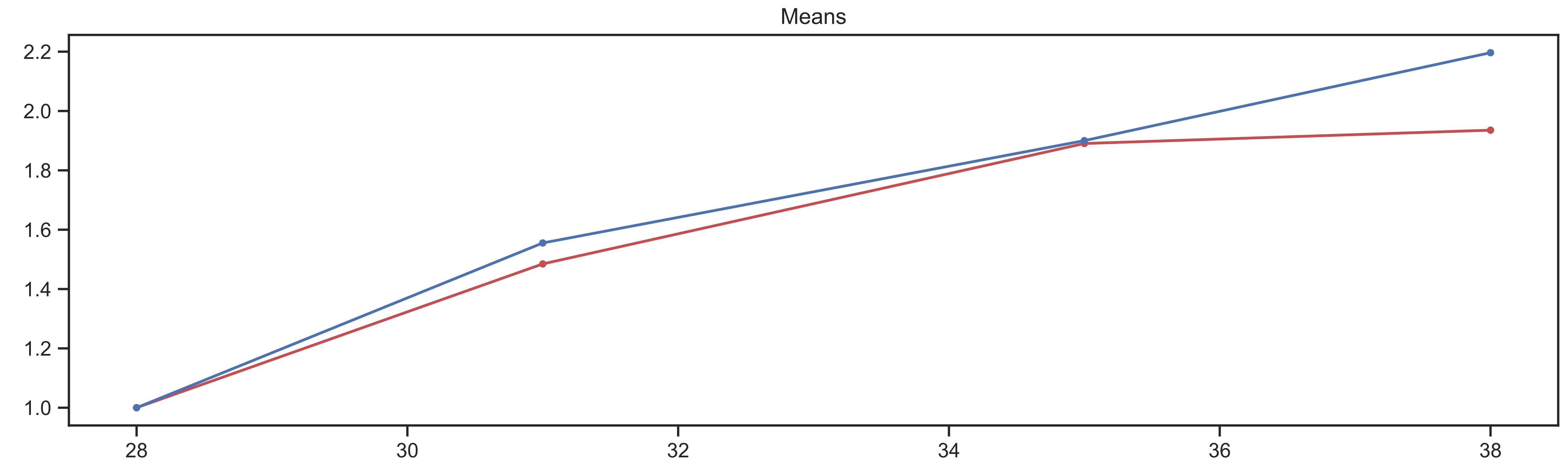
mRECIST: (0,0,4,7
kl: 0.5908746517144803
response_angle_rel: 0:0.0069727350286153626_1:0.006332199380799796_2:0.004729905051858529_3:0.00815291661443528_4:-0.00034715535722750764_5:0.0147072
response_angle_rel_control: 0:0.05752374151482952_1:0.0562718307353203_2:0.028818663974913717_3:0.03359191041010573_4:0.04077436273371379_5:0.05063836 5475702942925714
auc_norm: 0:0.15606607170728615_1:0.2239527114760872_2:0.07045339857825478_3:0.17246379393600597_4:0.1519628181414282_5:0.2094293266612274_6:0.08314
auc_control_norm: 0:[0.43585014]_1:[0.27627423]_2:[0.24461231]_3:[0.29741053]_4:[0.33861564]_5:[0.35071973]_6:[0.43761518]_7:[0.46007546]_8:[0.53040889]_9:[0.3392
tgi: 0.6823080231958552
red = treatment, blue=control

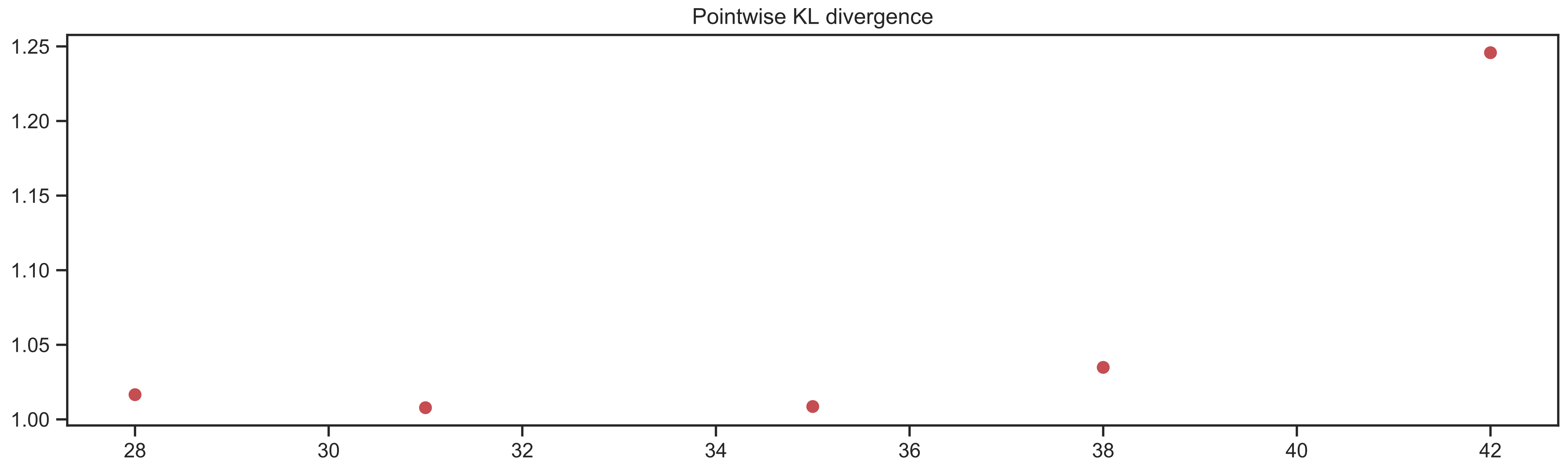


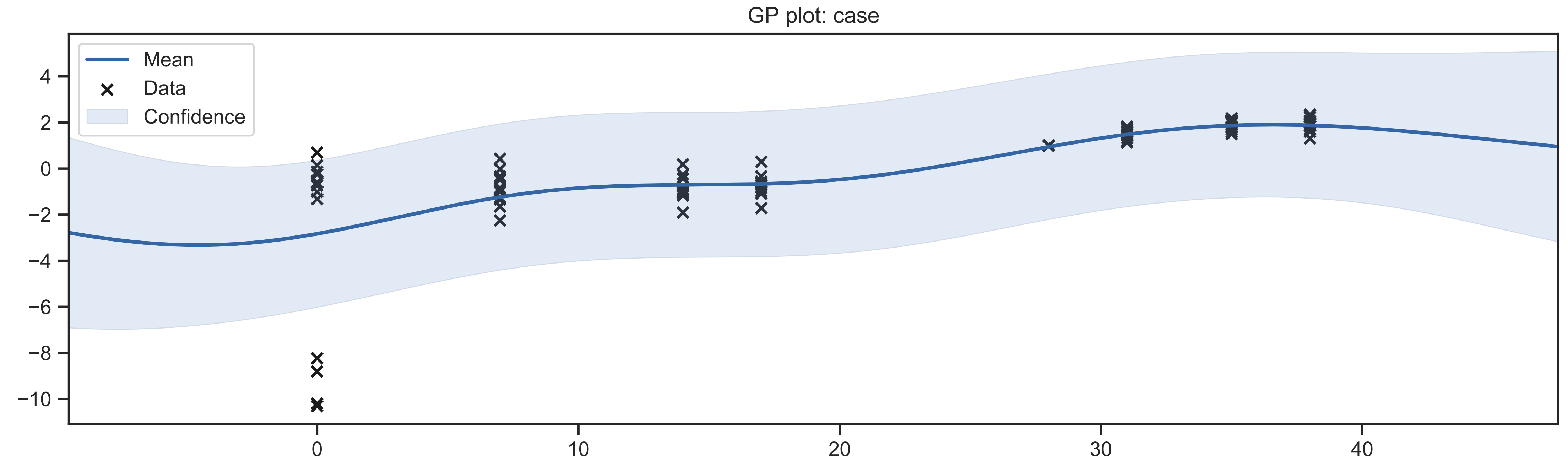
P6*C4

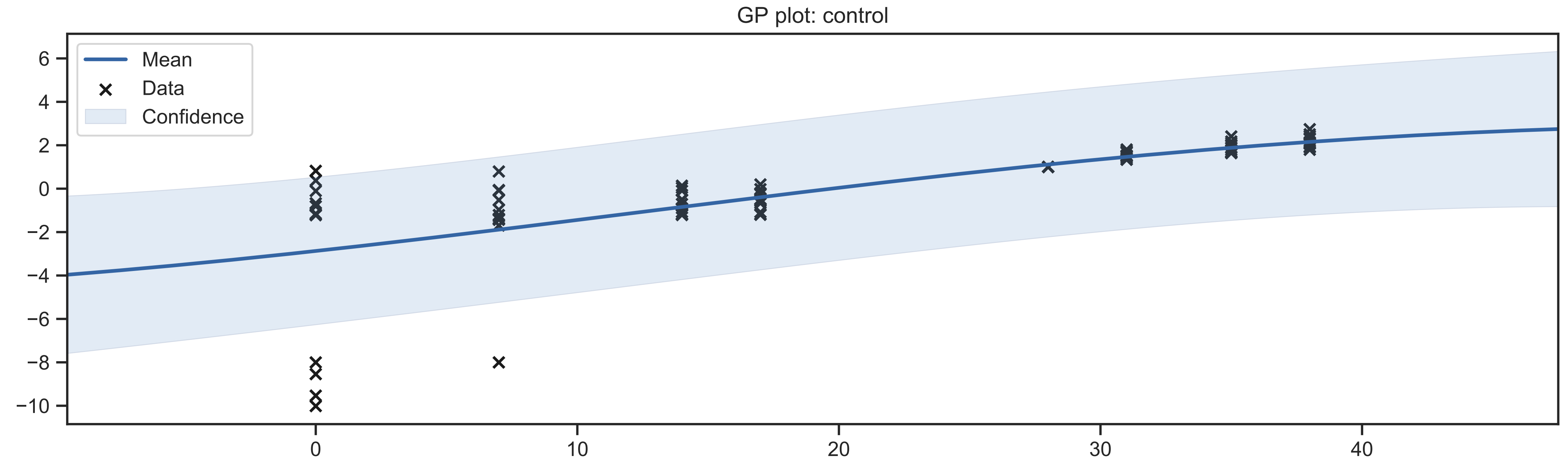


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N

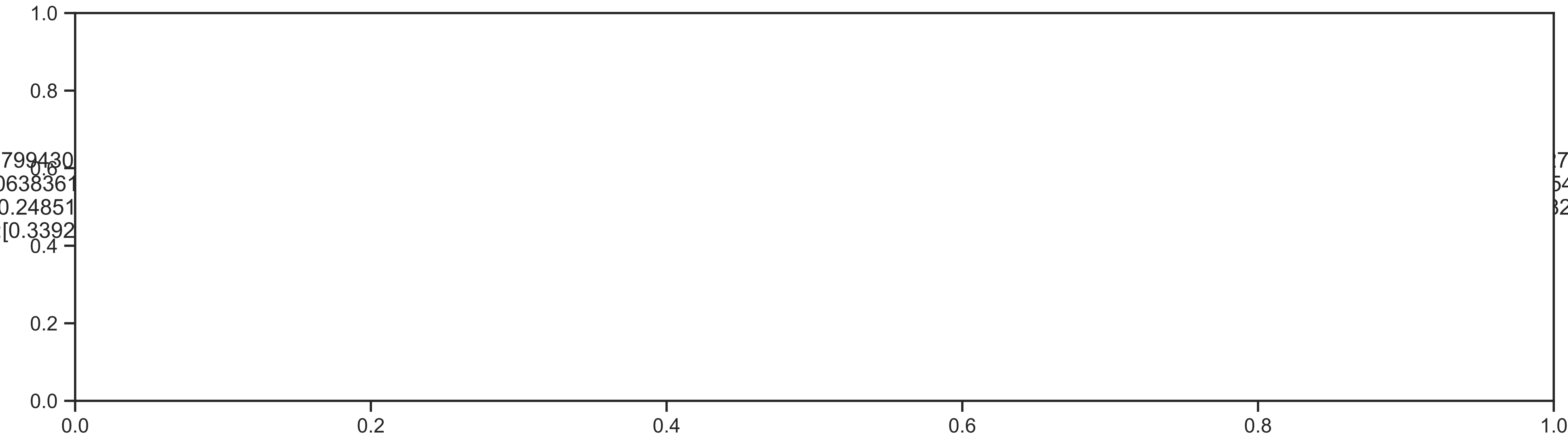




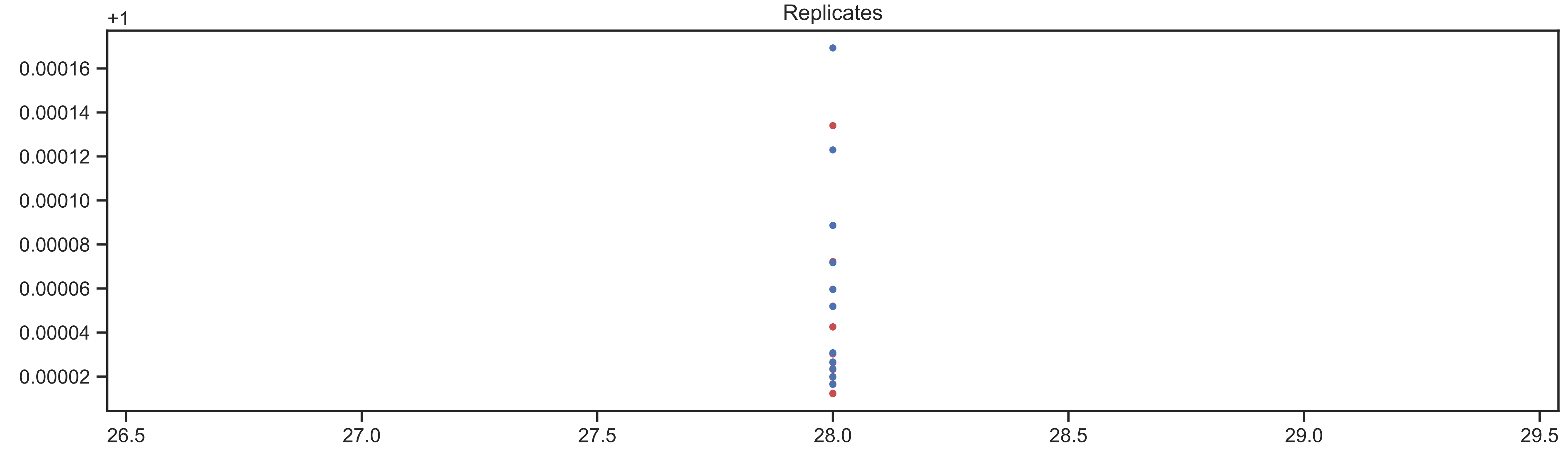




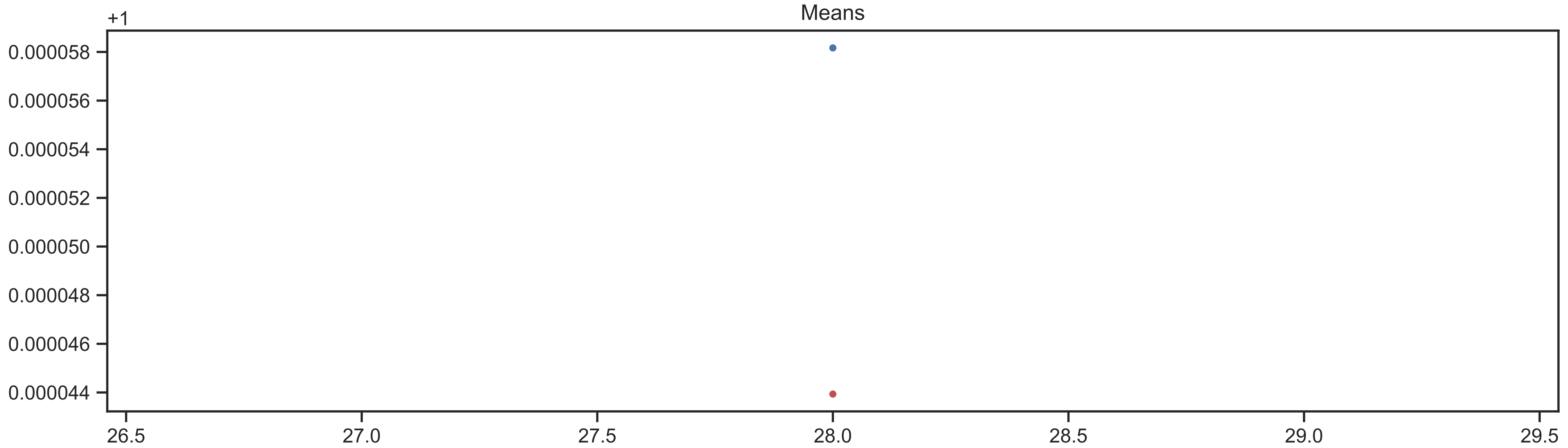
mRECIST: (0,0,1,12
kl: 0.044110378608538635
response_angle_rel: 0:0.068862400188256_1:0.0067773016479810945_2:0.0024704654914836756_3:0.03876535952642477_4:0.018175920570344187_5:0.047736799430 727759326179_12:0.06116992289723004
response_angle_rel_control: 0:0.05752374151482952_1:0.0562718307353203_2:0.028818663974913717_3:0.03359191041010573_4:0.04077436273371379_5:0.050638361 475702942925714
auc_norm: 0:0.4016955694792221_1:0.09512810420236949_2:0.18360332813000624_3:0.3292515410598039_4:0.29148185754349965_5:0.2987864384401837_6:0.24851 241671105444527
auc_control_norm: 0:[0.43585014]_1:[0.27627423]_2:[0.24461231]_3:[0.29741053]_4:[0.33861564]_5:[0.35071973]_6:[0.43761518]_7:[0.46007546]_8:[0.53040889]_9:[0.3392
tgi: 0.21044852558703975
red = treatment, blue=control

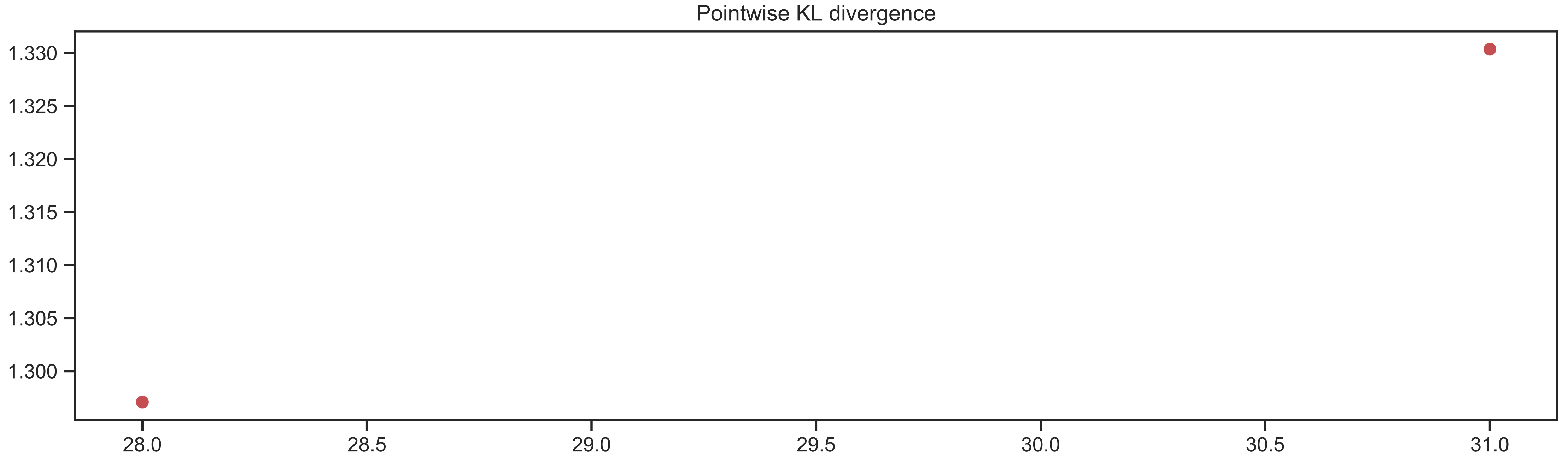


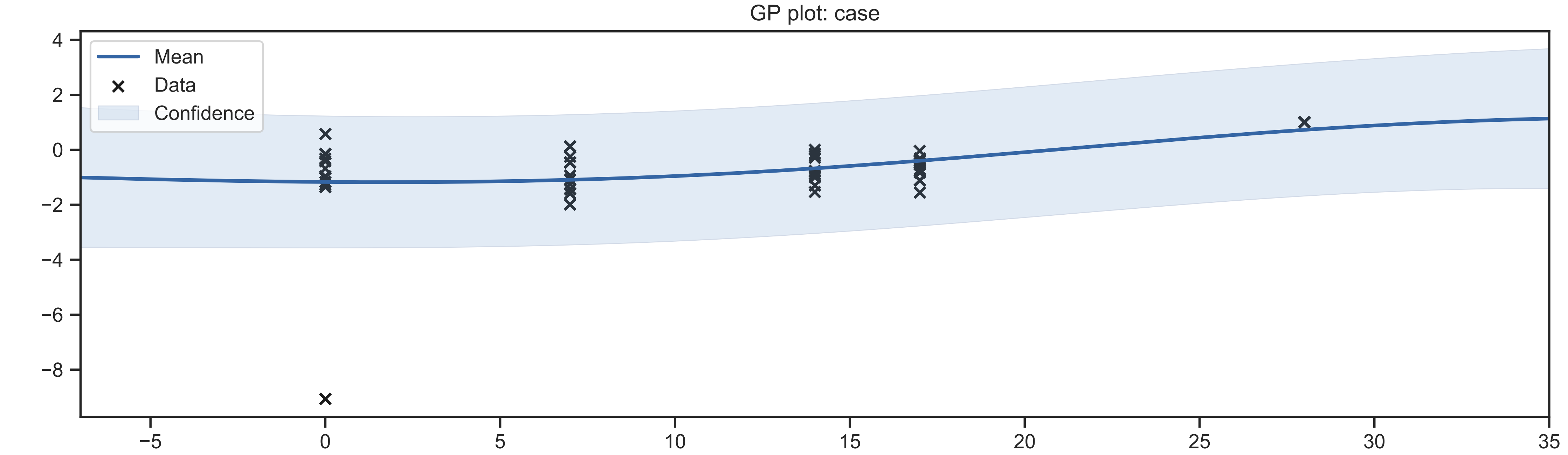
P6*C5

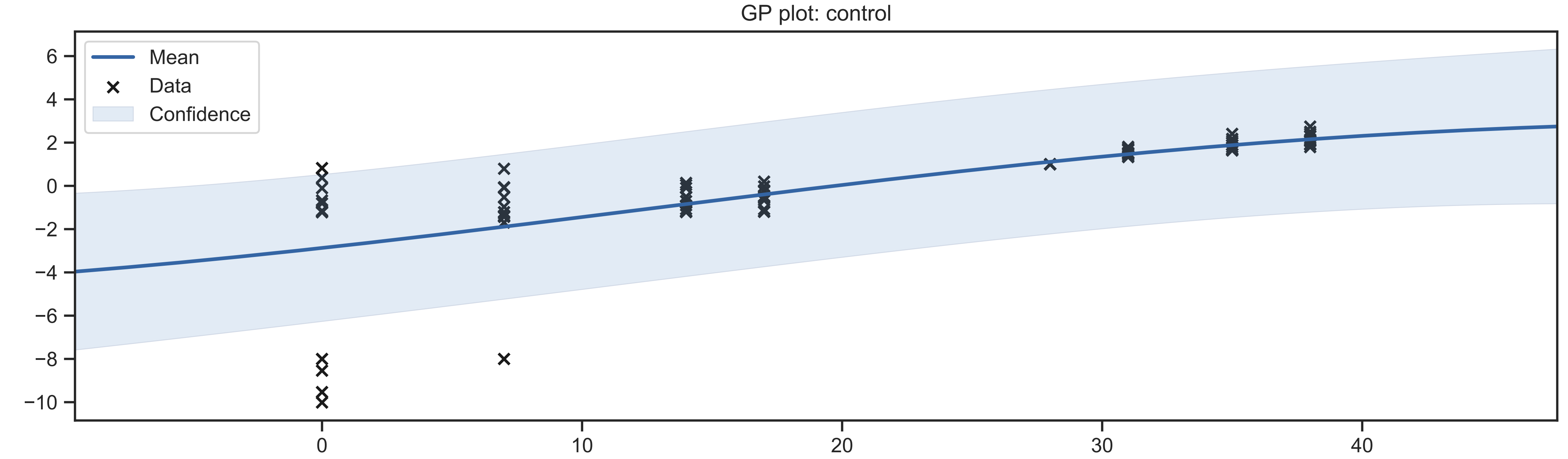


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N/a
mRECIST (ours): N/a
Angle: Y
AUC: Y
TGI: N/a

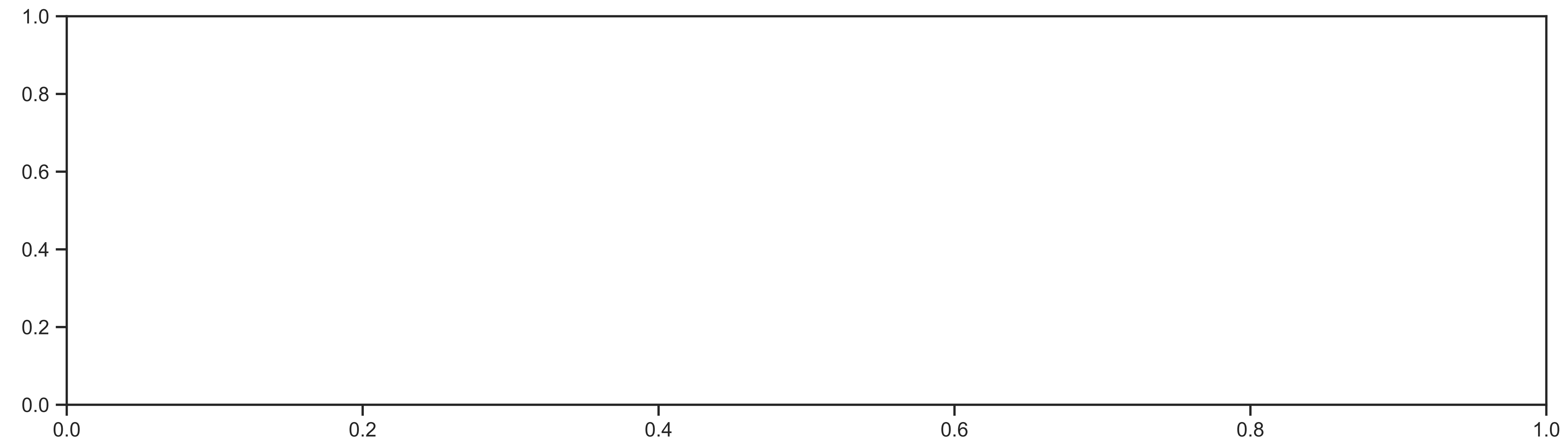




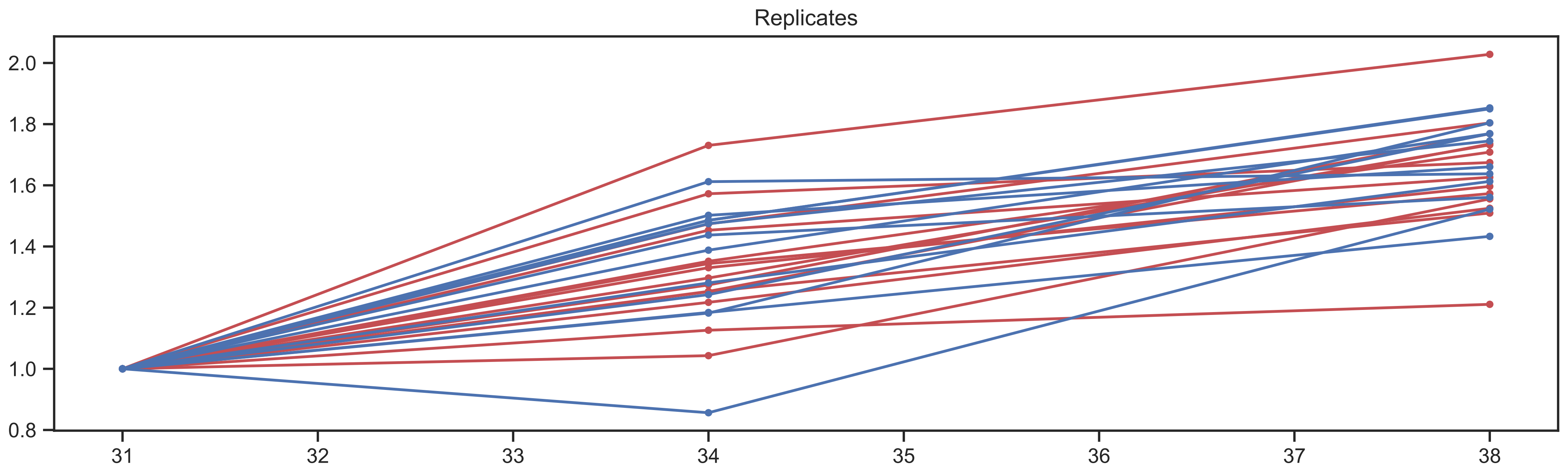




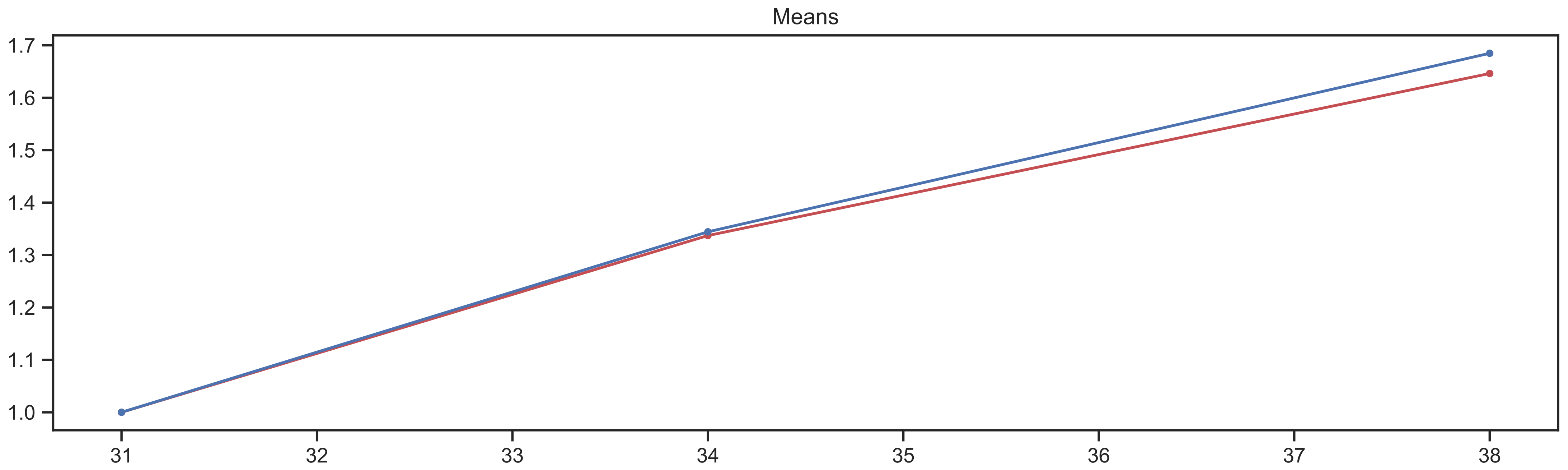
mRECIST: (None,None,None,None
kl: None
response_angle_rel: nan
response_angle_rel_control: nan
auc_norm: None
auc_control_norm: None
tgi: None
red = treatment, blue=control

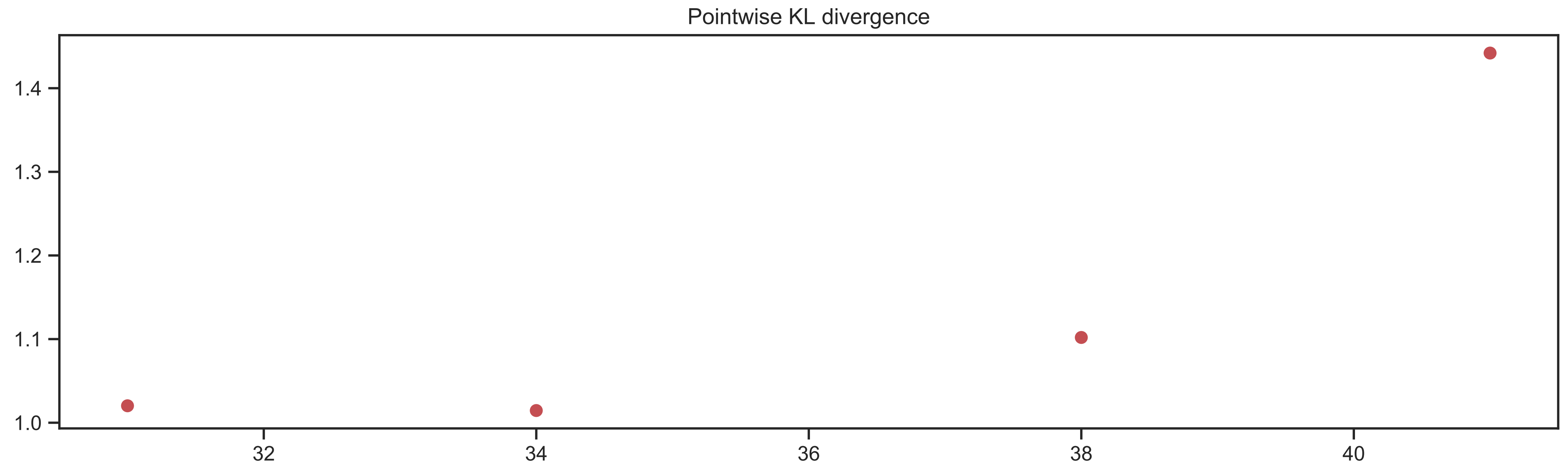


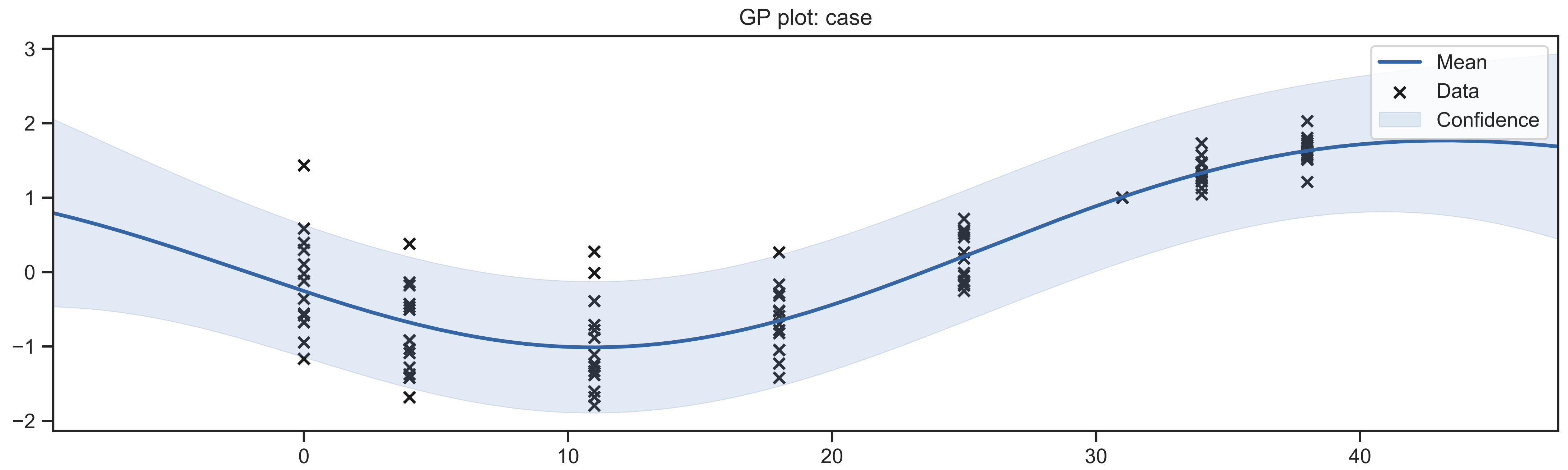
P7*C1

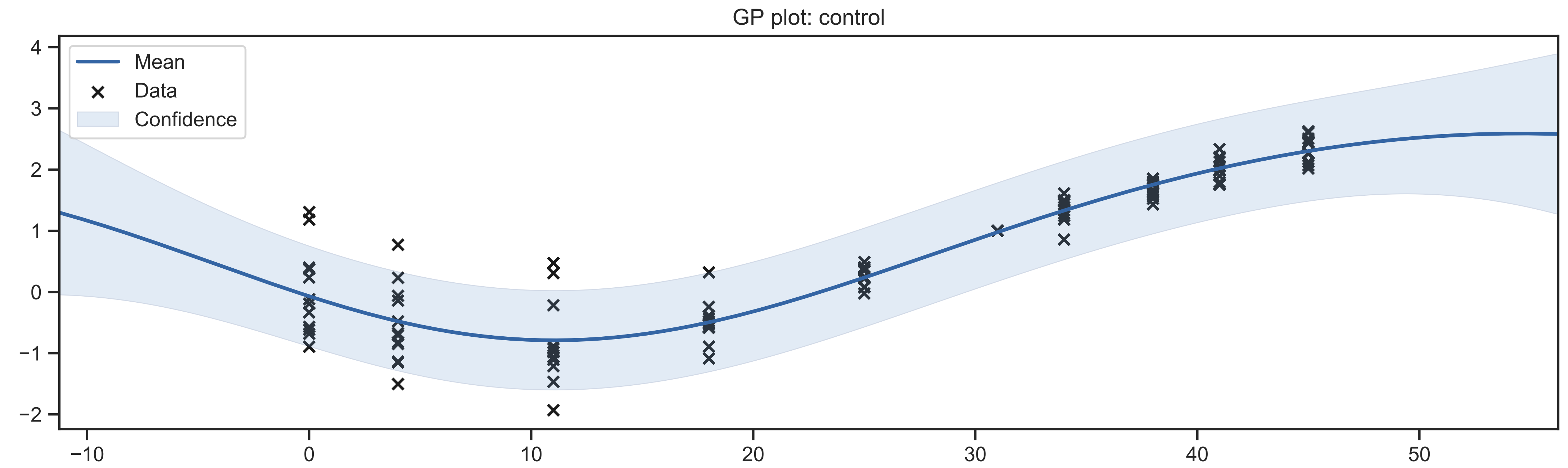


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

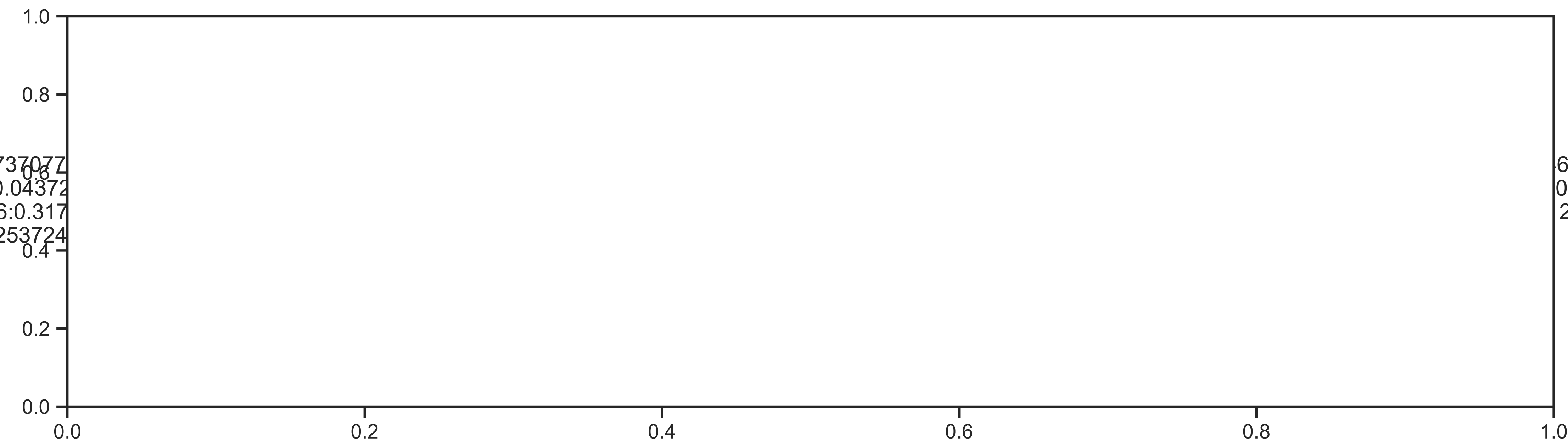




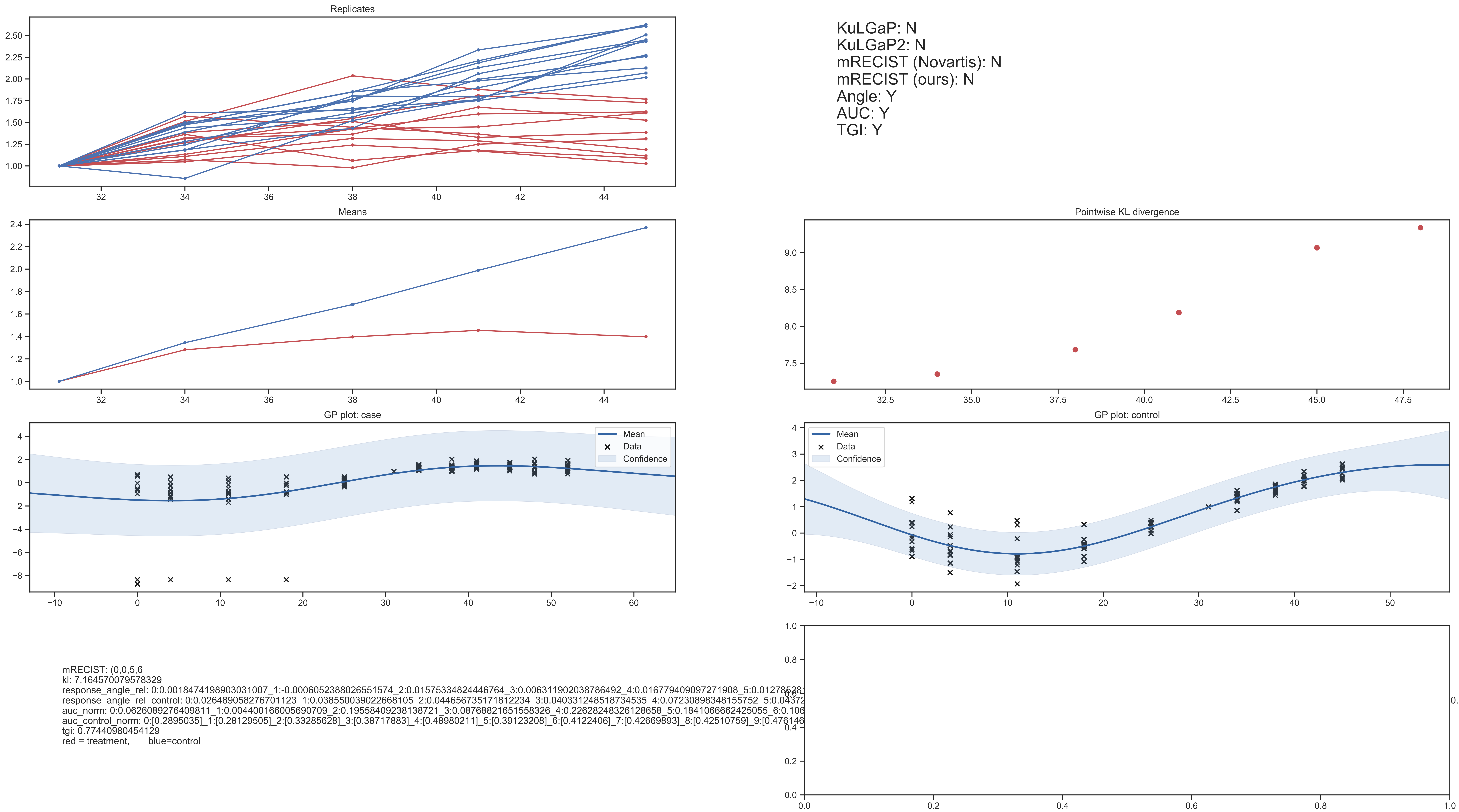




mRECIST: (0,1,2,11
kl: 0.10168894134629115
response_angle_rel: 0:0.031239785502563122_1:0.052068014335761234_2:0.04390570166473101_3:0.020494990078215626_4:0.01419255990172982_5:0.09249173707 68182241972545_12:0.022845953147852888
response_angle_rel_control: 0:0.026489058276701123_1:0.038550039022668105_2:0.044656735171812234_3:0.040331248518734535_4:0.07230898348155752_5:0.04372 0.040865613749991175
auc_norm: 0:0.06317645190490354_1:0.17189072807567063_2:0.20642874142628792_3:0.20776753287727706_4:0.1493481650522469_5:0.14243364773858516_6:0.317 2:0.2149950155642381_13:0.1766453447
auc_control_norm: 0:[0.17660245]_1:[0.2162367]_2:[0.25294097]_3:[0.17662754]_4:[0.22578897]_5:[0.21041735]_6:[0.2124515]_7:[0.20692007]_8:[0.12362245]_9:[0.253724
tgi: 0.08904979185547623
red = treatment,   blue=control



P7*C2

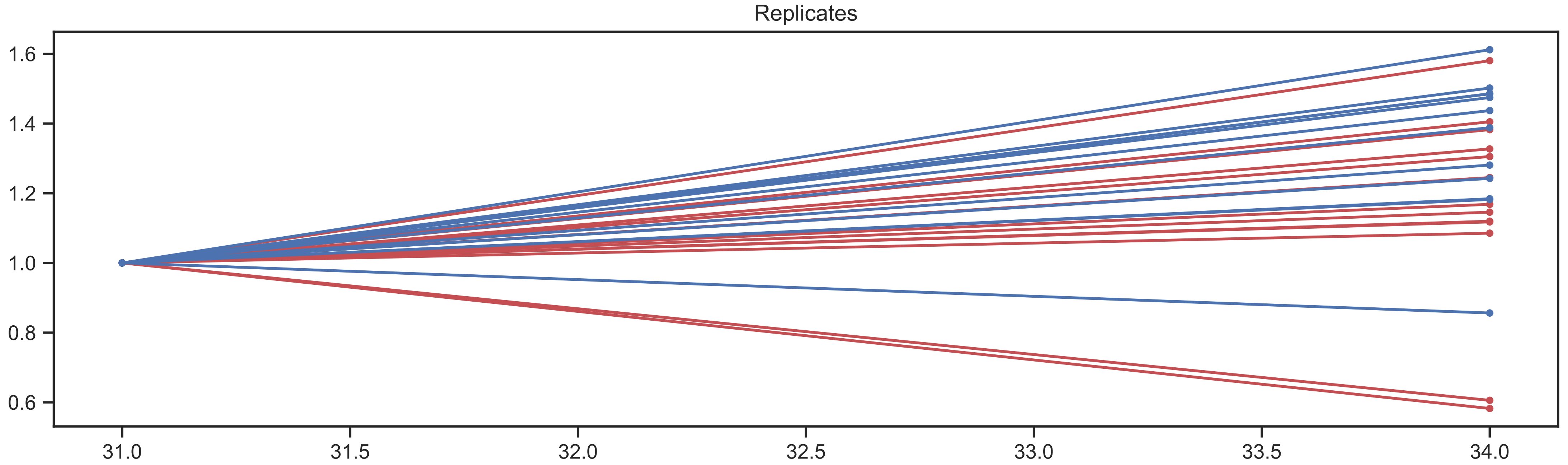


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

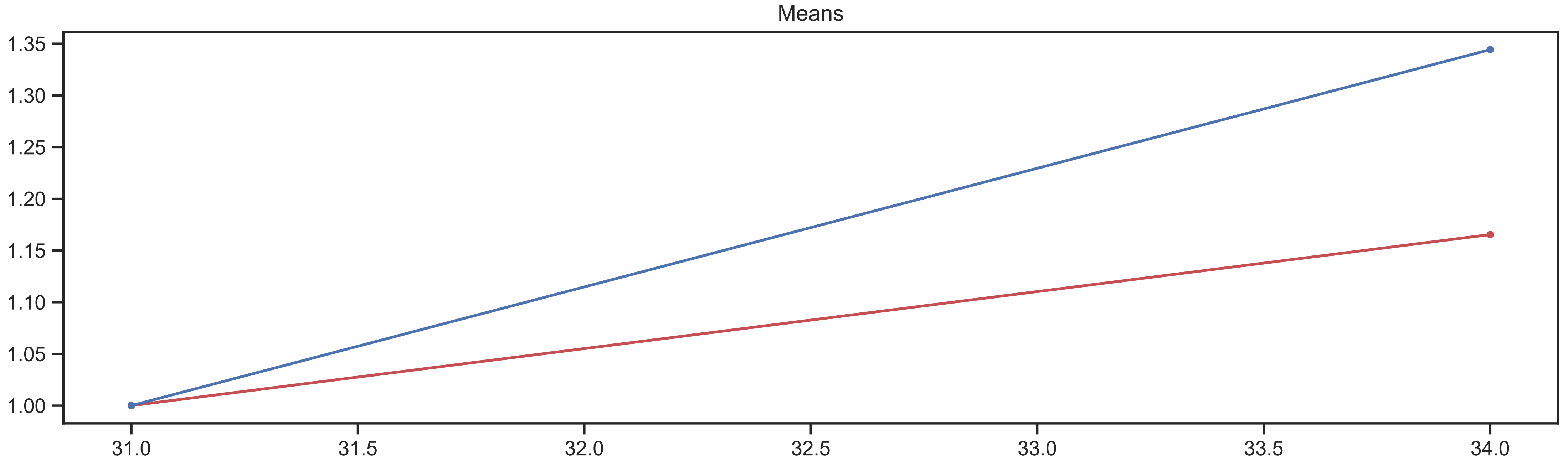
mRECIST: (0,0,5,6
kl: 7.164570079578329
response_angle_rel: 0:0.0018474198903031007_1:-0.0006052388026551574_2:0.01575334824446764_3:0.006311902038786492_4:0.016779409097271908_5:0.0127852
response_angle_rel_control: 0:0.026489058276701123_1:0.038550039022668105_2:0.044656735171812234_3:0.040331248518734535_4:0.07230898348155752_5:0.04372
auc_norm: 0:0.0626089276409811_1:0.004400166005690709_2:0.19558409238138721_3:0.08768821651558326_4:0.22628248326128658_5:0.1841066662425055_6:0.106
auc_control_norm: 0:[0.2895035]_1:[0.28129505]_2:[0.33285628]_3:[0.38717883]_4:[0.48980211]_5:[0.39123208]_6:[0.4122406]_7:[0.42669893]_8:[0.42510759]_9:[0.476146
tgi: 0.77440980454129
red = treatment,   blue=control

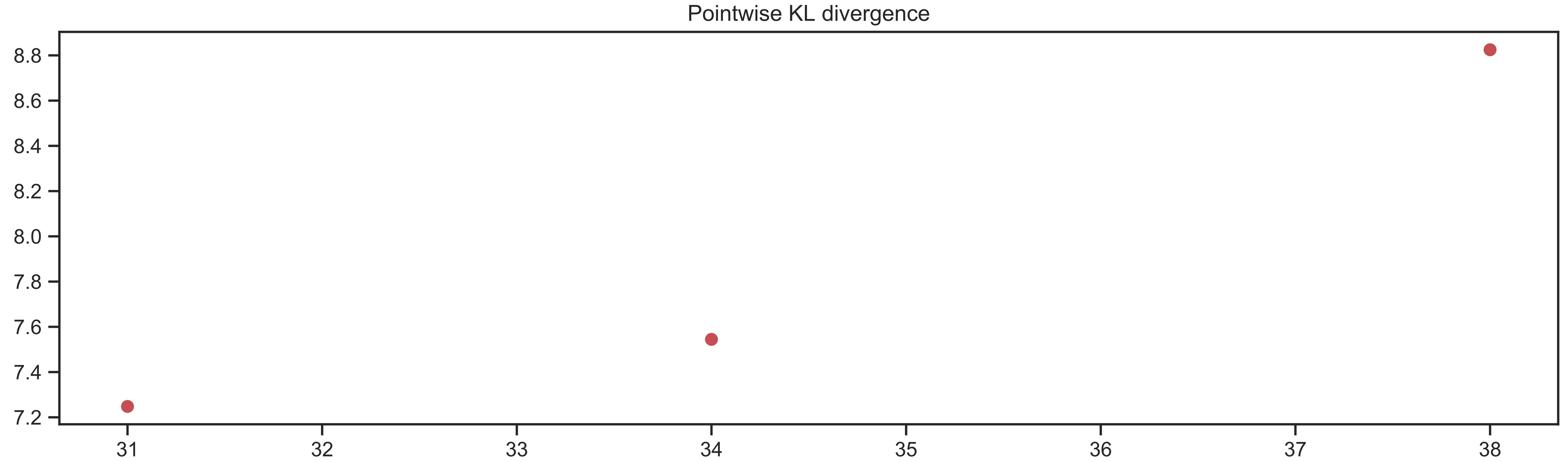
0.040865613749991175

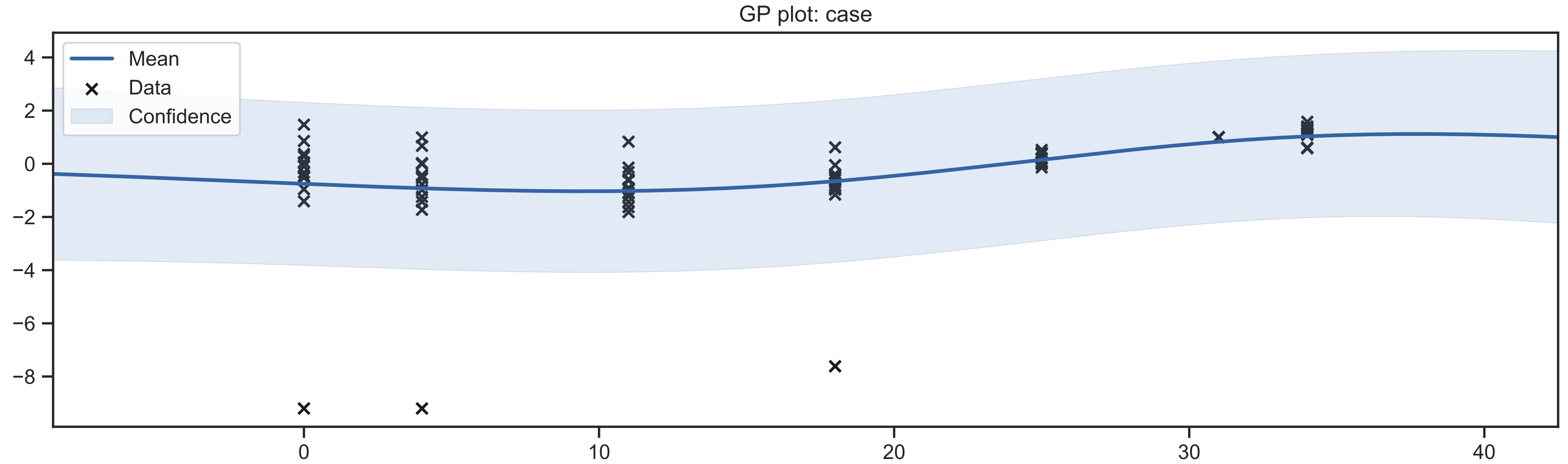
P7*C3

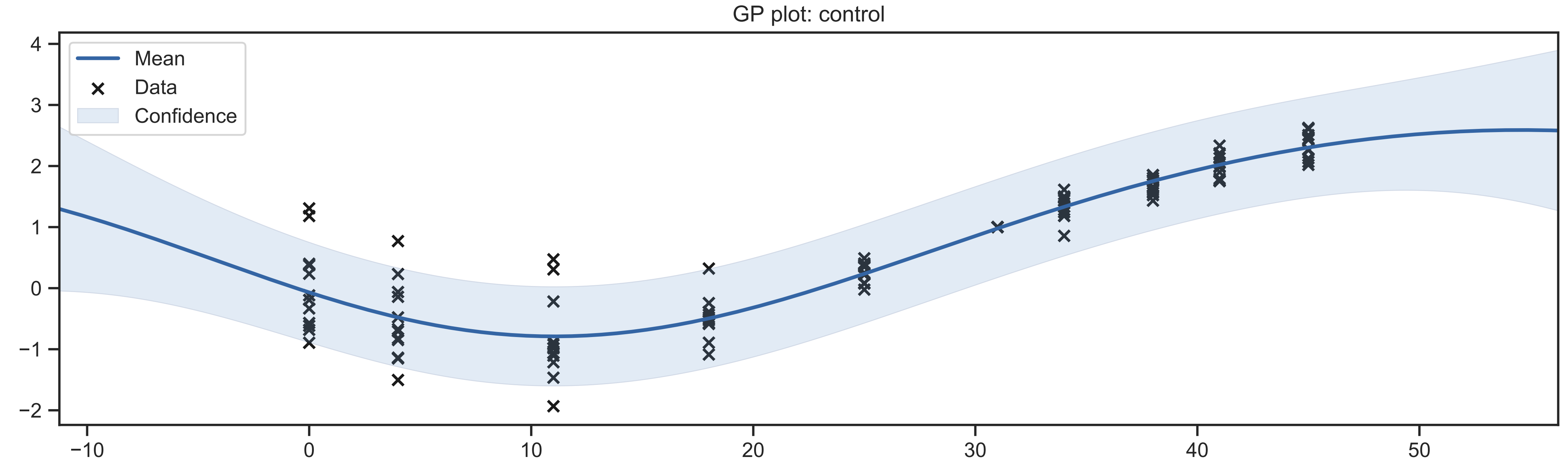


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

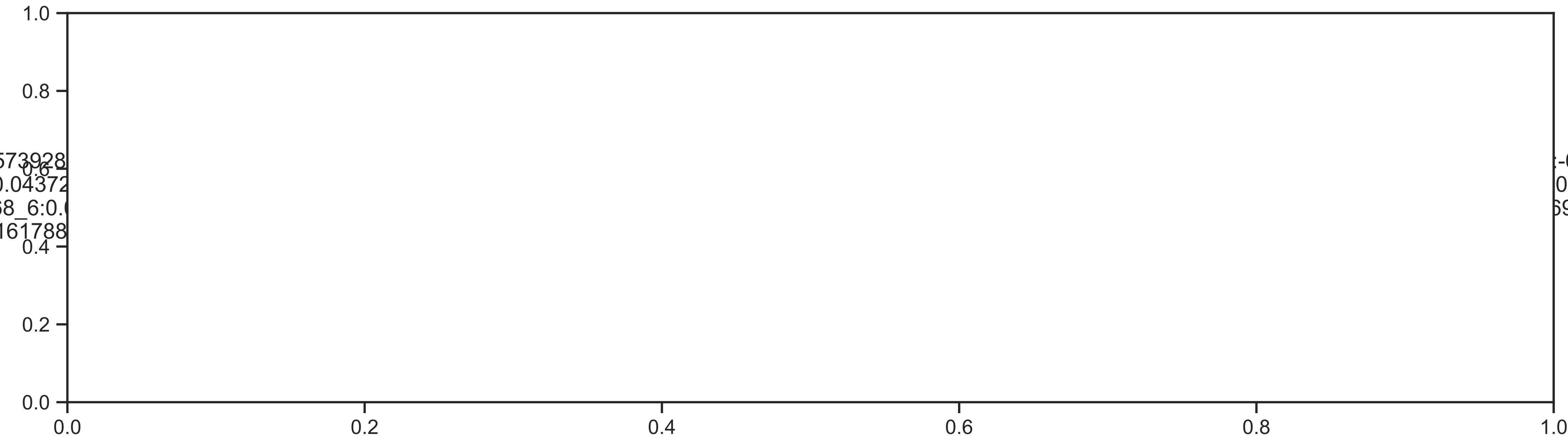




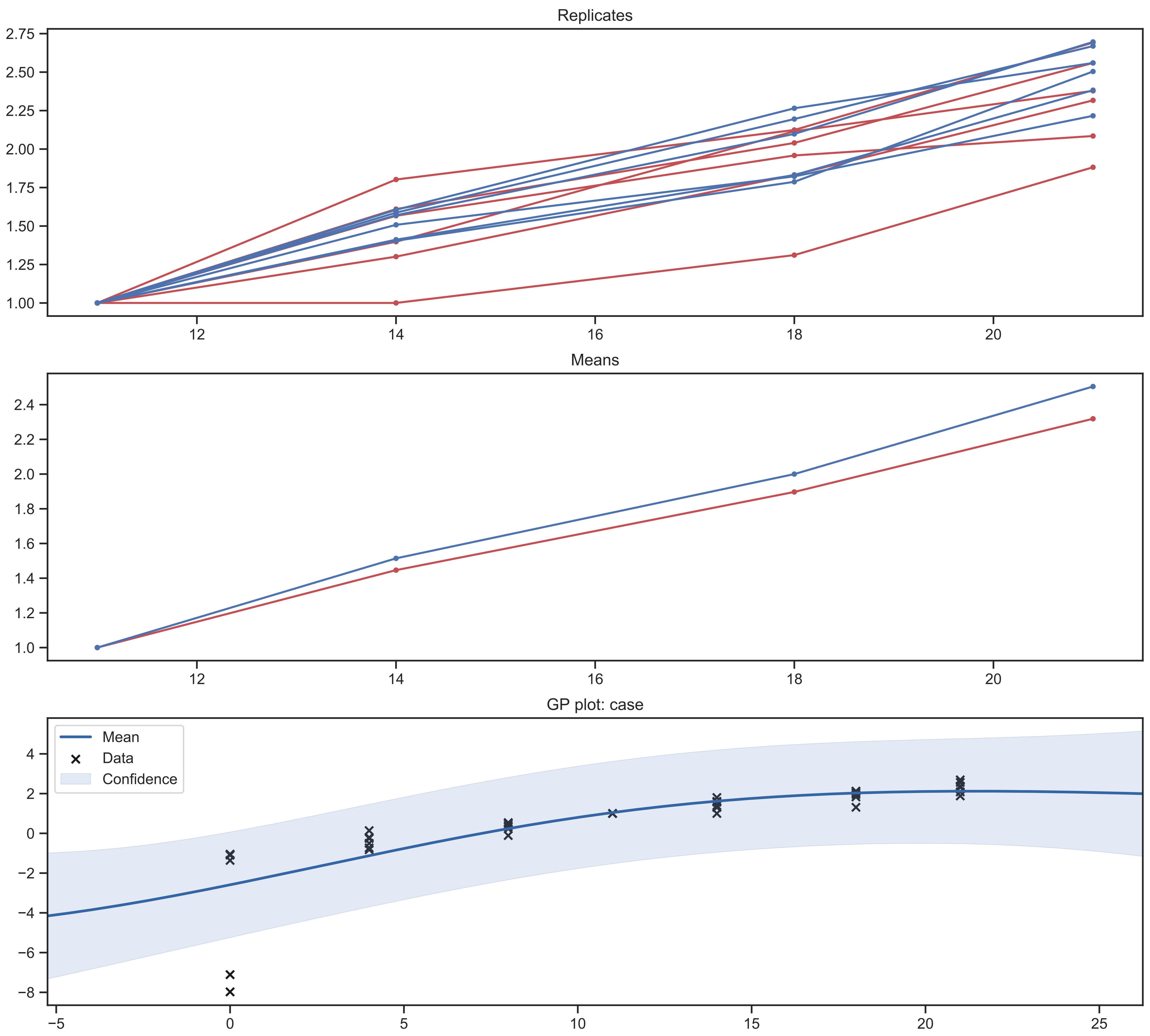




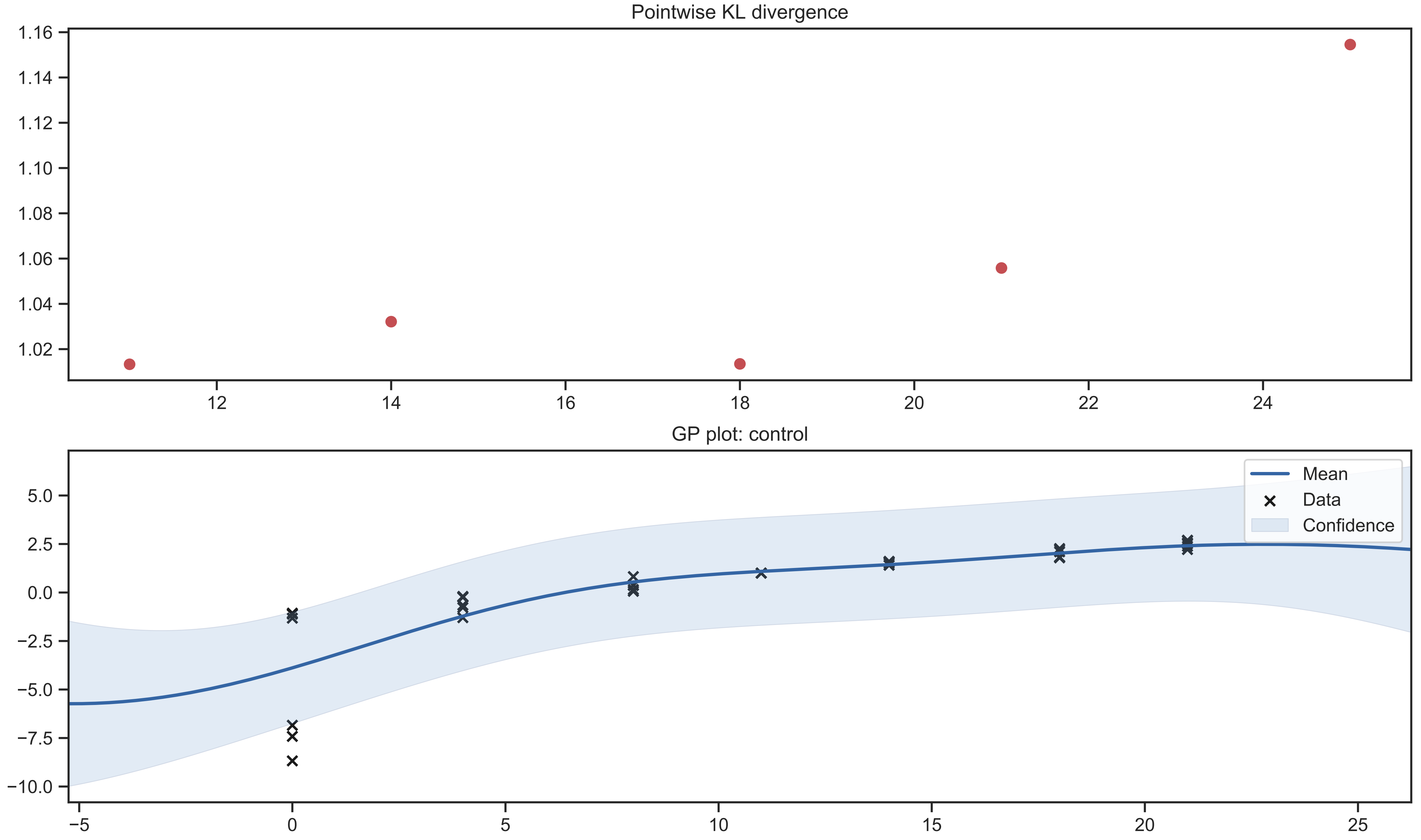
mRECIST: (1,1,4,8
kl: 6.851641262762218
response_angle_rel: 0:0.014180137534950073_1:0.017129543821577l3_2:0.0018849260590149892_3:0.030498242075346522_4:0.0211301013885061 2_5:0.00320573928 -0.007489571910795223_12:0.003614220
response_angle_rel_control: 0:0.026489058276701123_1:0.038550039022668105_2:0.044656735171812234_3:0.040331248518734535_4:0.07230898348155752_5:0.04372 0.040865613749991175
auc_norm: 0:-0.13142512726737055_1:0.10175799008741378_2:0.028469405169392042_3:0.12750163054979194_4:0.13500060397230595_5:0.08146092384280168_6:0. 6904_12:0.19348370990805908_13:0.0392
auc_control_norm: 0:[0.09362155]_1:[0.06068343]_2:[0.16185838]_3:[0.14573738]_4:[0.15820795]_5:[0.20397347]_6:[0.080842]_7:[0.16729666]_8:[0.06141712]_9:[0.161788
tgi: 0.5900140233256046
red = treatment,   blue=control



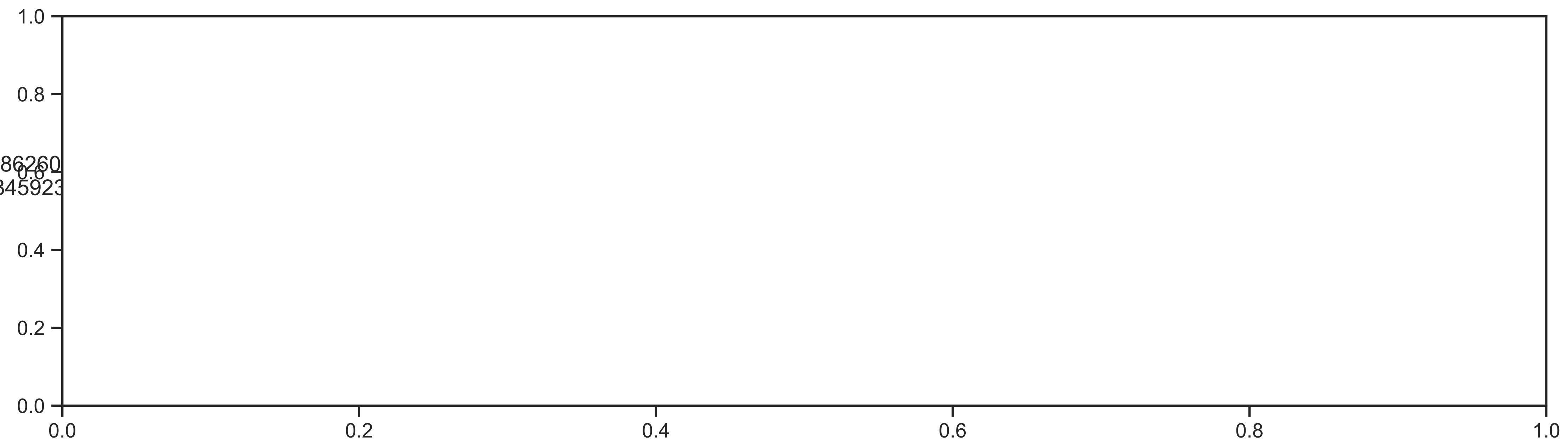
P8*C1



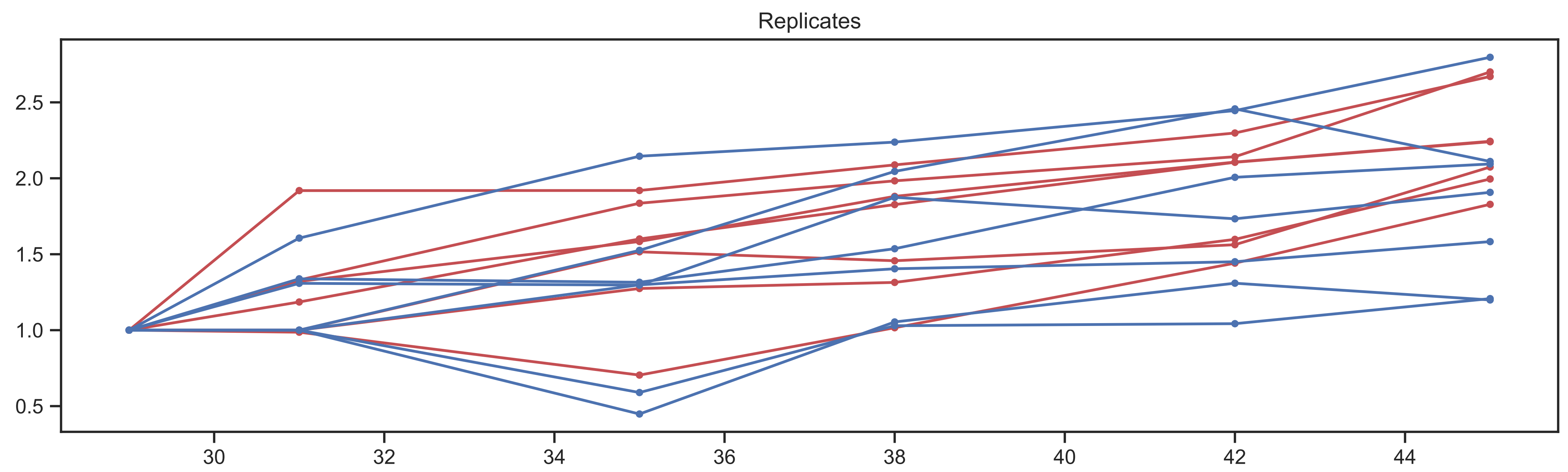
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N



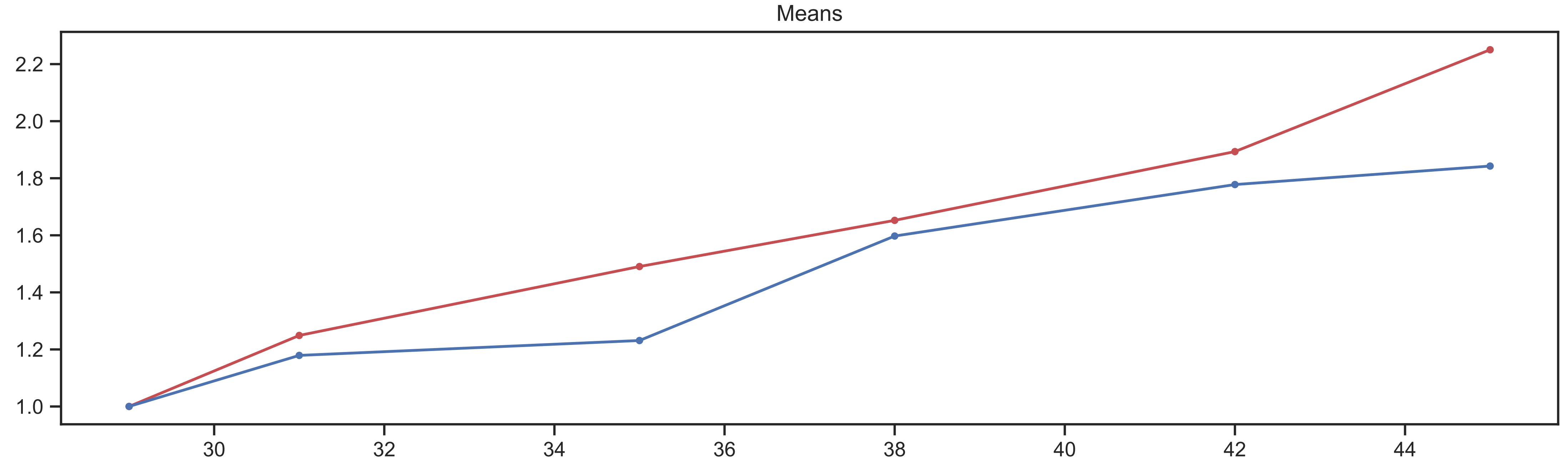
mRECIST: (0,0,1,5
kl: 0.046773648591656905
response_angle_rel: 0:0.1383179108588284_1:0.11108436614654171_2:0.17261730084910937_3:0.06790719530461563_4:0.14973095901535766_5:0.0900300624086260
response_angle_rel_control: 0:0.12899847915795973_1:0.10879768612909874_2:0.15369709860624242_3:0.19821129984504618_4:0.1627563886753273_5:0.1894845923
auc_norm: 0:0.39963606986021555_1:0.3945077753011582_2:0.5370473162479587_3:0.26794932688286915_4:0.4840654278055504_5:0.328914681617549
auc_control_norm: 0:[0.42584326]_1:[0.37915204]_2:[0.46943222]_3:[0.52134799]_4:[0.46477064]_5:[0.50561417]
tgi: 0.13967724582153085
red = treatment,   blue=control

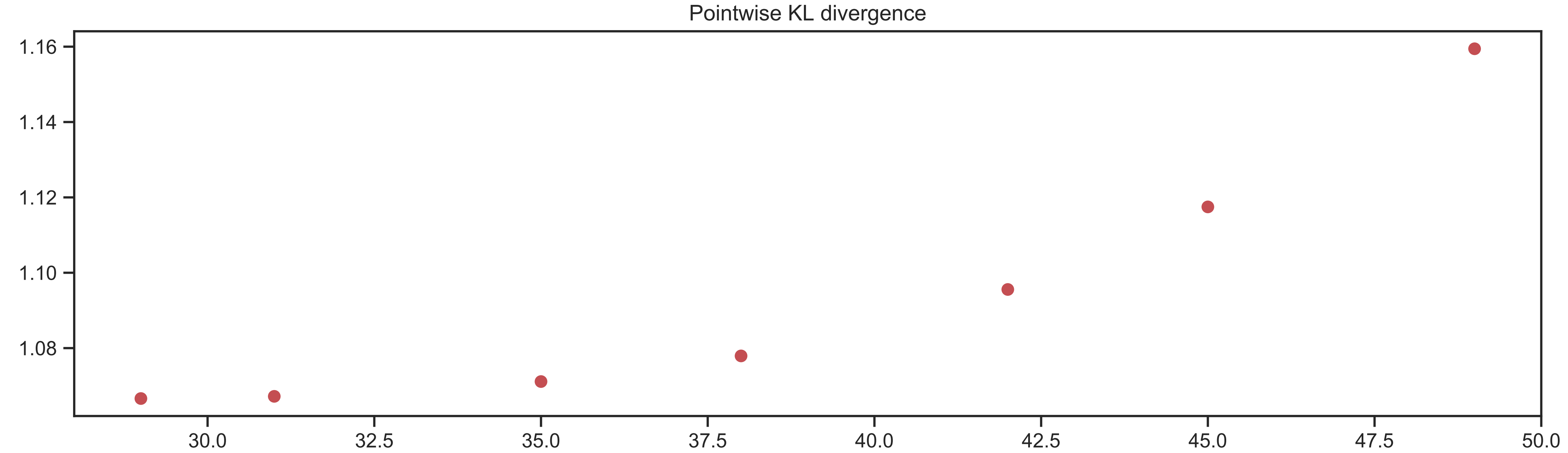


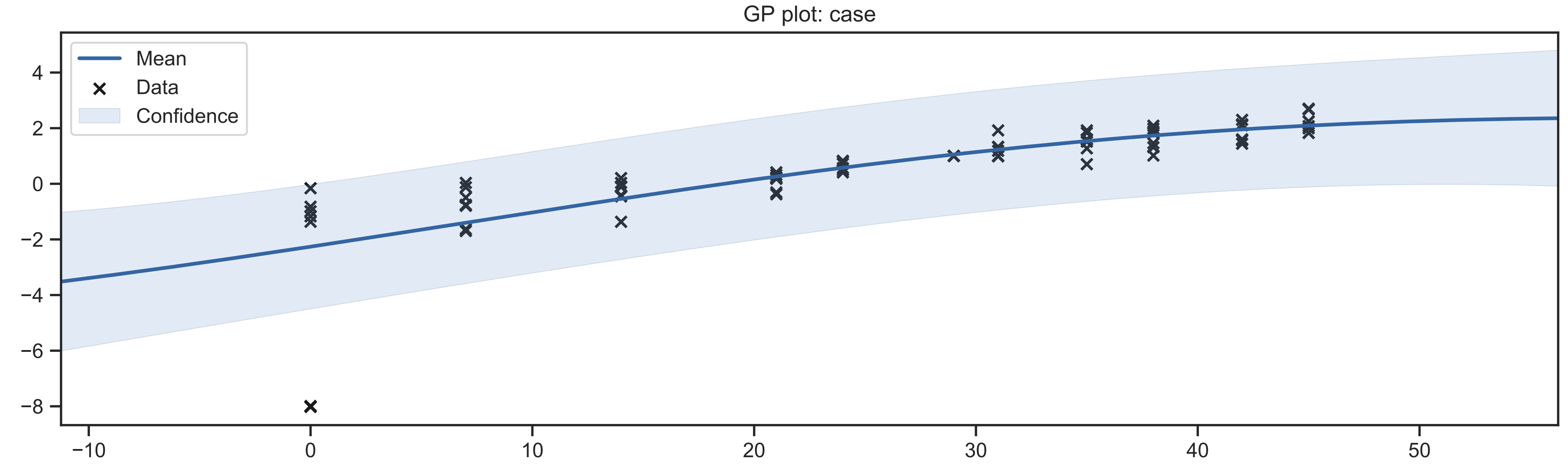
P9*C1

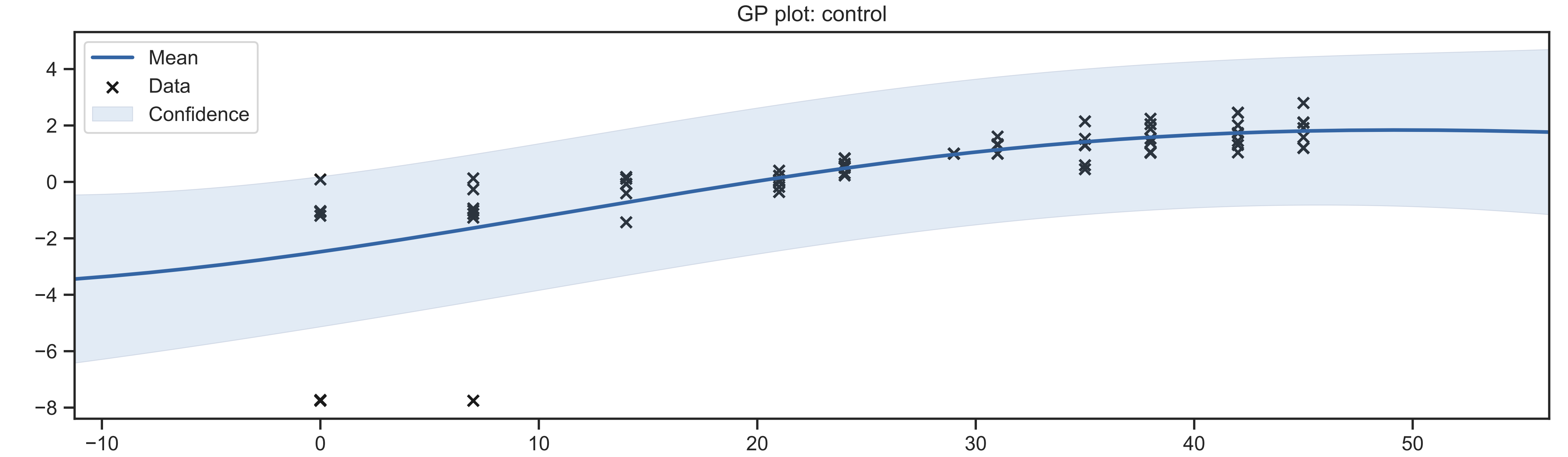


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

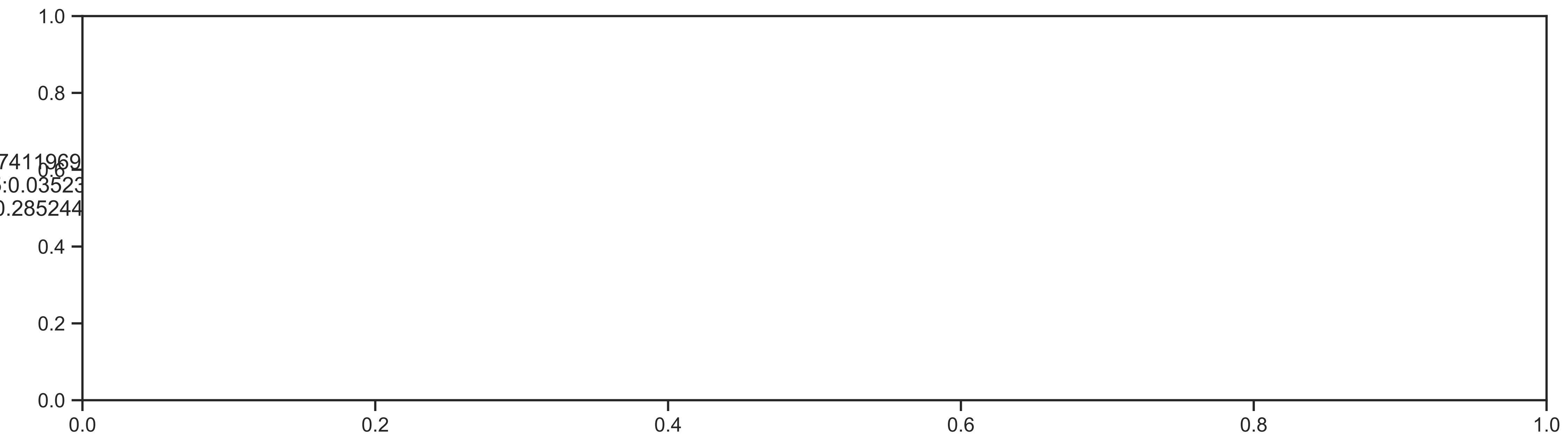




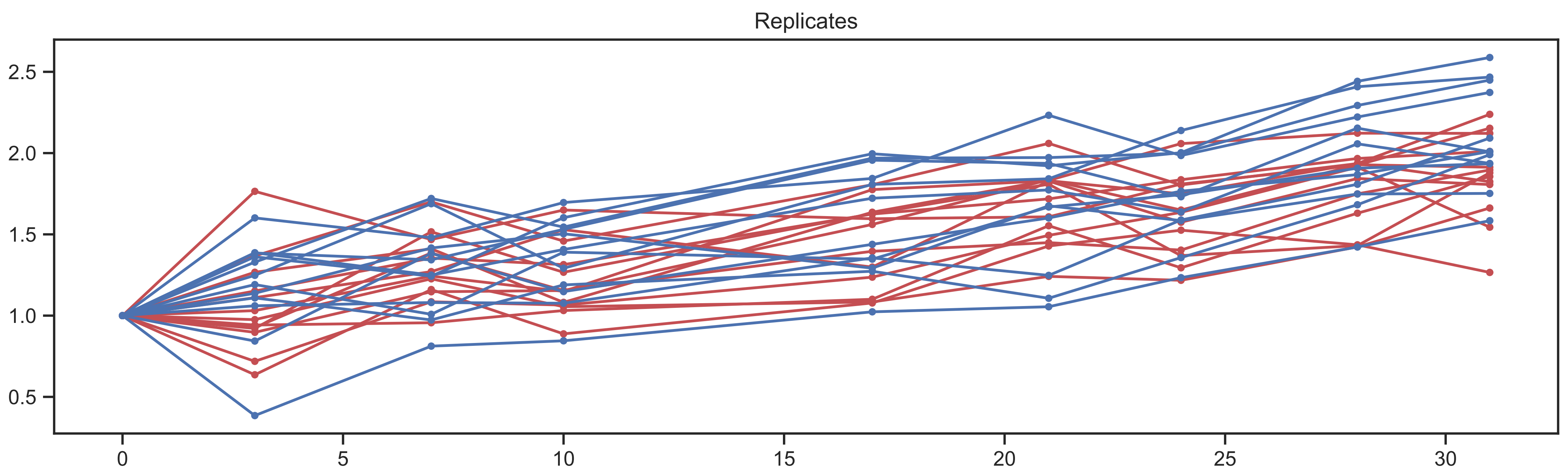




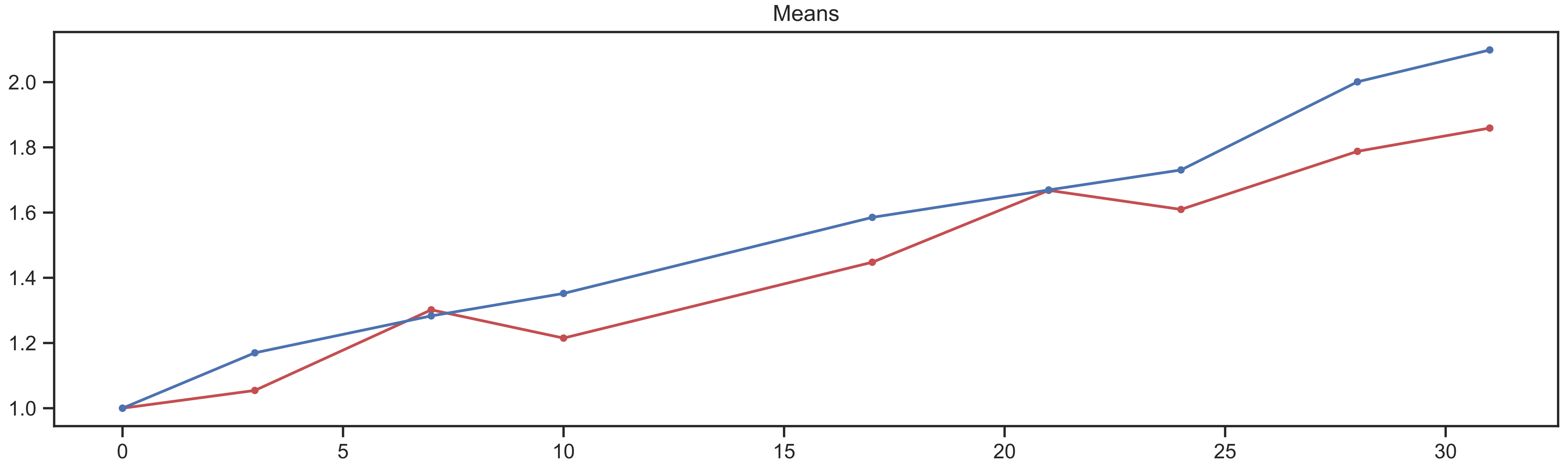
mRECIST: (0,0,1,6
kl: 0.0920571933859032
response_angle_rel: 0:0.059447087429996215_1:0.04372942837491787_2:0.04236289188741593_3:0.010317826246395899_4:0.0594249660612169 1_5:0.0295507411969
response_angle_rel_control: 0:0.07319093625351152_1:0.05002030813438088_2:0.0026311332110456193_3:0.005535864859047893_4:0.015478902858176085_5:0.03523
auc_norm: 0:0.5663514770116009_1:0.38656298993215255_2:0.42732451013139394_3:0.2619112192236904_4:0.6922851102443462_5:0.3062461320418124_6:0.285244
auc_control_norm: 0:[0.6375885]_1:[0.29212665]_2:[0.09102556]_3:[0.10230061]_4:[0.16556408]_5:[0.38373544]_6:[0.36653128]
tgi: -0.13854973191981768
red = treatment,	blue=control

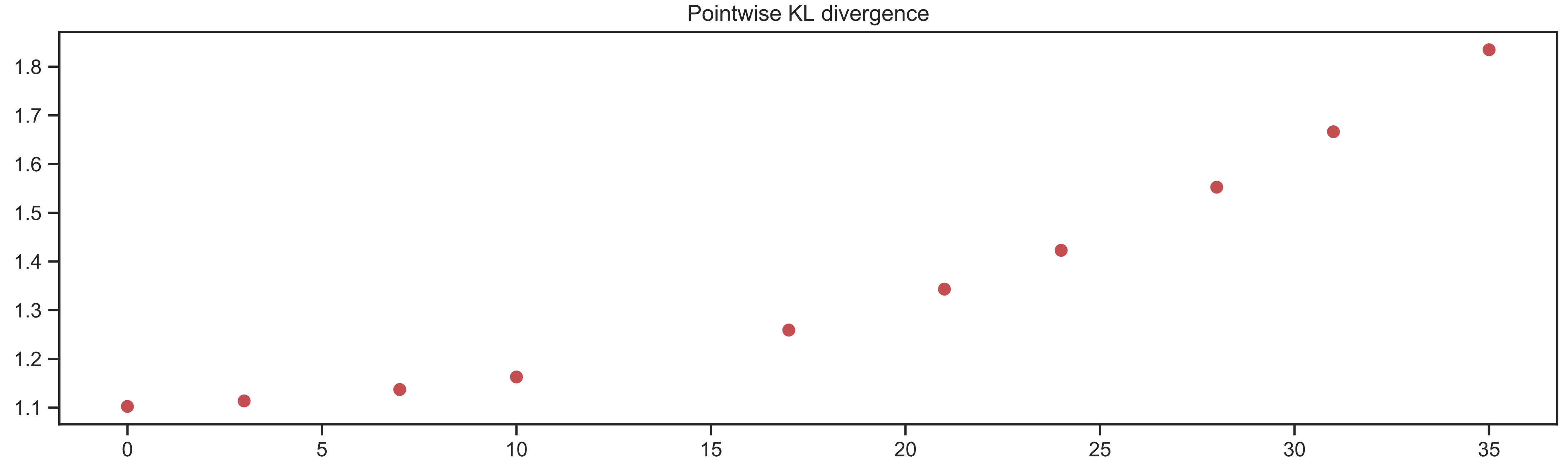


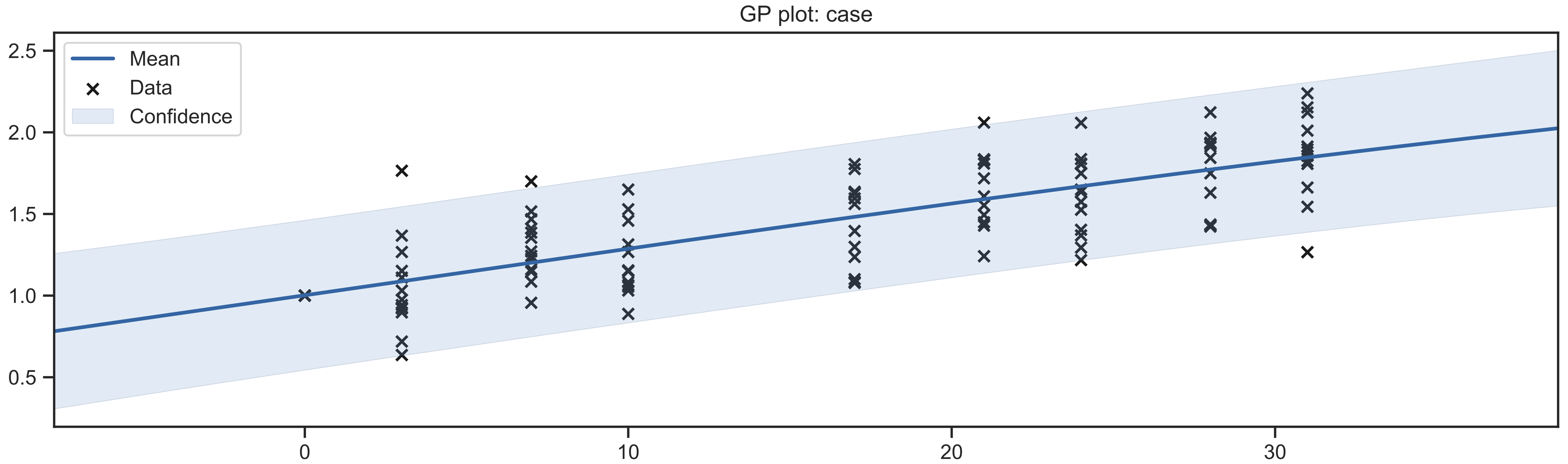
P10*C1

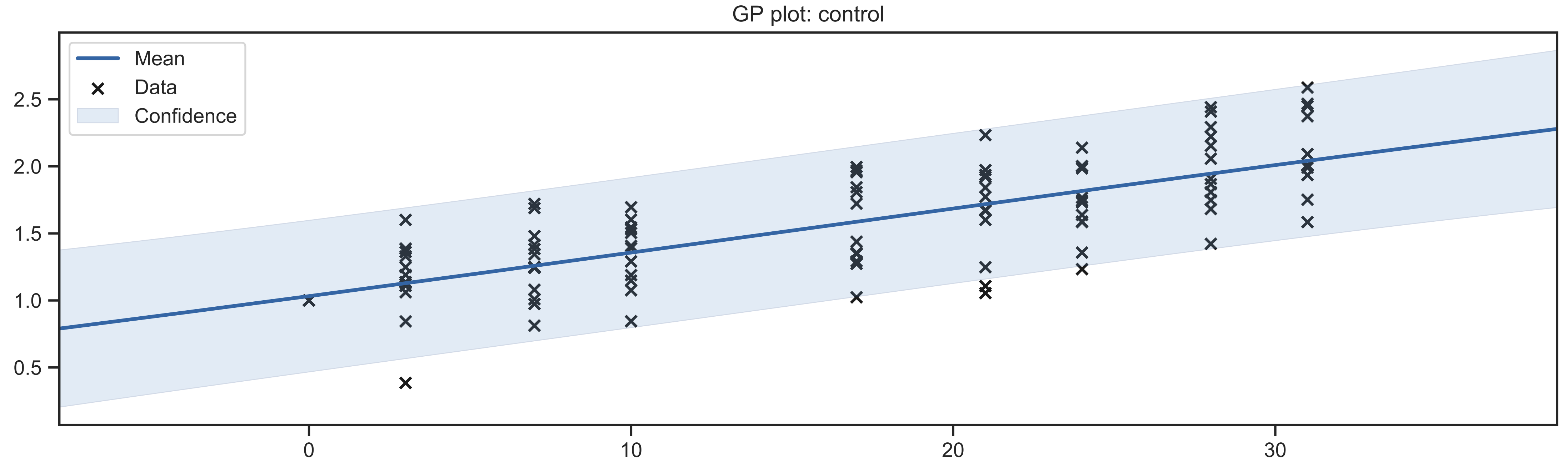


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

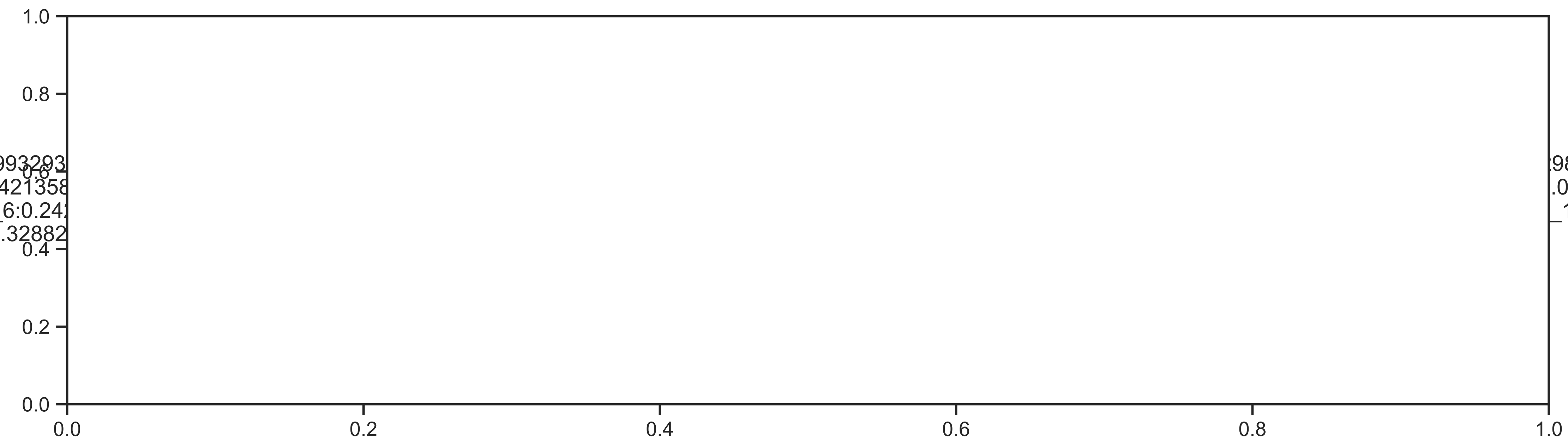




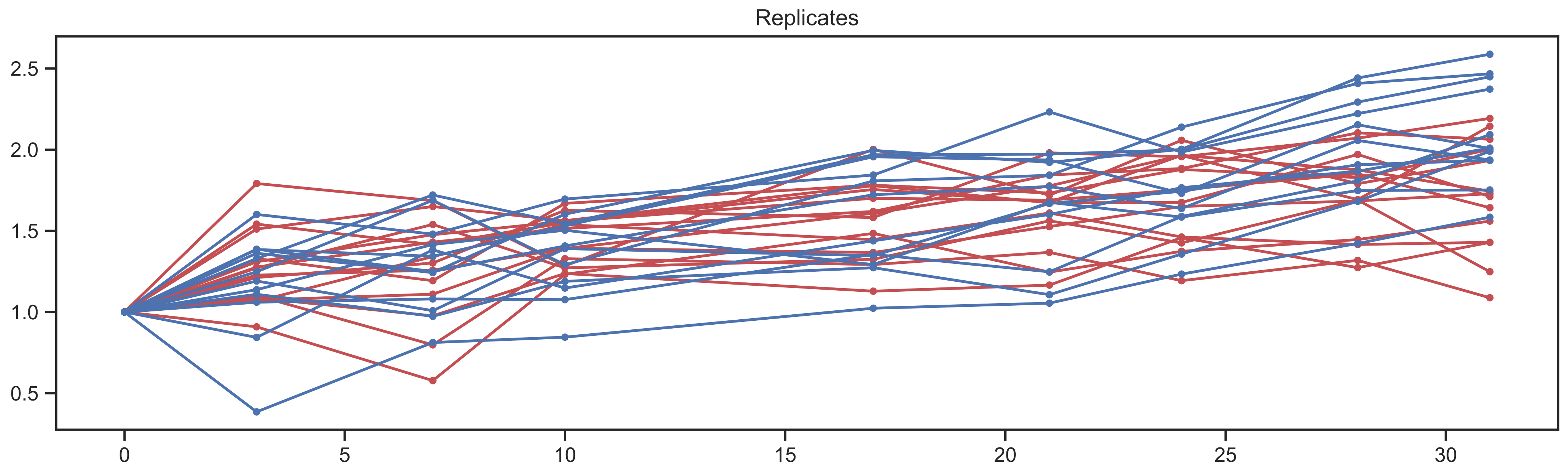




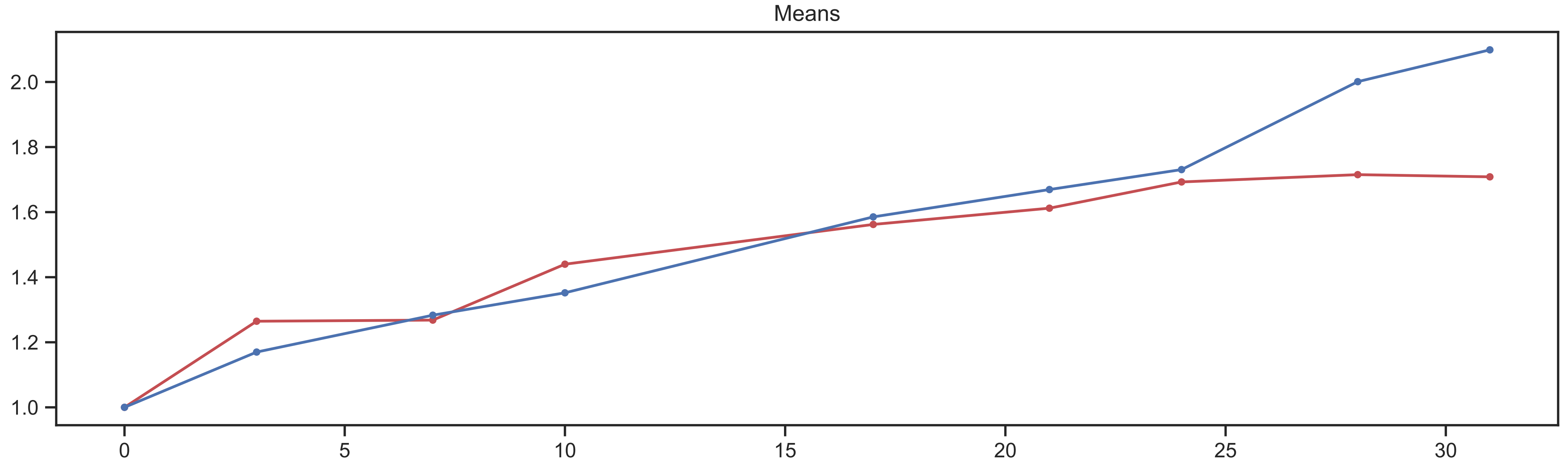
```
mRECIST: (0,0,7,6
kl: 0.34458700450963564
response_angle_rel: 0:0.06280288845975218_1:0.03878497690949312_2:0.016372694400455436_3:0.06500844258101017_4:0.032567425508473816_5:0.0137773993293 298705503282_12:0.04650363178095952
response_angle_rel_control: 0:0.040908291266941614_1:0.049817475080347486_2:0.08552242341210503_3:0.0890183175704197_4:0.05366257166349159_5:0.0642135 .037552551230597954
auc_norm: 0:0.40847985951396976_1:0.2327952181003555_2:0.1639466644590241_3:0.28693730699190106_4:0.07347643583741412_5:-0.013015038913936405_6:0.24
auc_control_norm: 0:[0.22212506]_1:[0.29463192]_2:[0.38744275]_3:[0.34476664]_4:[0.22431015]_5:[0.22468203]_6:[0.21423772]_7:[0.1068031]_8:[0.29992996]_9:[0.32882 _12:0.11748473905211138
tgi: 0.2526629916144868
red = treatment,       blue=control
```

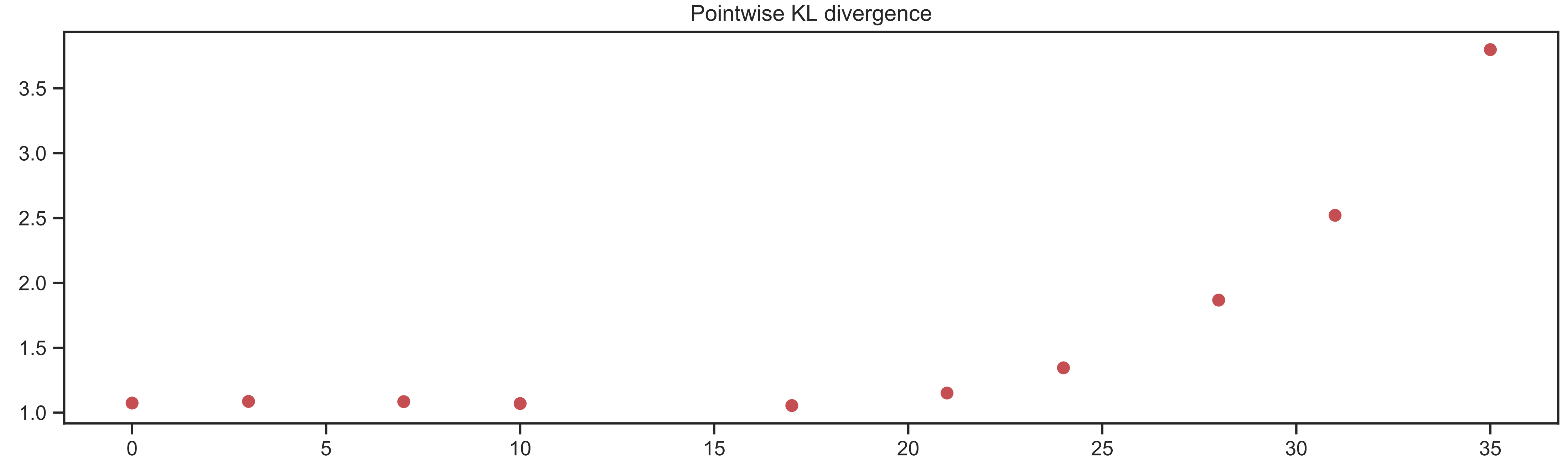


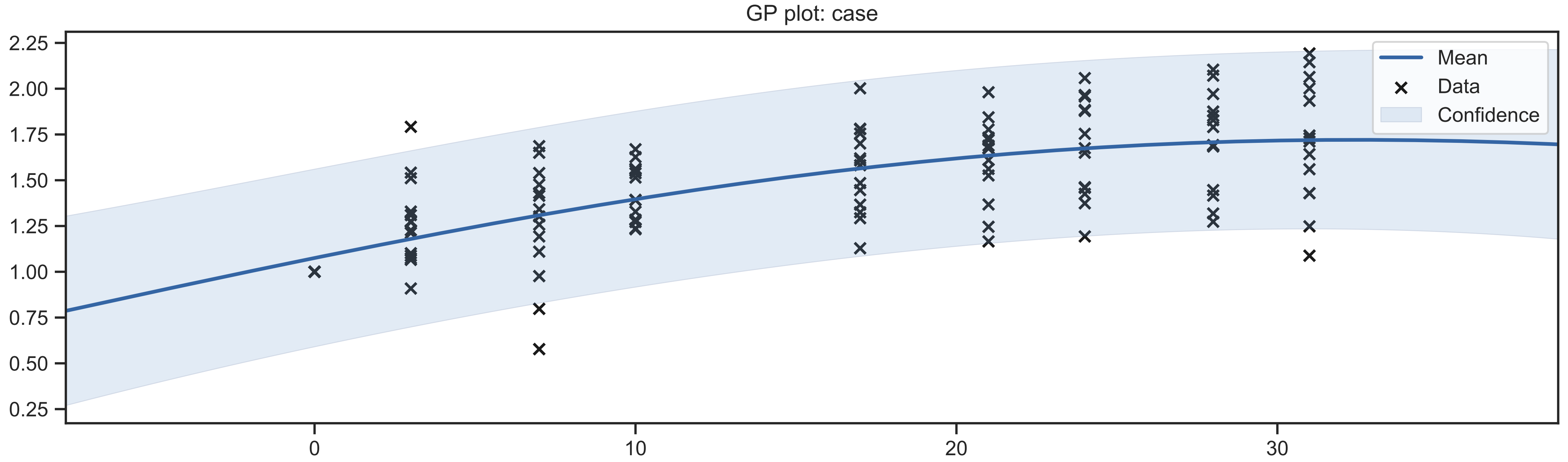
P10*C2

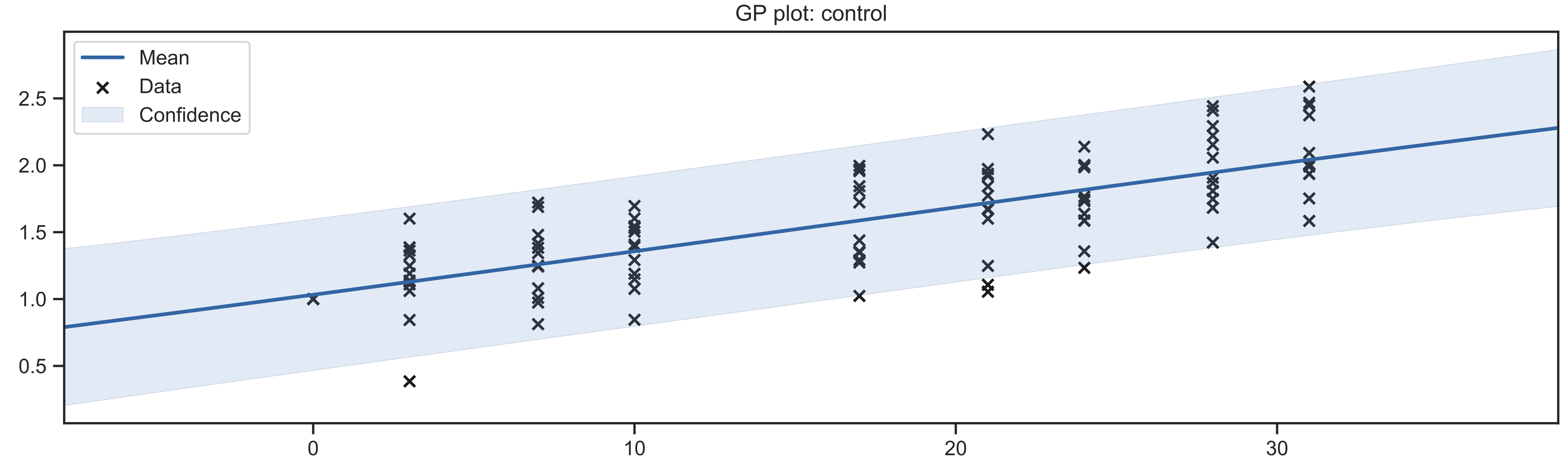


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N



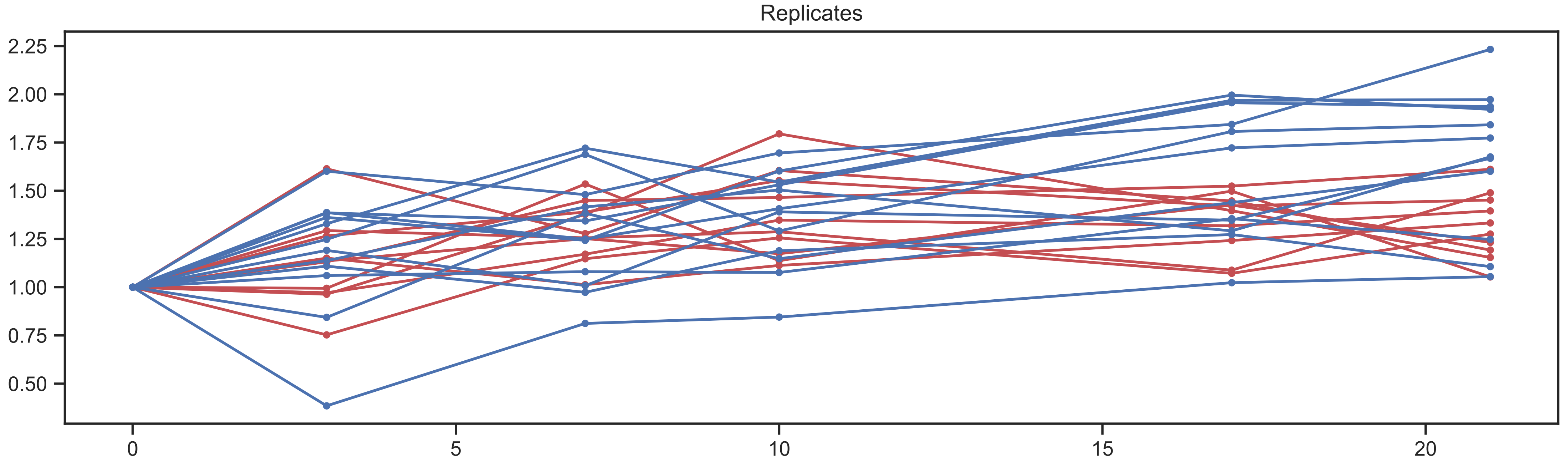




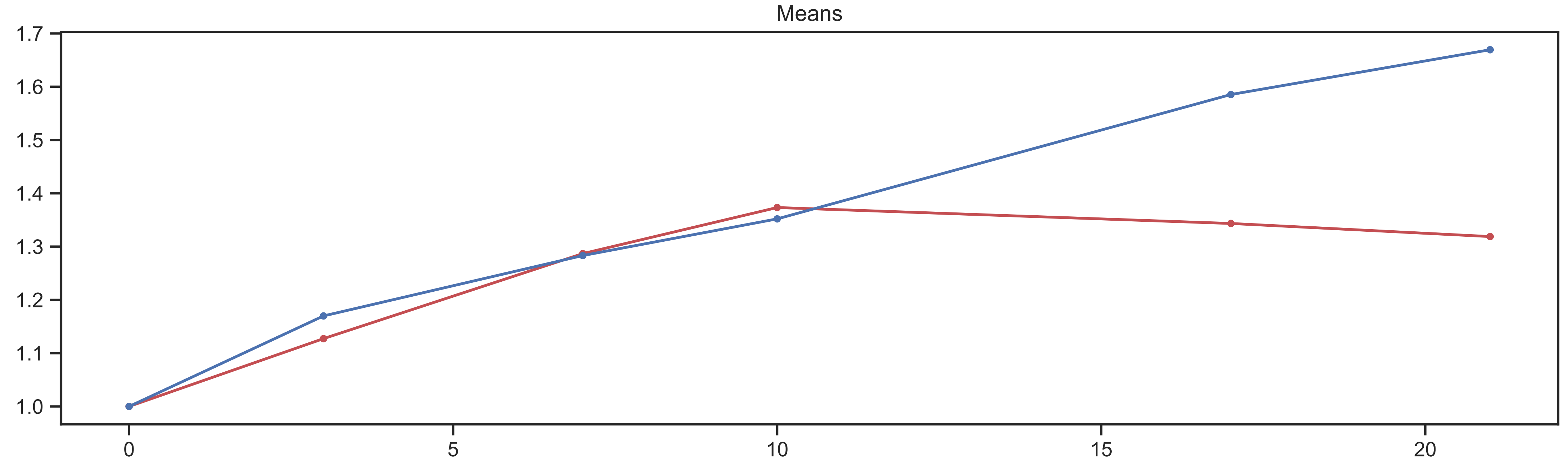


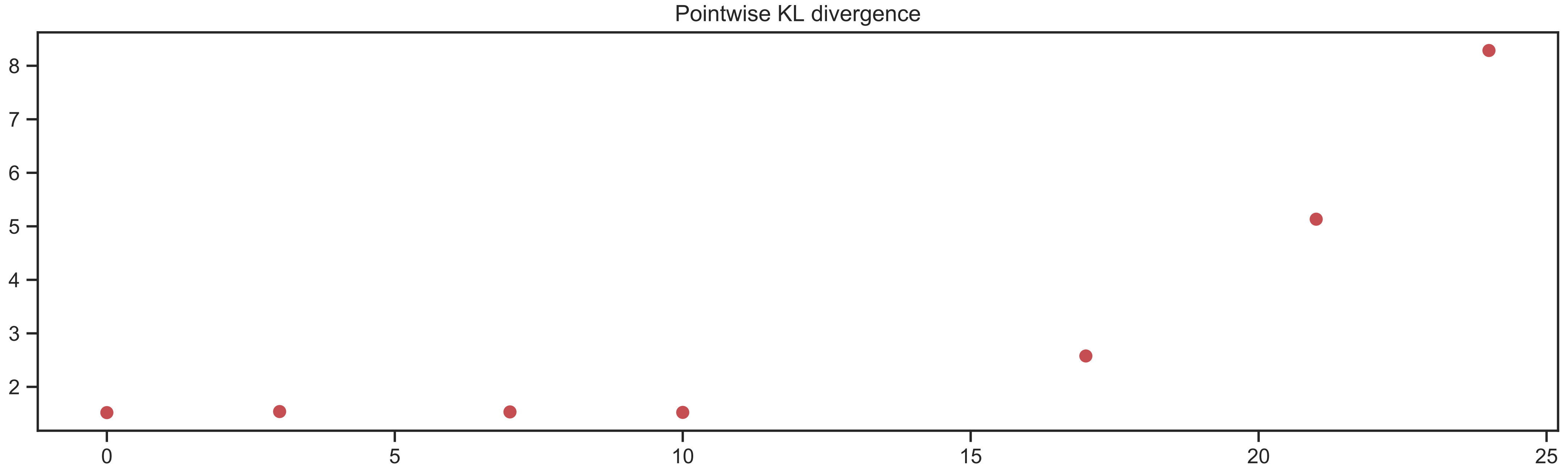
mRECIST: (0,0,6,8
kl: 0.48572712502888393
response_angle_rel: 0:0.020191385828923332_1:0.054453635752349495_2:0.05795646714255298_3:0.044533677117108816_4:0.03927215072784387_5:0.065613403148 722053917031_12:0.019822785321376726
response_angle_rel_control: 0:0.040908291266941614_1:0.049817475080347486_2:0.08552242341210503_3:0.0890183175704197_4:0.05366257166349159_5:0.0642135 .037552551230597954
auc_norm: 0:0.008499975668362442_1:0.3320660426741883_2:0.3461984366380598_3:0.1686107945511776_4:0.16589346830094454_5:0.3558291322205272_6:0.12781 0.18007746288493323_13:0.284799637360
auc_control_norm: 0:[0.22212506]_1:[0.29463192]_2:[0.38744275]_3:[0.34476664]_4:[0.22431015]_5:[0.22468203]_6:[0.21423772]_7:[0.1068031]_8:[0.29992996]_9:[0.32882
tgi: 0.41237609715122003
red = treatment,   blue=control

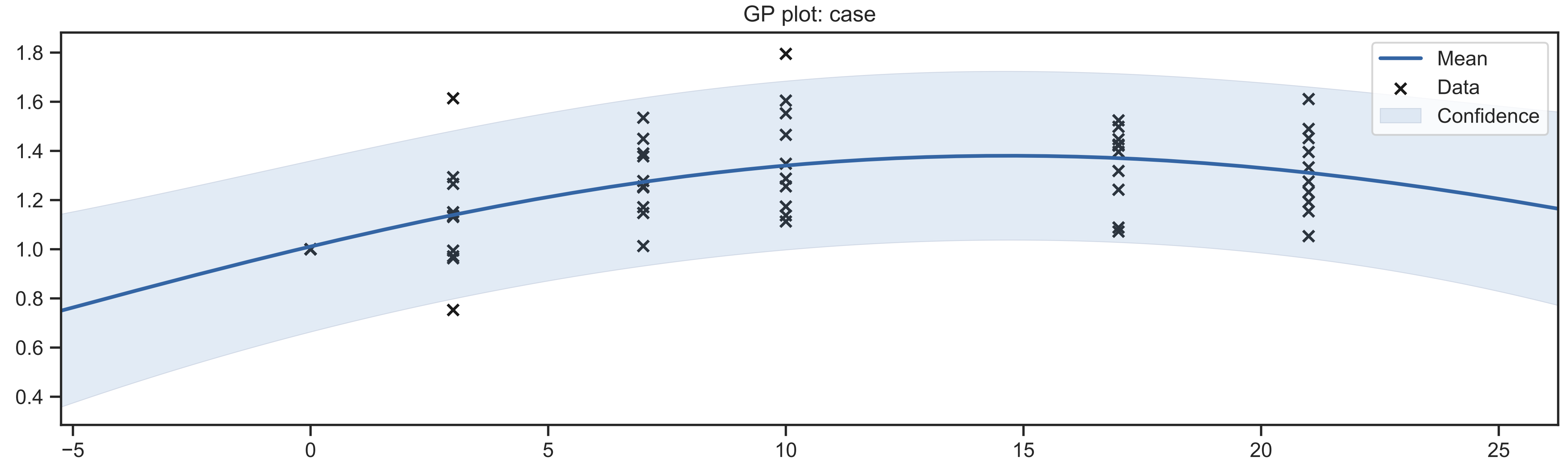
P10*C3

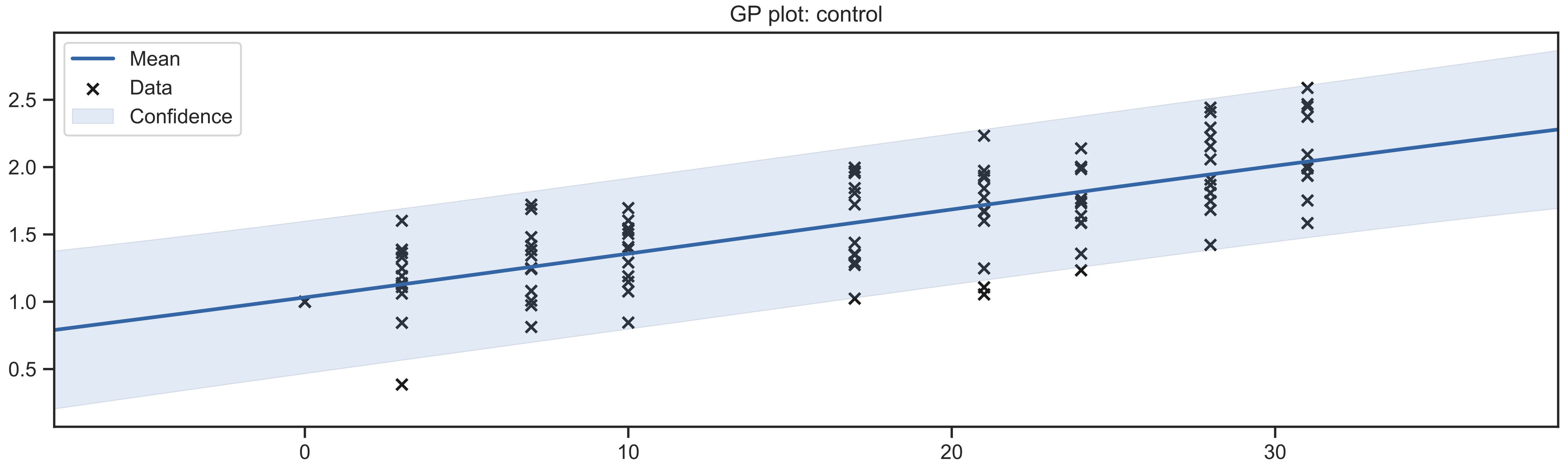

Replicates

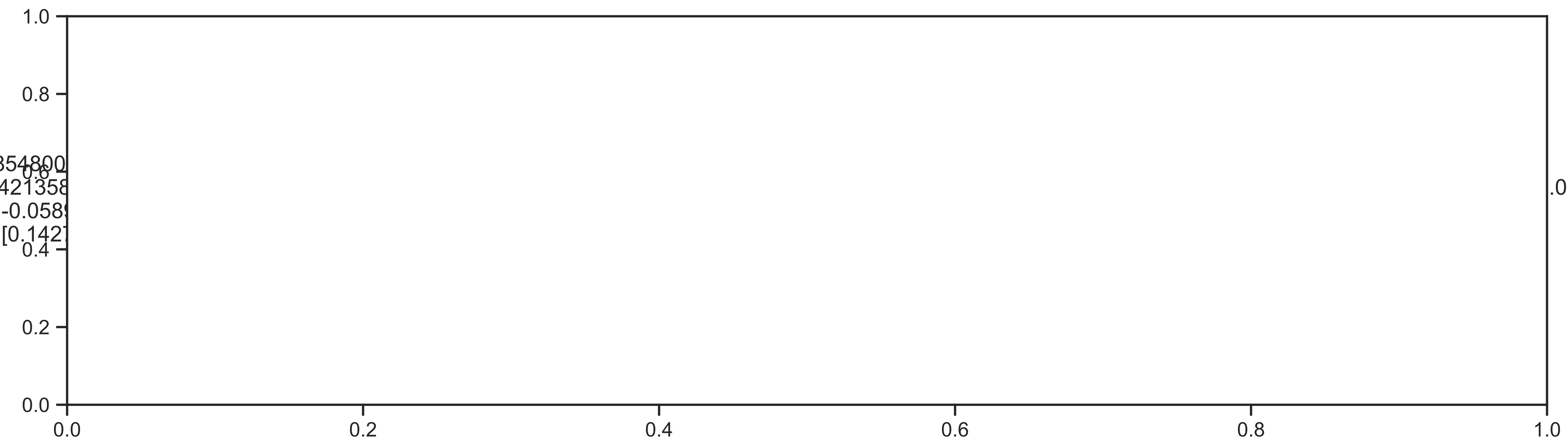
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: N
TGI: Y


Means


Pointwise KL divergence

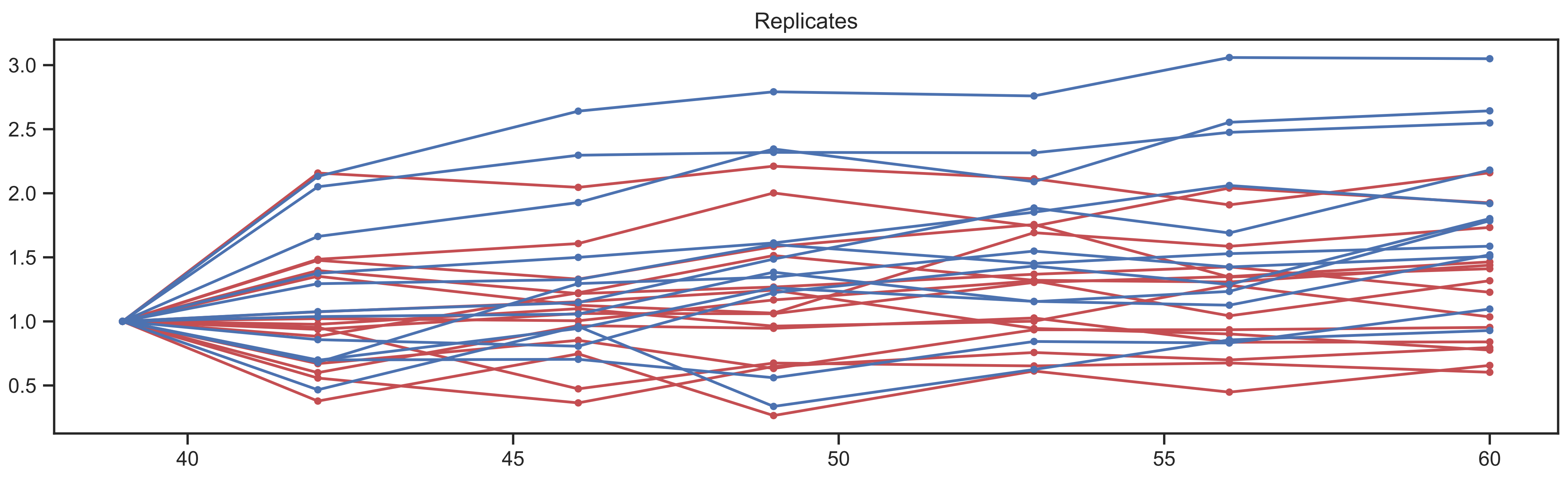

GP plot: case


GP plot: control

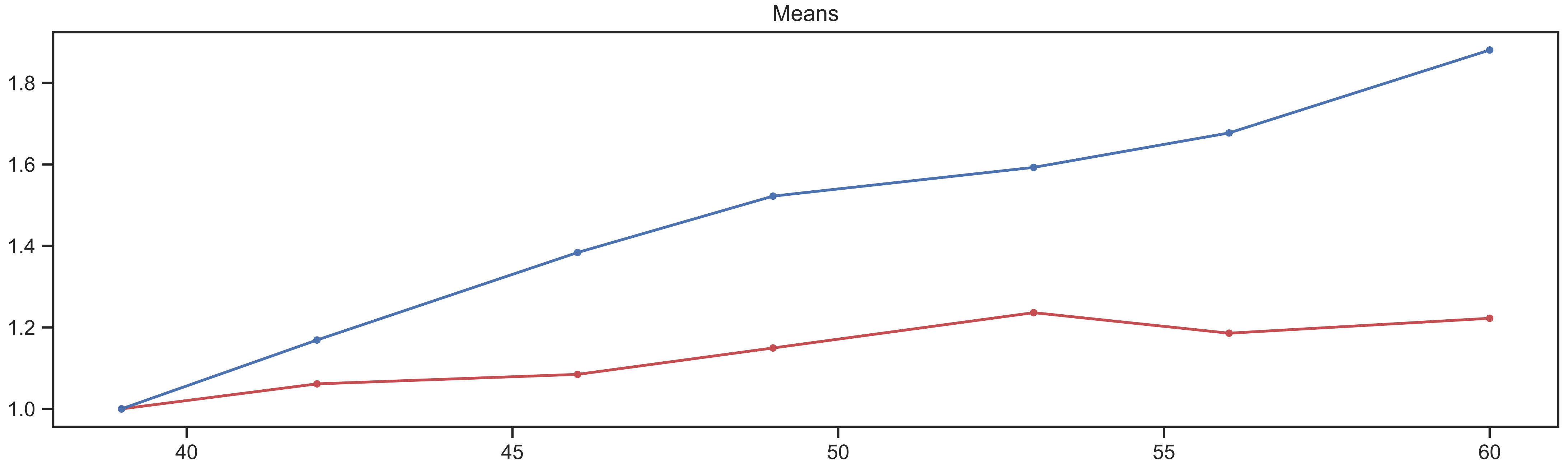


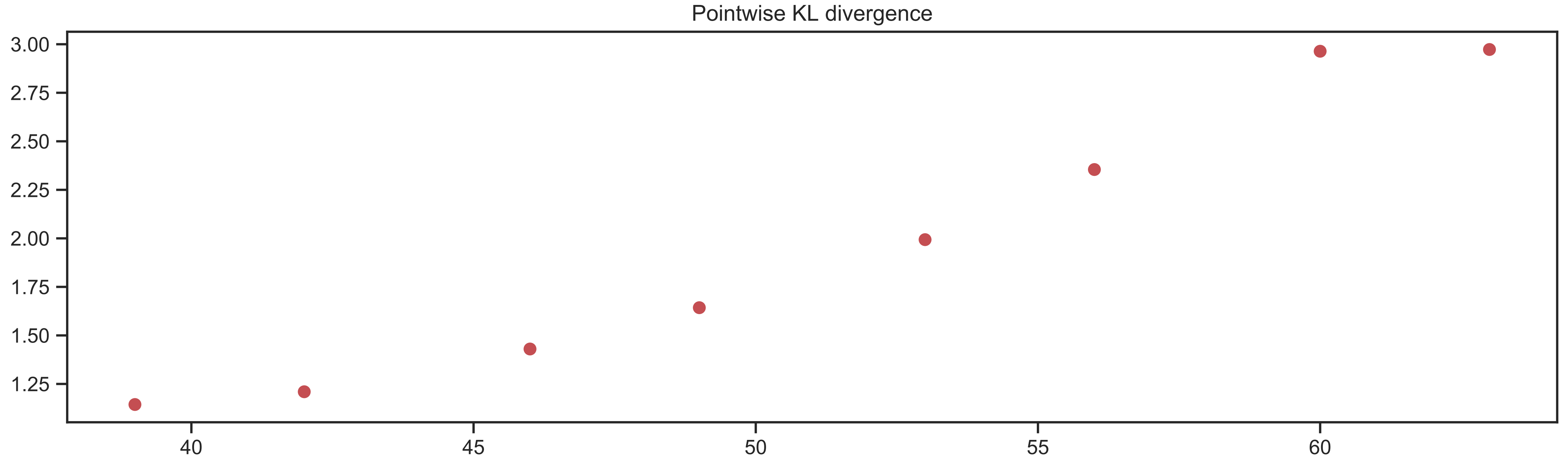
mRECIST: (0,0,8,2
kl: 1.6629036318296273
response_angle_rel: 0:0.017328139063400614_1:0.011269086047259695_2:0.027599710183788827_3:0.006373086697198734_4:0.008697775161151224_5:0.0067854800
response_angle_rel_control: 0:0.040908291266941614_1:0.049817475080347486_2:0.08552242341210503_3:0.0890183175704197_4:0.05366257166349159_5:0.06421358 .037552551230597954
auc_norm: 0:0.1143509752930088_1:0.17073729866680754_2:0.15870705441684527_3:0.035902444359043134_4:0.0903089966698839_5:0.0769640269292925_6:-0.058
auc_control_norm: 0:[0.21028731]_1:[0.21945771]_2:[0.36038286]_3:[0.21040381]_4:[0.20492954]_5:[0.23624661]_6:[0.08636255]_7:[-0.05396536]_8:[0.03667956]_9:[0.142
tgi: 0.7486077364258903
red = treatment,   blue=control

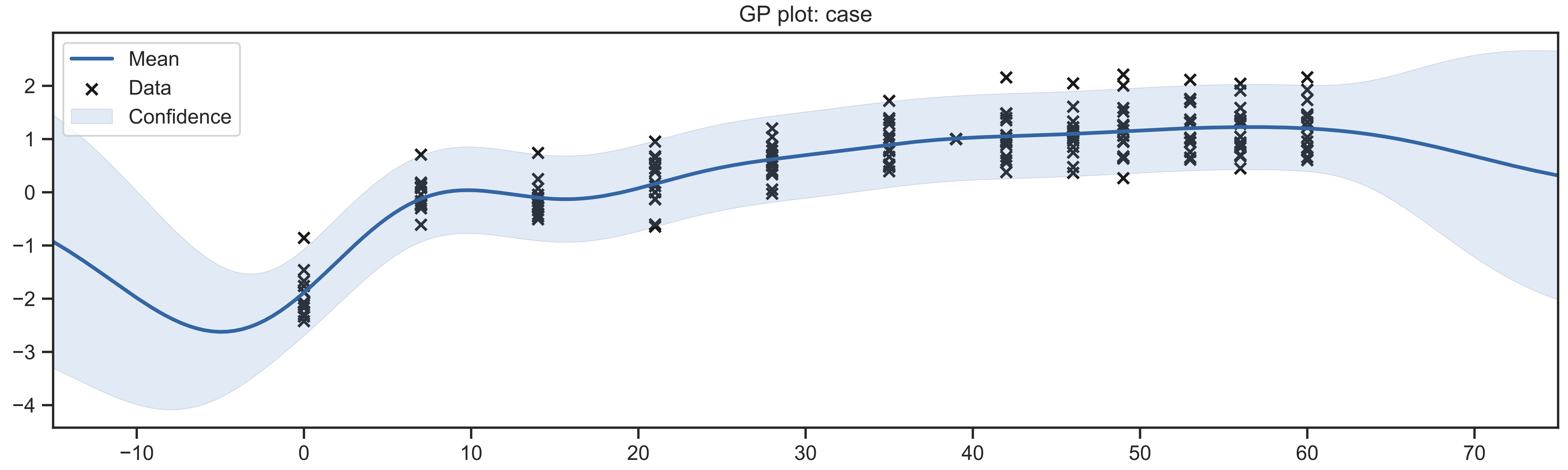
P11*C1

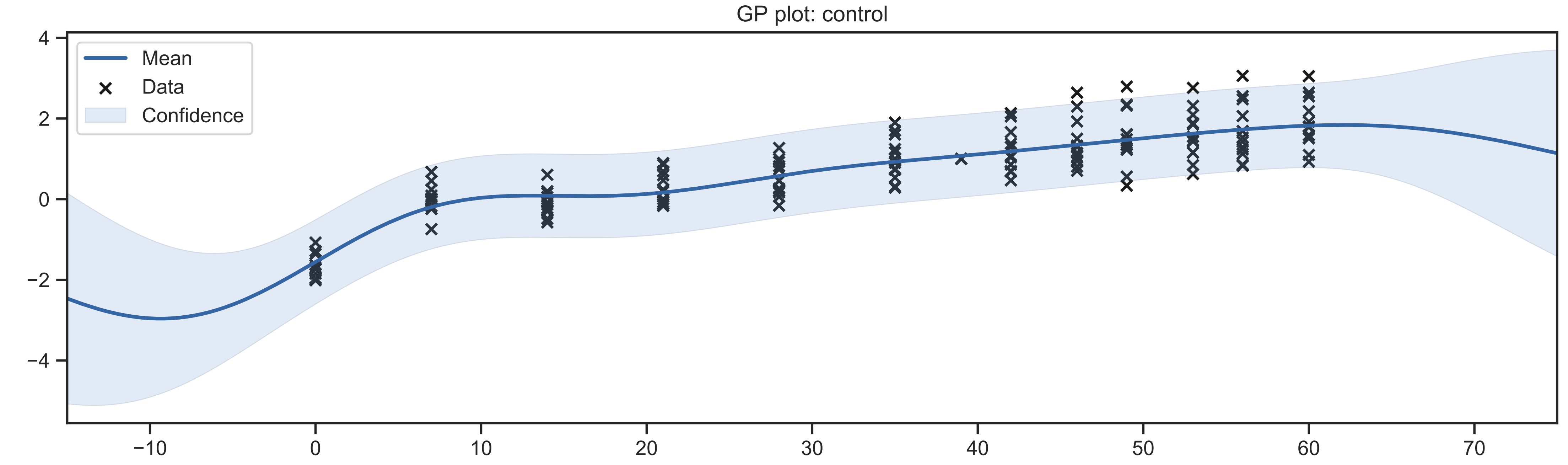


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

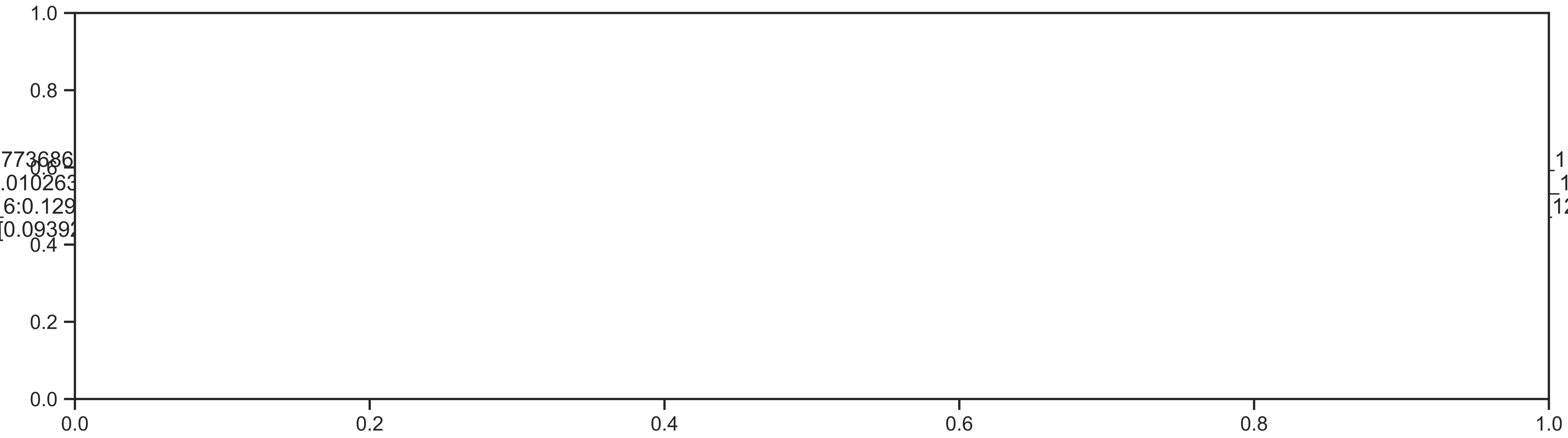




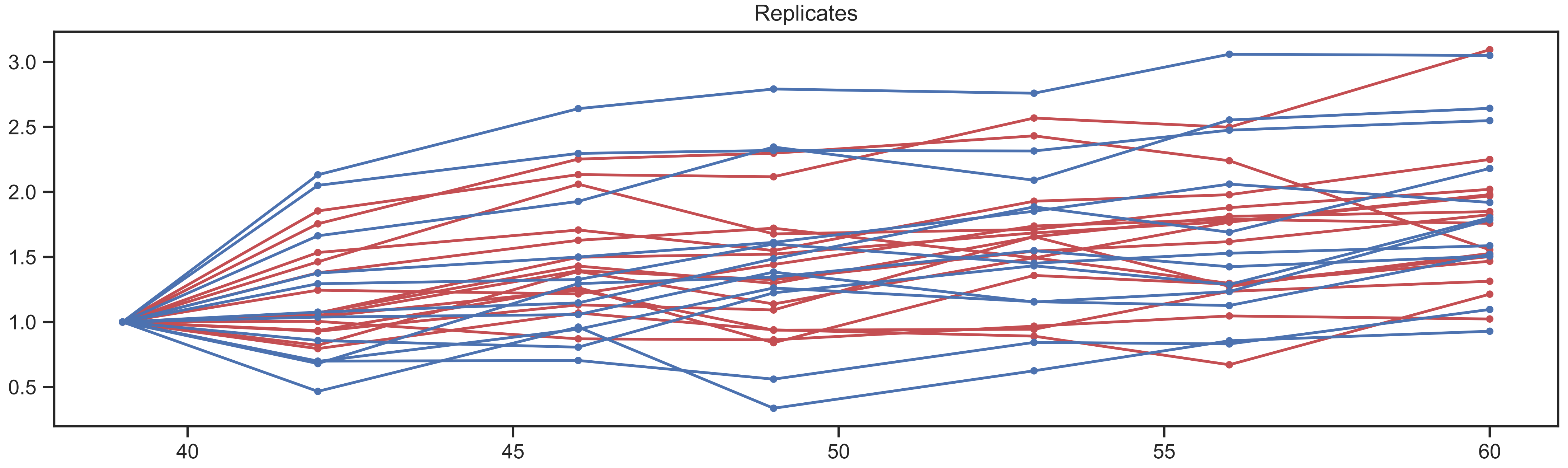




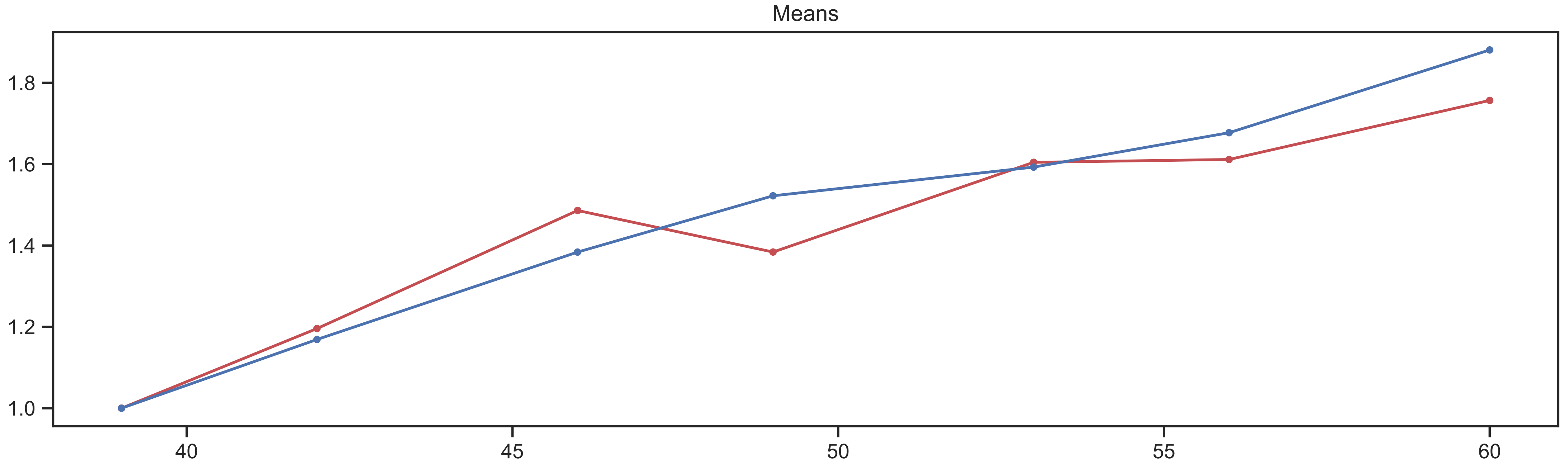
mRECIST: (0,2,9,4
kl: 0.9513065089737975
response_angle_rel: 0:0.006923370303548635_1:0.0014151209292034312_2:0.012114676581820853_3:0.003423683092536271_4:0.03524875191653373_5:0.024773686 _11:-0.006951750855300436_12:-0.000764
response_angle_rel_control: 0:0.013420962713705926_1:0.004292515907390667_2:0.008003173009956255_3:0.0521170679808845_4:0.019610143930025897_5:0.010263 _11:0.022490533292860007
auc_norm: 0:0.12303533388546838_1:0.01893051699654759_2:0.19863204732341913_3:0.07186786606998215_4:0.38324200830423183_5:0.3292833234031741_6:0.129 _12:-0.04575841825992647_13:-0.0844746
auc_control_norm: 0:[0.20031145]_1:[0.12860987]_2:[0.21150931]_3:[0.53948317]_4:[0.31355449]_5:[0.23335783]_6:[-0.01399678]_7:[0.48995667]_8:[0.6443946]_9:[0.0939
tgi: 0.8579958307598481
red = treatment, blue=control

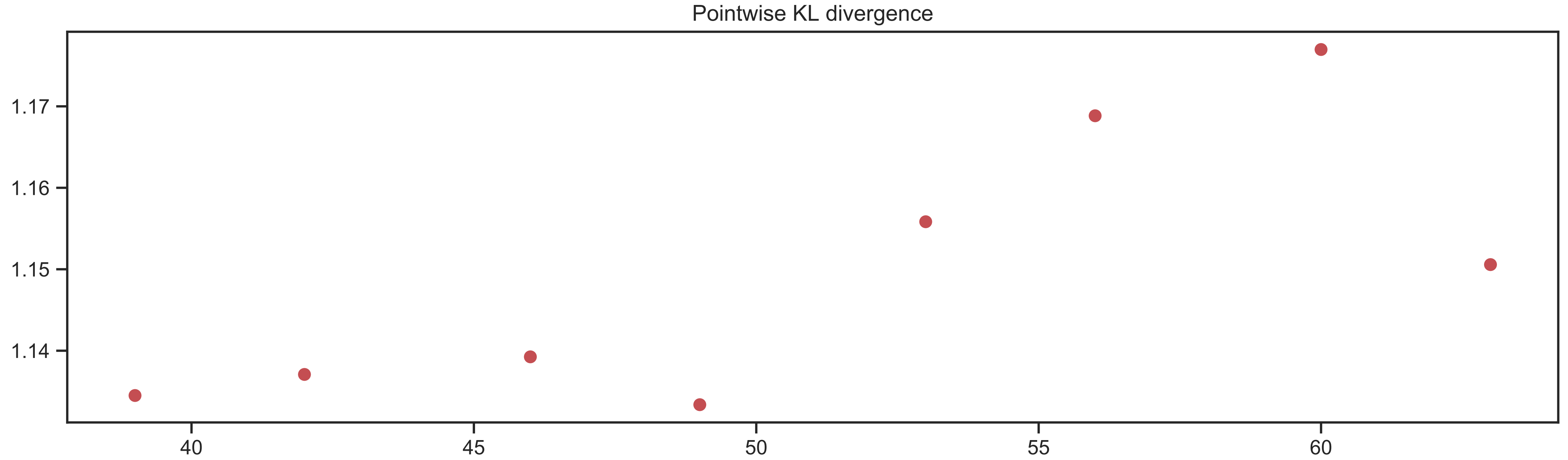


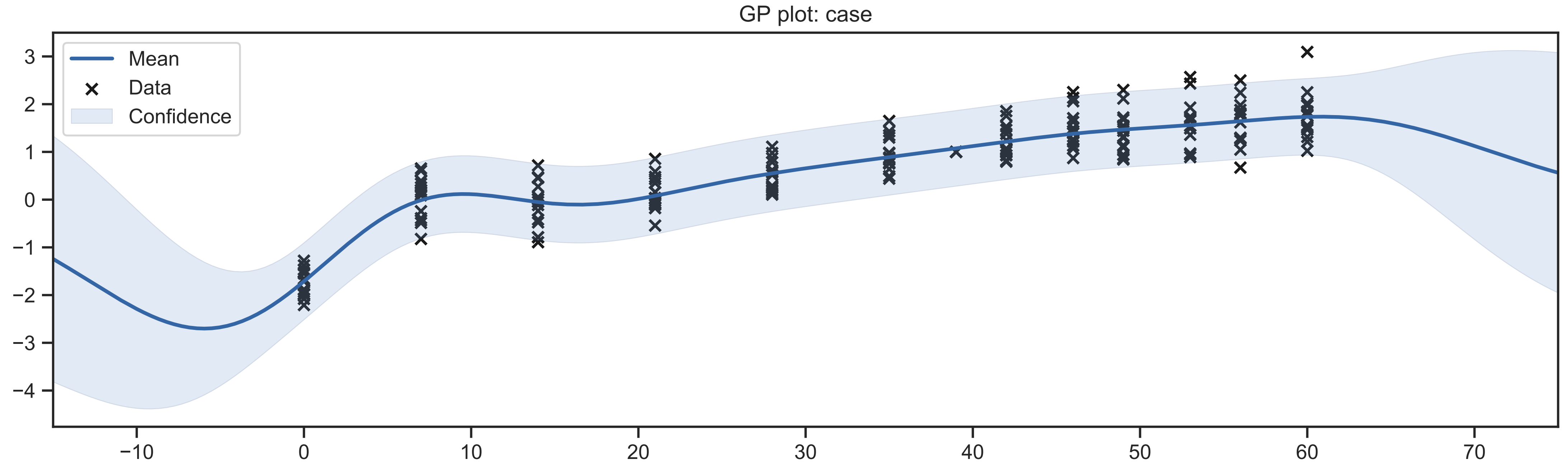
P11*C2

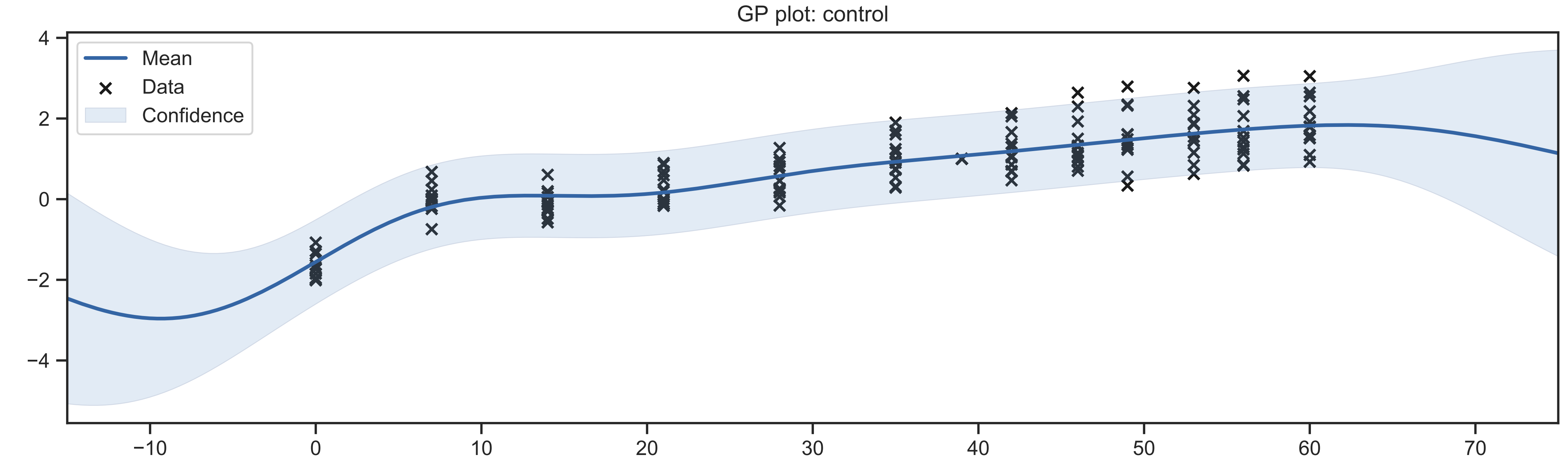


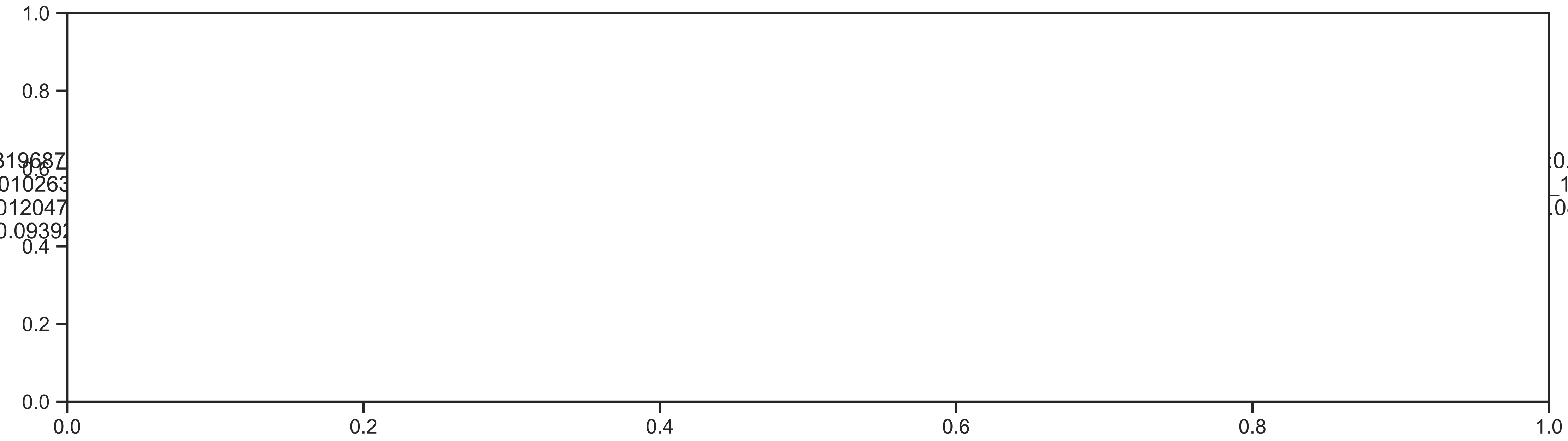
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N





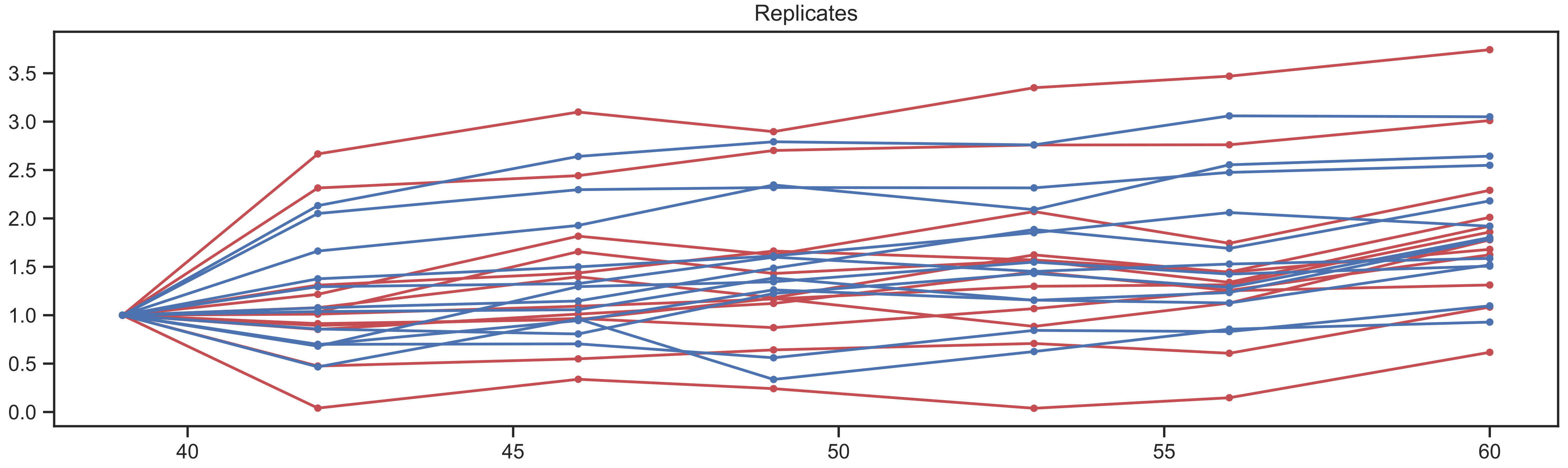




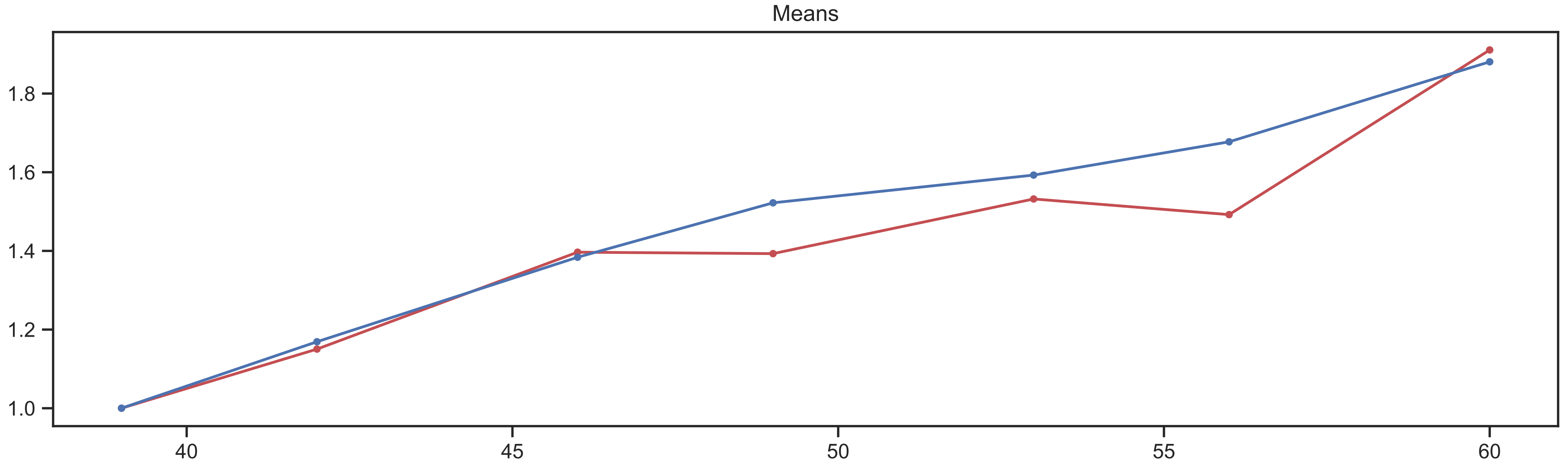


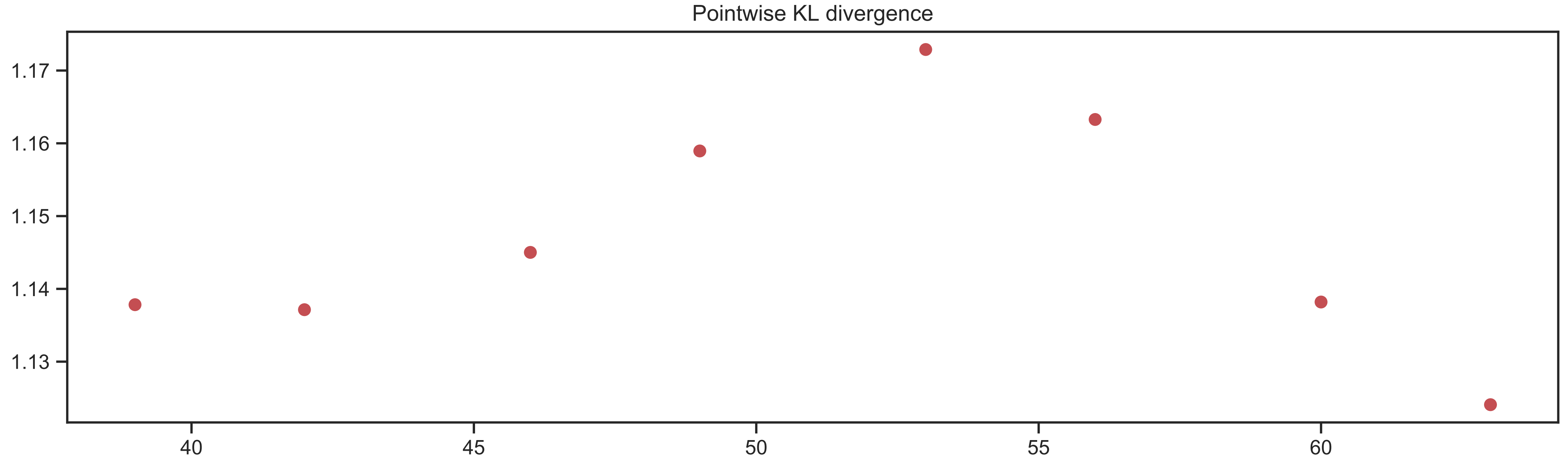
mRECIST: (0,0,10,5
kl: 0.15110156875554676
response_angle_rel: 0:0.040859616363455662_1:0.06984261048564966_2:0.016605337484466076_3:0.00954978334013225_4:0.030968483055614306_5:0.0037454319687 :0.023829873540590345_12:0.0055161345
response_angle_rel_control: 0:0.013420962713705926_1:0.004292515907390667_2:0.008003173009956255_3:0.0521170679808845_4:0.019610143930025897_5:0.010263 _11:0.022490533292860007
auc_norm: 0:0.18941981204505787_1:0.5874392245460502_2:0.2599398718078594_3:0.06447973835156881_4:0.34800260011150447_5:0.079412167529953_6:0.012047
auc_control_norm: 0:[0.20031145]_1:[0.12860987]_2:[0.21150931]_3:[0.53948317]_4:[0.31355449]_5:[0.23335783]_6:[-0.01399678]_7:[0.48995667]_8:[0.6443946]_9:[0.0939 .080181617957718158_13:0.090617345139
tgi: 0.06794970766882469
red = treatment,   blue=control

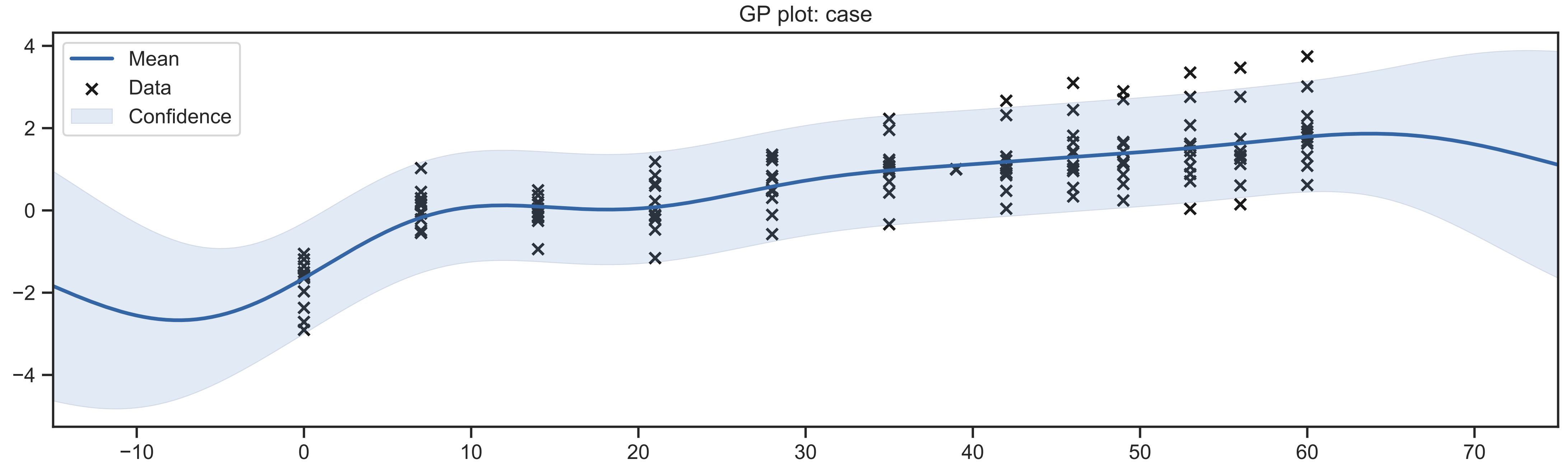
P11*C3

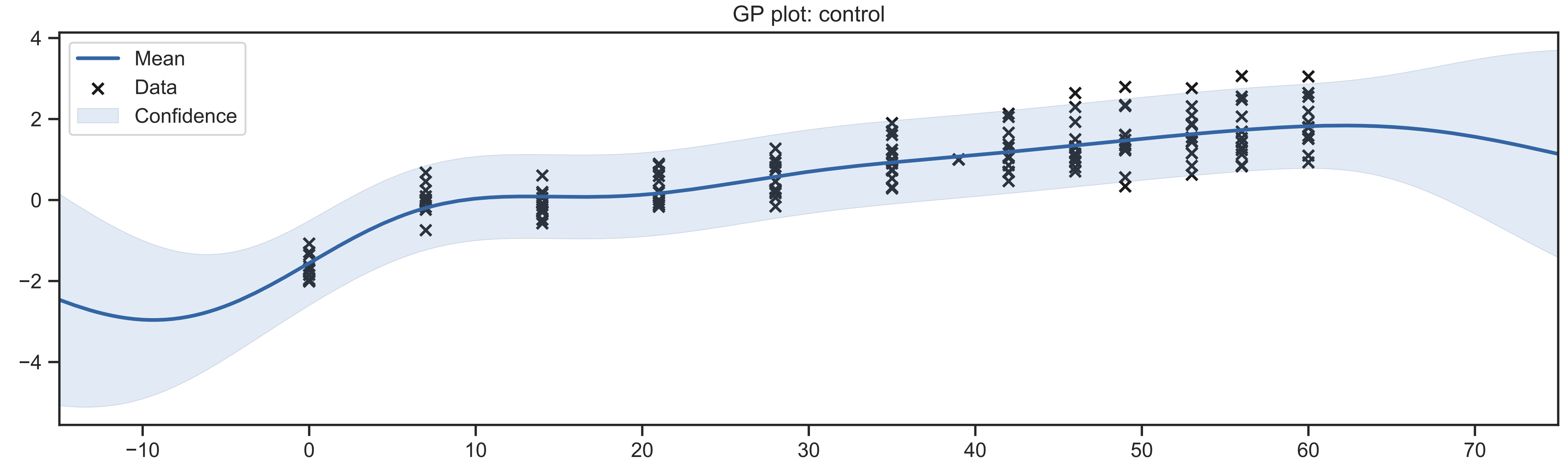


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

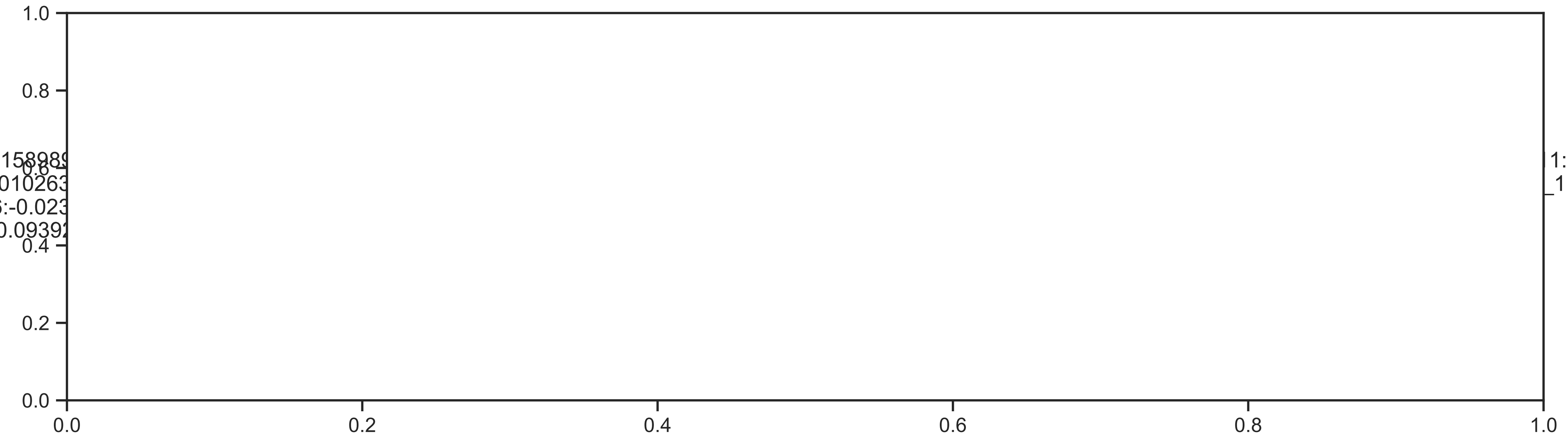




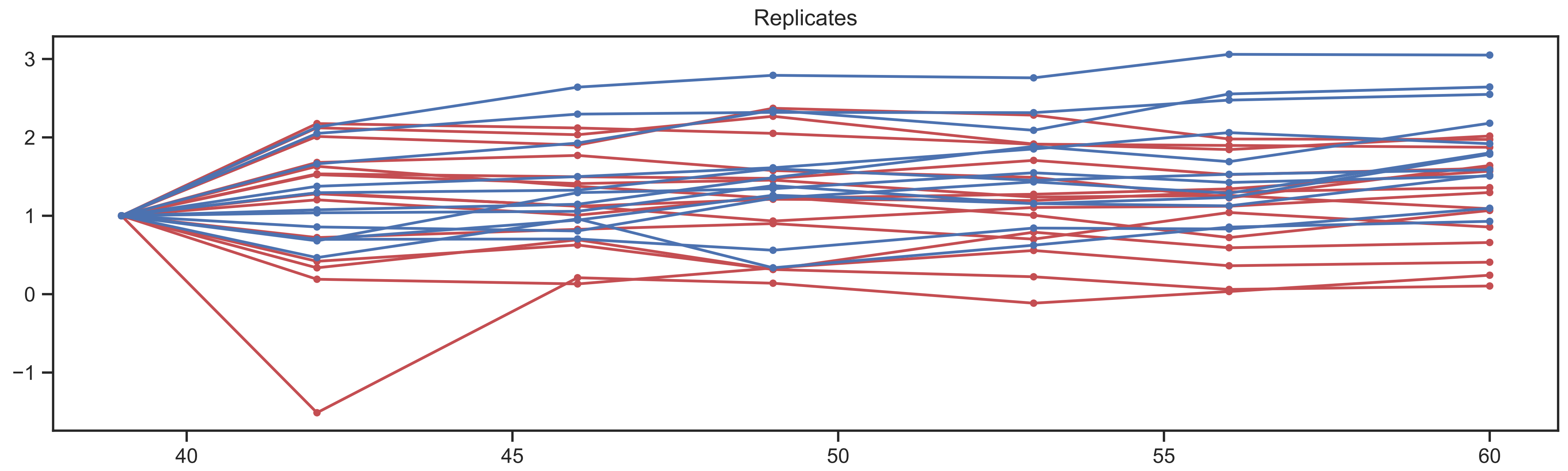




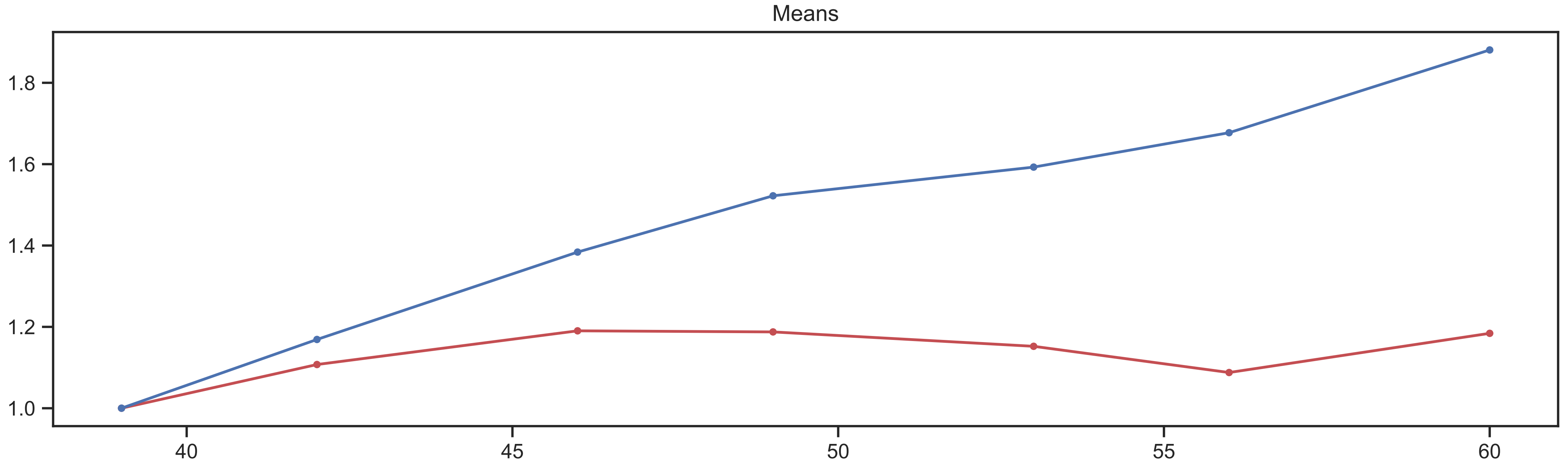
mRECIST: (0,1,8,3
kl: 0.15004565645627177
response_angle_rel: 0:0.08545408664851759_1:0.012410479612038398_2:0.006024775519977921_3:0.008271452883634478_4:0.007137097330335071_5:-0.00856158989 1:0.1672315342321781
response_angle_rel_control: 0:0.013420962713705926_1:0.004292515907390667_2:0.008003173009956255_3:0.0521170679808845_4:0.019610143930025897_5:0.01026 _11:0.022490533292860007
auc_norm: 0:0.6341003420528112_1:0.19496573086281138_2:0.22577687446733635_3:0.22333368315990193_4:0.1370169440964271_5:-0.17479784884482916_6:-0.023
auc_control_norm: 0:[0.20031145]_1:[0.12860987]_2:[0.21150931]_3:[0.53948317]_4:[0.31355449]_5:[0.23335783]_6:[-0.01399678]_7:[0.48995667]_8:[0.6443946]_9:[0.0939
tgi: 0.13260447925383734
red = treatment,   blue=control

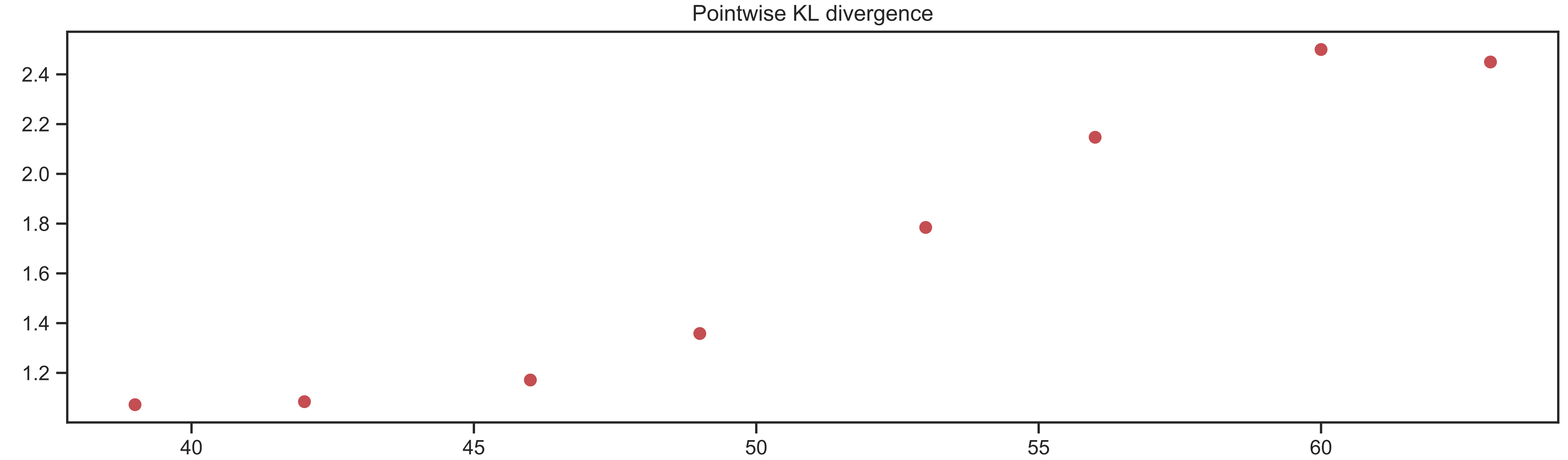


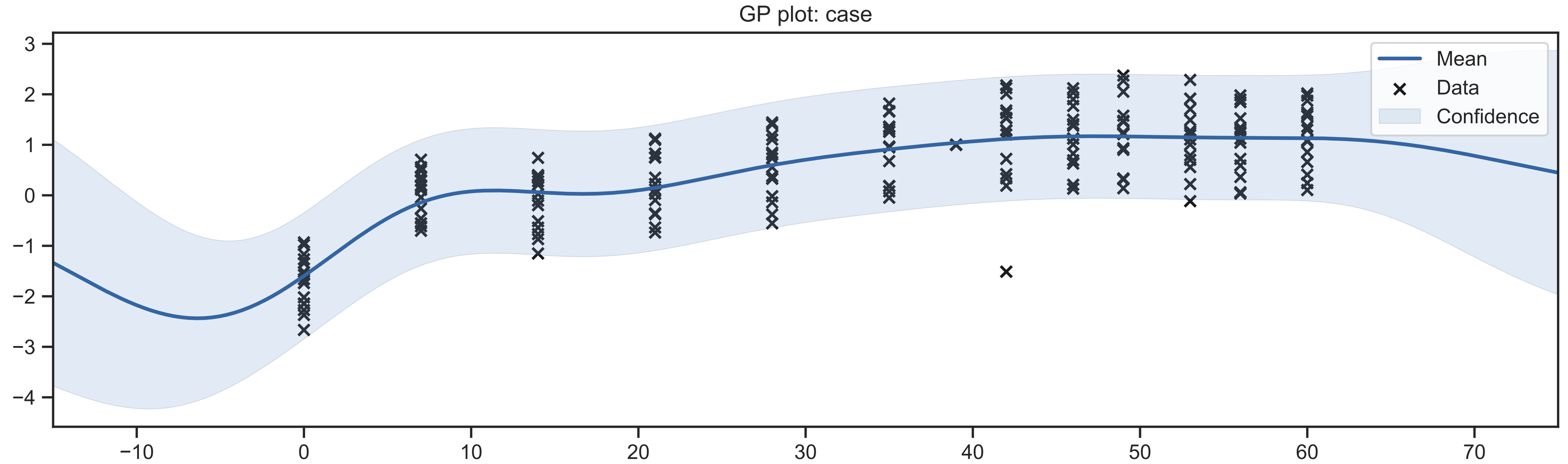
P11*C4

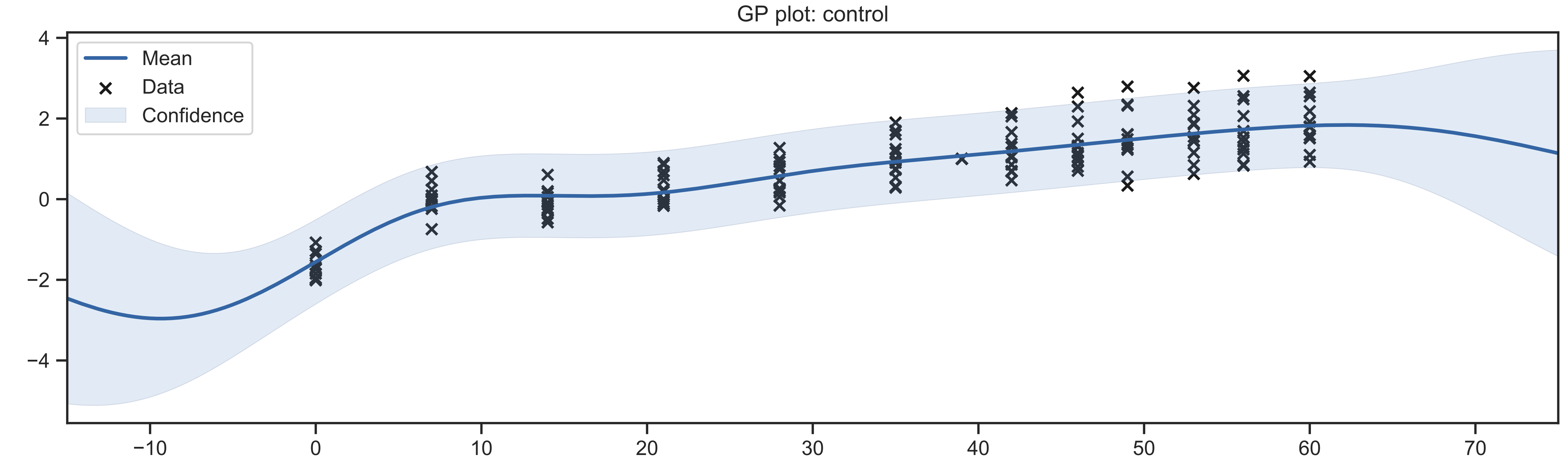


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

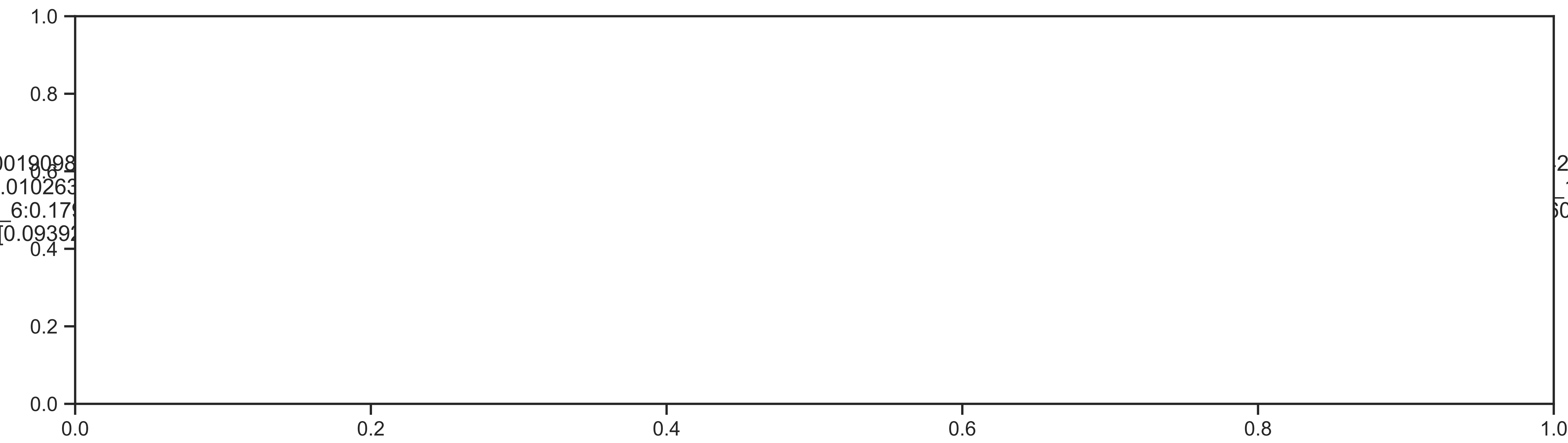




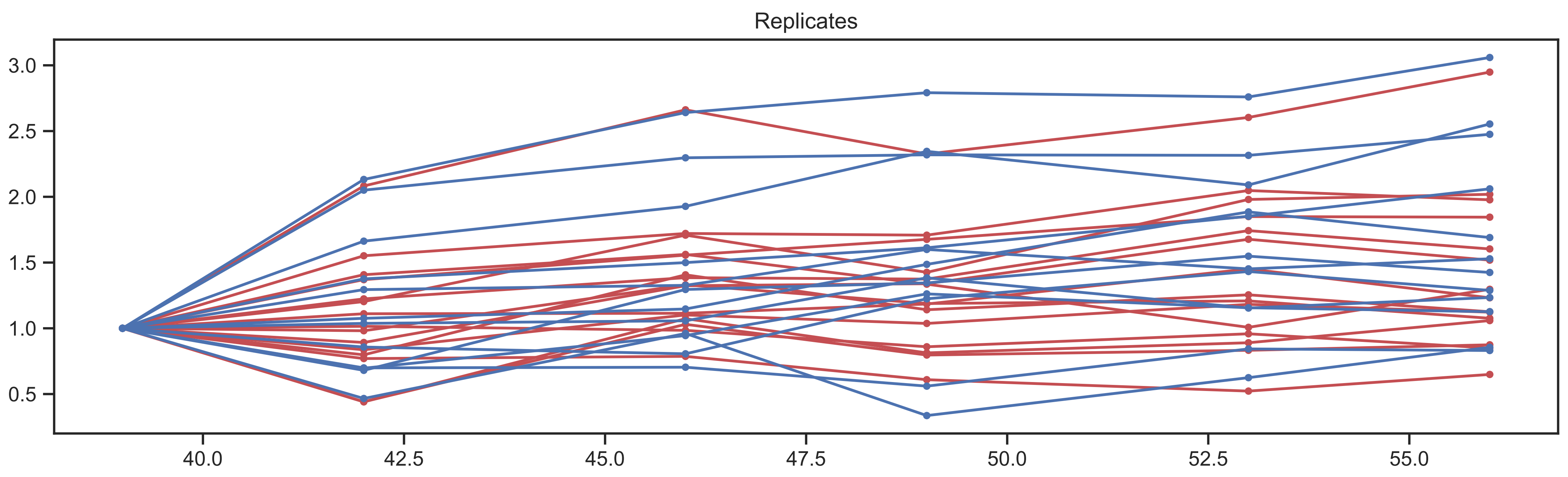




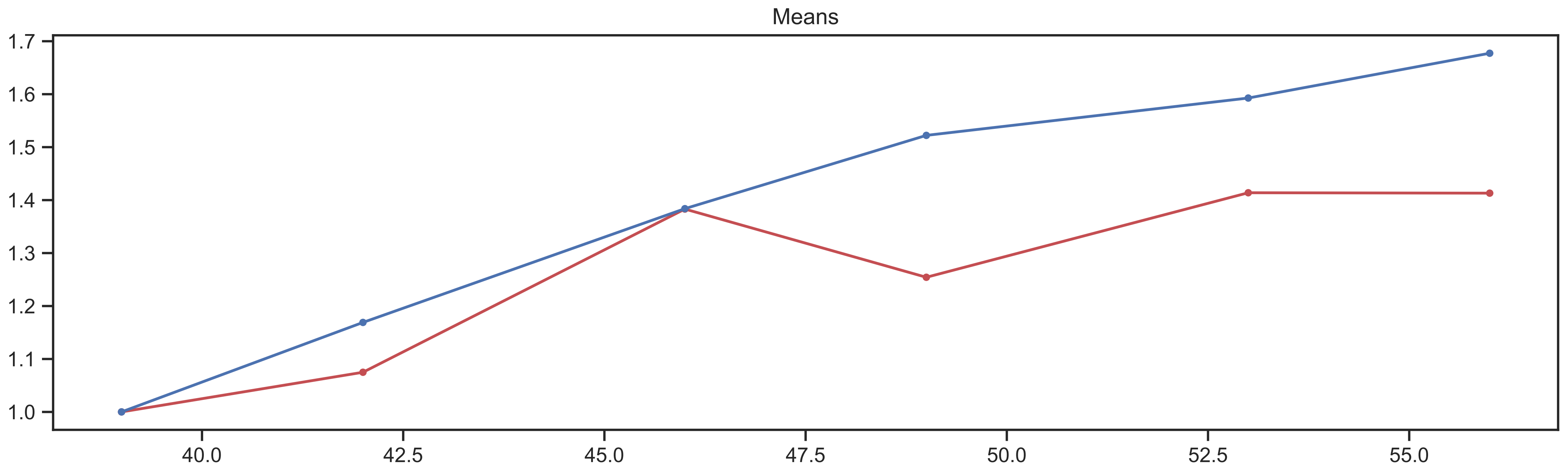
mRECIST: (0,3,5,7
kl: 0.6875927979133981
response_angle_rel: 0:0.005671866710109329_1:0.011618267262451139_2:-0.00026136138885876246_3:-0.0062191000657320075_4:0.03094386874482945_5:0.0019098 234_11:-0.011517806960355903_12:0.007
response_angle_rel_control: 0:0.013420962713705926_1:0.004292515907390667_2:0.008003173009956255_3:0.0521170679808845_4:0.019610143930025897_5:0.010263 _11:0.022490533292860007
auc_norm: 0:0.07154264669301705_1:0.1788667512143979_2:0.029685753117525873_3:-0.17614595638273844_4:0.3414006161884914_5:0.08284525864664274_6:0.17 505_12:0.18794163178065906_13:0.36158
auc_control_norm: 0:[0.20031145]_1:[0.12860987]_2:[0.21150931]_3:[0.53948317]_4:[0.31355449]_5:[0.23335783]_6:[-0.01399678]_7:[0.48995667]_8:[0.6443946]_9:[0.0939
tgi: 1.1740705353350782
red = treatment,   blue=control

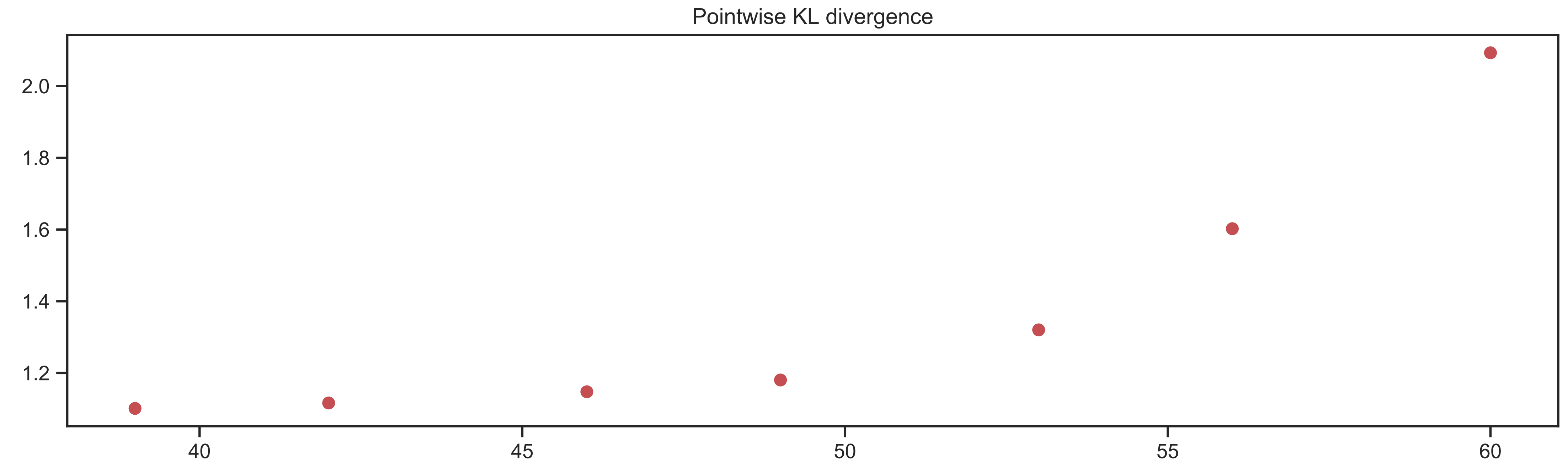


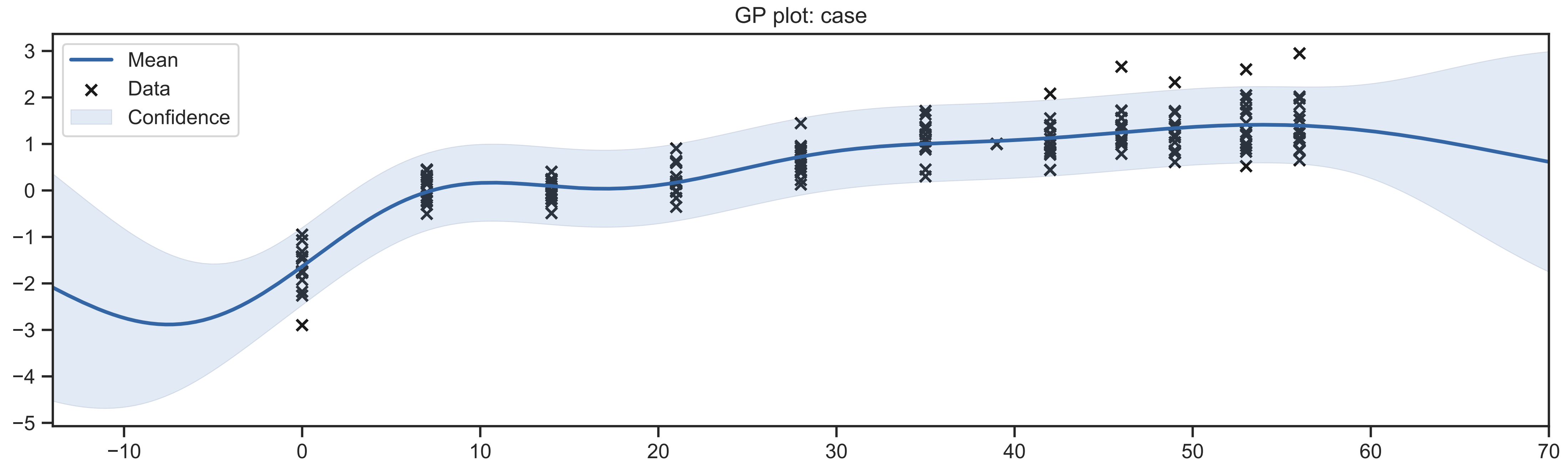
P11*C5

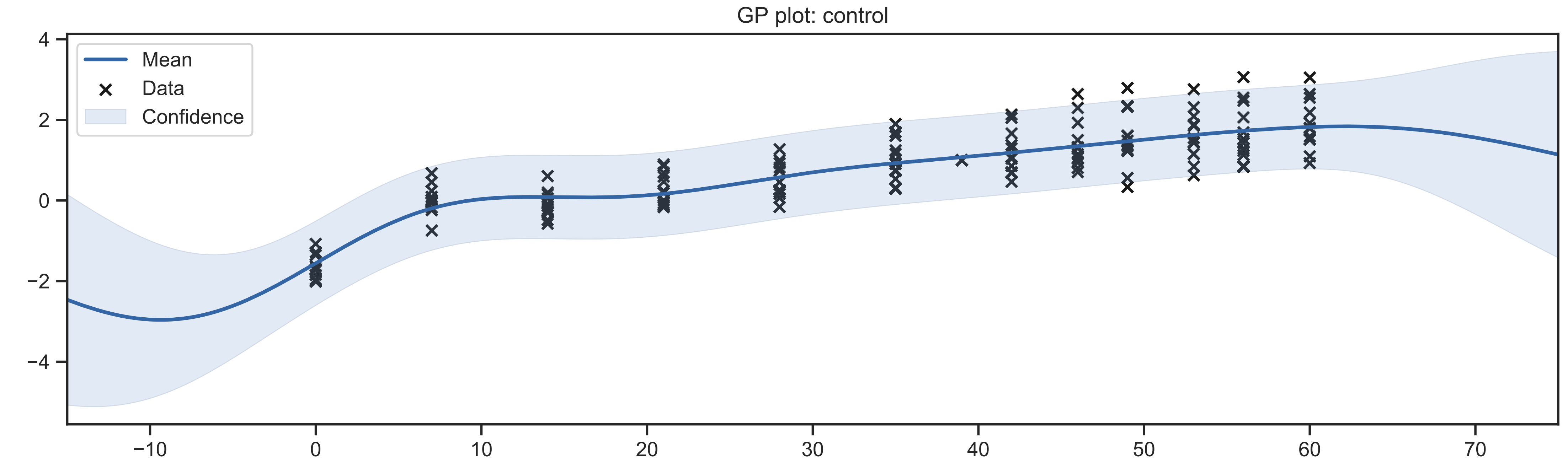


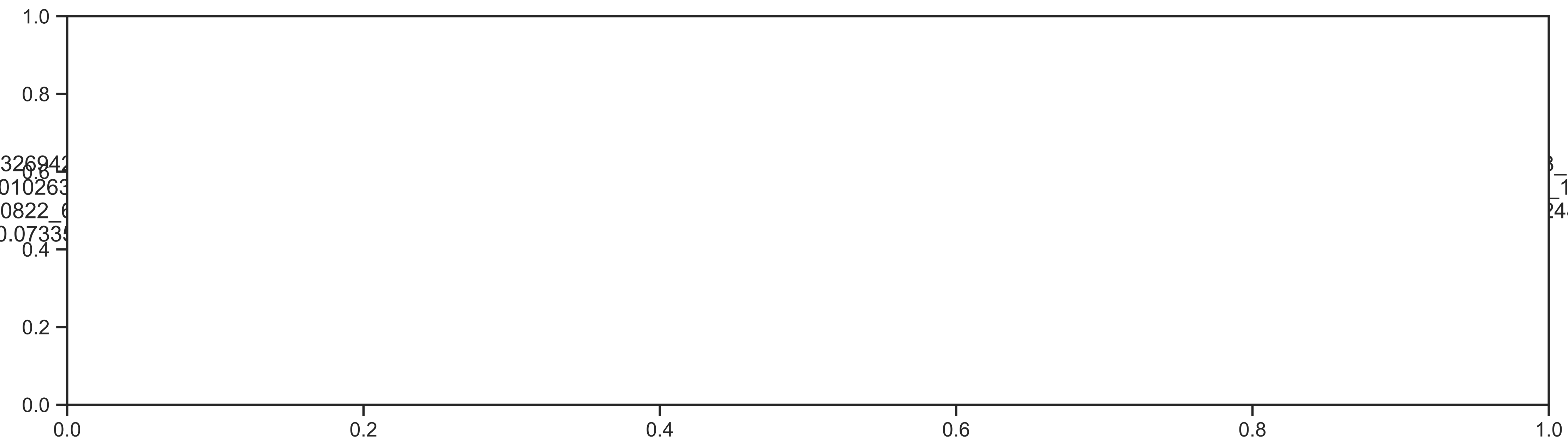
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N





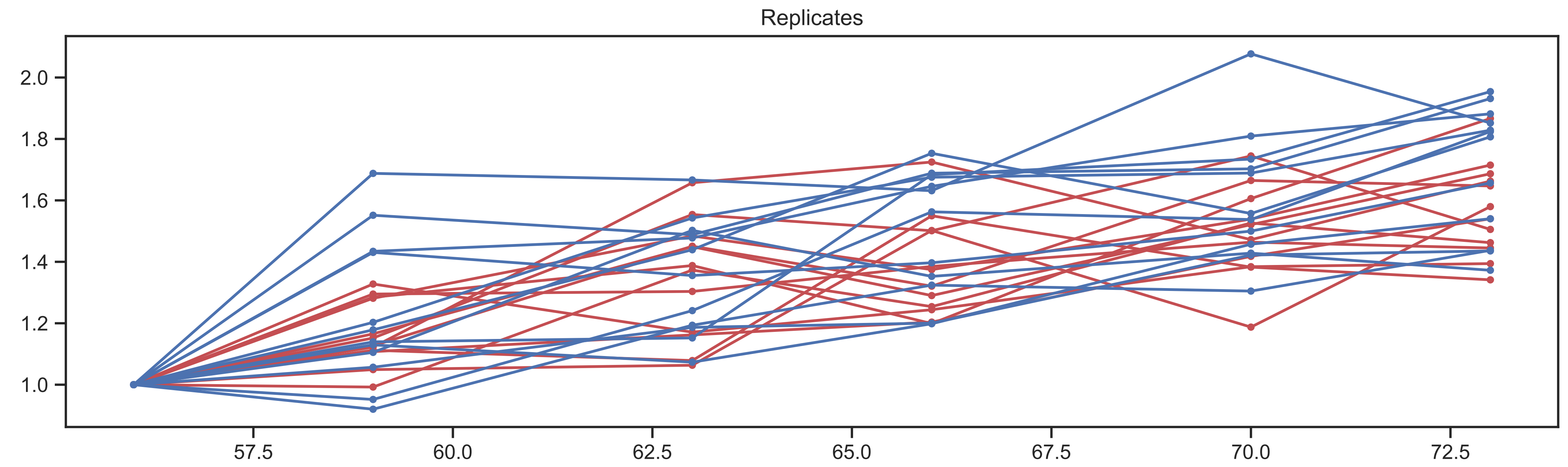




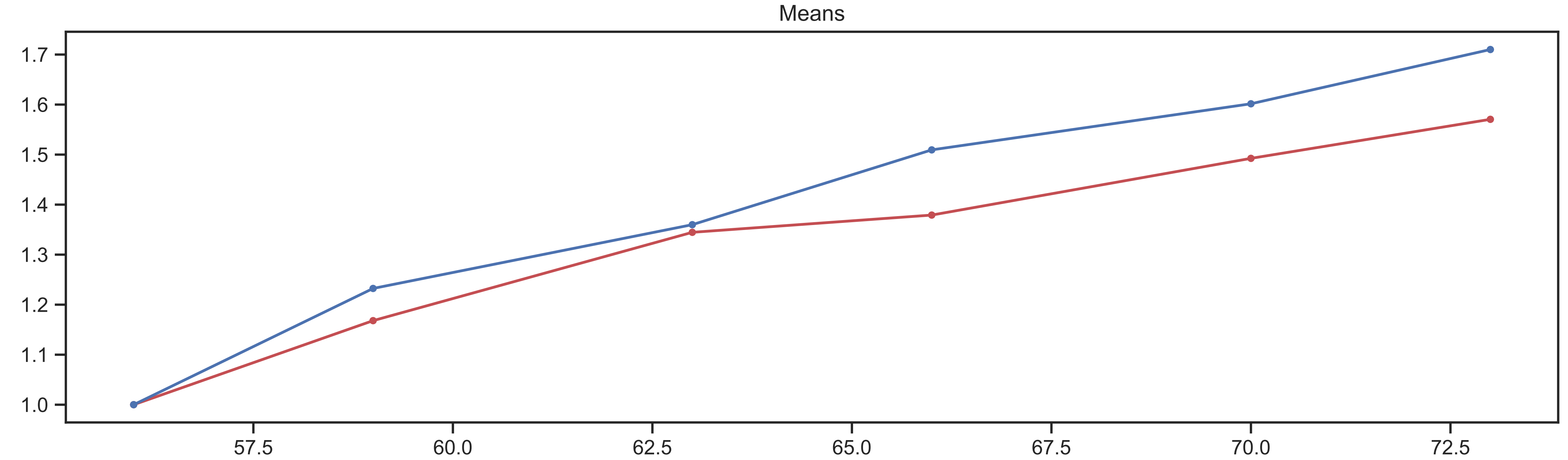


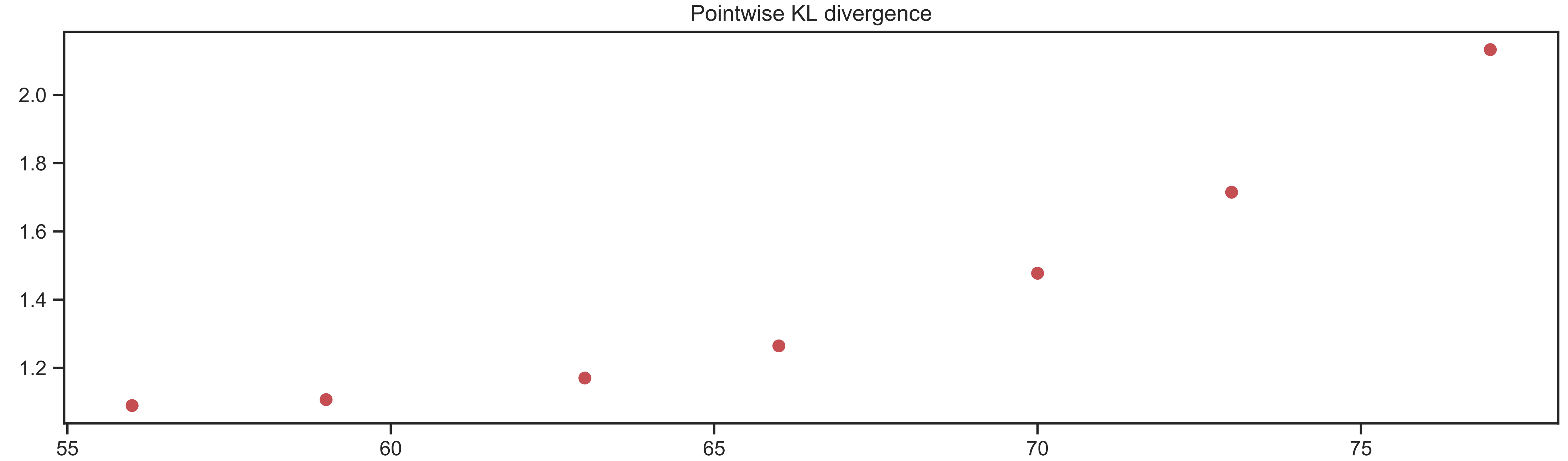
mRECIST: (0,1,10,4
kl: 0.334344309575045
response_angle_rel: 0:0.006281325904363998_1:0.010371650565245602_2:0.005747045069513836_3:-0.007270673482777446_4:0.006121102989717663 5_5:0.00332694 _11:0.002968712429722364_12:0.071672
response_angle_rel_control: 0:0.013420962713705926_1:0.004292515907390667_2:0.008003173009956255_3:0.0521170679808845_4:0.019610143930025897_5:0.01026 _11:0.022490533292860007
auc_norm: 0:0.11331156406595469_1:0.10860714113418574_2:-0.018258220089388495_3:-0.11115258788427831_4:-0.09392898367305952_5:-0.005387028028040822_ 48_12:0.5780059750302047_13:0.157001
auc_control_norm: 0:[0.18580727]_1:[0.03026093]_2:[0.08297067]_3:[0.51710616]_4:[0.19085708]_5:[0.09550541]_6:[-0.08030782]_7:[0.4715656]_8:[0.64674231]_9:[0.0733
tgi: 0.20164063191859316
red = treatment,   blue=control

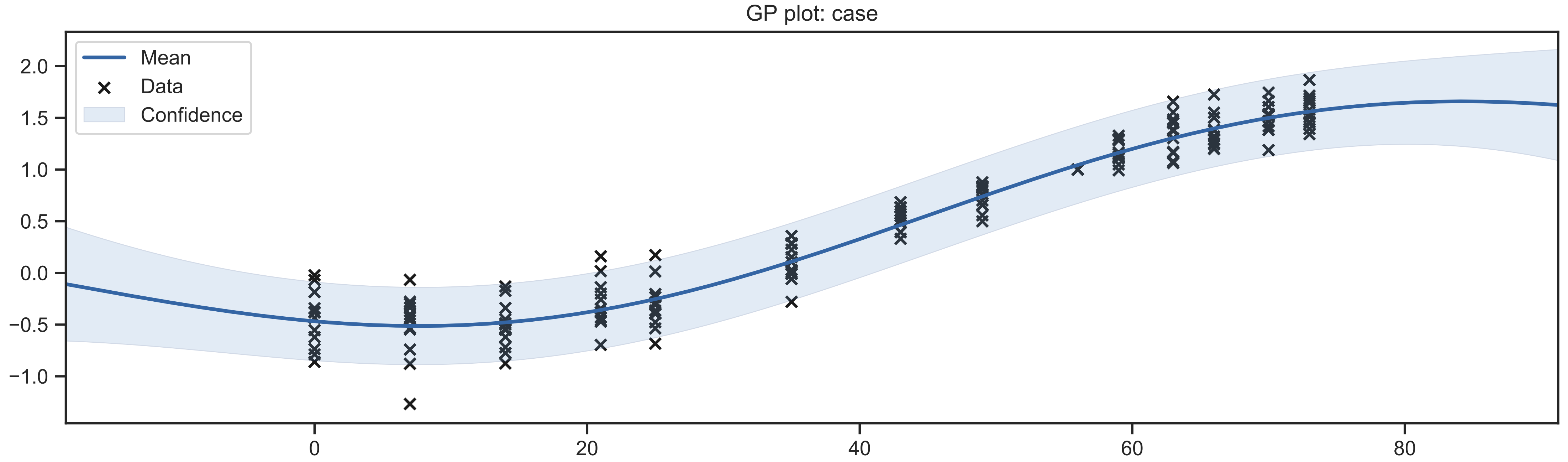
P12*C1

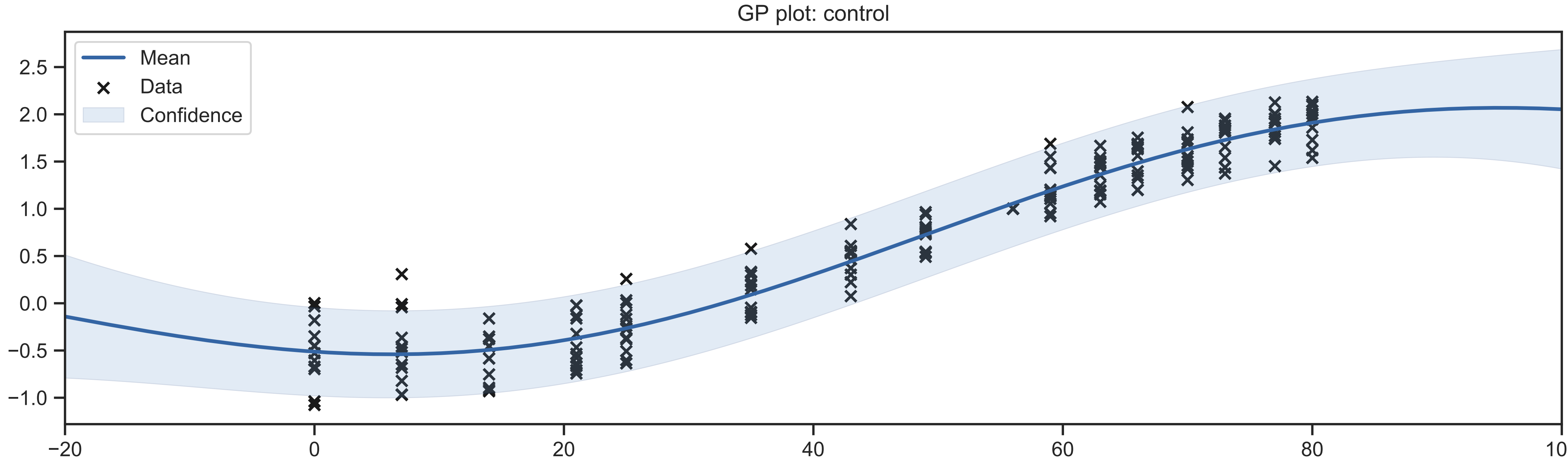

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

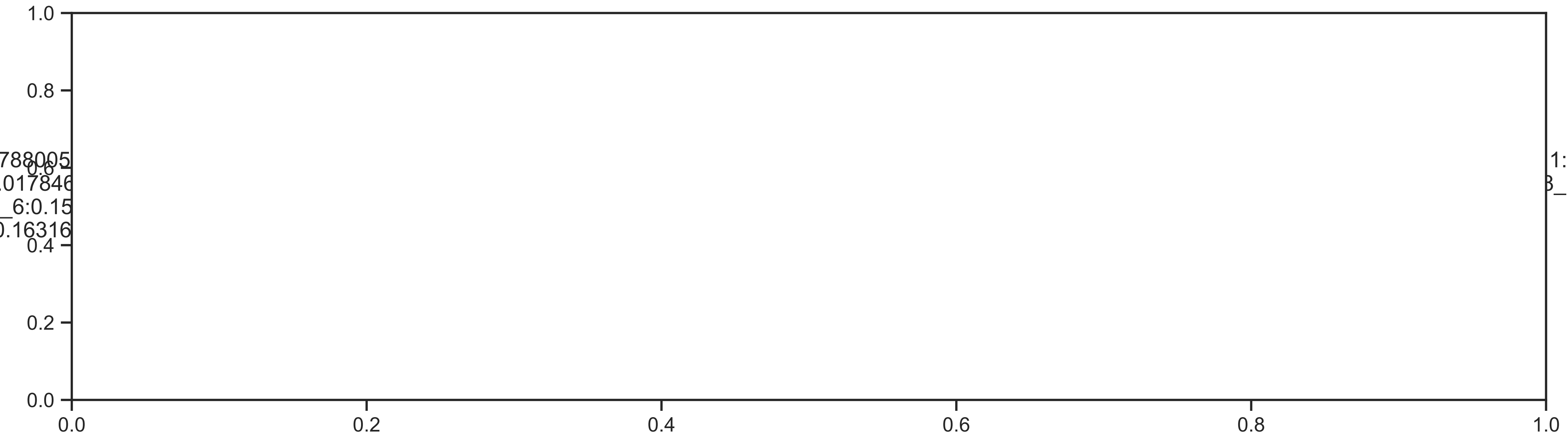

Means


Pointwise KL divergence

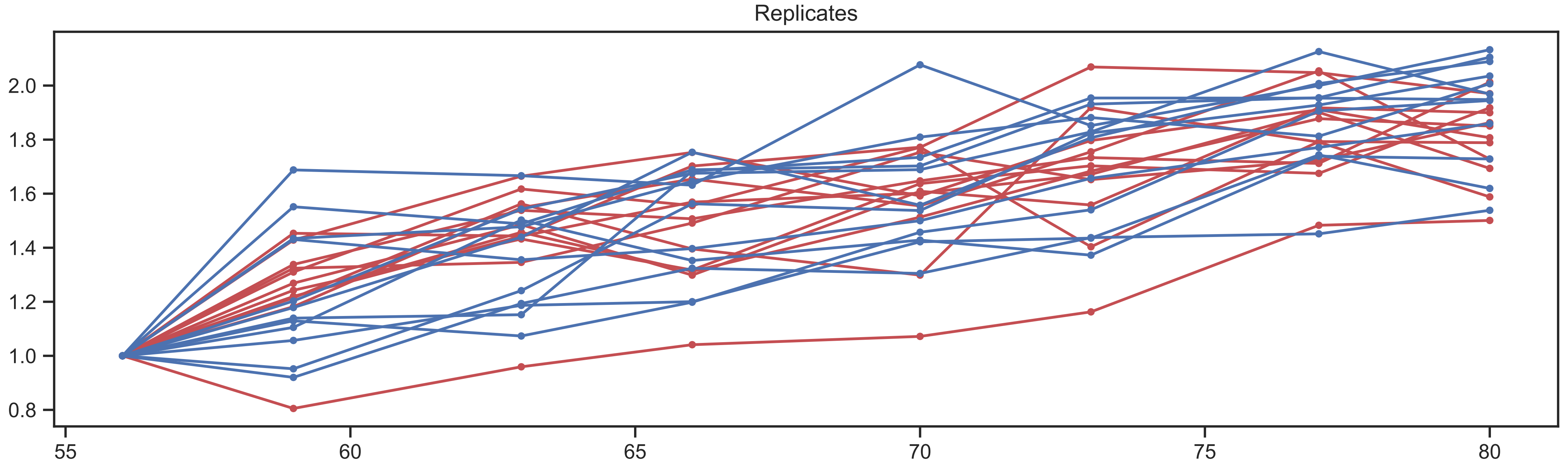

GP plot: case


GP plot: control

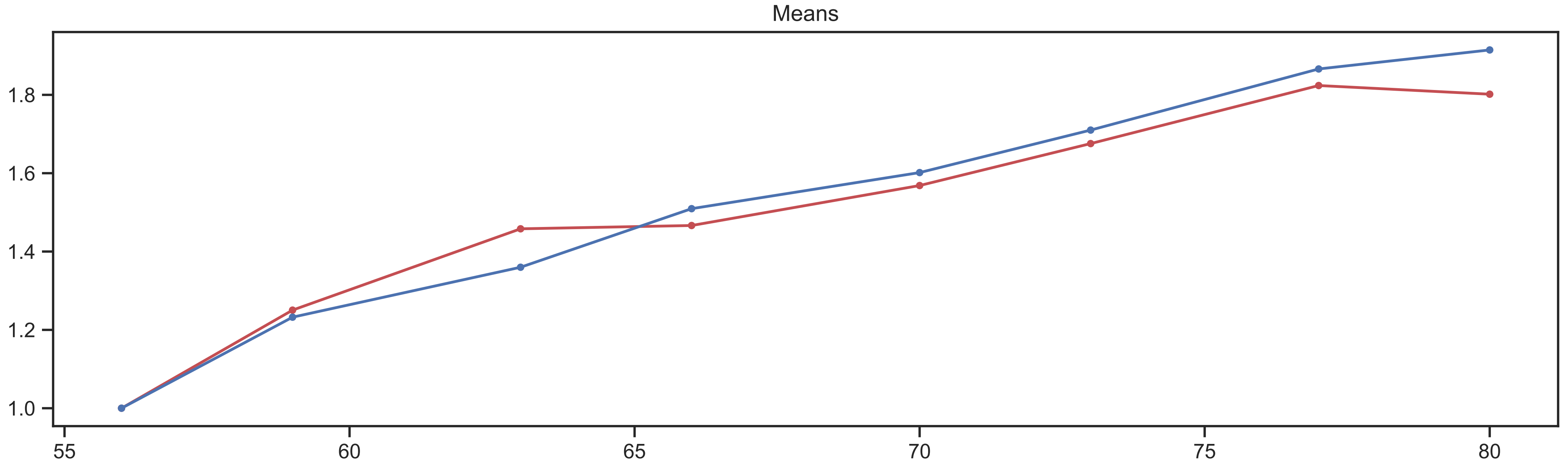
mRECIST: (0,0,9,3
kl: 0.39723471547183536
response_angle_rel: 0:0.011790045069849577_1:0.008333537499424387_2:0.001904175824962398_3:0.011467387101480892_4:0.006373110501906952_5:0.0047788005 1:0.011474736883376883
response_angle_rel_control: 0:0.014954094578070575_1:0.00602002464682197_2:0.010838299766725401_3:0.006989717938356795_4:0.02267190611215797_5:0.01784 _11:0.01611675419786186
auc_norm: 0:0.15996231736516206_1:0.13049247831611696_2:0.18595941231382943_3:0.19735124438818863_4:0.13276348201541693_5:0.21825796582723492_6:0.15
auc_control_norm: 0:[0.25271854]_1:[0.12462397]_2:[0.21660912]_3:[0.11585689]_4:[0.24862296]_5:[0.31456385]_6:[0.27660632]_7:[0.3127237]_8:[0.08473439]_9:[0.16316
tgi: 0.18186545021158895
red = treatment,   blue=control

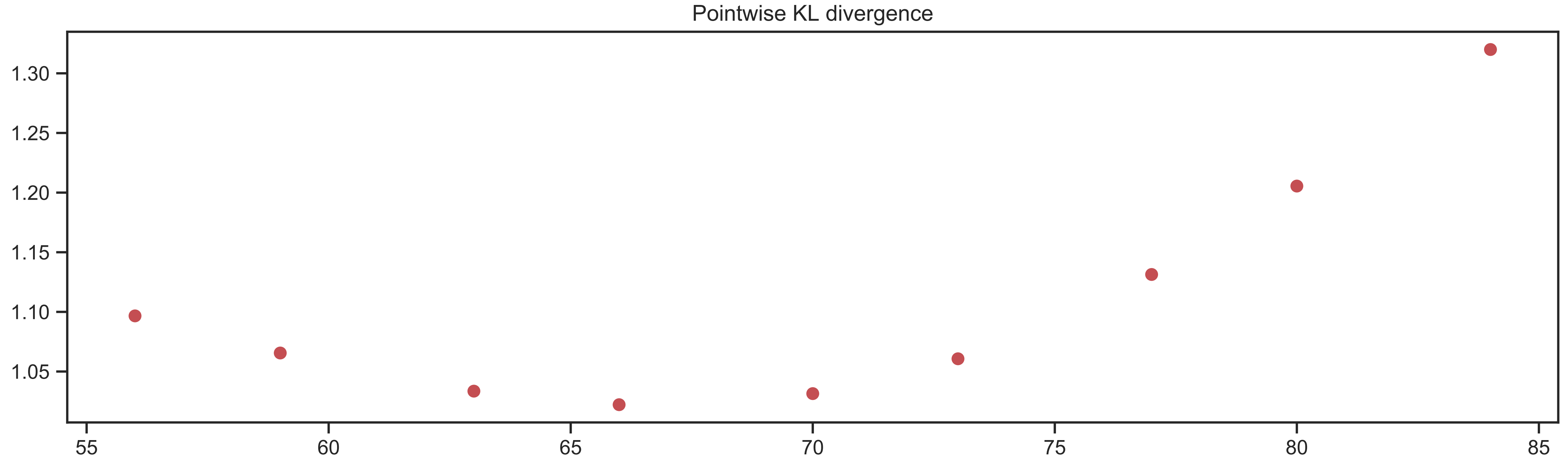


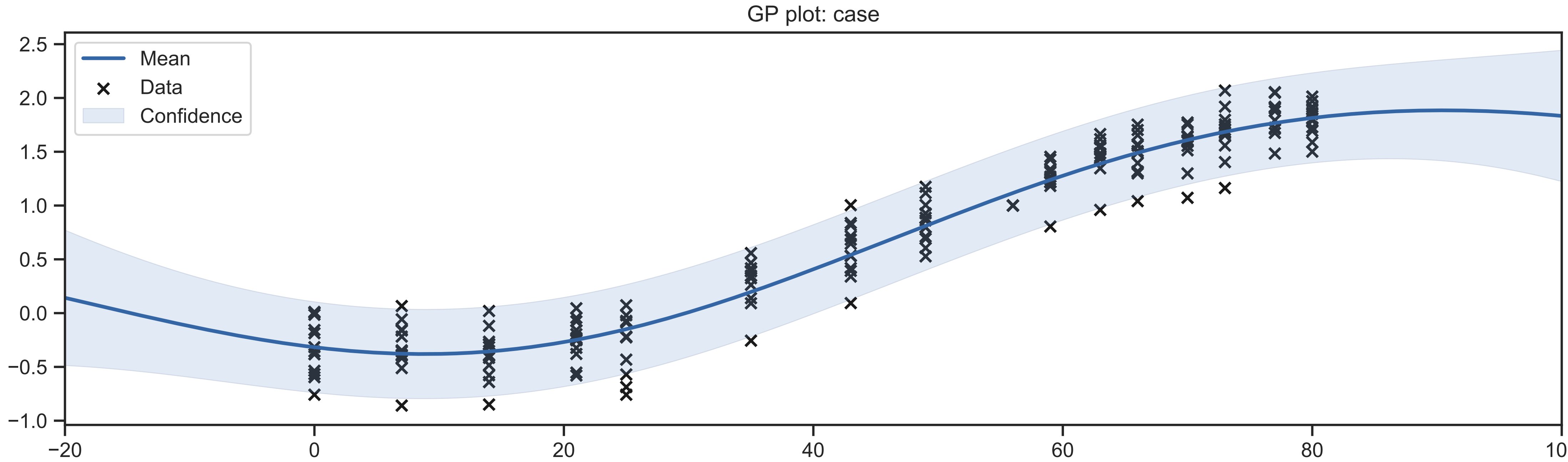
P12*C2

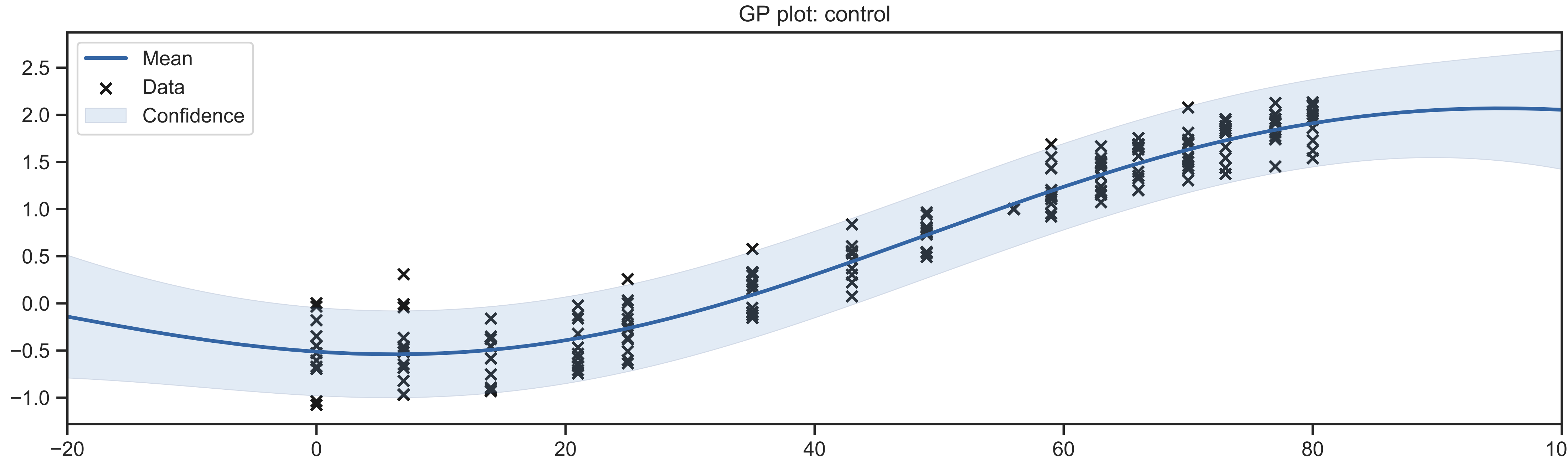


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N



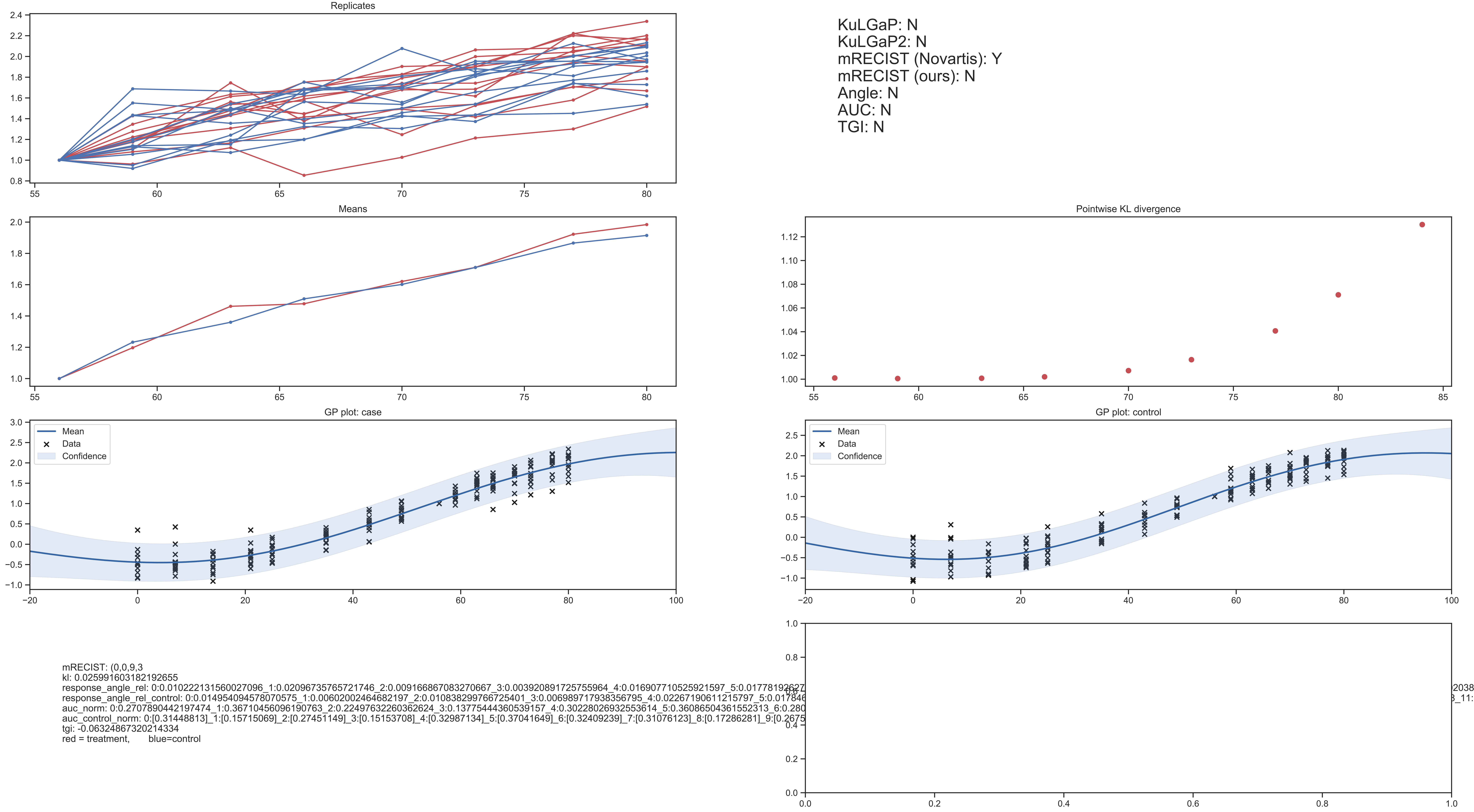






mRECIST: (0,0,6,6
kl: 0.09527417759352375
response_angle_rel: 0:0.011705693805656222_1:0.013490704072343214_2:0.013793874076503244_3:0.012245141269632522_4:0.011408378270234002_5:0.0097161585 151153583553366 08
response_angle_rel_control: 0:0.014954094578070575_1:0.00602002464682197_2:0.010838299766725401_3:0.006989717938356795_4:0.02267190611215797_5:0.017846 3_11:0.01611675419786186
auc_norm: 0:0.2657930042543174_1:0.23071168108273954_2:0.31105179733283167_3:0.25800517670111617_4:0.22543442513381978_5:0.18579961454813904_6:0.281
auc_control_norm: 0:[0.31448813]_1:[0.15715069]_2:[0.27451149]_3:[0.15153708]_4:[0.32987134]_5:[0.37041649]_6:[0.32409239]_7:[0.31076123]_8:[0.17286281]_9:[0.2675
tgi: 0.15404552252592218
red = treatment,   blue=control

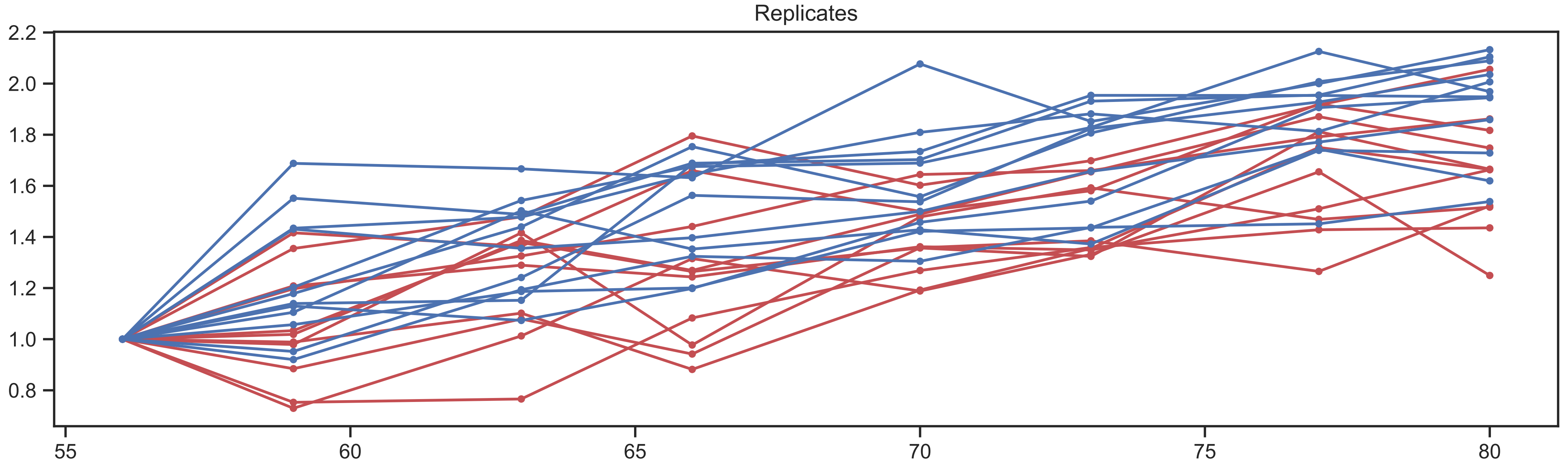
P12*C3



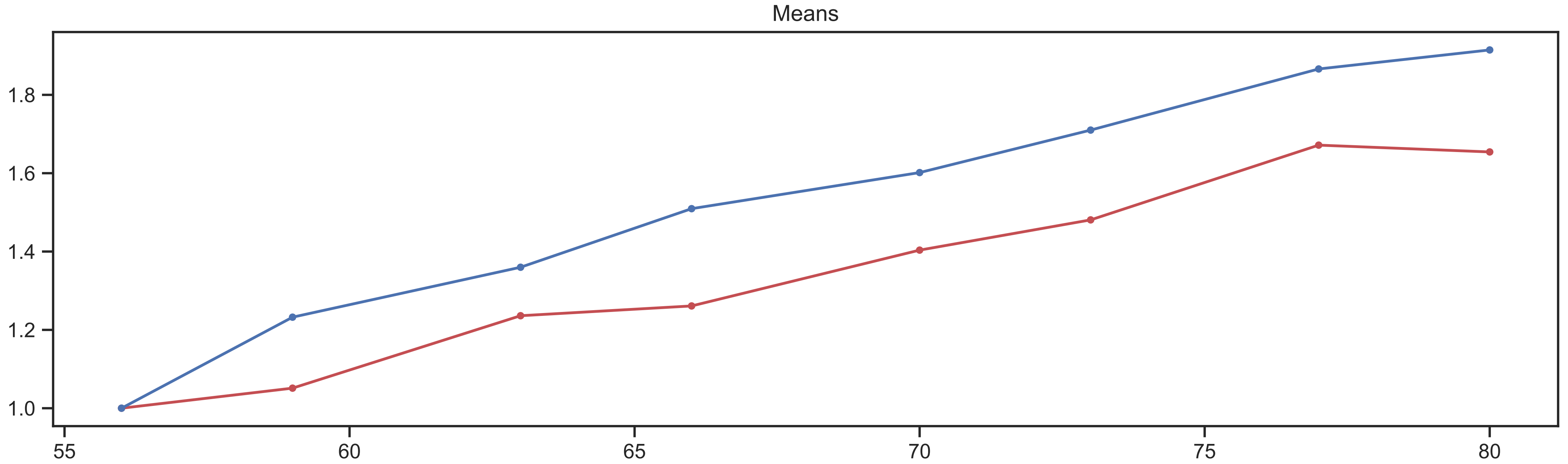
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

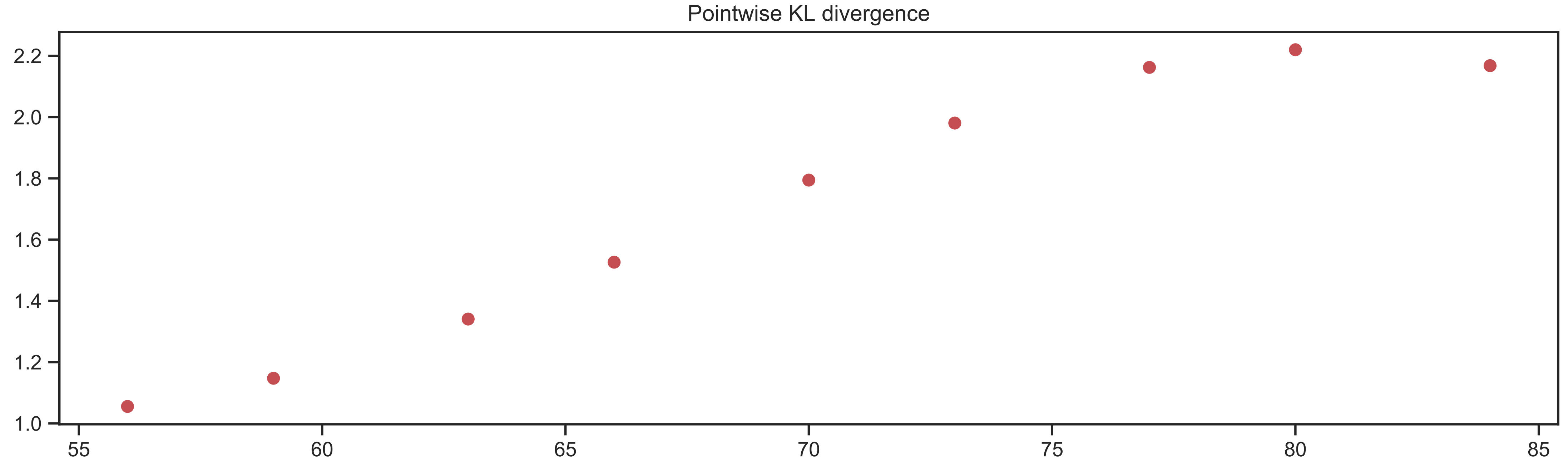
mRECIST: (0,0,9,3
kl: 0.025991603182192655
response_angle_rel: 0:0.010222131560027096_1:0.02096735765721746_2:0.009166867083270667_3:0.003920891725755964_4:0.016907710525921597_5:0.0177819262 203814176121220 64
response_angle_rel_control: 0:0.014954094578070575_1:0.00602002464682197_2:0.010838299766725401_3:0.006989717938356795_4:0.02267190611215797_5:0.01784 3_11:0.01611675419786186
auc_norm: 0:0.2707890442197474_1:0.36710456096190763_2:0.22497632260362624_3:0.13775444360539157_4:0.30228026932553614_5:0.36086504361552313_6:0.280
auc_control_norm: 0:[0.31448813]_1:[0.15715069]_2:[0.27451149]_3:[0.15153708]_4:[0.32987134]_5:[0.37041649]_6:[0.32409239]_7:[0.31076123]_8:[0.17286281]_9:[0.2675
tgi: -0.06324867320214334
red = treatment,   blue=control

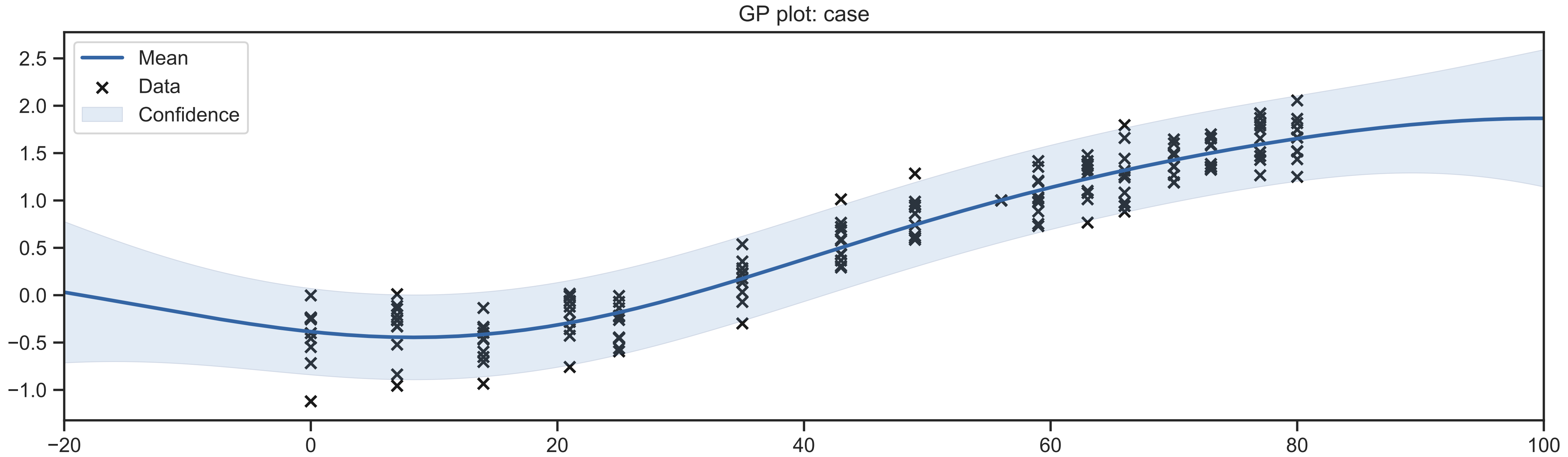
P12*C4

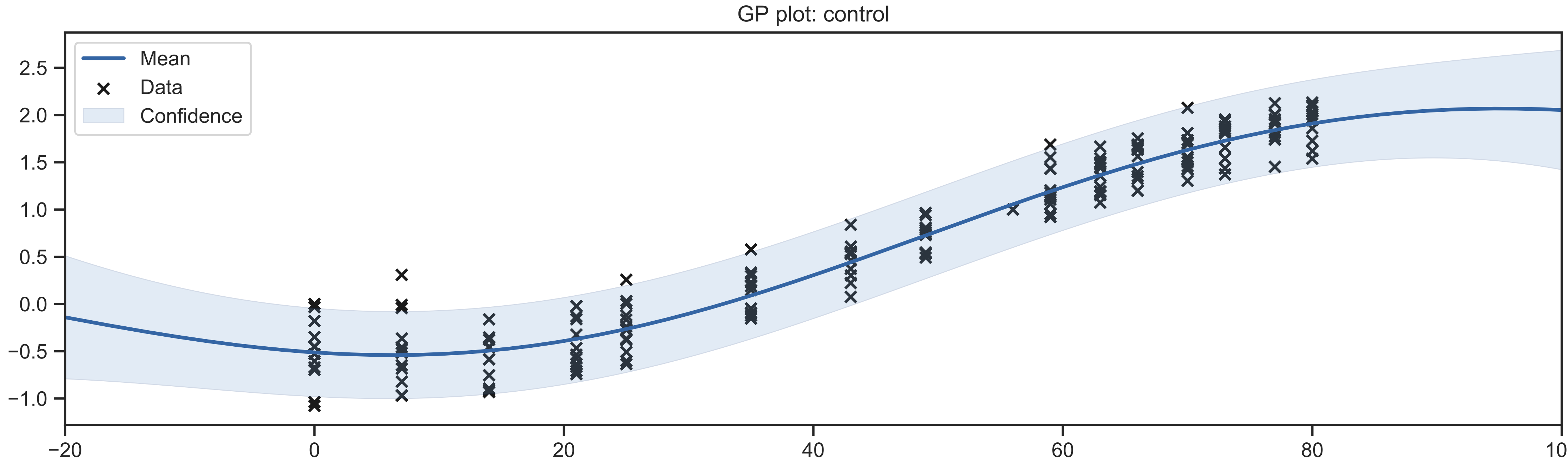


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

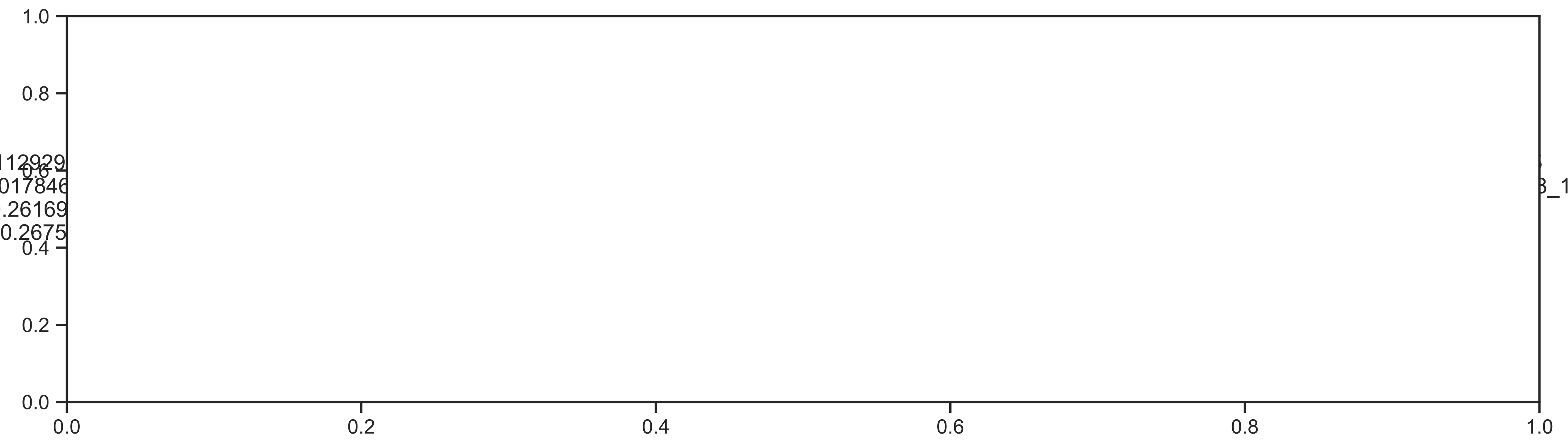




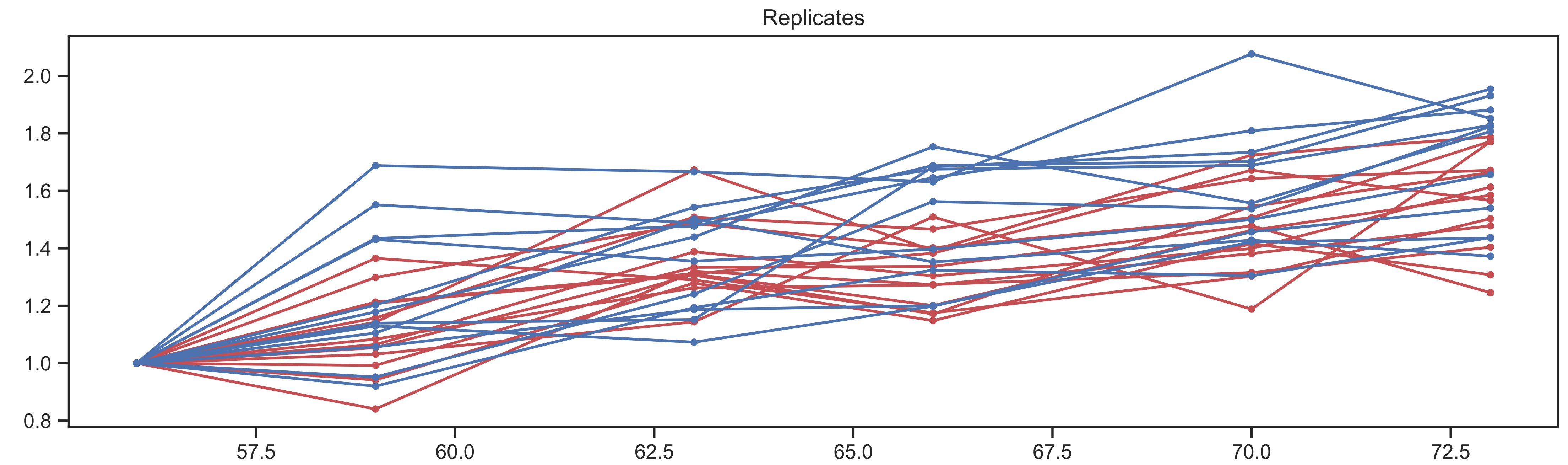




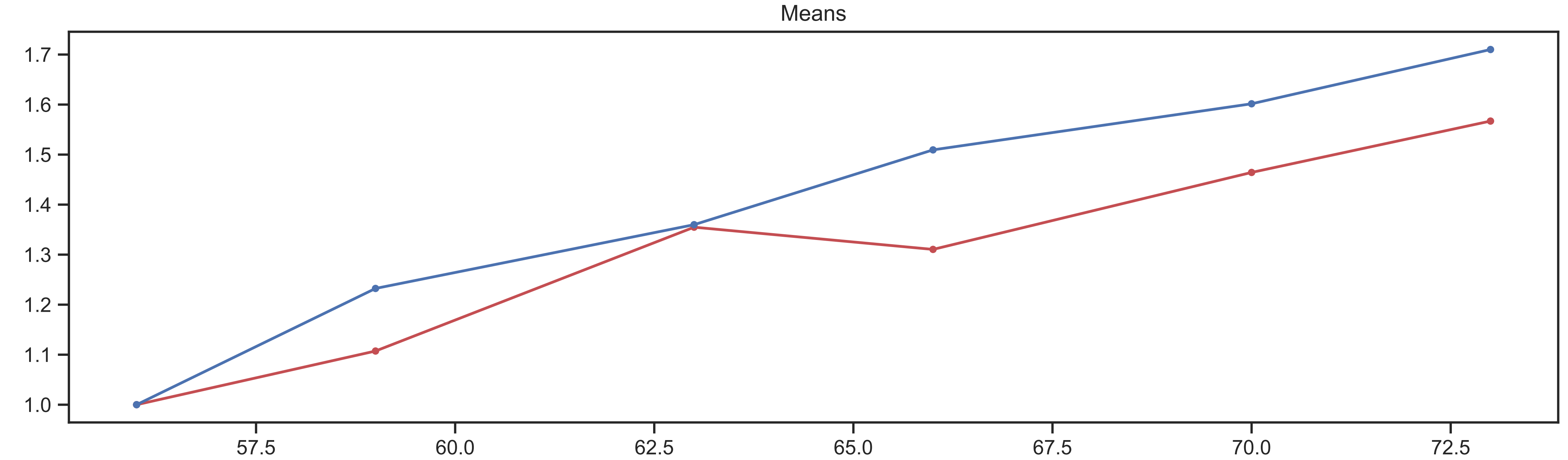
mRECIST: (0,0,9,2
kl: 0.7351374159292559
response_angle_rel: 0:0.005185781248843457 5_1:0.016202955802064316_2:0.003384085738541 2032_3:0.004113998099244584 6_4:0.007102385267461069_5:0.0112929
response_angle_rel_control: 0:0.014954094578070575_1:0.0060200246468219 7_2:0.010838299766725401_3:0.006989717938356795_4:0.02267190611215797_5:0.017846
8_11:0.016111675419786186
auc_norm: 0:0.04313727186357405_1:0.3395058191154801_2:0.12282512465017172_3:0.132852844732654_4:0.1042456359580839 8_5:0.24858628076849495_6:0.26169
auc_control_norm: 0:[0.31448813]_1:[0.15715069]_2:[0.27451149]_3:[0.15153708]_4:[0.32987134]_5:[0.37041649]_6:[0.32409239]_7:[0.31076123]_8:[0.17286281]_9:[0.2675
tgi: 0.19673506832204912
red = treatment,   blue=control

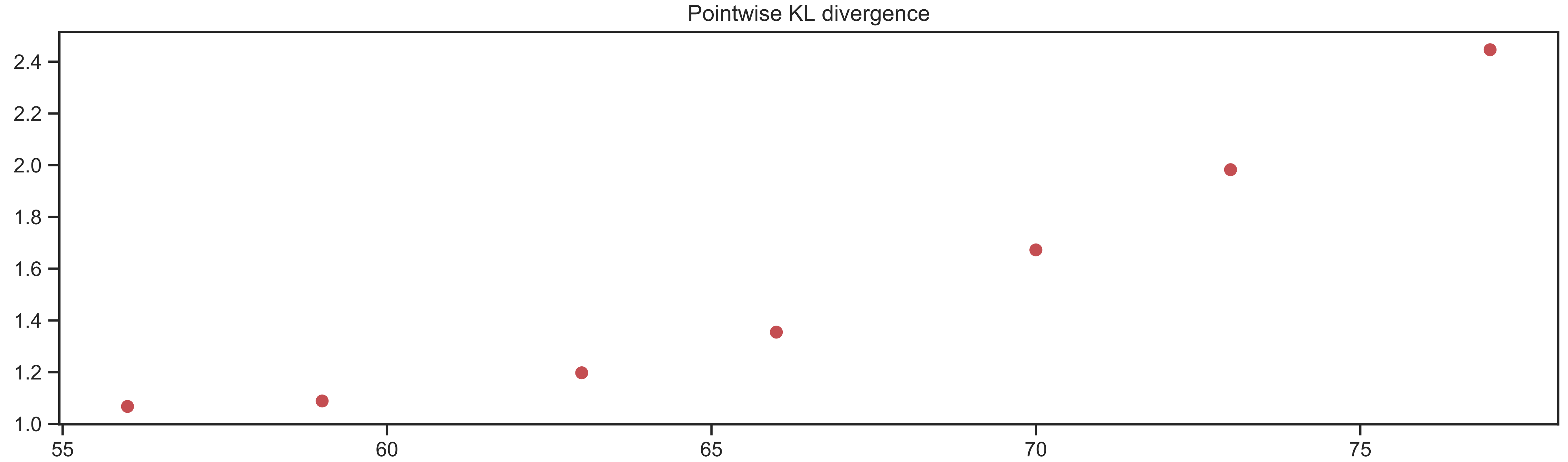


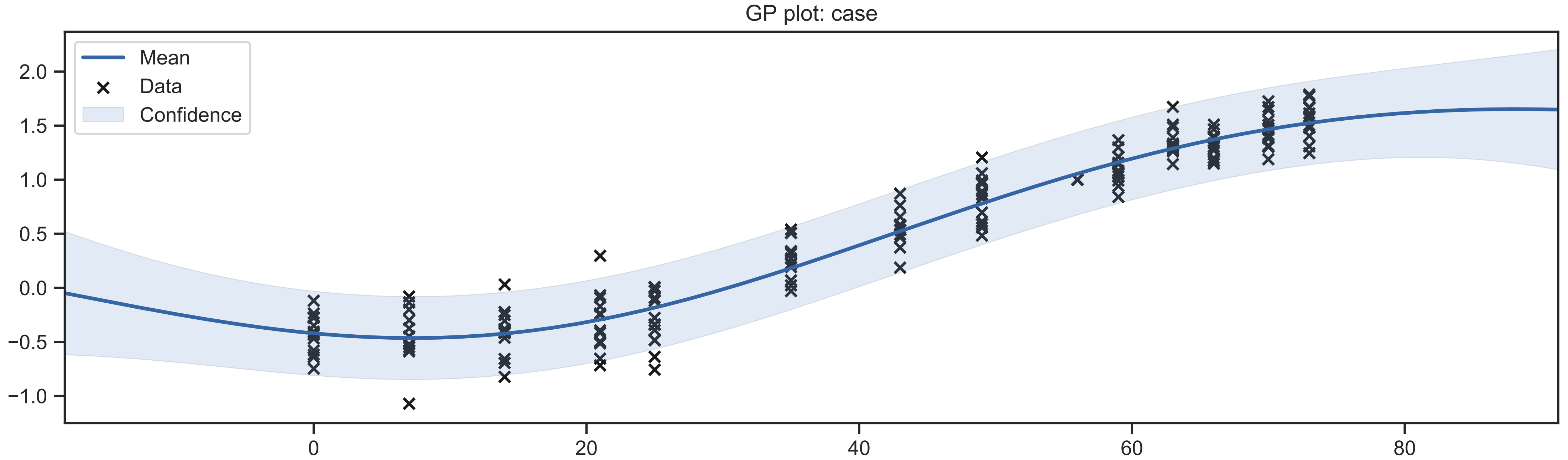
P12*C5

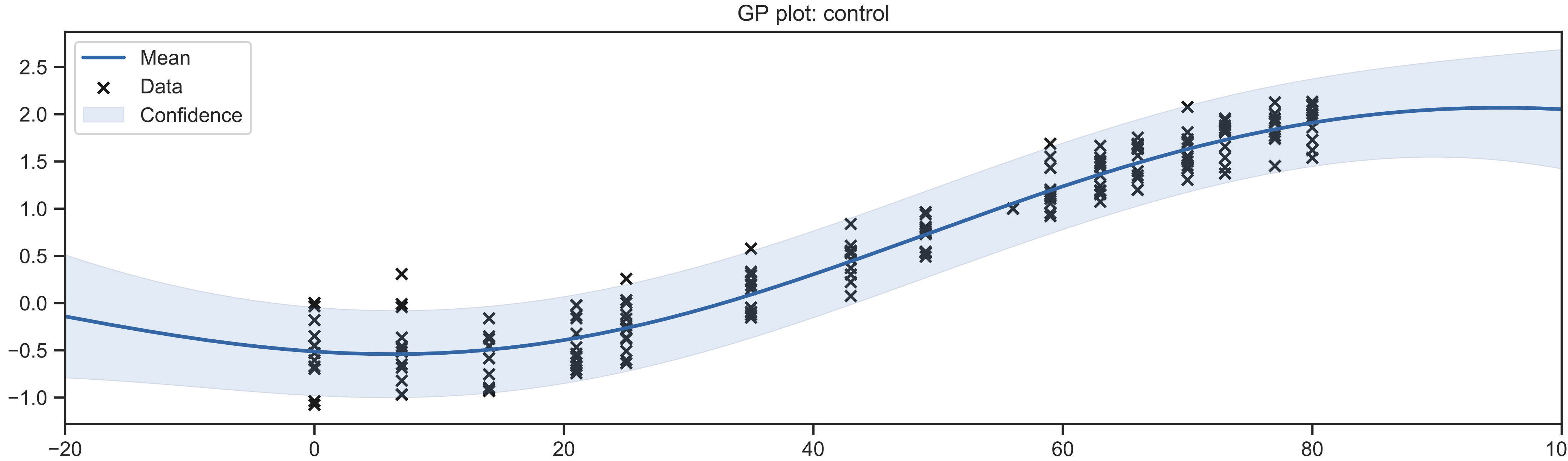

Replicates

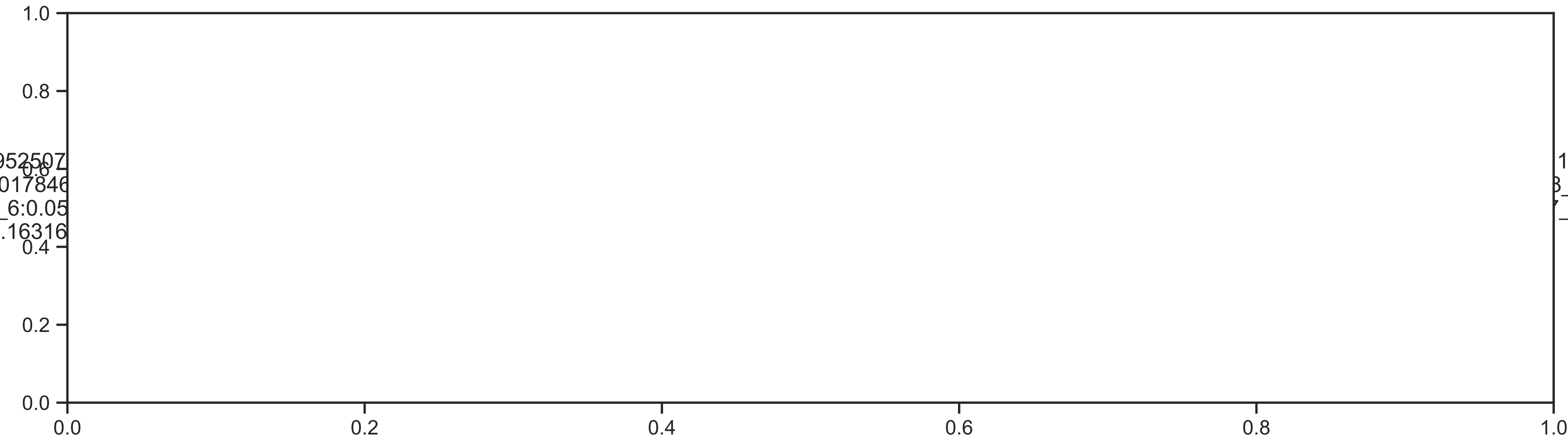
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N


Means


Pointwise KL divergence

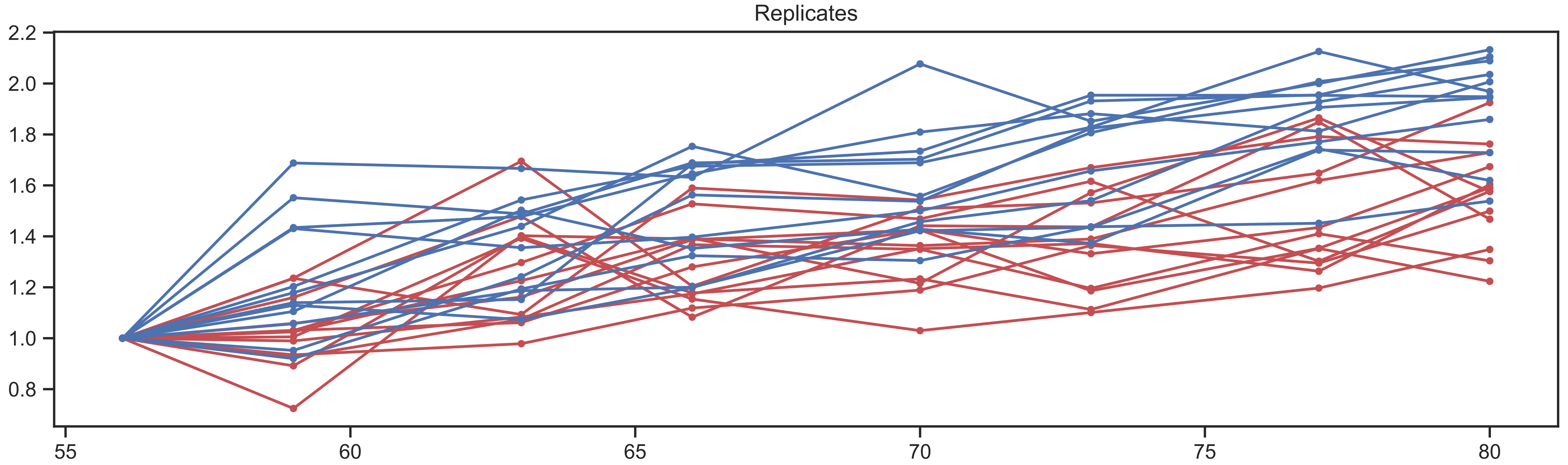

GP plot: case


GP plot: control

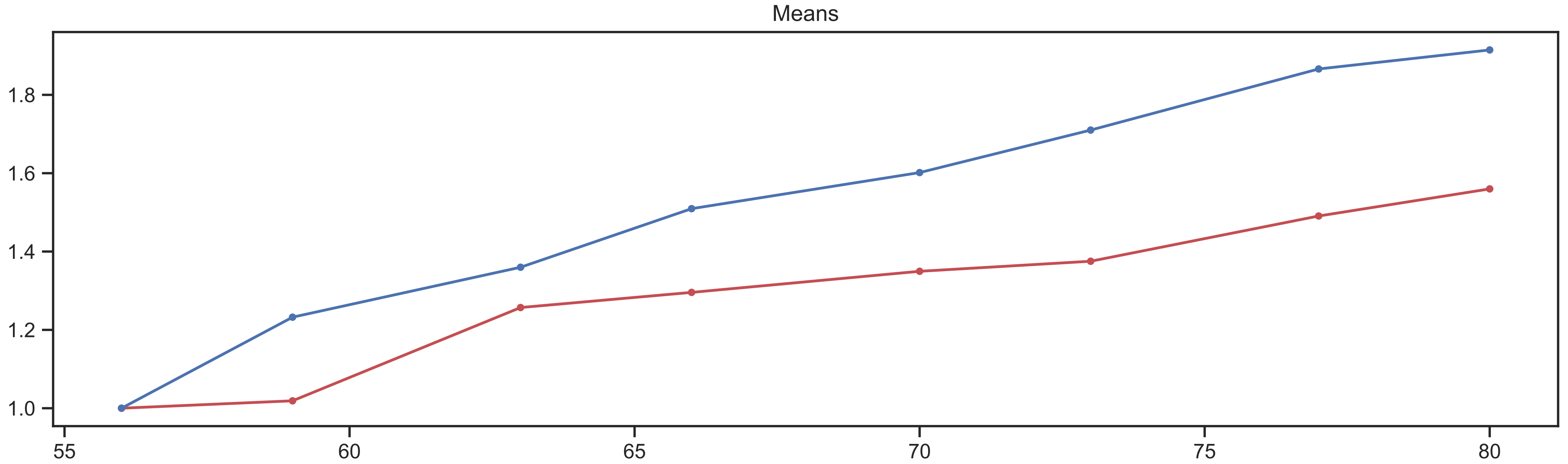


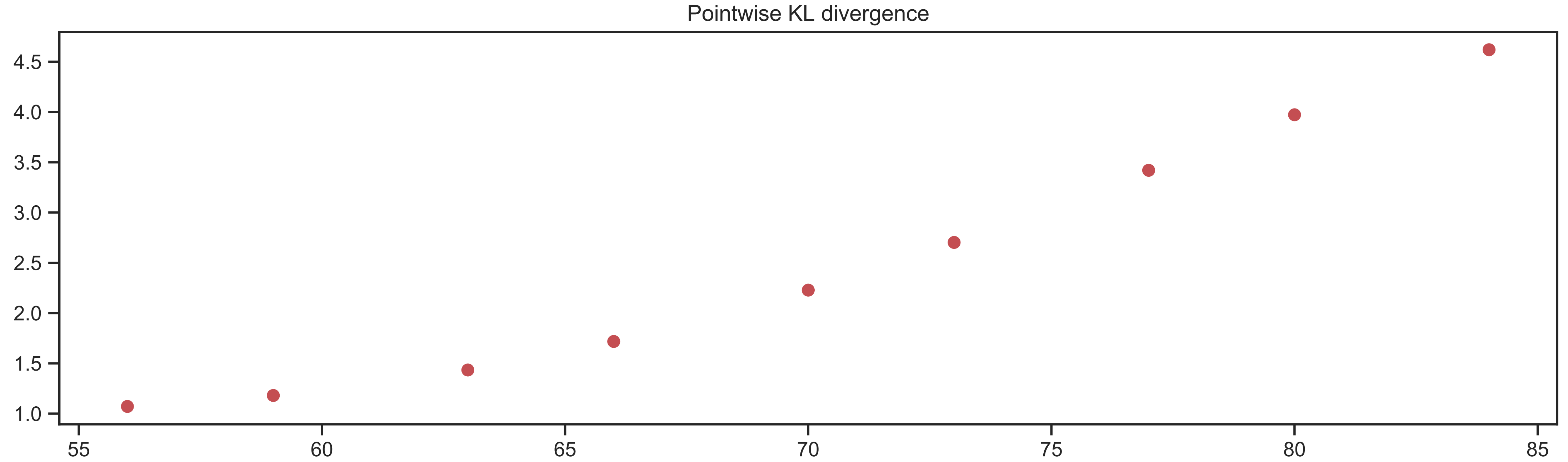
mRECIST: (0,0,11,2
kl: 0.5193458310763831
response_angle_rel: 0:0.00044190252594922985_1:0.0015998229378182322_2:0.005539260304608958_3:0.00761780610584817_4:0.006442138049369386_5:0.00952507 1:0.014301584209656038_12:0.01153056
response_angle_rel_control: 0:0.014954094578070575_1:0.00602002464682197_2:0.010838299766725401_3:0.006989717938356795_4:0.02267190611215797_5:0.017846 _11:0.01611675419786186
auc_norm: 0:0.13548807794661993_1:0.18193591892345756_2:0.04678520199312945_3:0.27444794648680393_4:0.09121946533133918_5:0.15642985182850305_6:0.05
auc_control_norm: 0:[0.25271854]_1:[0.12462397]_2:[0.21660912]_3:[0.11585689]_4:[0.24862296]_5:[0.31456385]_6:[0.27660632]_7:[0.3127237]_8:[0.08473439]_9:[0.16316 _12:0.1799070906607107
tgi: 0.28232982698537756
red = treatment,   blue=control

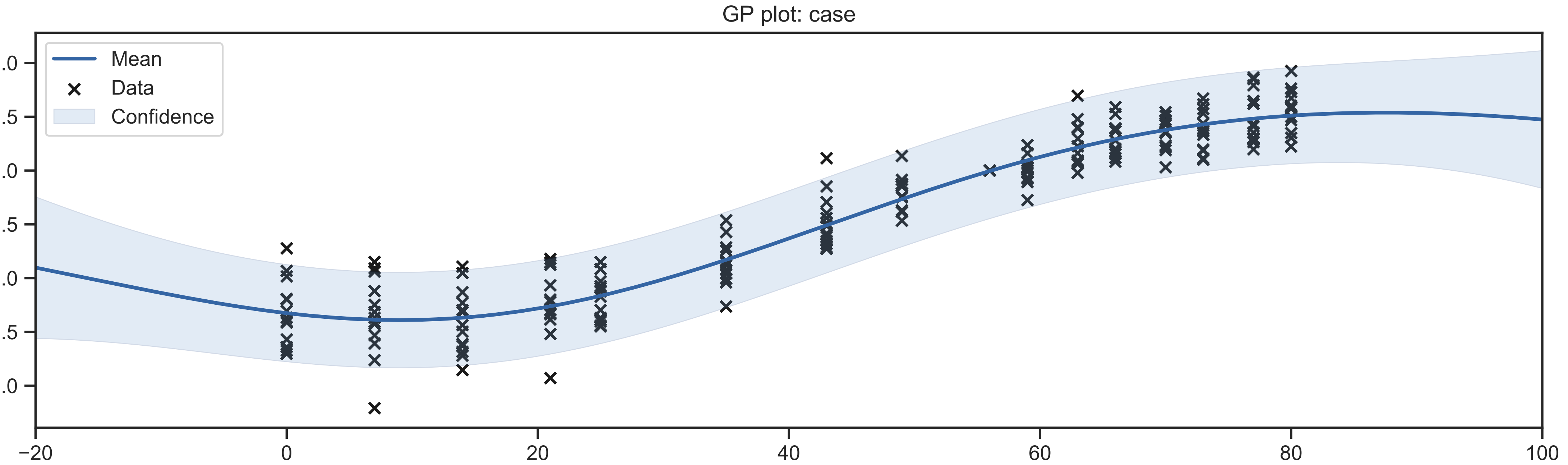
P12*C6

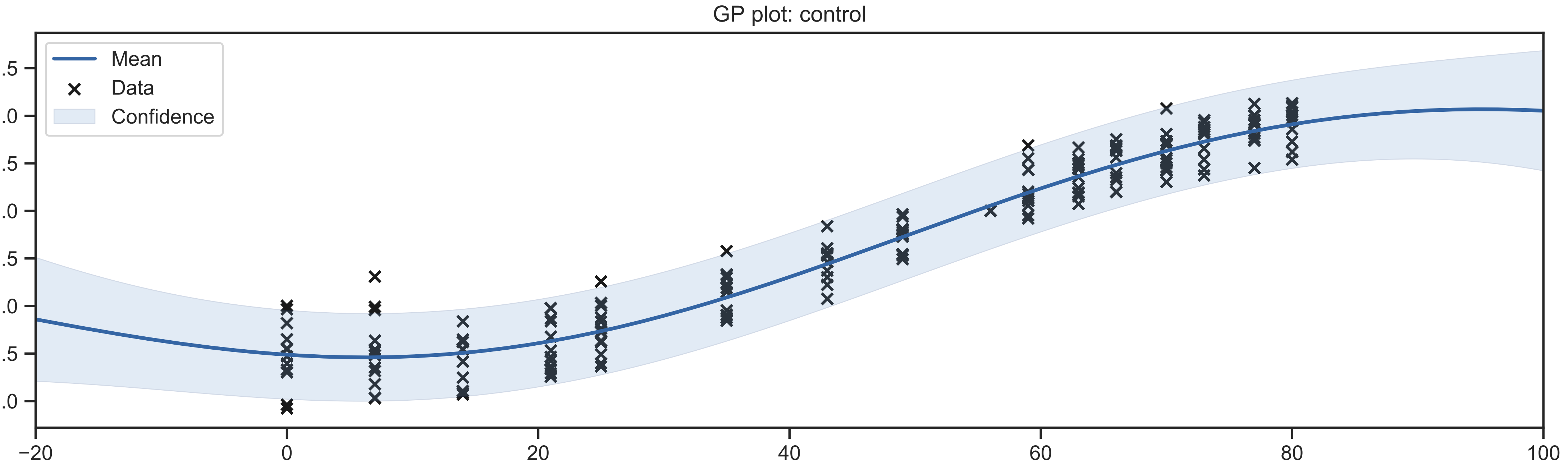


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

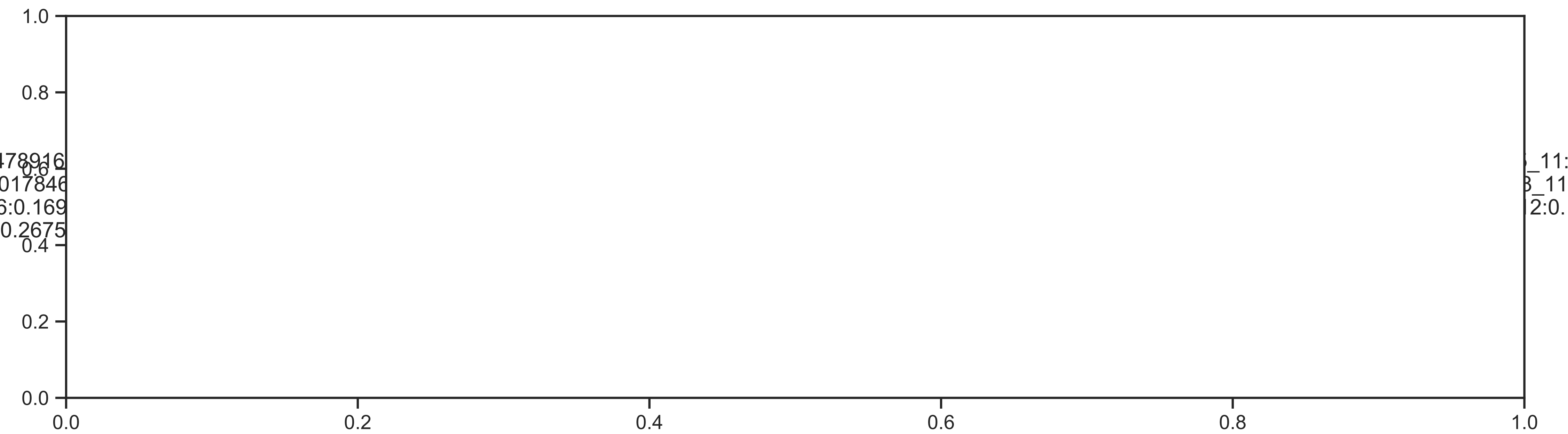




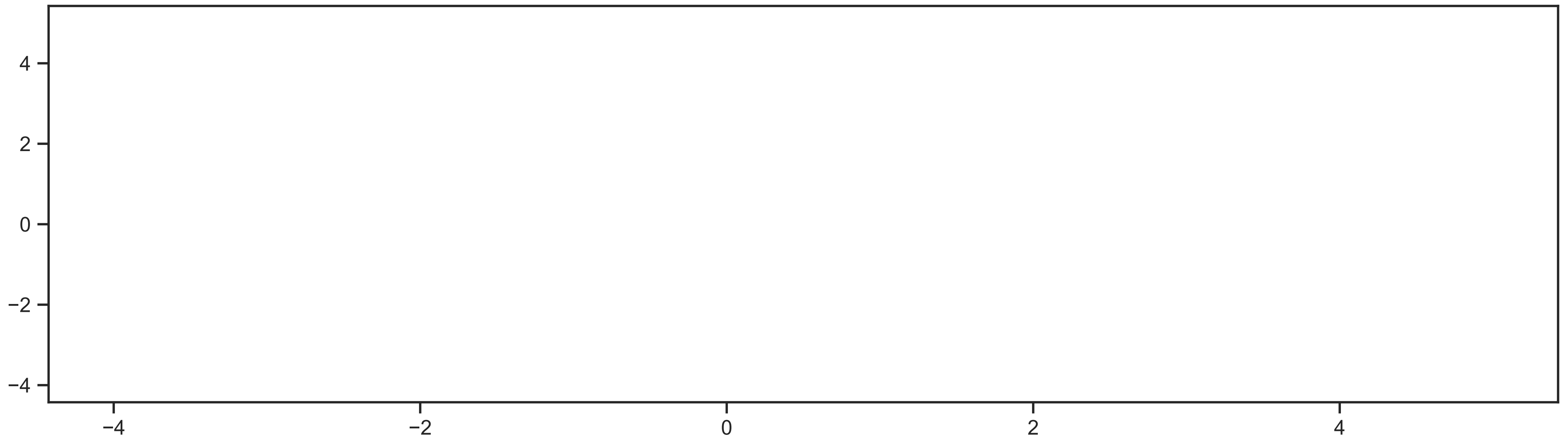




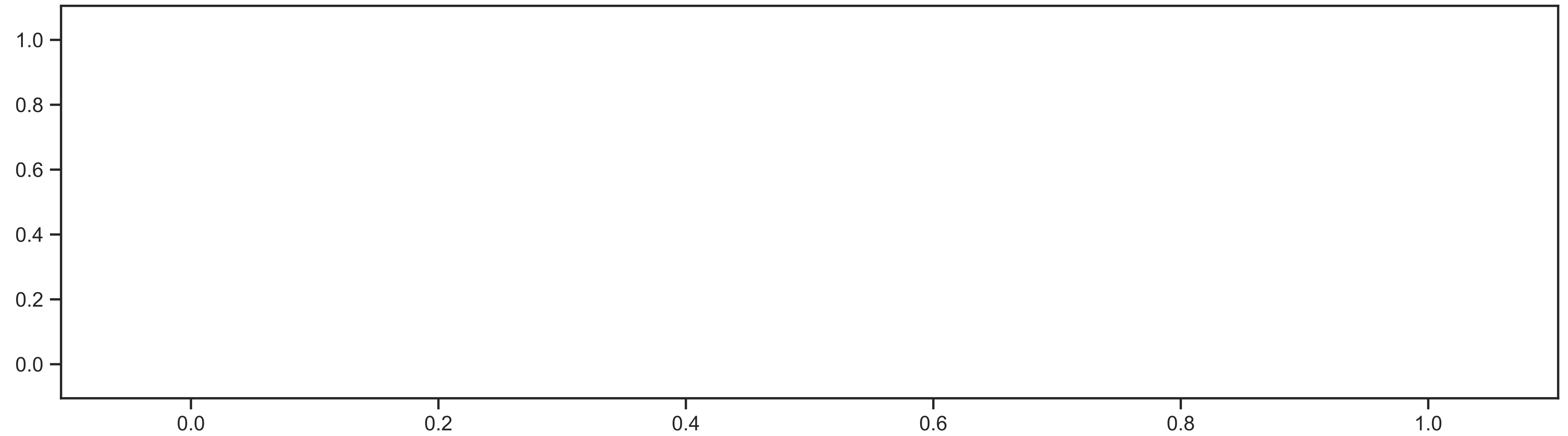
mRECIST: (0,0,13,0
kl: 1.465389316894354
response_angle_rel: 0:0.0033597017328181058_1:0.0038974963691942493_2:0.0068278674350130365_3:0.00594621844351718_4:0.005267723190052882_5:0.00478916 _11:0.0074610956666498265_12:0.00806
response_angle_rel_control: 0:0.014954094578070575_1:0.00602002464682197_2:0.010838299766725401_3:0.006989717938356795_4:0.02267190611215797_5:0.01784 _11:0.01611675419786186
auc_norm: 0:0.00757384448668498_1:0.16263561522536316_2:0.20109908631277423_3:0.20120786550448144_4:0.17126892167889257_5:0.0725555475211297_6:0.169 2:0.16543512899976454
auc_control_norm: 0:[0.31448813]_1:[0.15715069]_2:[0.27451149]_3:[0.15153708]_4:[0.32987134]_5:[0.37041649]_6:[0.32409239]_7:[0.31076123]_8:[0.17286281]_9:[0.2675
tgi: 0.4757623562734449
red = treatment,   blue=control

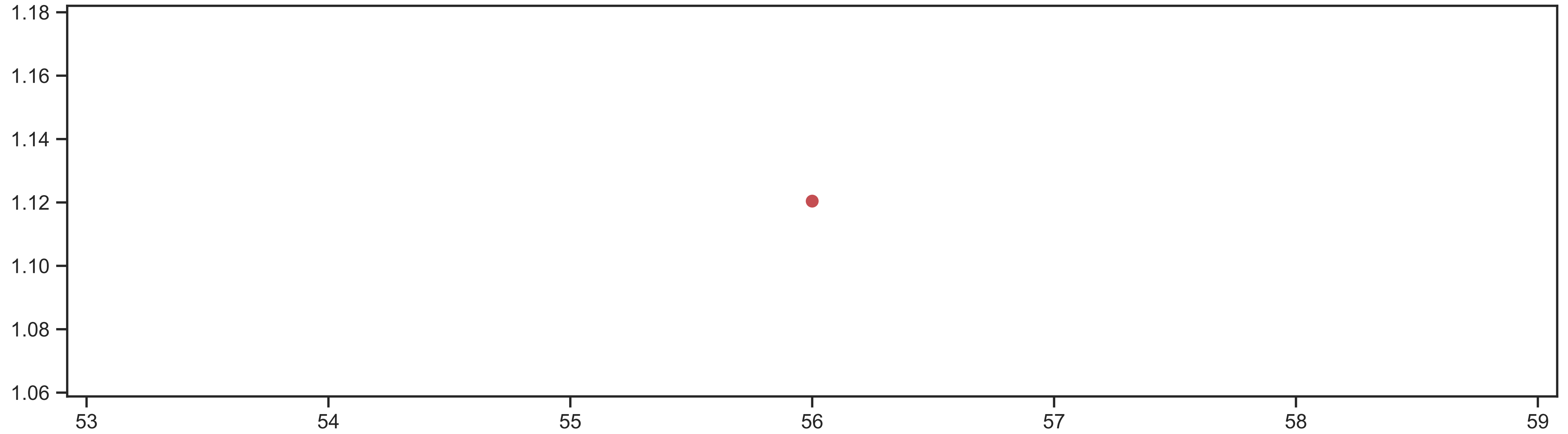


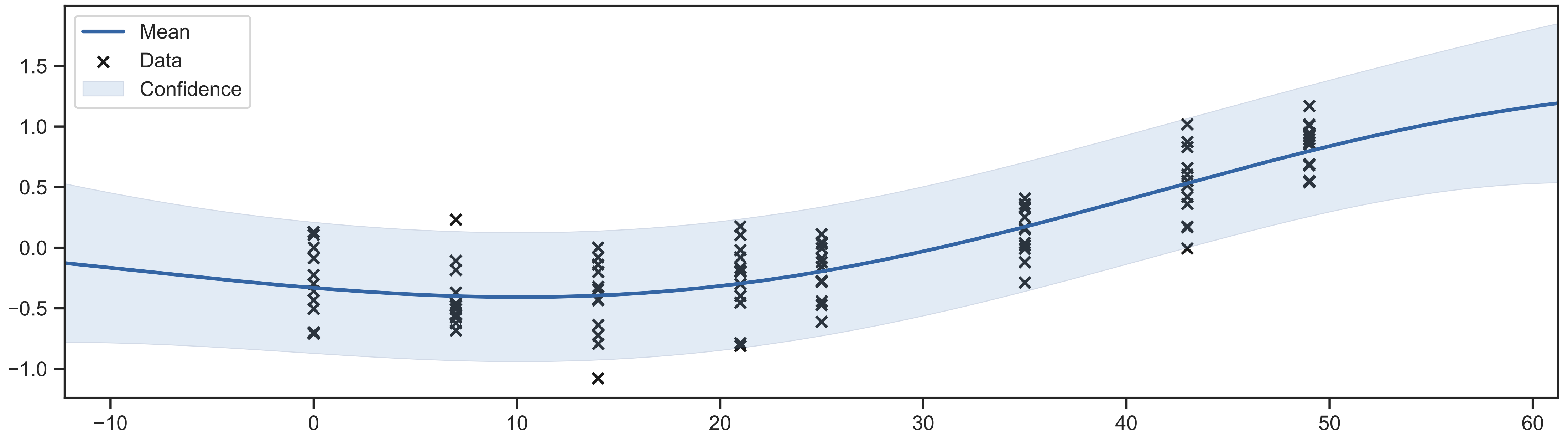
P12*C7

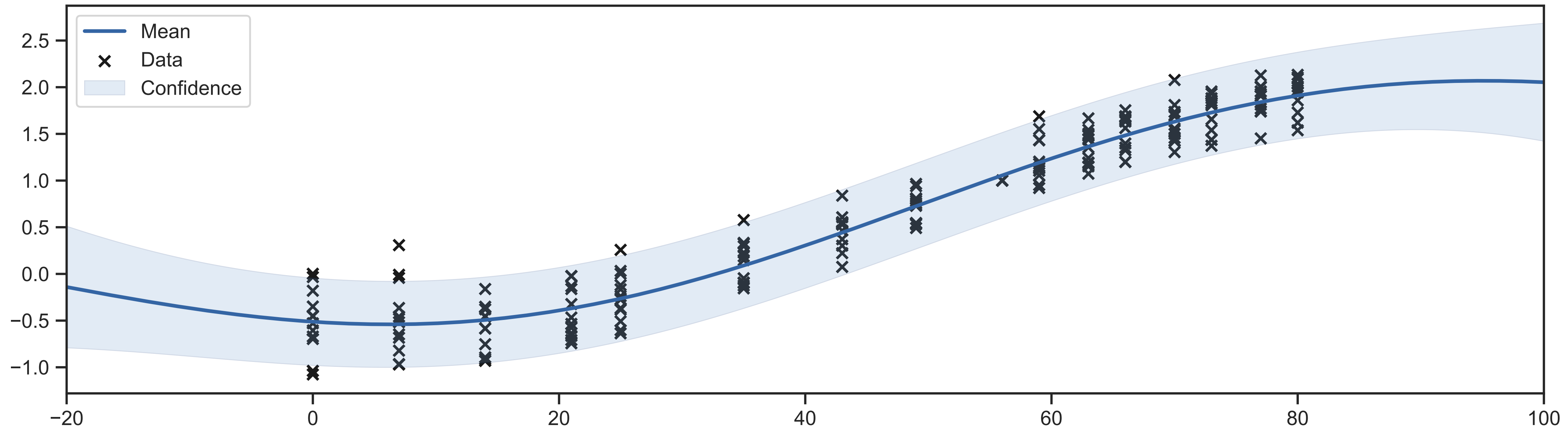

Replicates

KuLGaP: Y
KuLGaP2: N
mRECIST (Novartis): N/a
mRECIST (ours): N/a
Angle: Y
AUC: Y
TGI: N/a

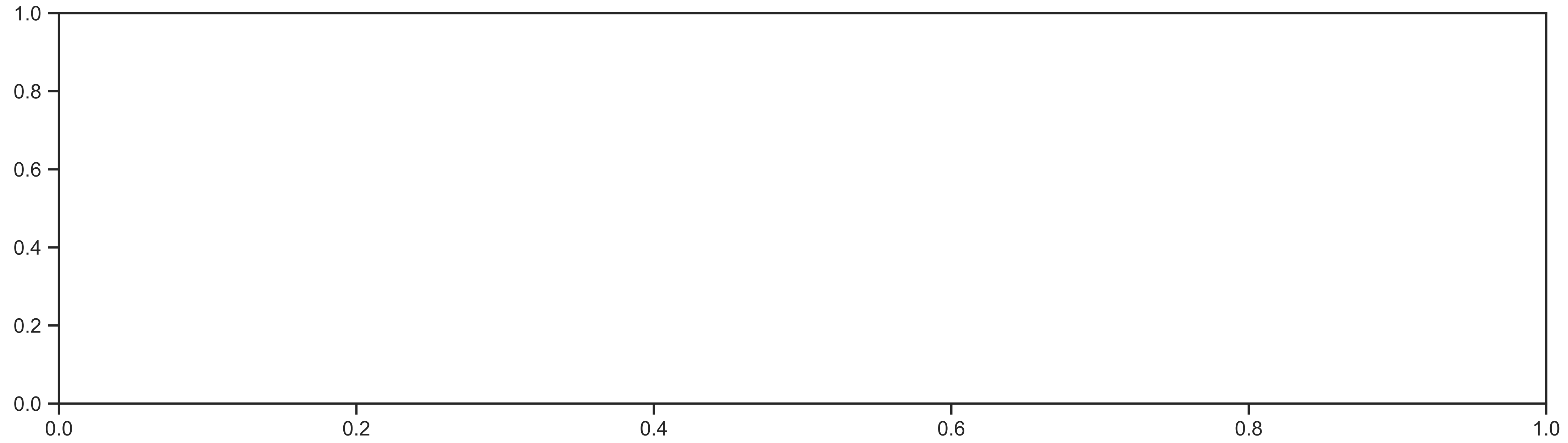

Means


Pointwise KL divergence

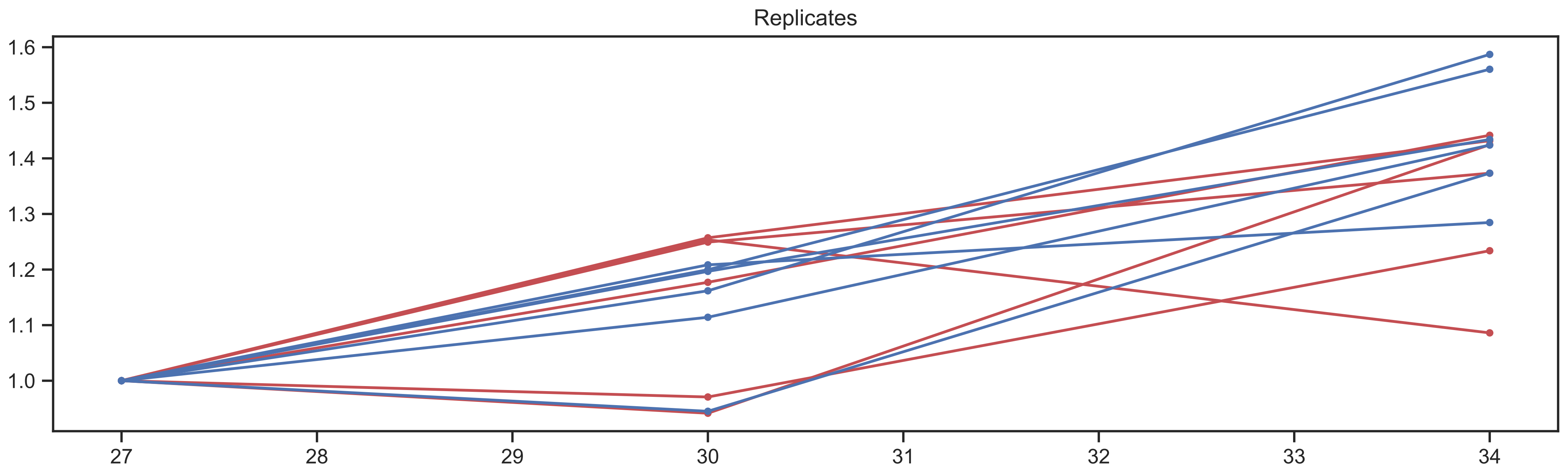

GP plot: case


GP plot: control

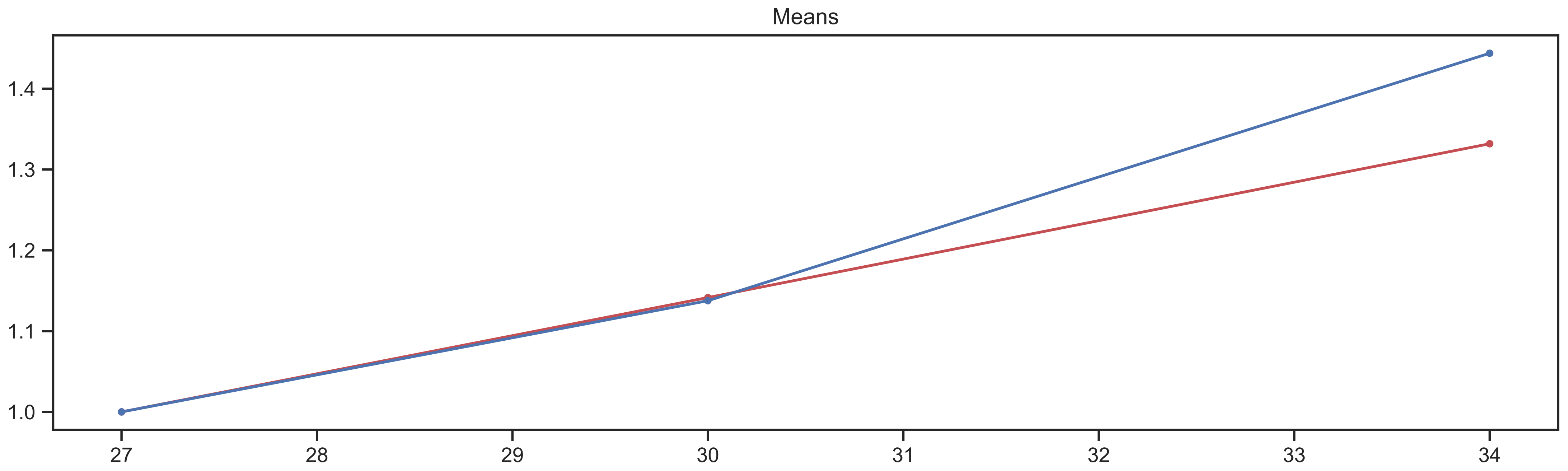
mRECIST: (None,None,None,None
kl: None
response_angle_rel: nan
response_angle_rel_control: nan
auc_norm: None
auc_control_norm: None
tgi: None
red = treatment,   blue=control

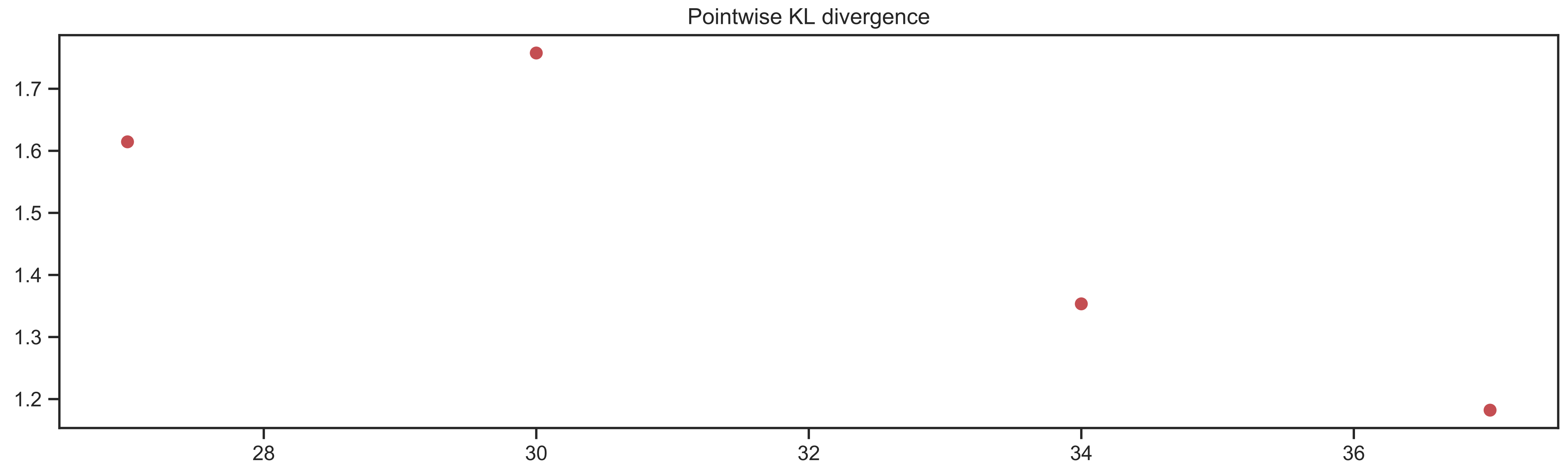


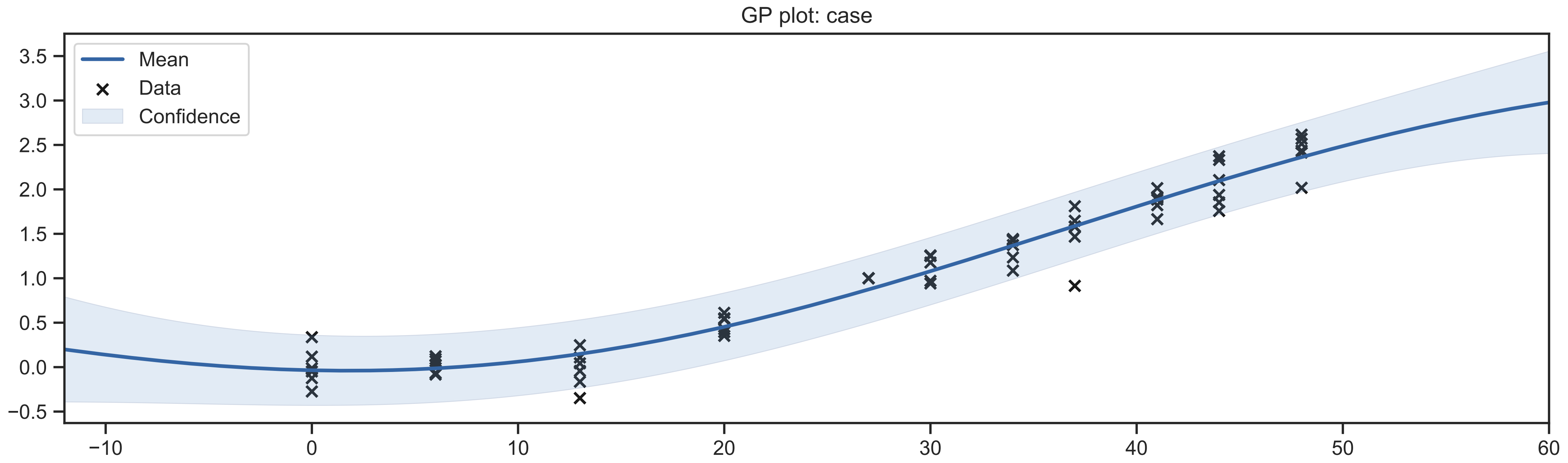
P13*C1

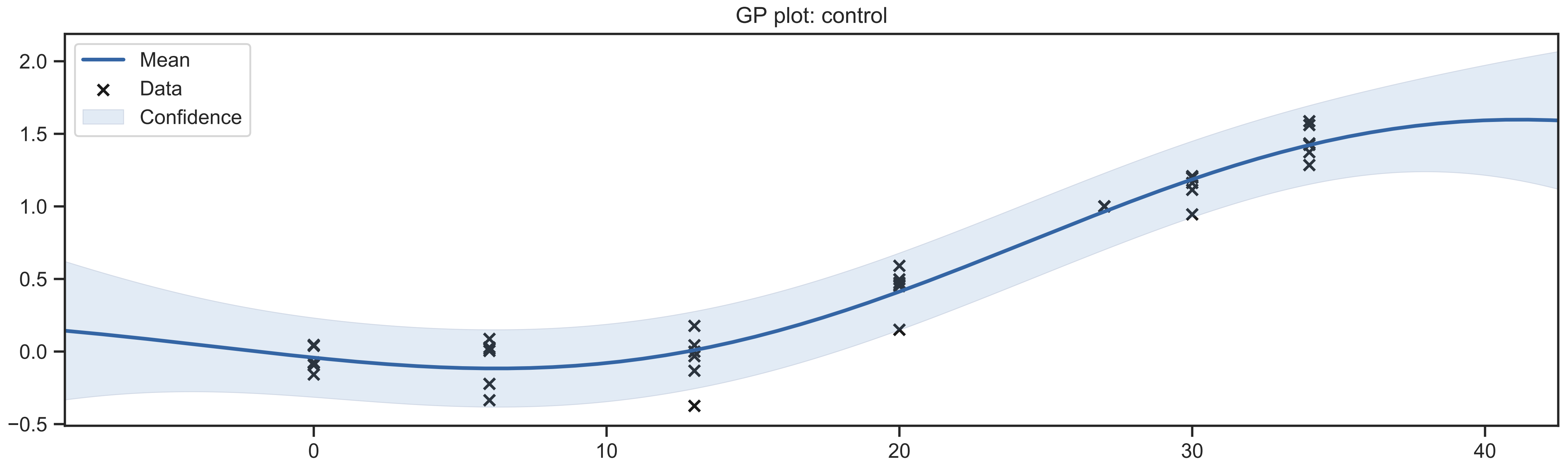


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N

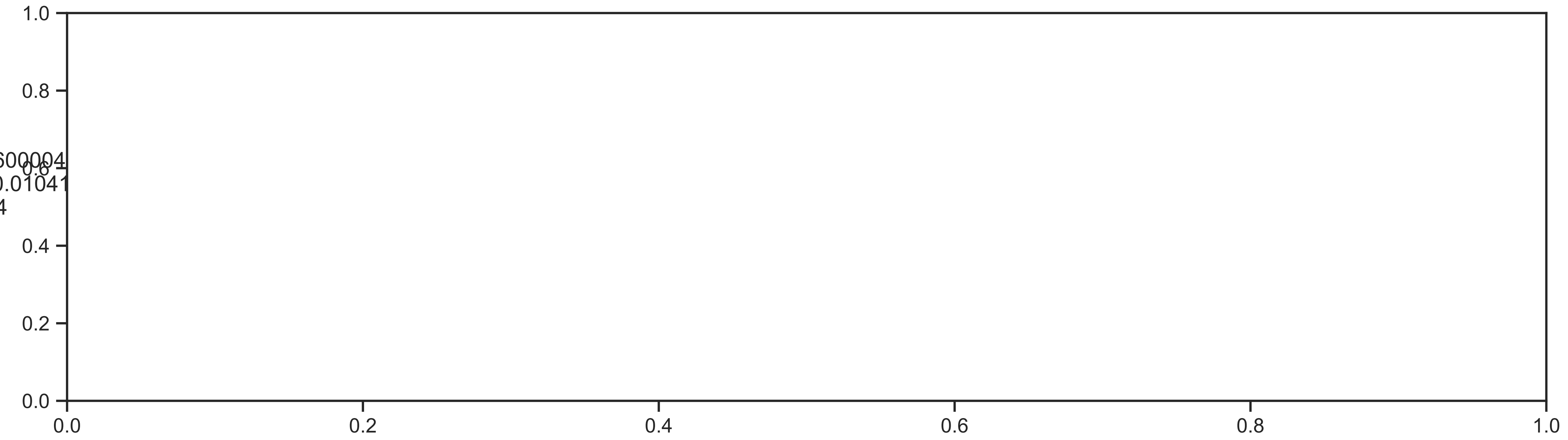




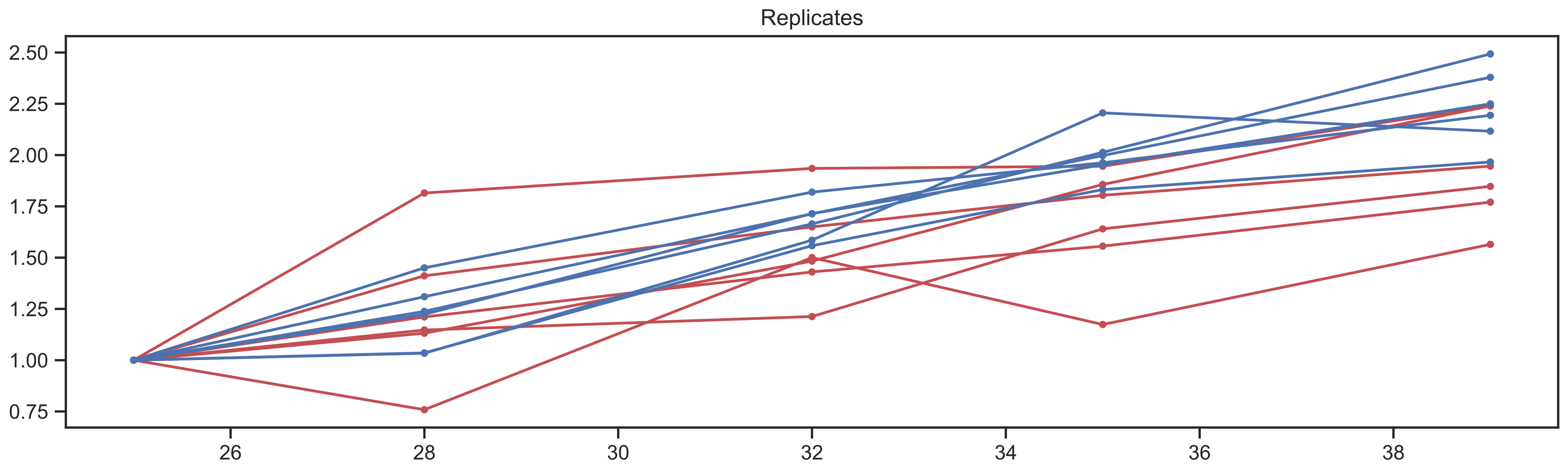




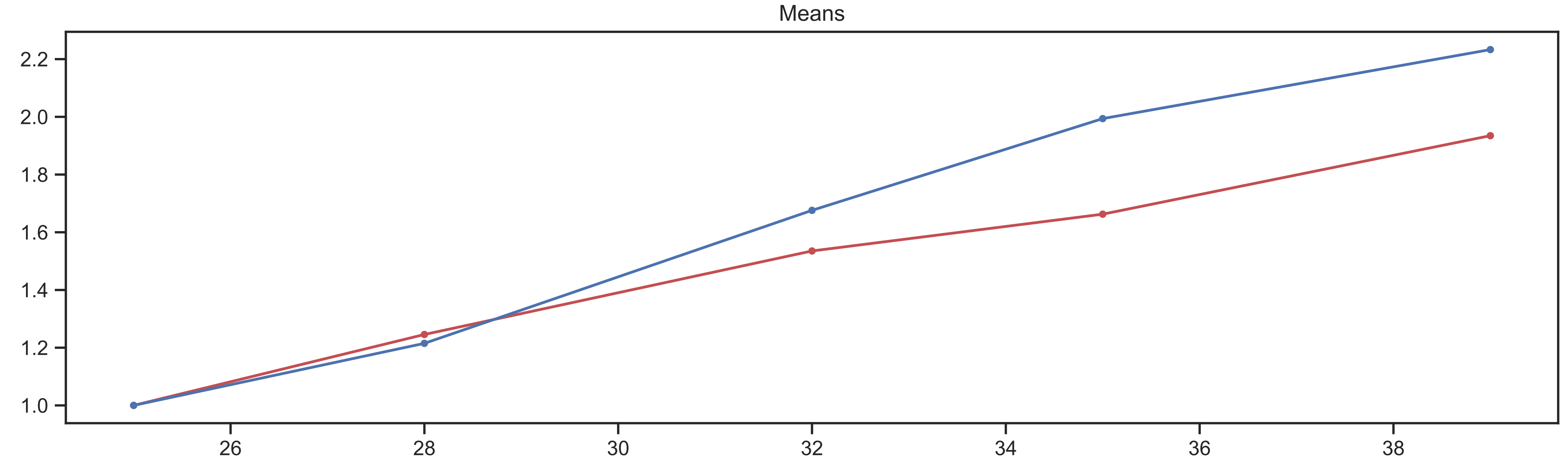
mRECIST: (0,0,6,0
kl: 0.5172547390465246
response_angle_rel: 0:0.03622934812990265_1:0.0563898924874007762:0.04447412795319729_3:0.02522627060518862_4:0.040943268454697784_5:0.0544877600004
response_angle_rel_control: 0:0.019239517226198363_1:0.023236108451800585_2:0.009668780286622908_3:0.023398795283901994:0.012669081055404234_5:0.01041
auc_norm: 0:0.05600124410545342_1:0.12932781278149574_2:0.11409632582023761_3:0.042626782331412746_4:0.10126429512594813_5:0.12512099036593524
auc_control_norm: 0:[0.15669028]_1:[0.12487342]_2:[0.11546869]_3:[0.1602211]_4:[0.08849985]_5:[0.08873542]
tgi: 0.34331994353686535
red = treatment,   blue=control

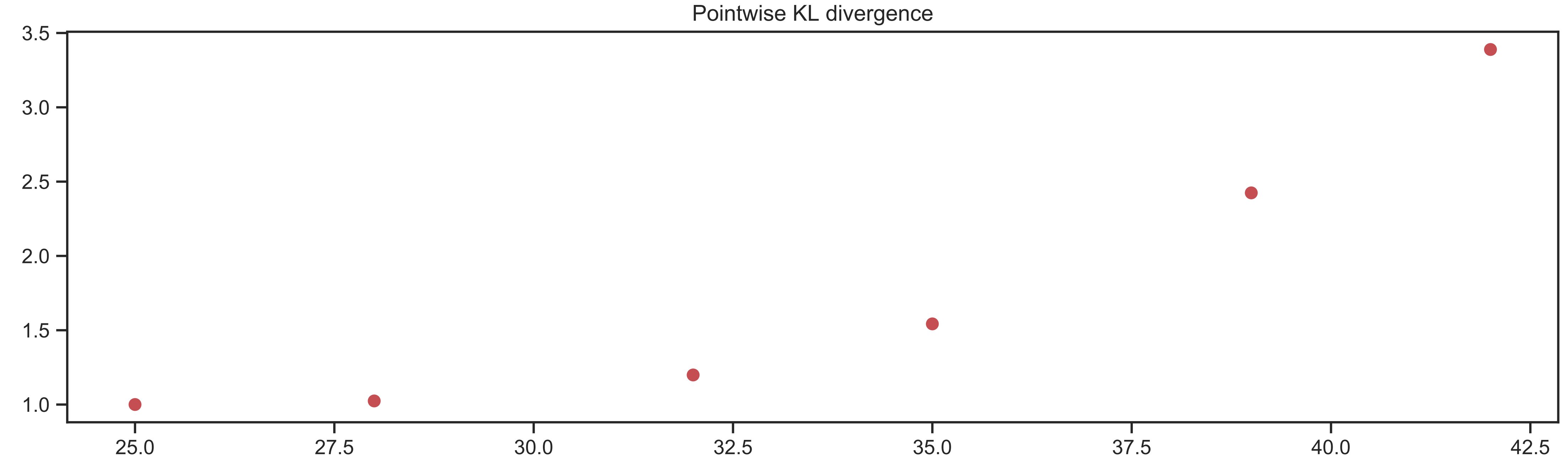


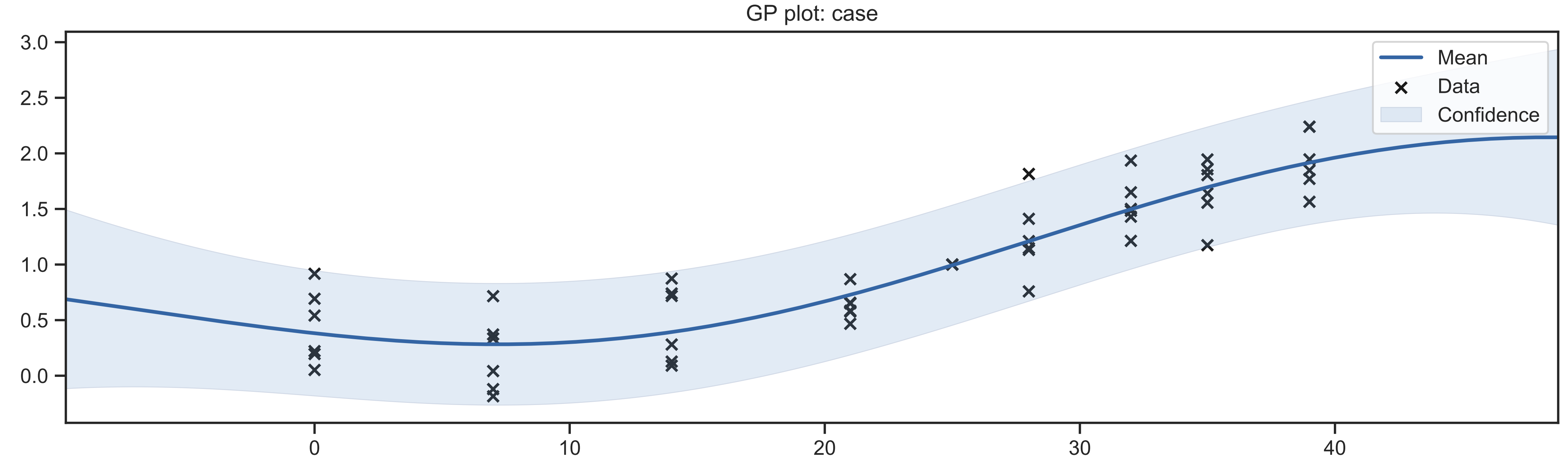
P14*C1

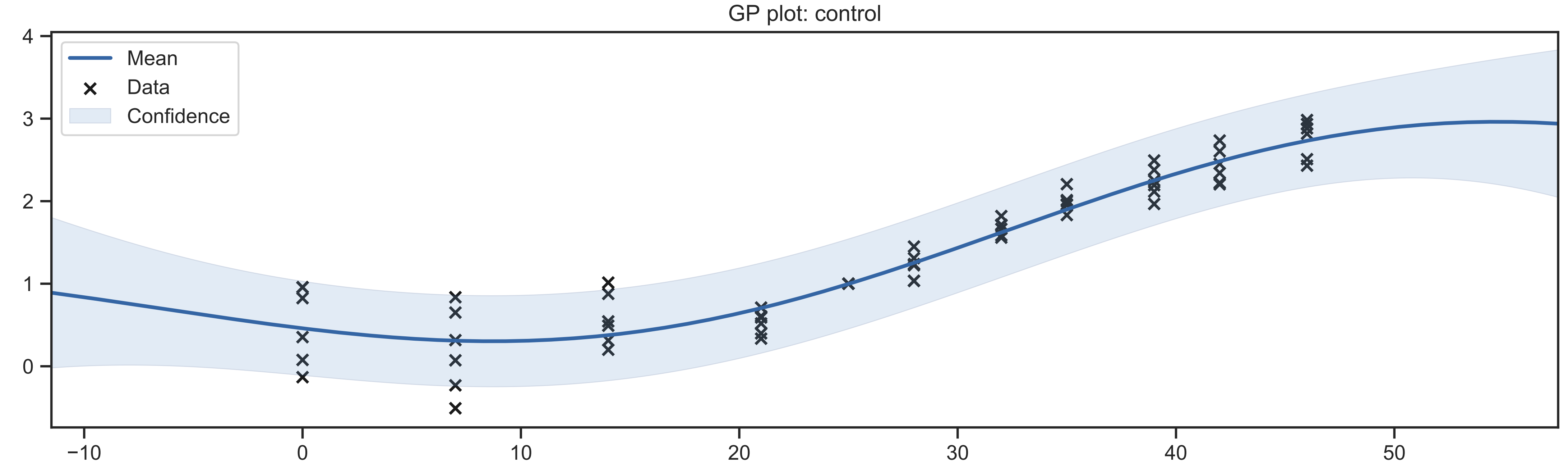

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N

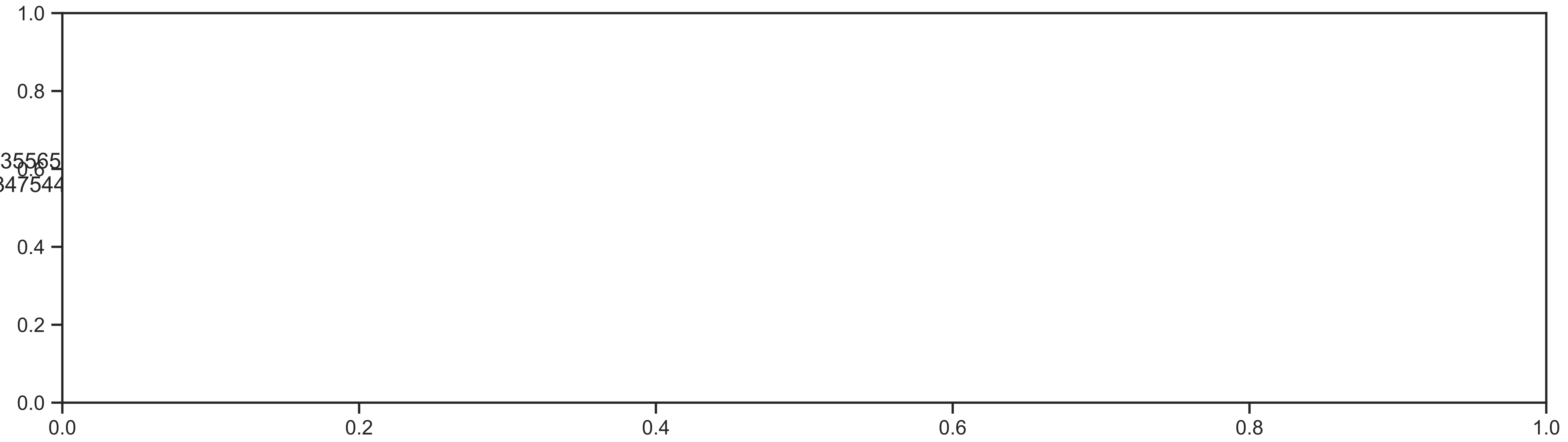

Means


Pointwise KL divergence

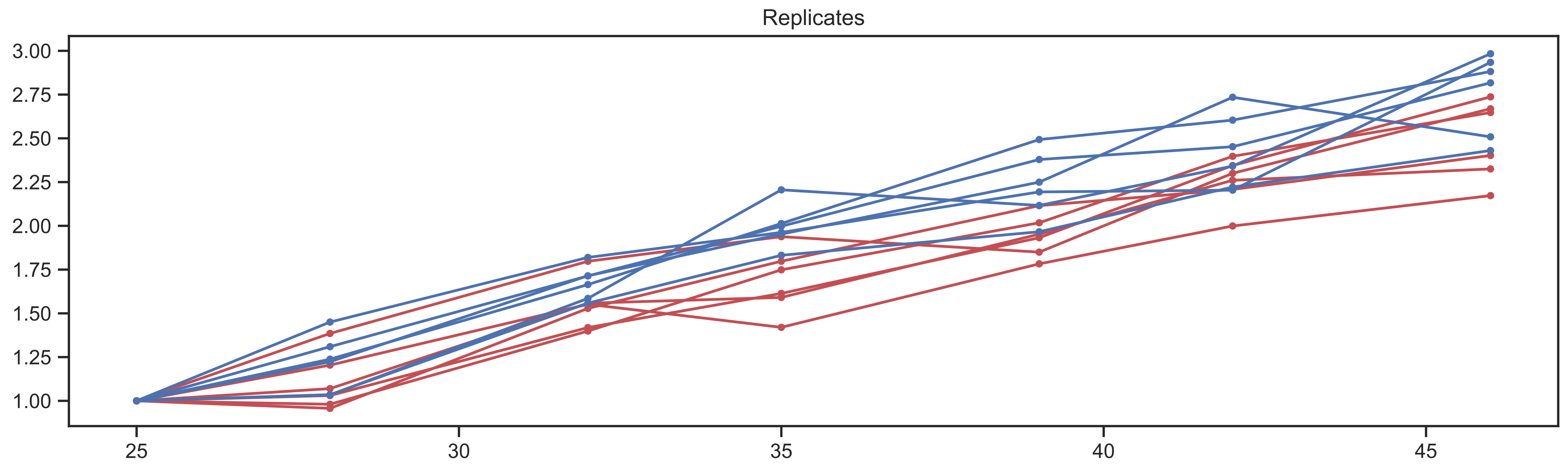

GP plot: case


GP plot: control

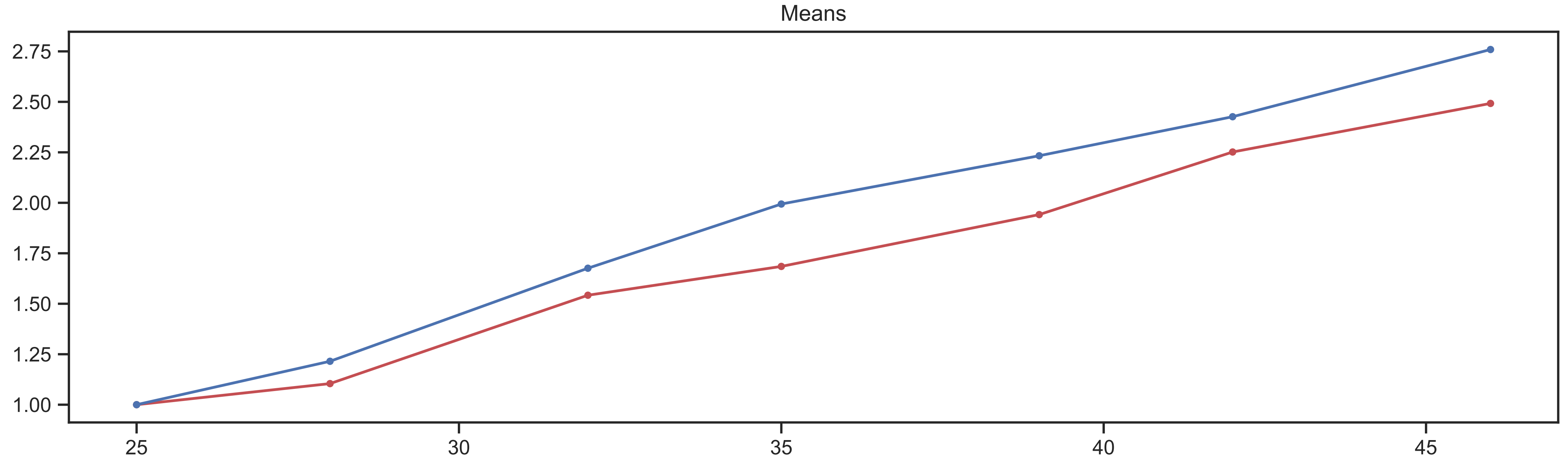
mRECIST: (0,0,4,2
kl: 0.6398218110429189
response_angle_rel: 0:0.026846253759075938_1:0.08185006313017133_2:0.035022182000645205_3:0.006080353102619231_4:0.039815059269327074_5:0.05604535565
response_angle_rel_control: 0:0.07228127847750303_1:0.07260675726807773_2:0.06818673838665455_3:0.054667060127374746_4:0.07440356284947348_5:0.07347544
auc_norm: 0:0.09380395411558945_1:0.37883946415981884_2:0.283637042967291_3:0.22063162954516266_4:0.2596620794790025_5:0.3519225507570431
auc_control_norm: 0:[0.34781484]_1:[0.39415132]_2:[0.35086134]_3:[0.2672822]_4:[0.333601]_5:[0.42213747]
tgi: 0.1835240310667452
red = treatment,   blue=control

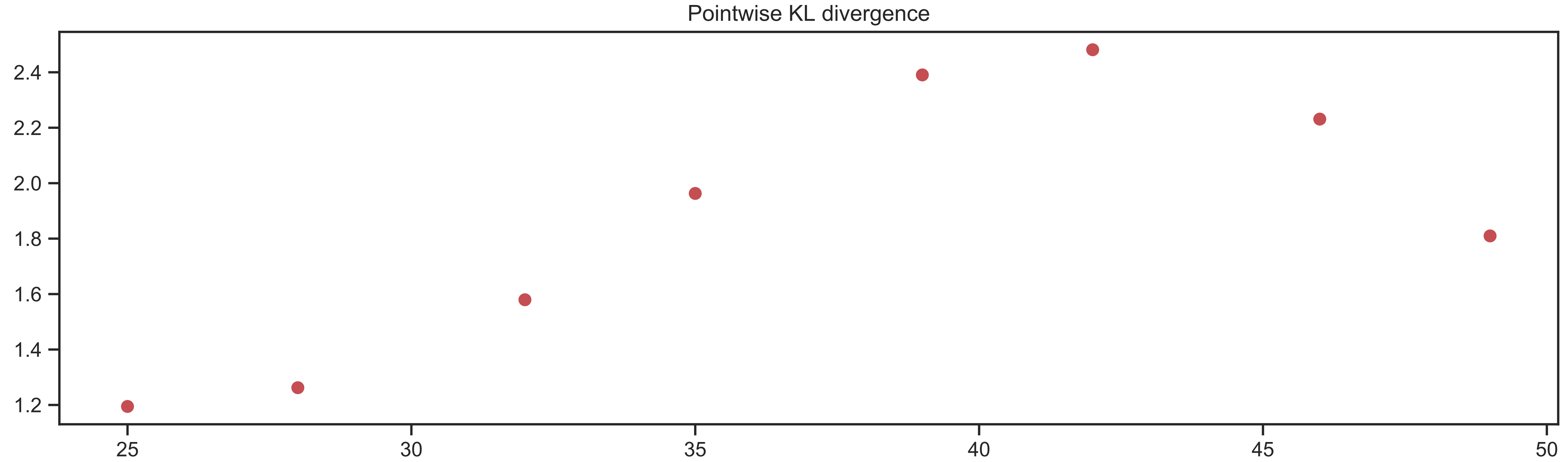


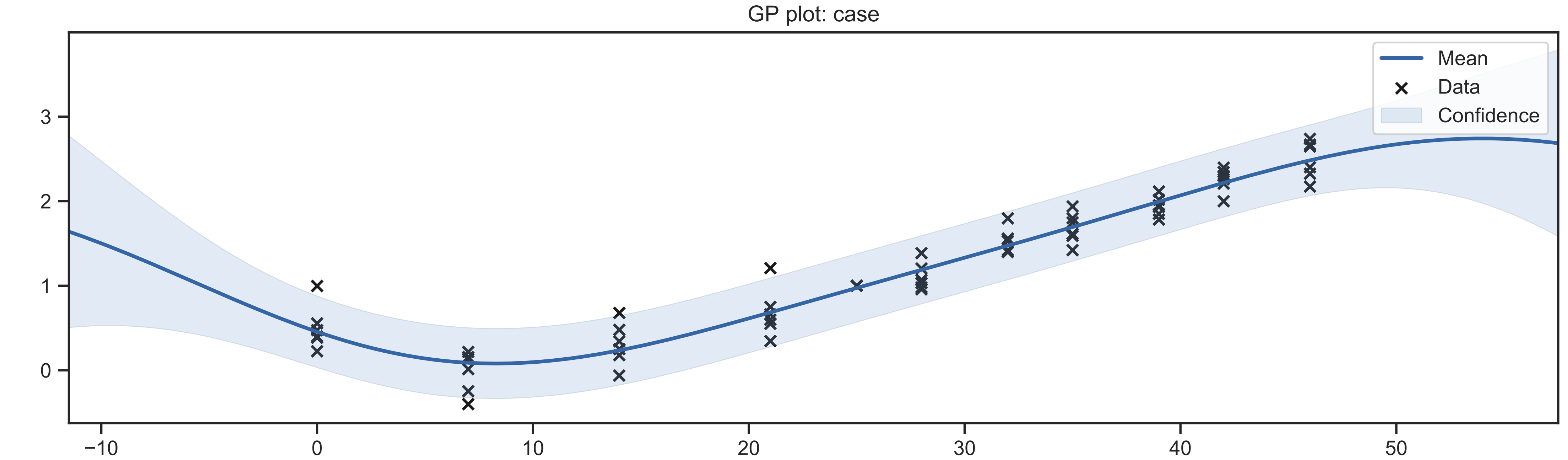
P14*C2

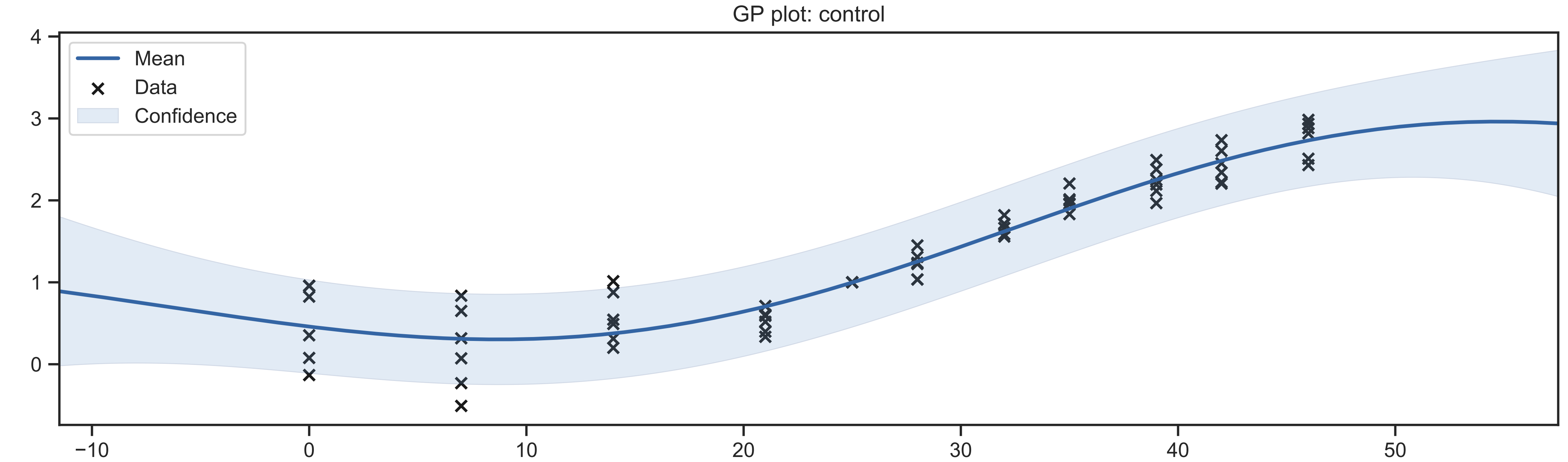


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

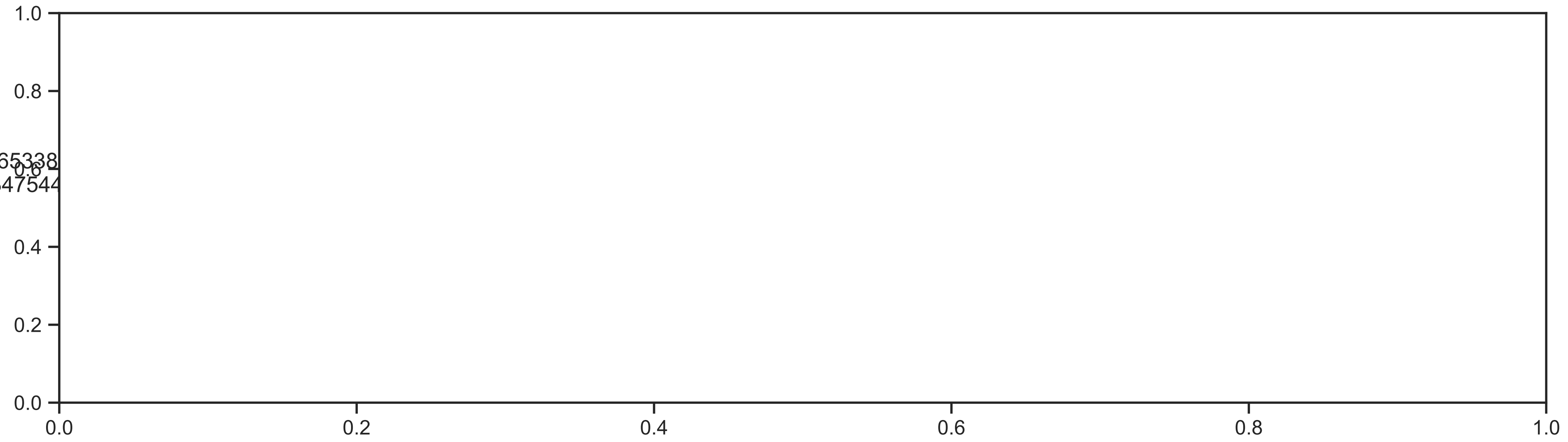




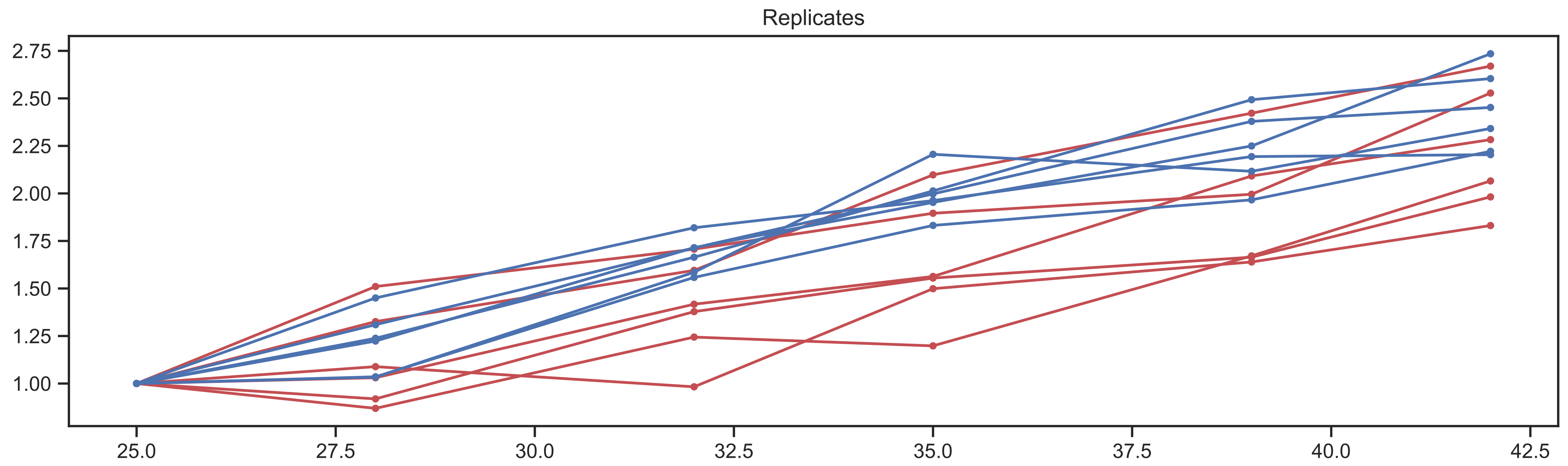




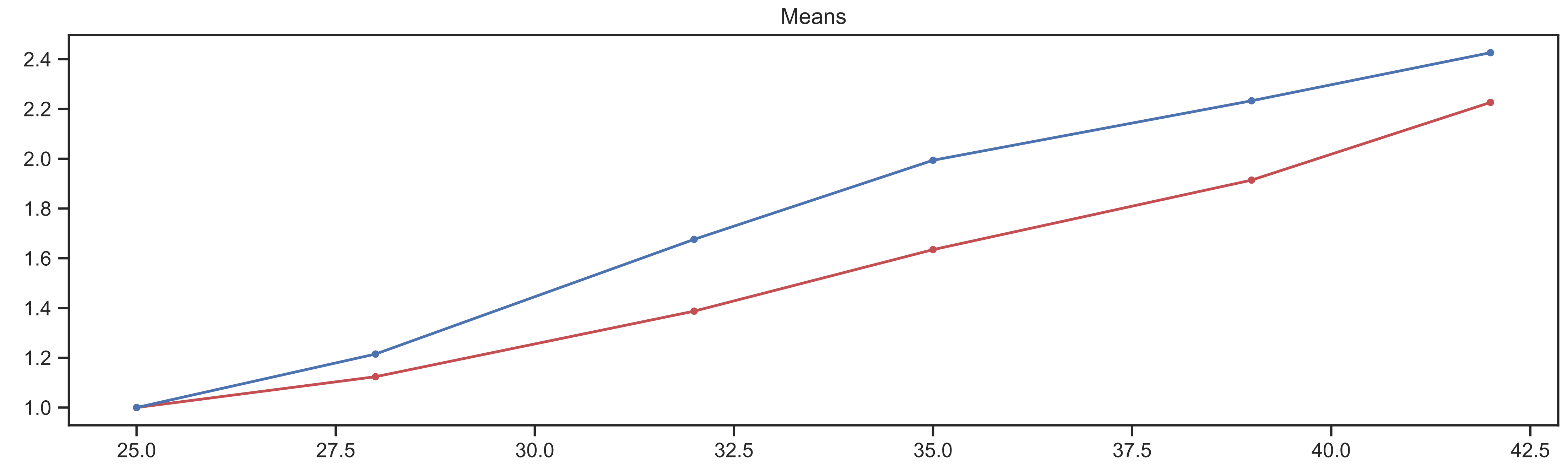
mRECIST: (0,0,5,1
kl: 0.9316788713259863
response_angle_rel: 0:0.03574708523472884_1:0.05991822535522632_2:0.05070074709865233_3:0.05820544524566401_4:0.061431407237564156_5:0.04675017265338
response_angle_rel_control: 0:0.07228127847750303_1:0.07260675726807773_2:0.06818673838665455_3:0.054667060127374746_4:0.07440356284947348_5:0.07347544
auc_norm: 0:0.3171767064805615_1:0.4710015523040014_2:0.37708945492284107_3:0.48741331210914274_4:0.4985598378265138_5:0.36546911607498994
auc_control_norm: 0:[0.53378104]_1:[0.50977792]_2:[0.45597652]_3:[0.40456837]_4:[0.56906337]_5:[0.52856841]
tgi: 0.07014884296318402
red = treatment, blue=control

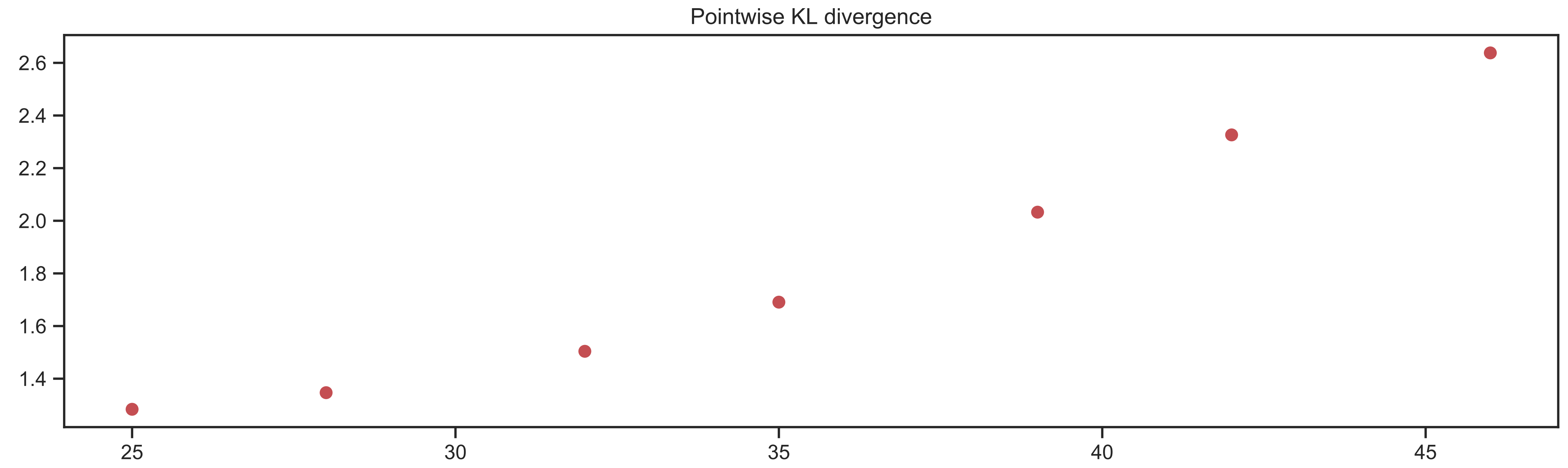


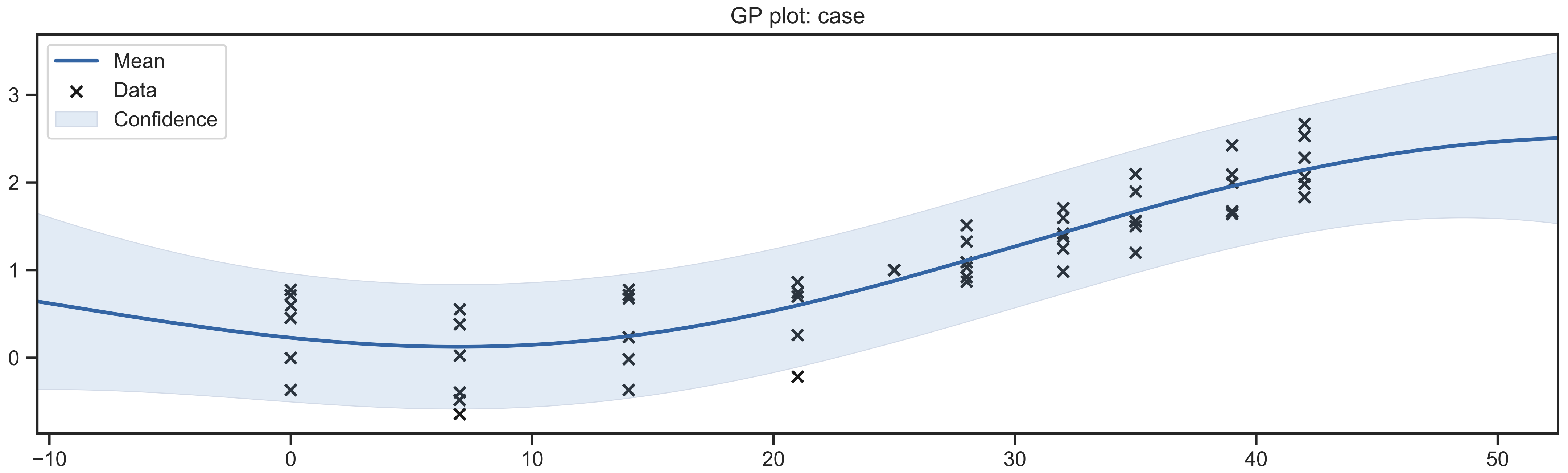
P14*C3

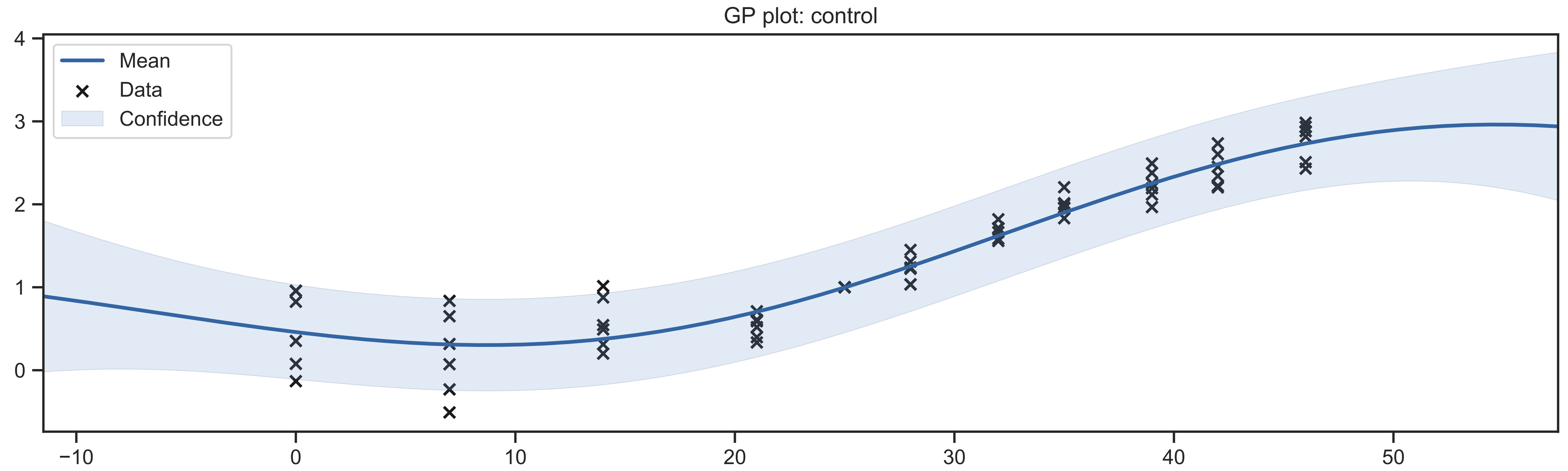


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

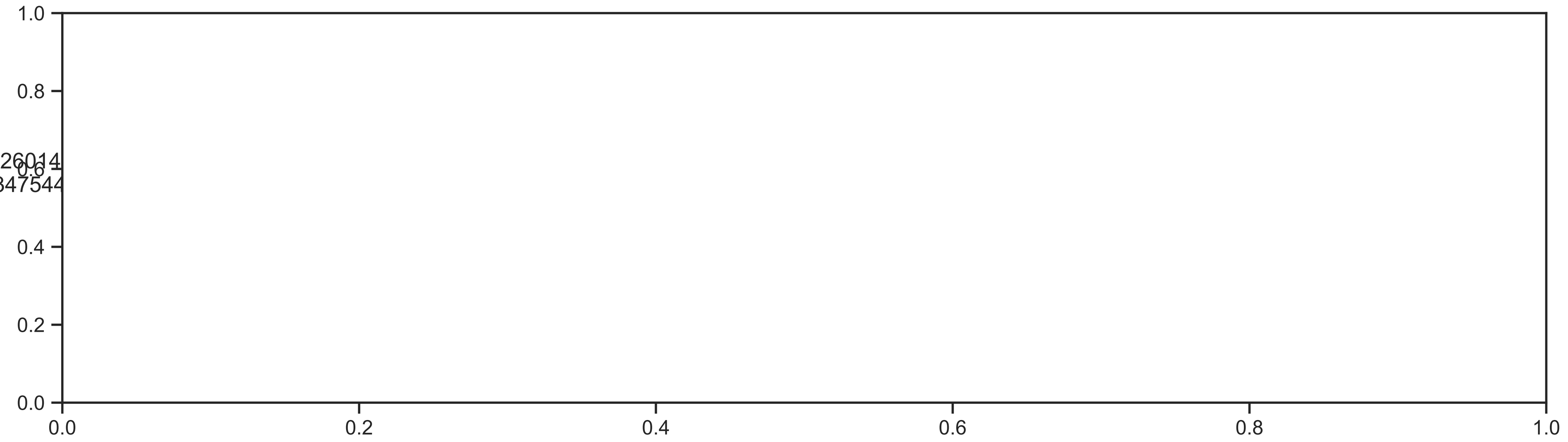




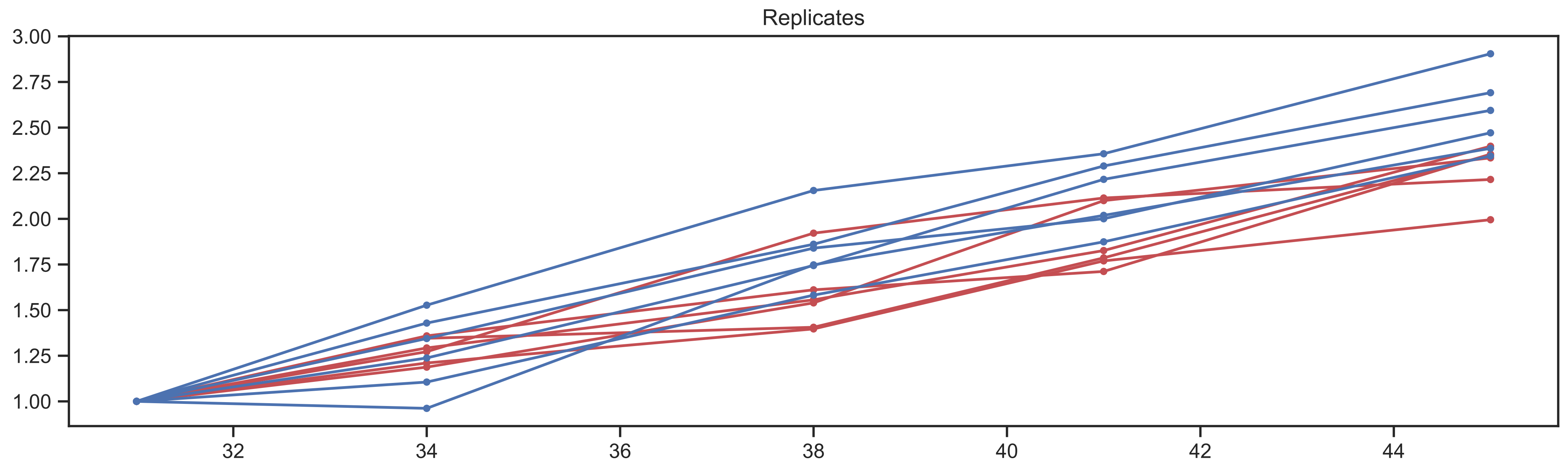




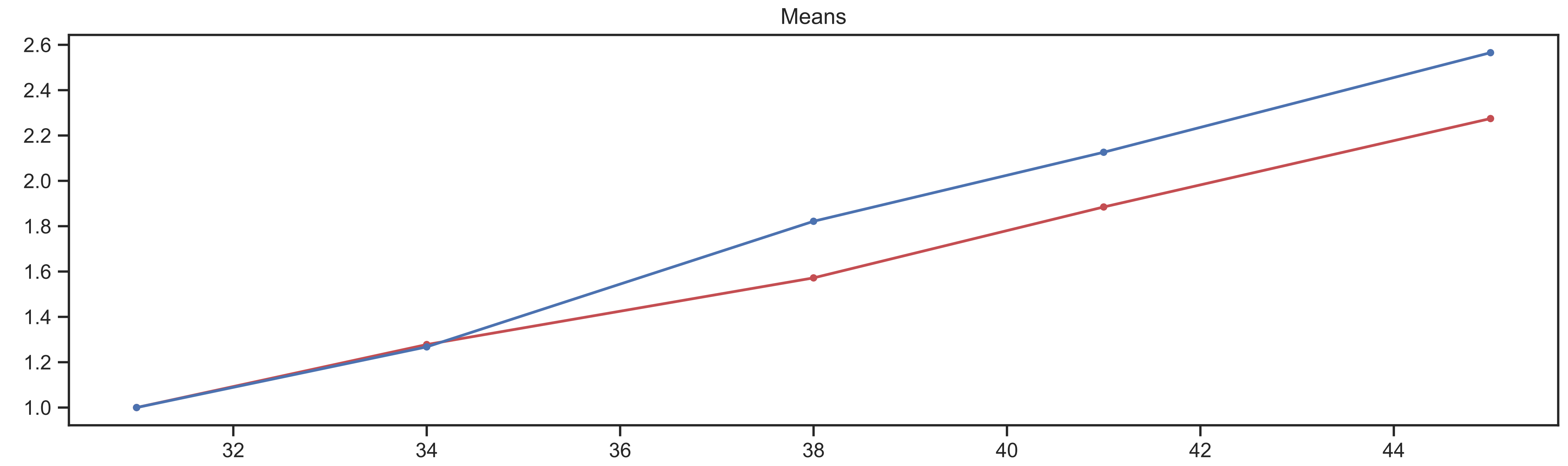
mRECIST: (0,0,4,2
kl: 0.8250671881902626
response_angle_rel: 0:0.08234273906121682_1:0.014753890518329392_2:0.0291707657311303_3:0.039545379348592556_4:0.06564945020623882_5:0.05573279826014
response_angle_rel_control: 0:0.07228127847750303_1:0.07260675726807773_2:0.06818673838665455_3:0.054667060127374746_4:0.07440356284947348_5:0.07347544
auc_norm: 0:0.5069752706893624_1:0.27412265644193734_2:0.2844728169190347_3:0.27980228216688946_4:0.4846308365589559_5:0.3513249996609152
auc_control_norm: 0:[0.35118727]_1:[0.41856297]_2:[0.51254171]_3:[0.35239227]_4:[0.40861057]_5:[0.45916185]
tgi: 0.22579007275950225
red = treatment, blue=control

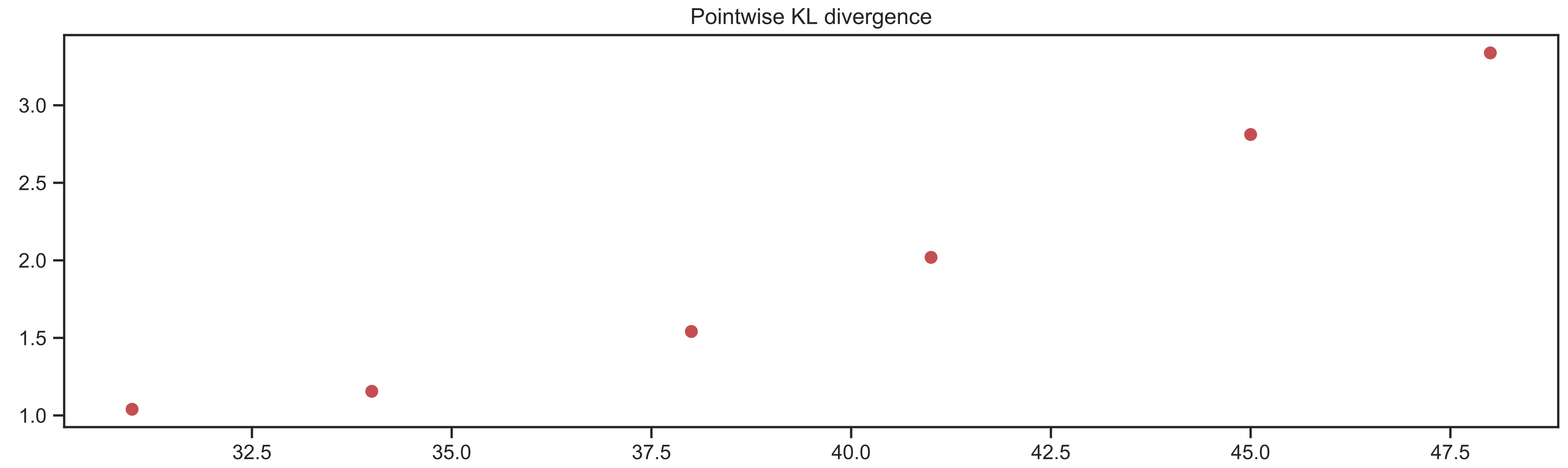


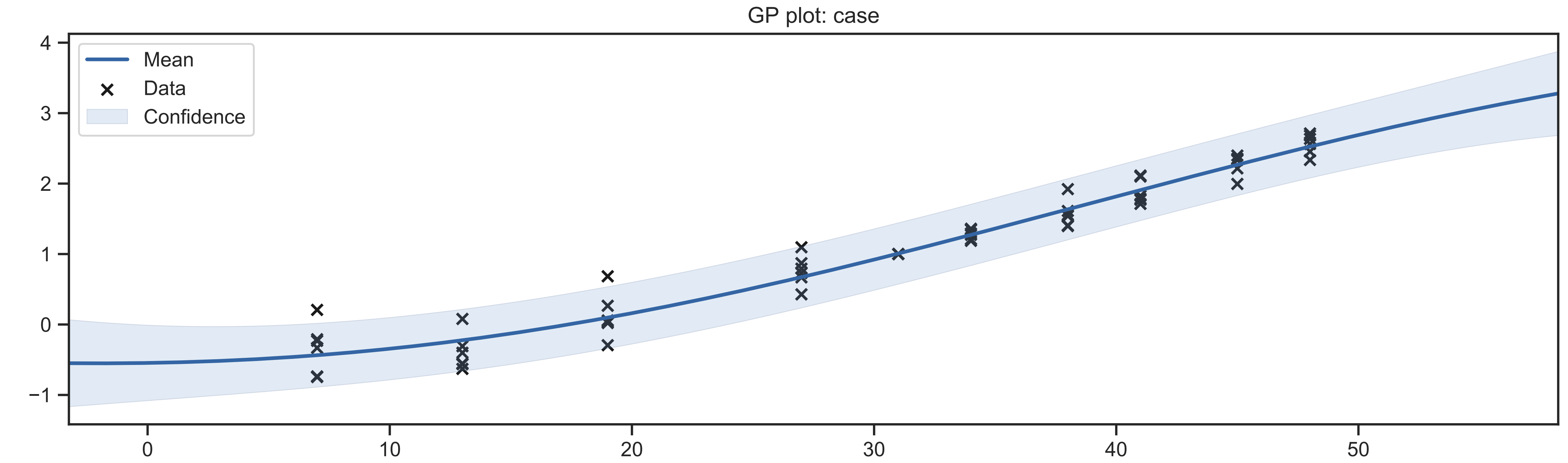
P15*C1

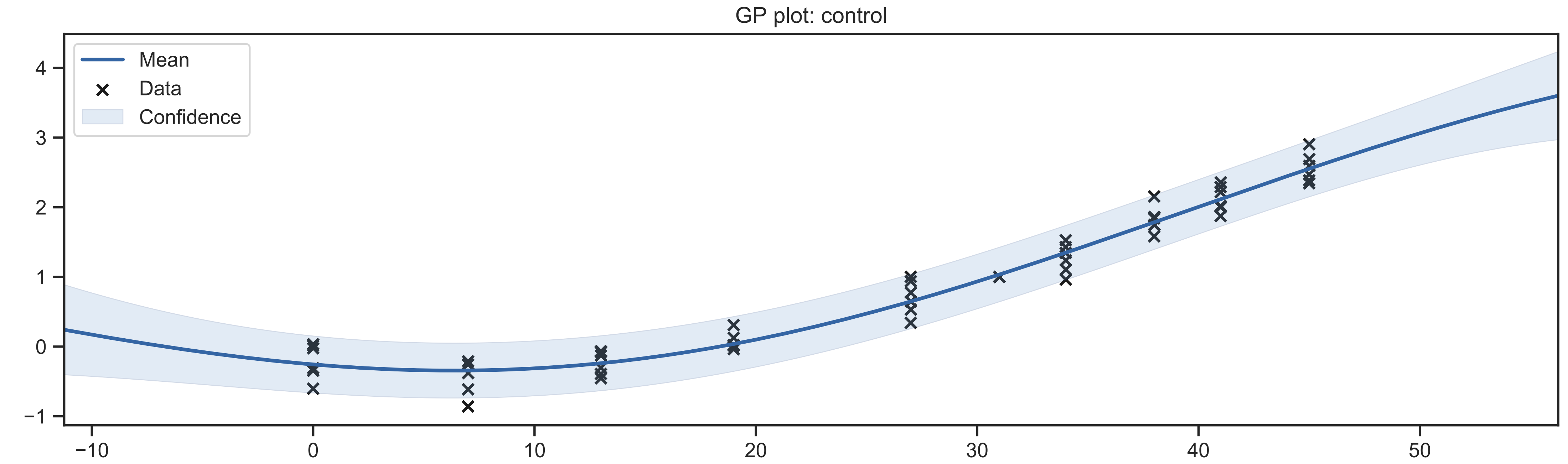


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

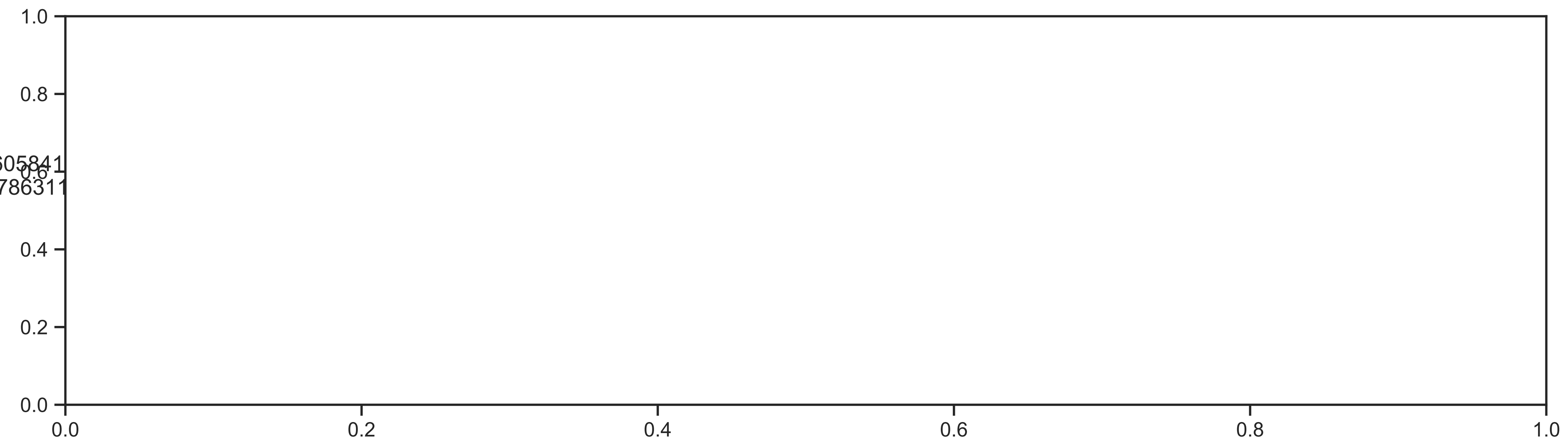




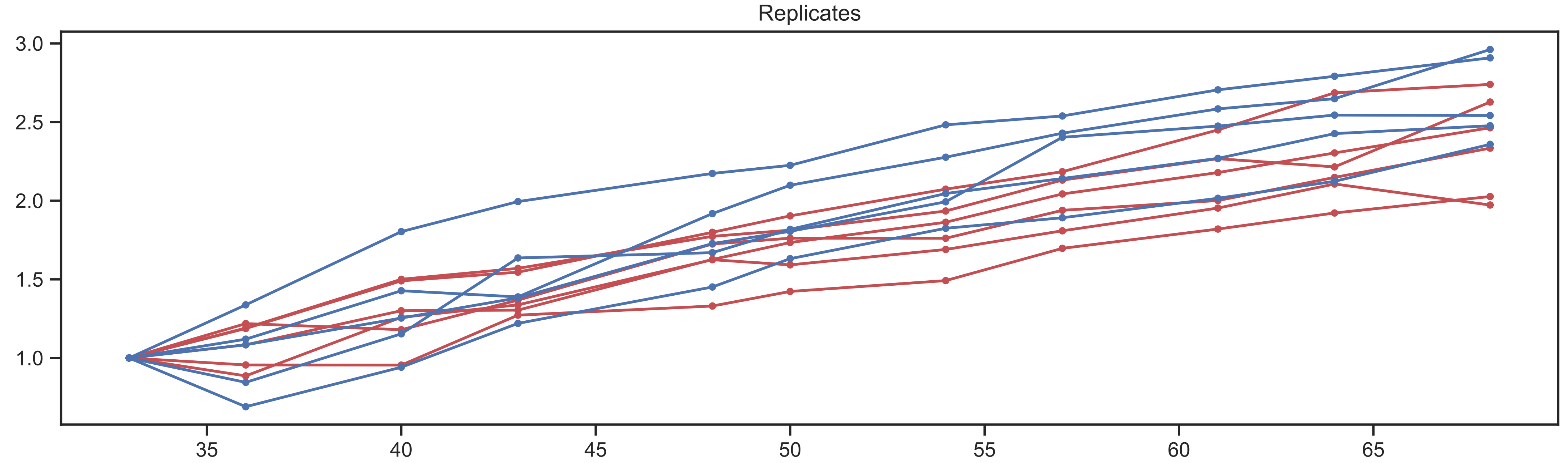




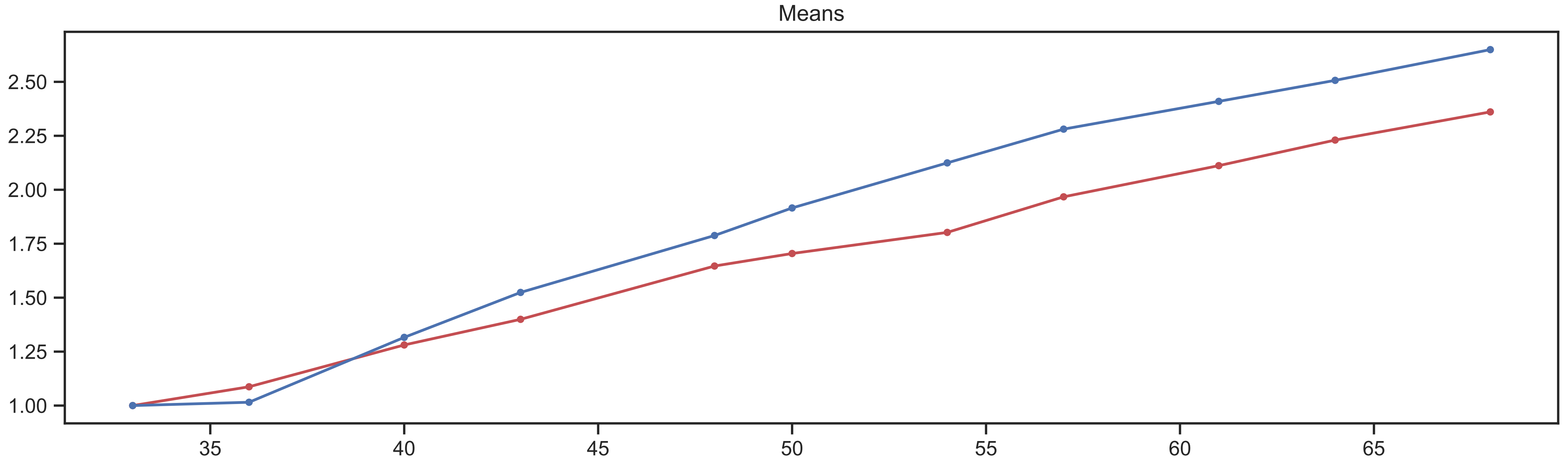
mRECIST: (0,0,0,6
kl: 0.9822291525271634
response_angle_rel: 0:0.057515515698765514_1:0.06317571839611537_2:0.06188648904172327_3:0.047856689026830455_4:0.0560773671466141_5:0.04548561605841
response_angle_rel_control: 0:0.06322264666769087_1:0.07464077835386984_2:0.05061758812143616_3:0.06171386508305191_4:0.05345313154030566_5:0.088786311
auc_norm: 0:0.3426548801763702_1:0.39637822600719497_2:0.39579813046359_3:0.3981755160362356_4:0.37686036462686756_5:0.2973697529859099
auc_control_norm: 0:[0.45771853]_1:[0.49424739]_2:[0.36922764]_3:[0.40995359]_4:[0.36596978]_5:[0.53680032]
tgi: 0.21341324827960362
red = treatment,   blue=control

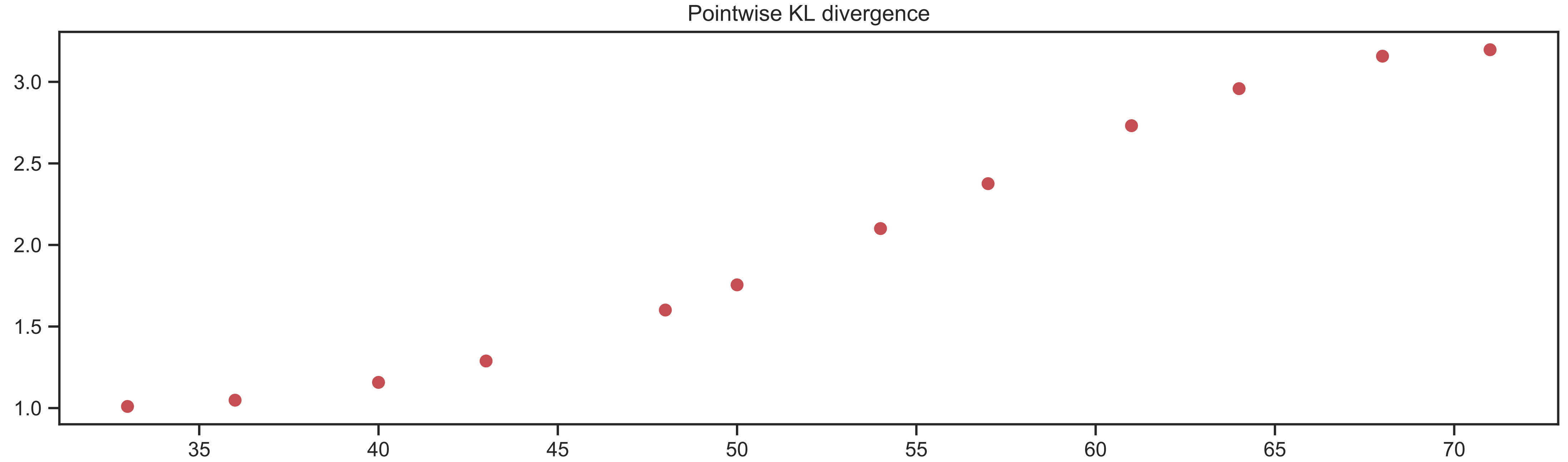


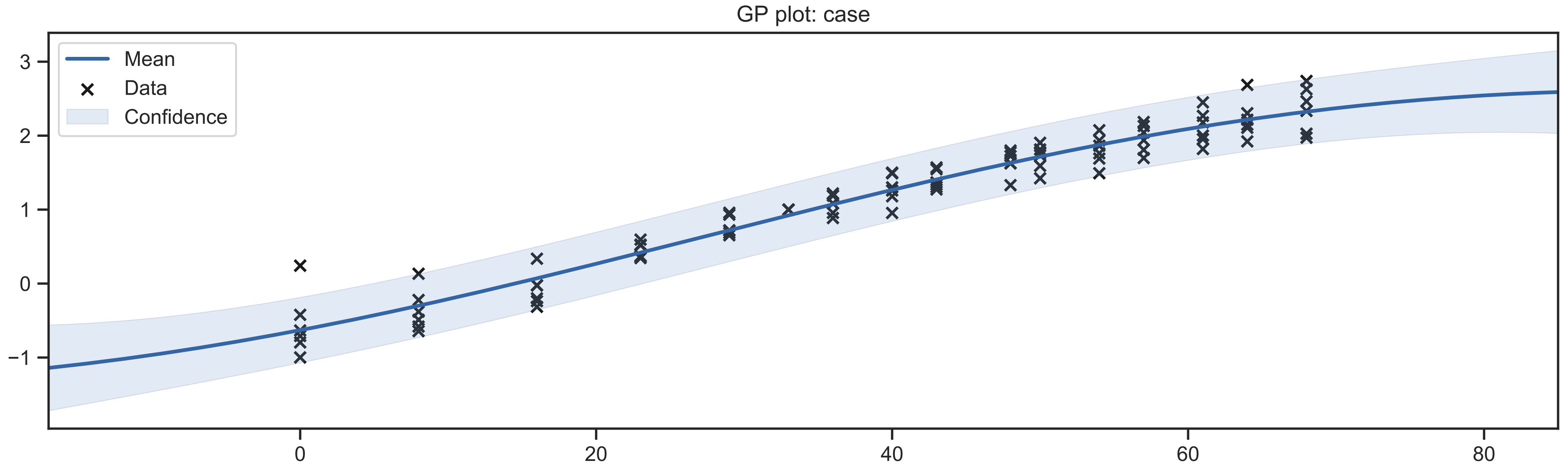
P16*C1

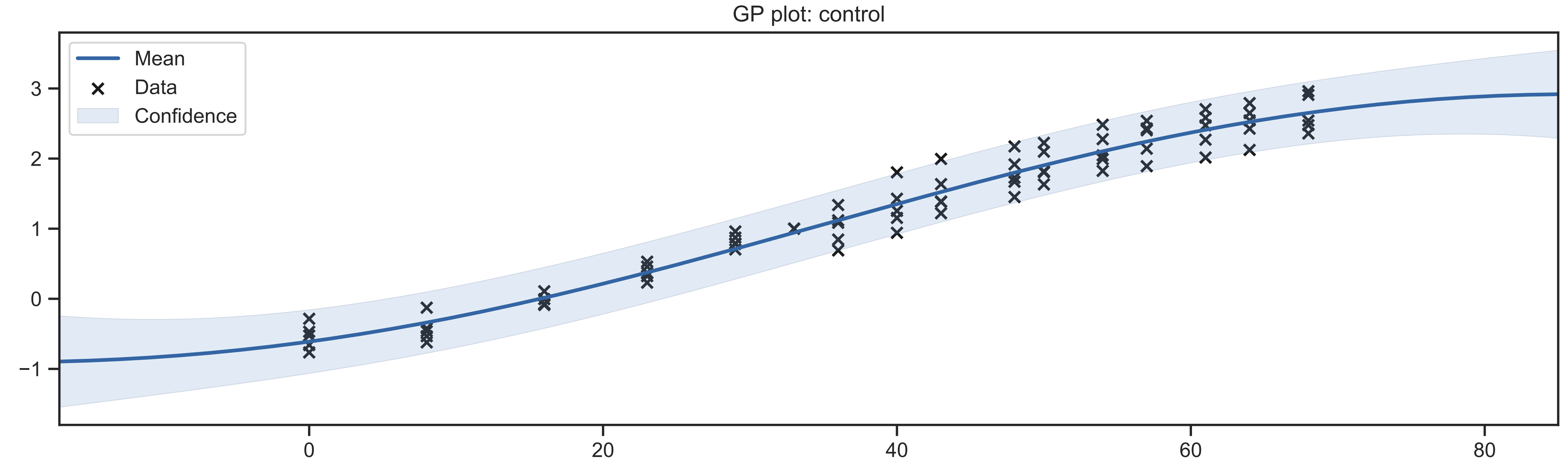

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

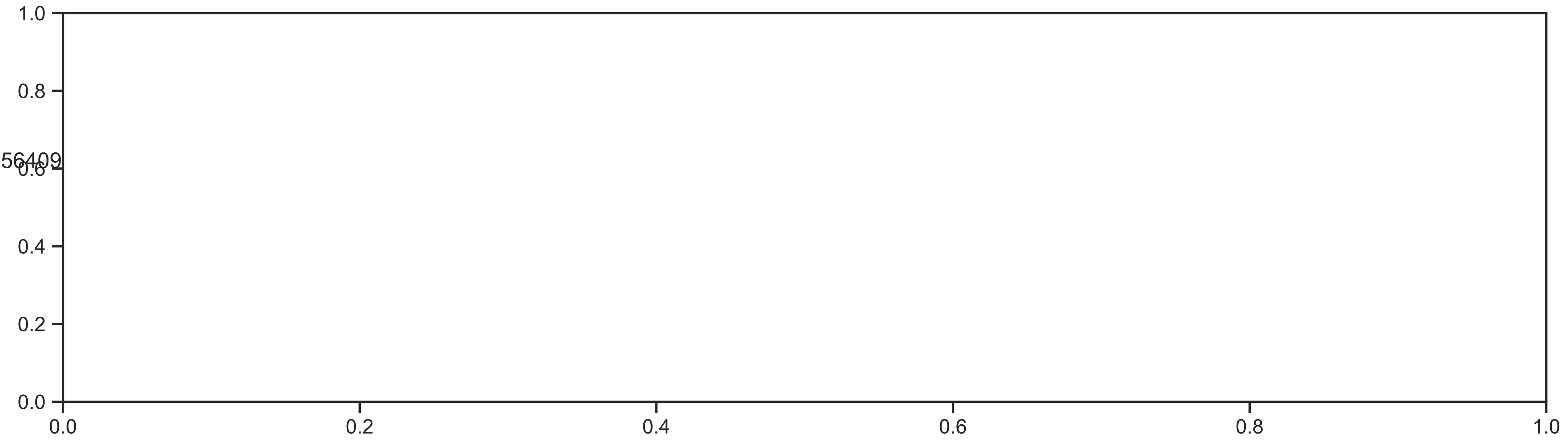

Means


Pointwise KL divergence

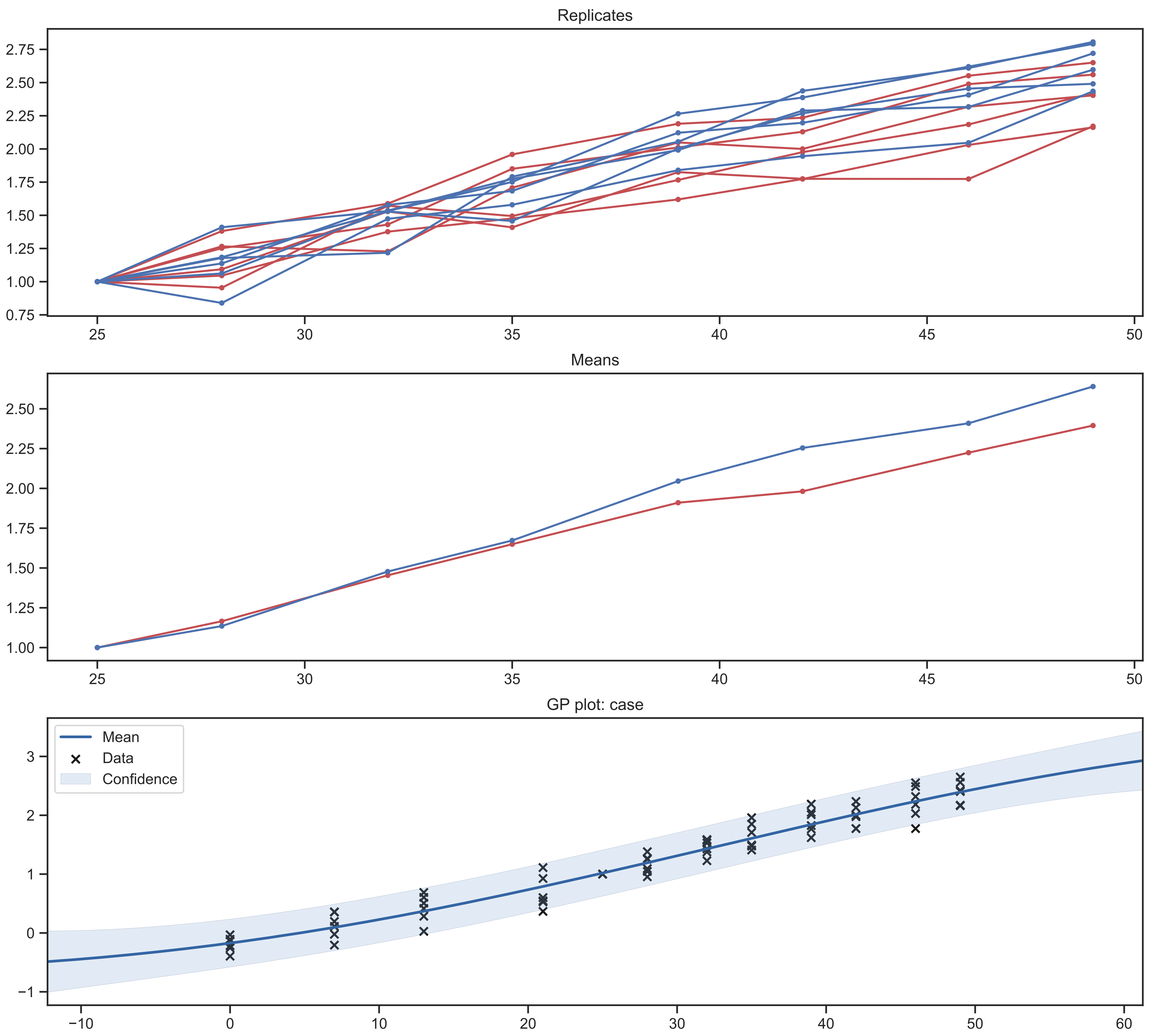

GP plot: case


GP plot: control

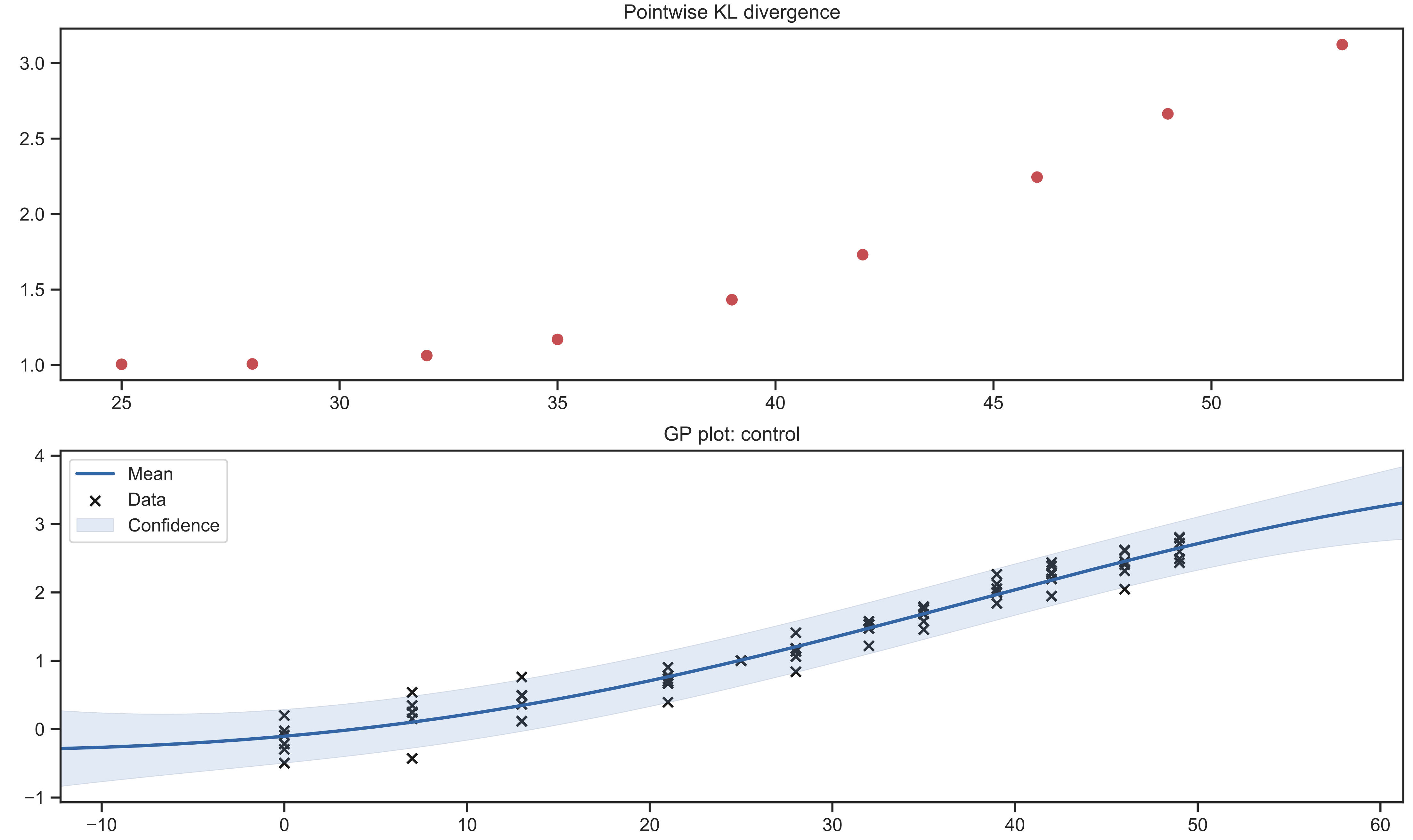
mRECIST: (0,0,6,0
kl: 1.0178245136498323
response_angle_rel: 0:0.04894563440926083_1:0.033984722277624196_2:0.02863399299781445_3:0.03551998712943147_4:0.017959681752637933_5:0.0213489556409
response_angle_rel_control: 0:0.027232073314764828_1:0.041322055523166305_2:0.05121787909832995 6_3:0.06615941216078991_4:0.04431459071237507
auc_norm: 0:0.49746218271902437_1:0.4094073975405384_2:0.38582979867174505_3:0.44024772917196225_4:0.3253140377837894_5:0.24033544771601012
auc_control_norm: 0:[0.38500099]_1:[0.45294716]_2:[0.53380301]_3:[0.53697008]_4:[0.44536937]
tgi: 0.18112825013729894
red = treatment,   blue=control



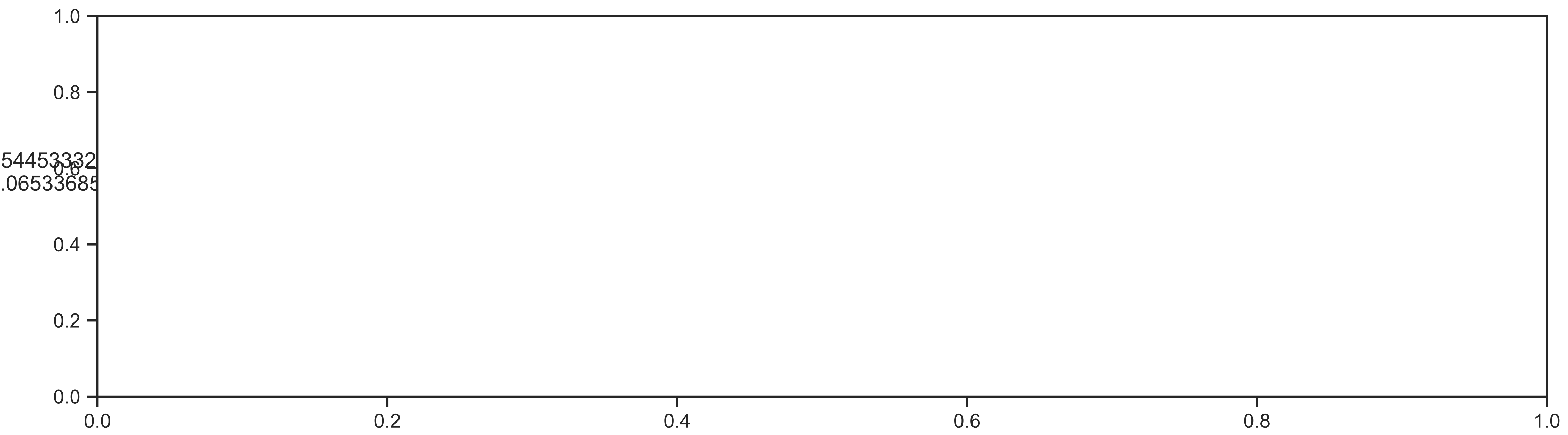
P17*C1



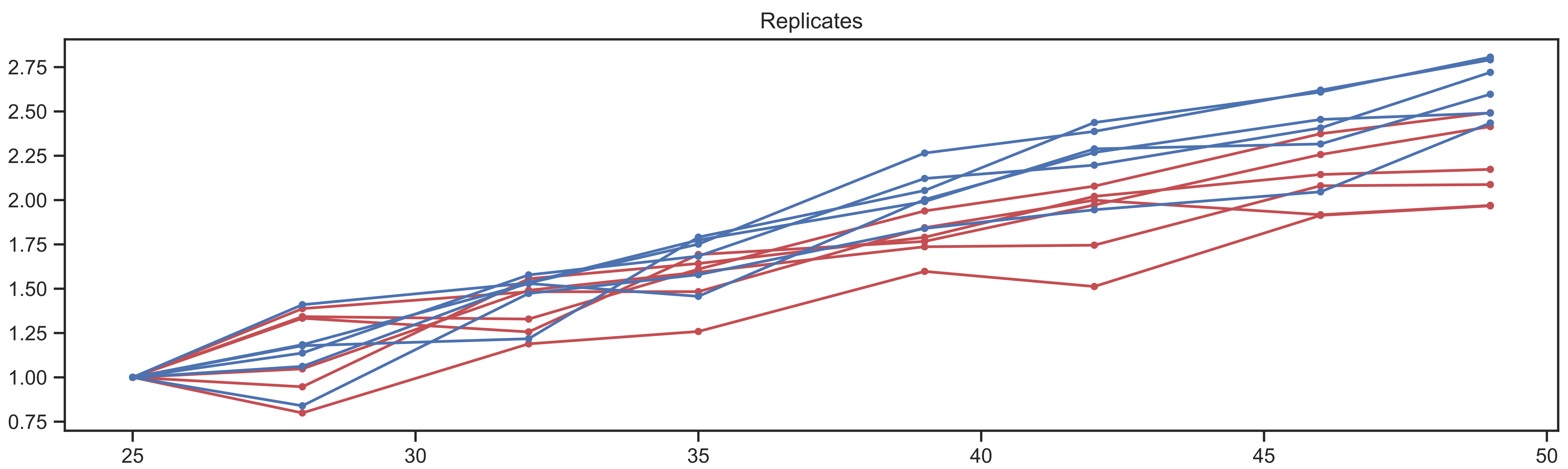
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N



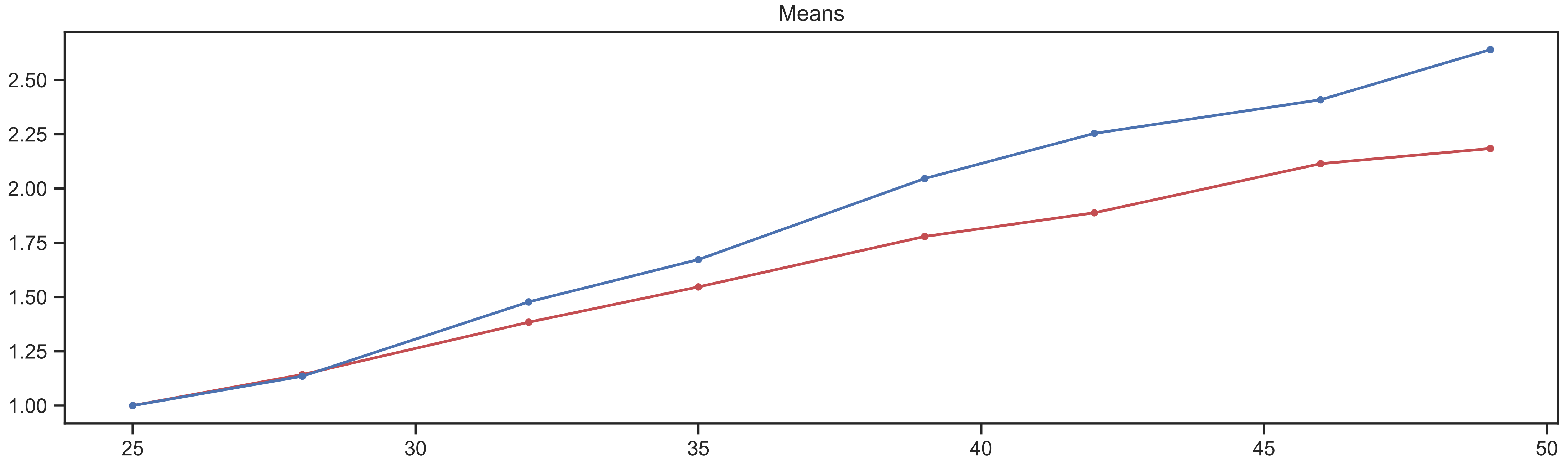
mRECIST: (0,0,1,5
kl: 0.7132116513746343
response_angle_rel: 0:0.06788439787958199_1:0.059653683710495335_2:0.04500474909719191_3:0.03253886393576949_4:0.04145622905462319_5:0.05190754453332
response_angle_rel_control: 0:0.08279351820939598_1:0.06115924276113128_2:0.06444501592205192_3:0.08162864522979672_4:0.048228044647610505_5:0.06533685
auc_norm: 0:0.4872140063842738_1:0.4617309470292824_2:0.38228300590948655_3:0.32656893619584915_4:0.31953939171567236_5:0.4161187645573278
auc_control_norm: 0:[0.56252499]_1:[0.48269623]_2:[0.40708952]_3:[0.52462499]_4:[0.39523916]_5:[0.47246966]
tgi: 0.15689480382532262
red = treatment,   blue=control

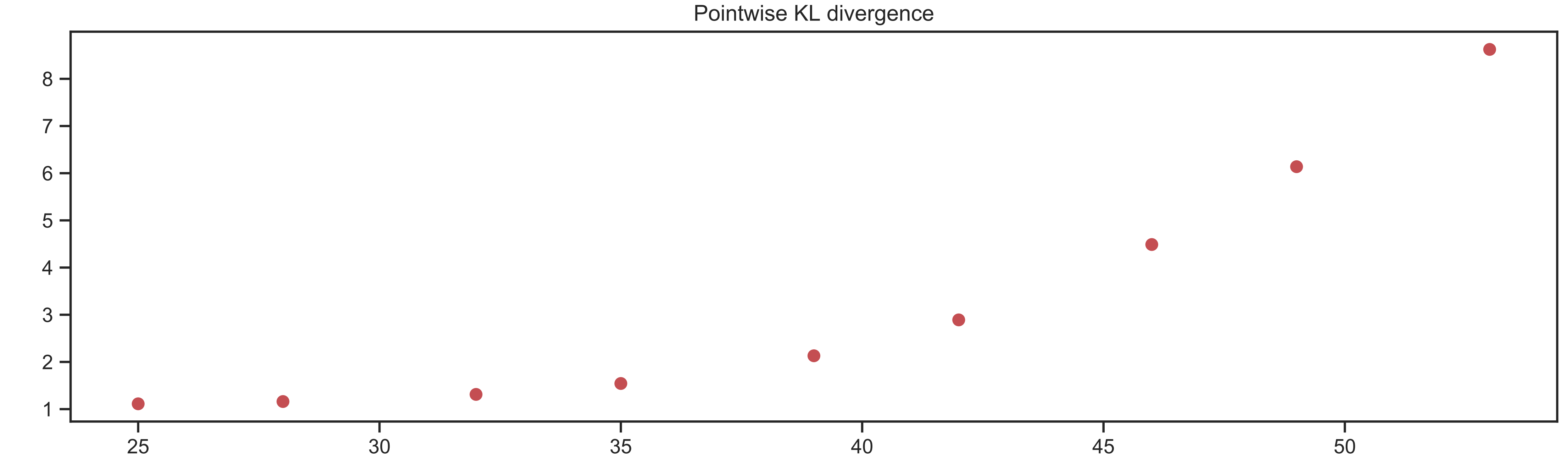


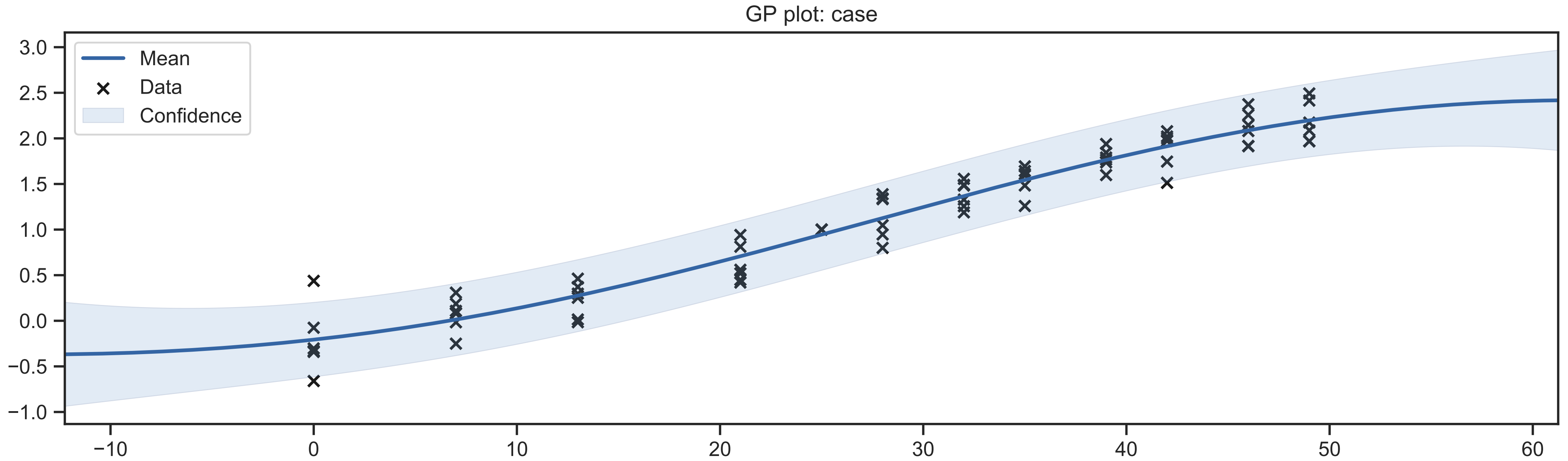
P17*C2

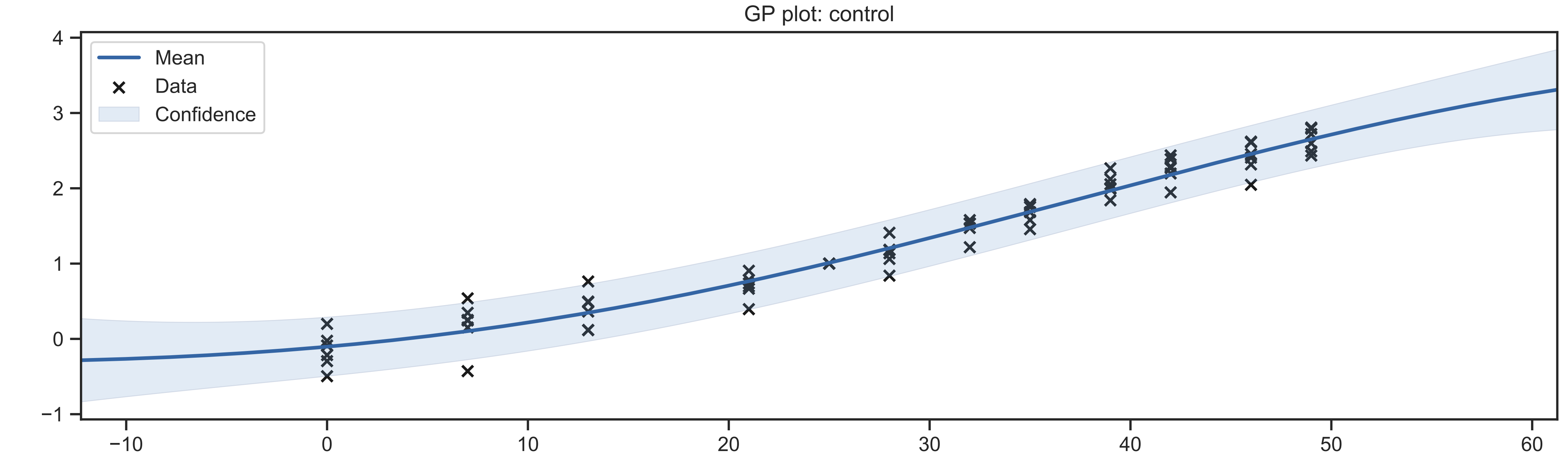


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

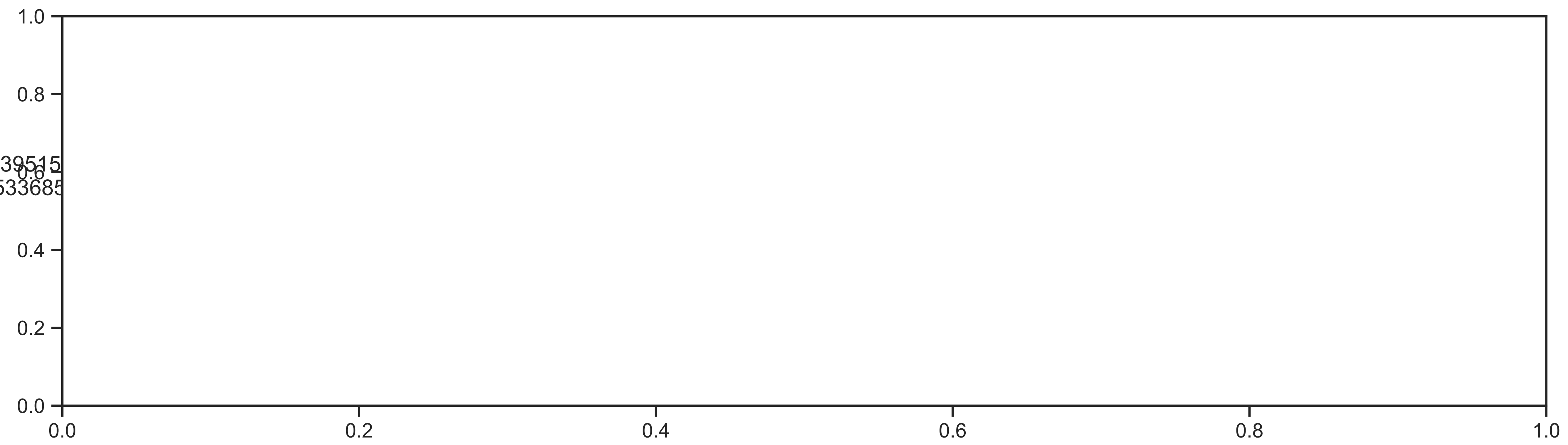




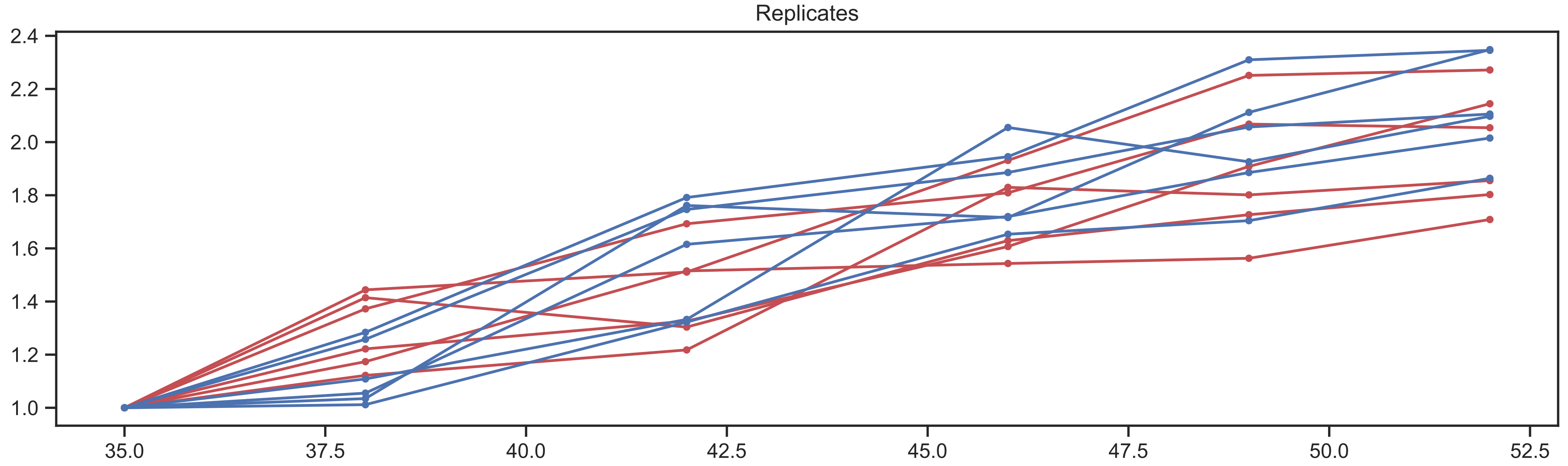




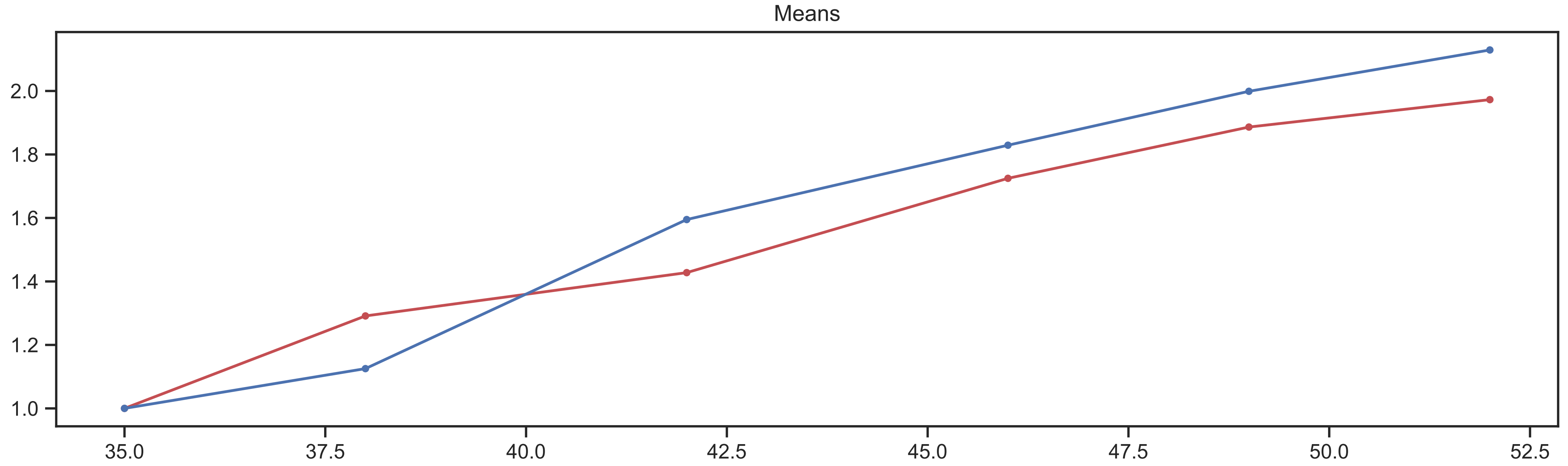
mRECIST: (0,0,2,4
kl: 2.1848015100785103
response_angle_rel: 0:0.03479793725901706_1:0.049570399761886645_2:0.05052398825283116_3:0.03973875433758388_4:0.033929830567058124_5:0.0265049939515
response_angle_rel_control: 0:0.08279351820939598_1:0.06115924276113128_2:0.06444501592205192_3:0.08162864522979672_4:0.048228044647610505_5:0.0653368
auc_norm: 0:0.28563765235555505_1:0.44809228546091256_2:0.4467186286583237_3:0.31767436868905224_4:0.2921359105958548_5:0.22828058288049724
auc_control_norm: 0:[0.56252499]_1:[0.48269623]_2:[0.40708952]_3:[0.52462499]_4:[0.39523916]_5:[0.47246966]
tgi: 0.2607988483270317
red = treatment,   blue=control

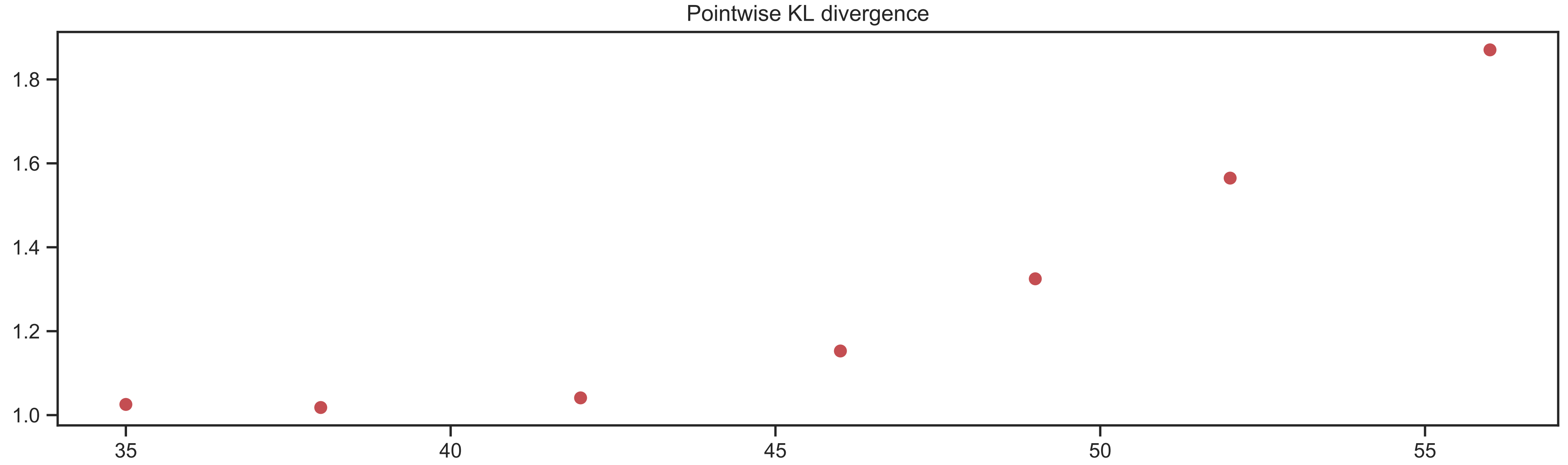


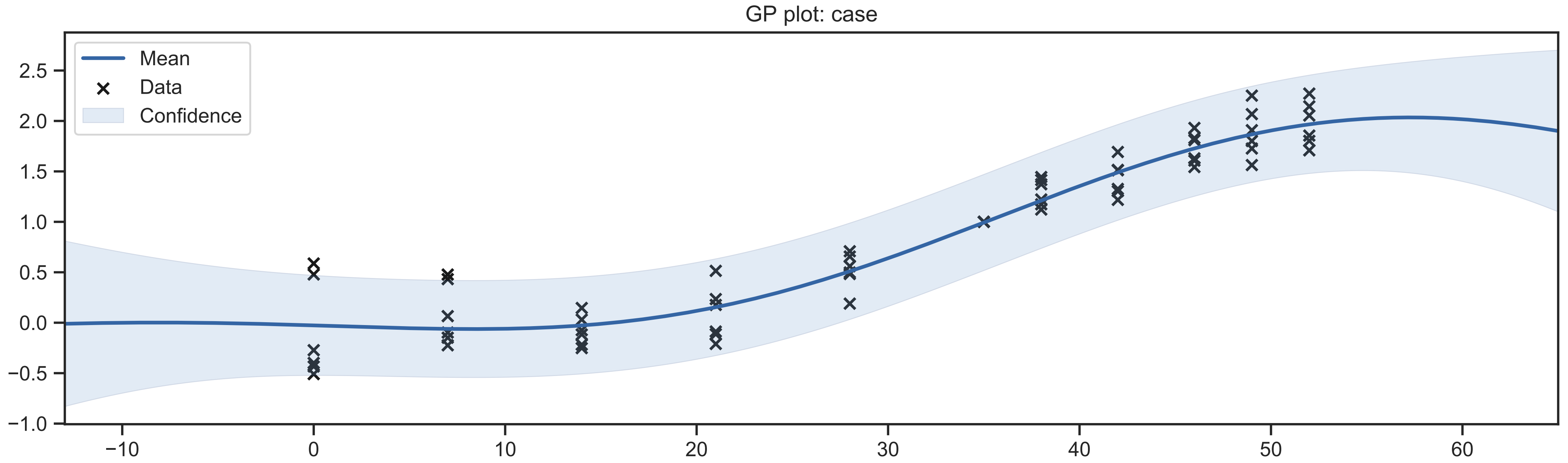
P18*C1

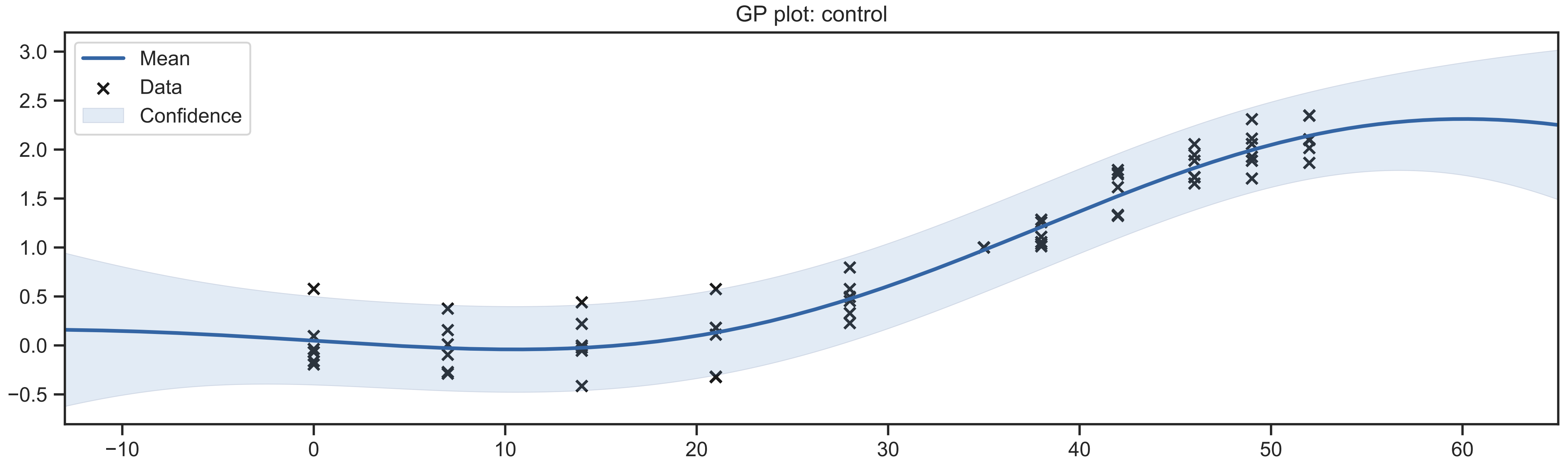


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

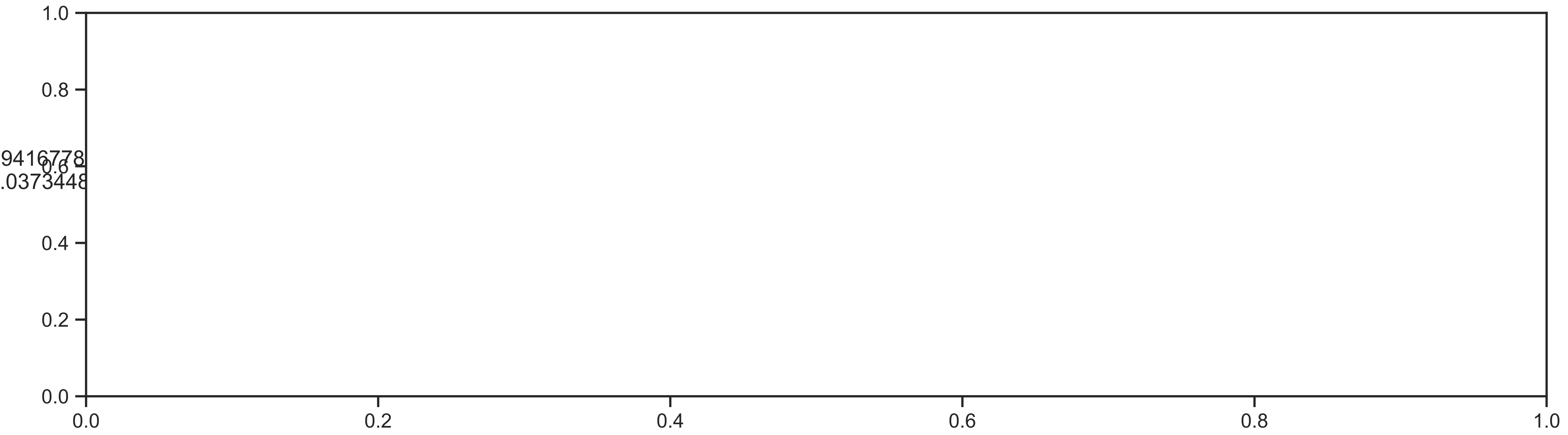




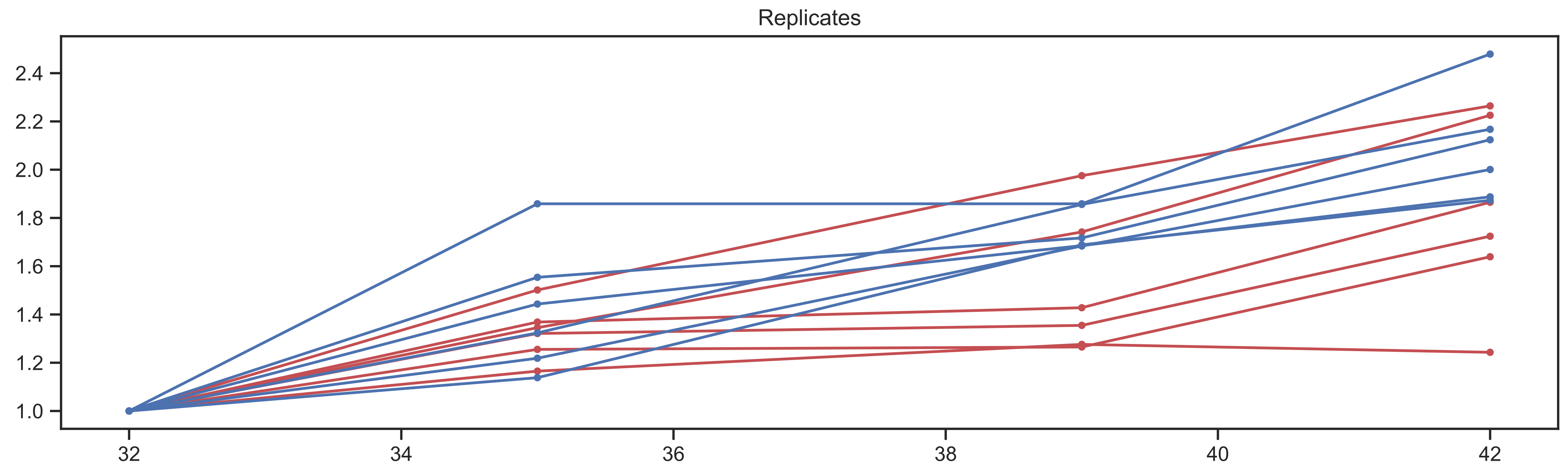




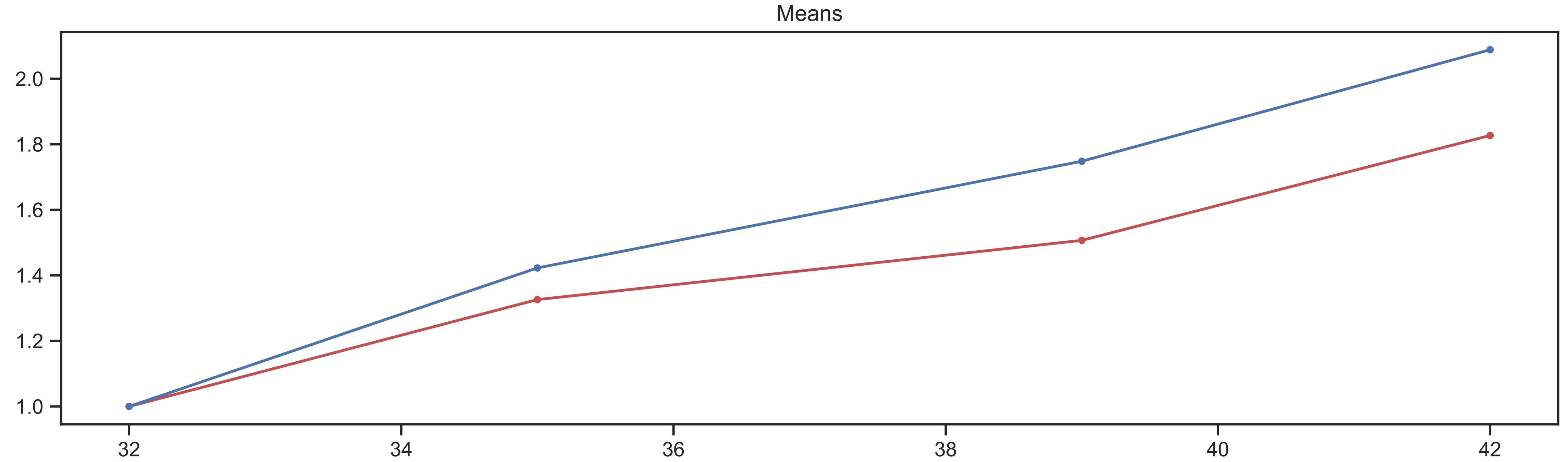
mRECIST: (0,0,3,3
kl: 0.2589908813520475
response_angle_rel: 0:0.023704785357228485_1:0.01563988335188357_2:0.030293354997369695_3:0.029214277670041033_4:0.03594857936924012_5:0.018669416778
response_angle_rel_control: 0:0.03182418970431945_1:0.02637121973164383_2:0.027035148134057378_3:0.019861423389005088_4:0.04364485463363043_5:0.0373448
auc_norm: 0:0.22605159996606367_1:0.20539660621888423_2:0.31493423439553214_3:0.34933816476774515_4:0.3832071352667772_5:0.249645954851445
auc_control_norm: 0:[0.31614672]_1:[0.28300786]_2:[0.28684413]_3:[0.23444772]_4:[0.39336442]_5:[0.39253833]
tgi: 0.11171249931173444
red = treatment,   blue=control

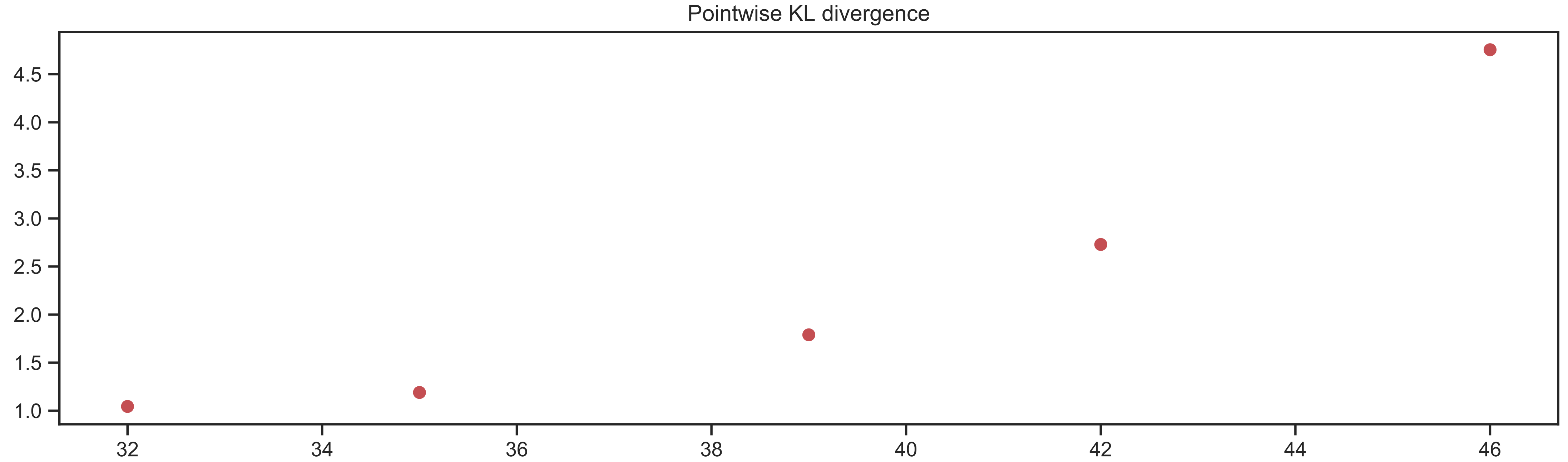


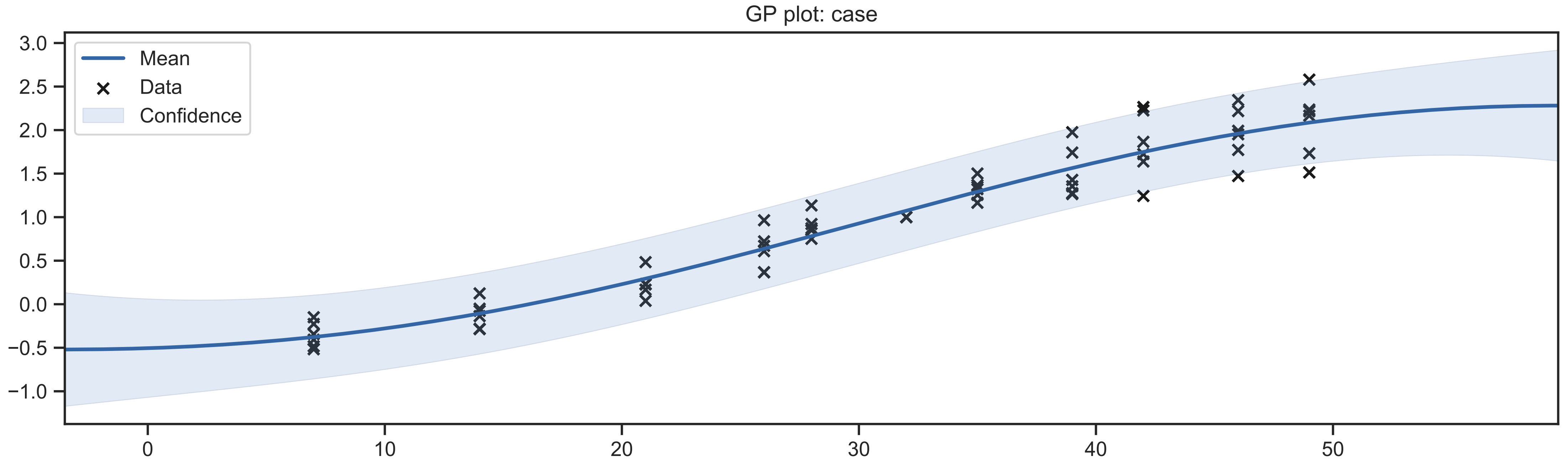
P19*C1

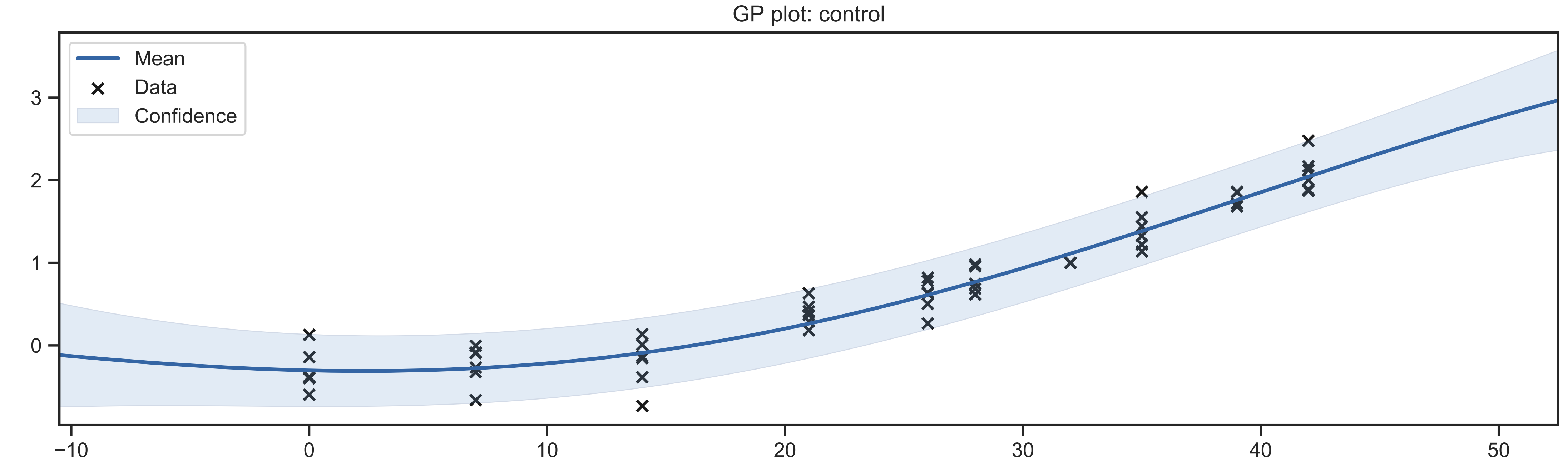


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

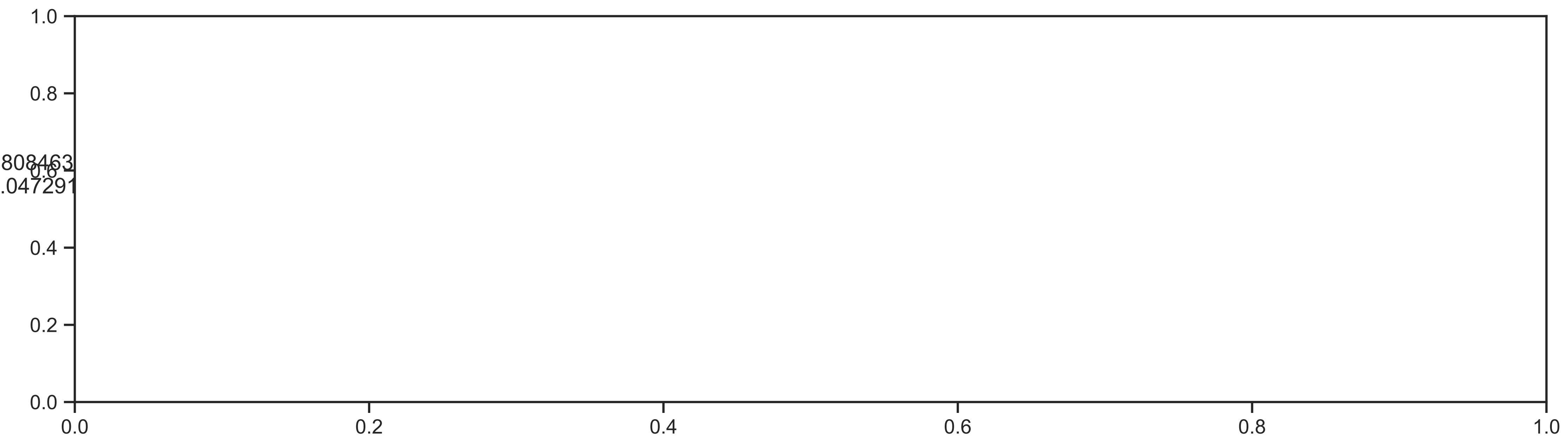




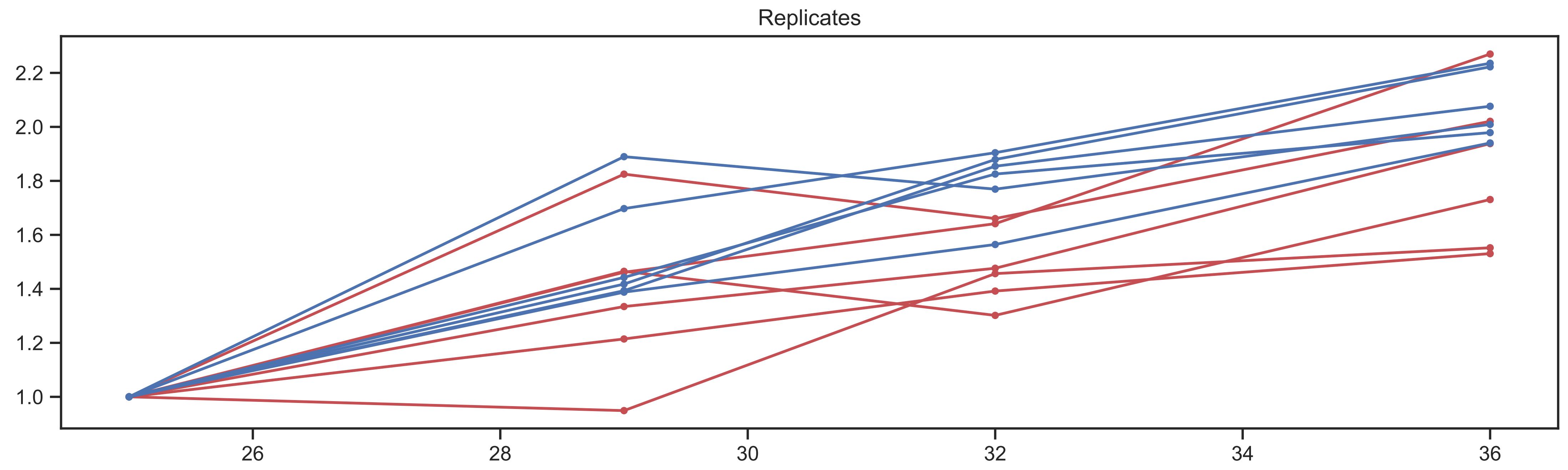




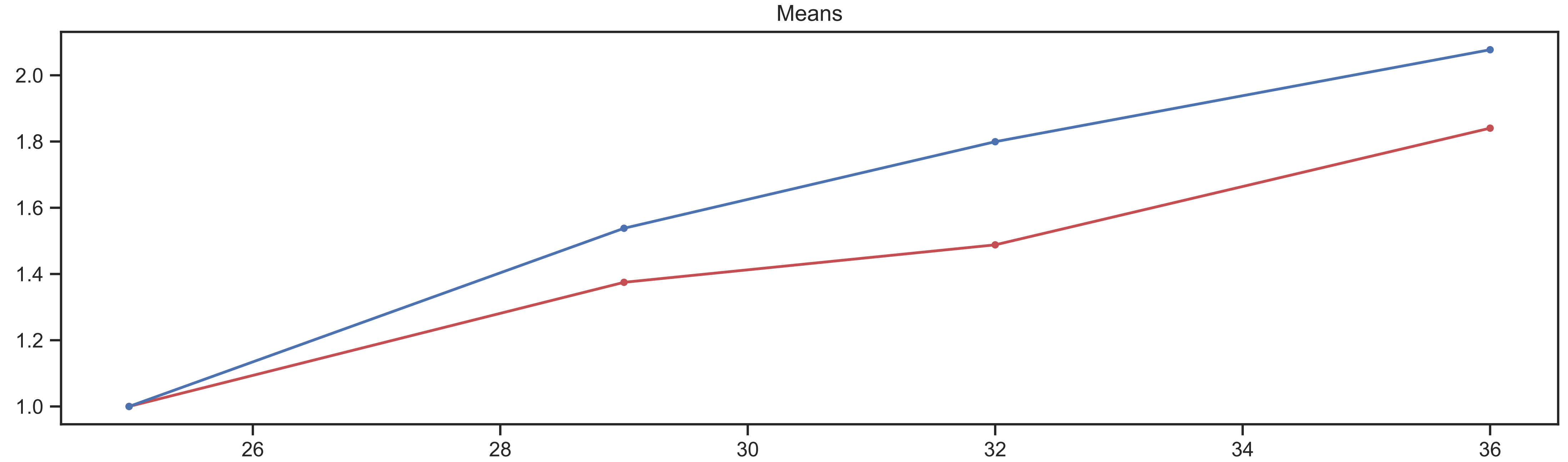
mRECIST: (0,0,2,4
kl: 1.1719795372847495
response_angle_rel: 0:0.0561543468802454_1:0.03445006898965047_2:0.03394467932289668_3:0.036379351202224464_4:0.017623277232115656_5:0.01030278808463
response_angle_rel_control: 0:0.036084825728760615_1:0.027097827583227936_2:0.03601427532332164_3:0.025564354470452917_4:0.02673540653541947_5:0.047291
auc_norm: 0:0.3819580035203209_1:0.23862073397552874_2:0.28338506541195885_3:0.37545707647742066_4:0.21222196451960768_5:0.07182408827115012
auc_control_norm: 0:[0.36104607]_1:[0.29479289]_2:[0.34475815]_3:[0.24511136]_4:[0.27563325]_5:[0.49298745]
tgi: 0.18725595132703265
red = treatment,   blue=control

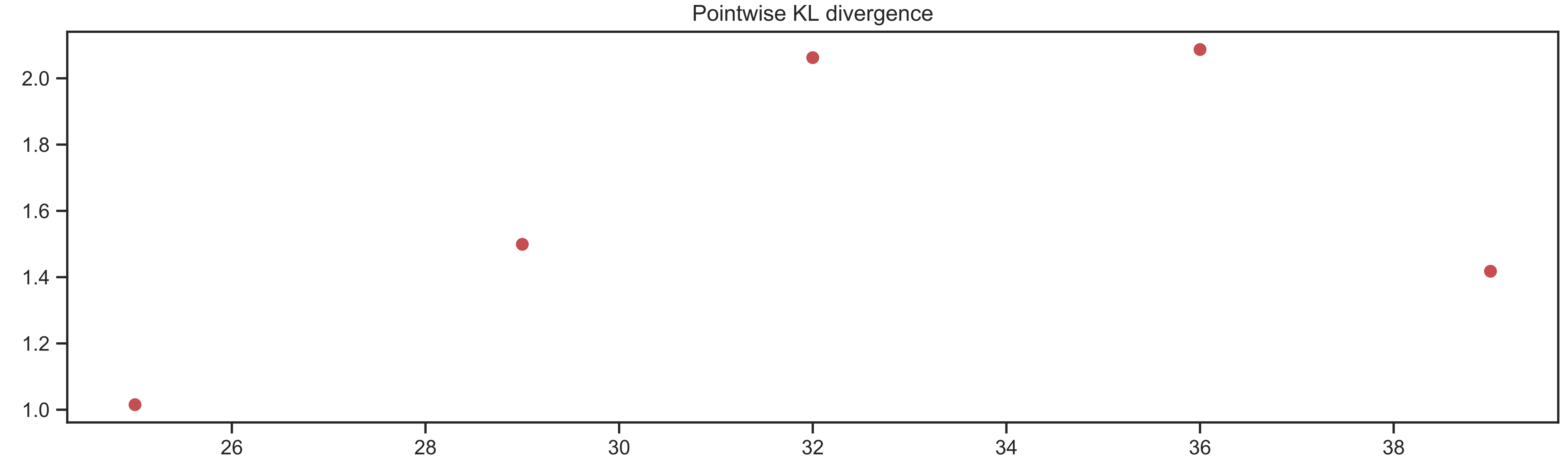


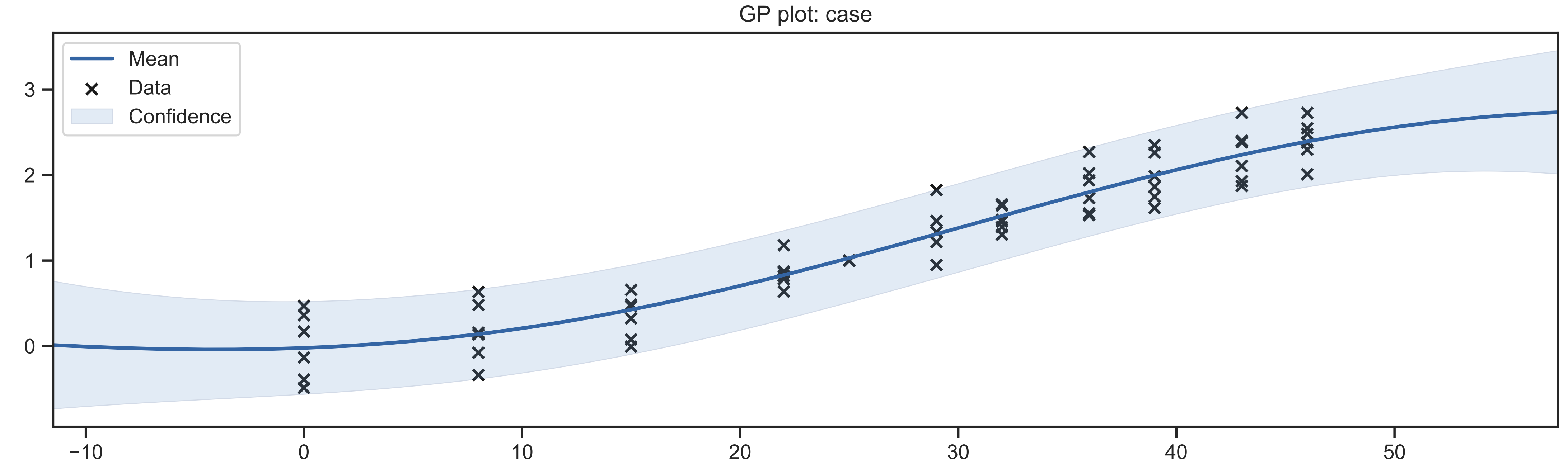
P20*C1

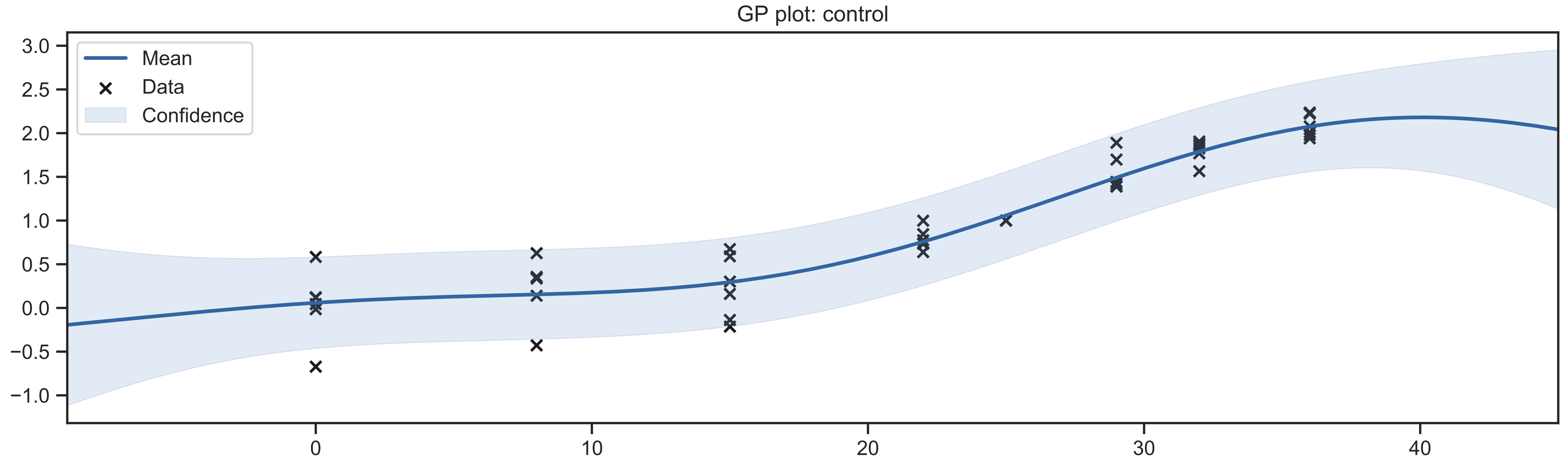


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N

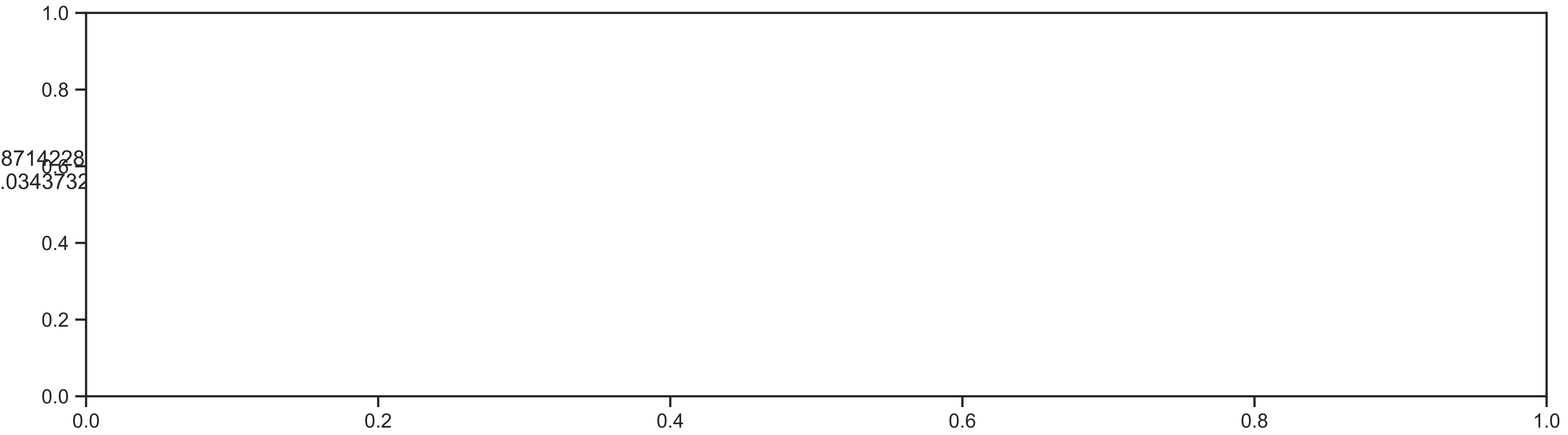




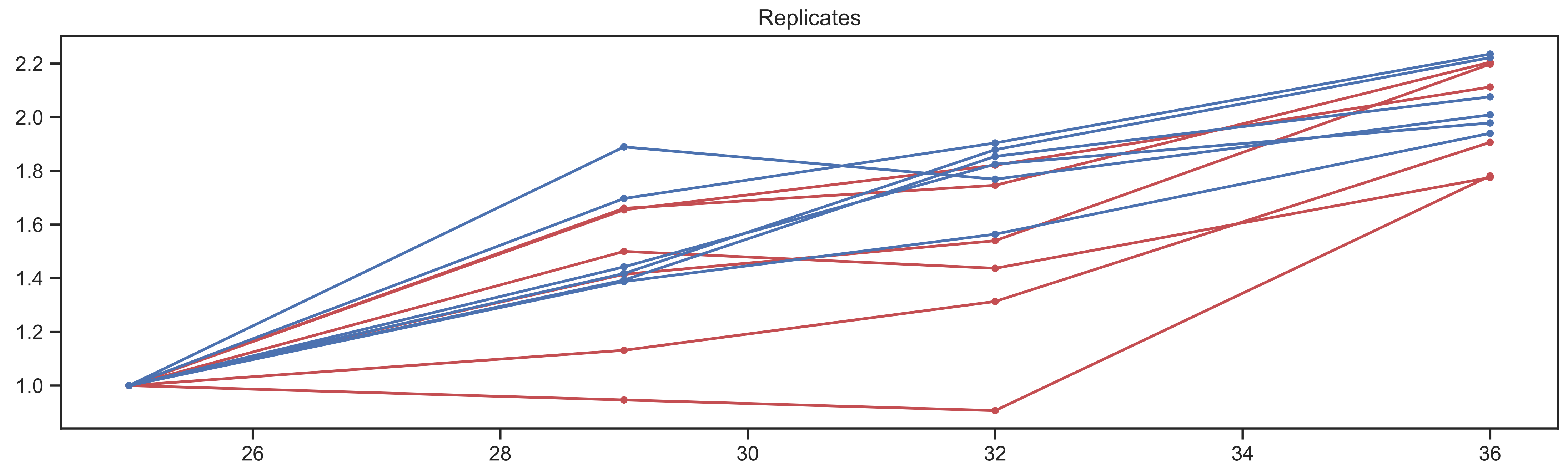




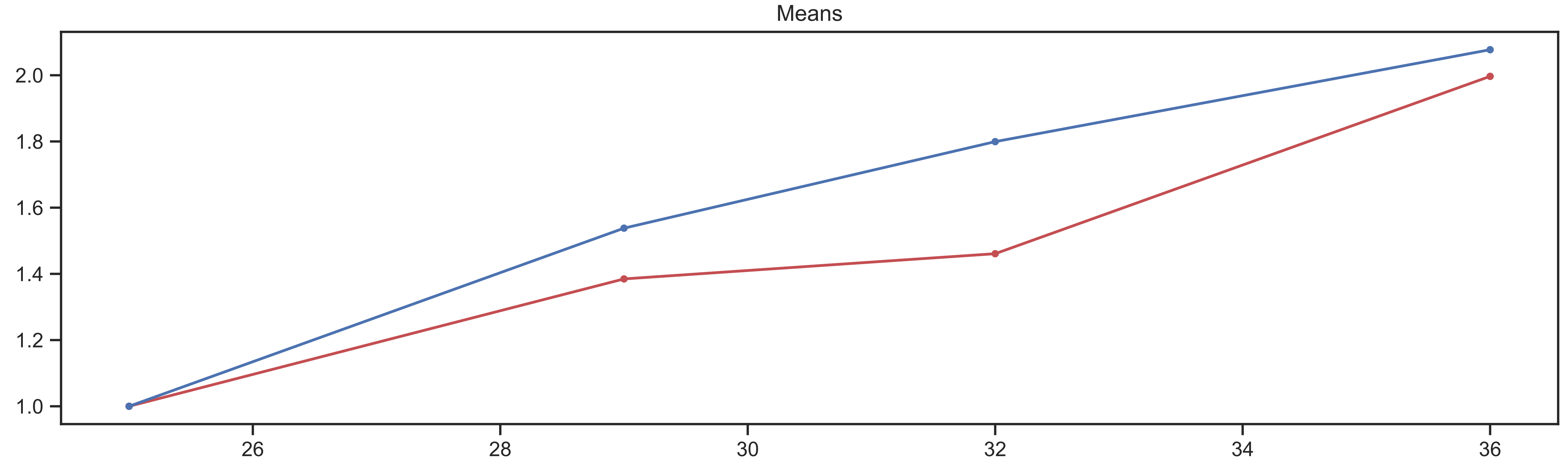
mRECIST: (0,0,2,4
kl: 0.7296256380415572
response_angle_rel: 0:0.04398082189506797_1:0.0857852408799913_2:0.028740686480597858_3:0.04537404112282828_4:0.06485179183659387_5:0.045380038714228
response_angle_rel_control: 0:0.041215782465825426_1:0.04633288451917505_2:0.048697586455035566_3:0.04397101633497337_4:0.04358393677917067_5:0.0343732
auc_norm: 0:0.33242784203265596_1:0.24629447213280306_2:0.16911347002314_3:0.1474277970700447_4:0.24143276852719034_5:0.18031758872615028
auc_control_norm: 0:[0.27659632]_1:[0.24222553]_2:[0.32615797]_3:[0.34406853]_4:[0.30750993]_5:[0.24979397]
tgi: 0.22126951423180707
red = treatment,   blue=control

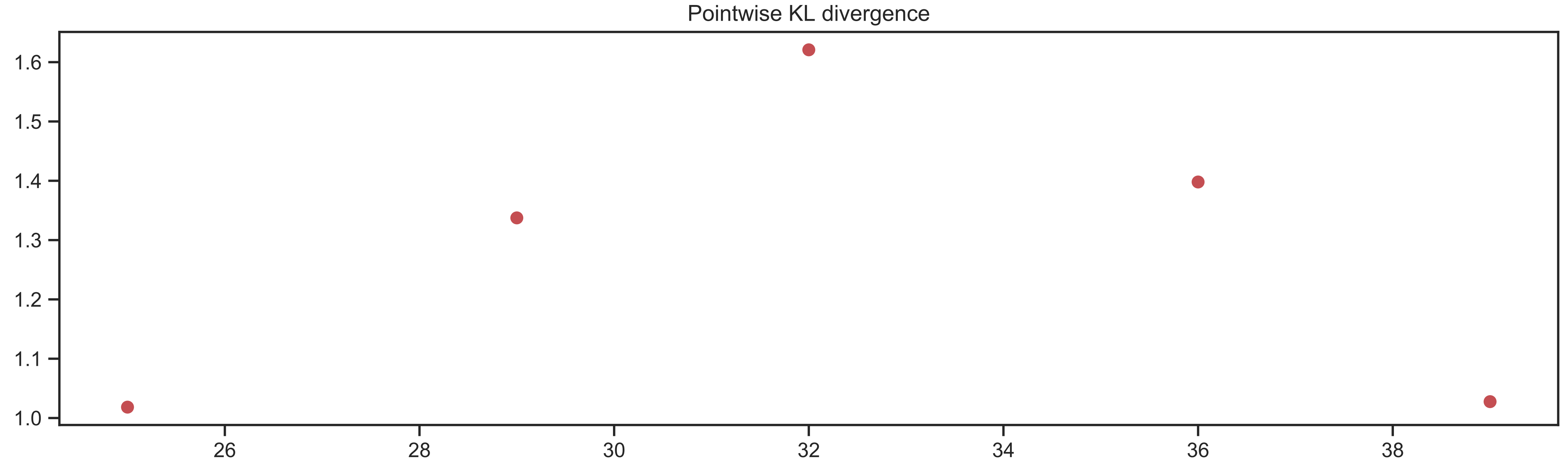


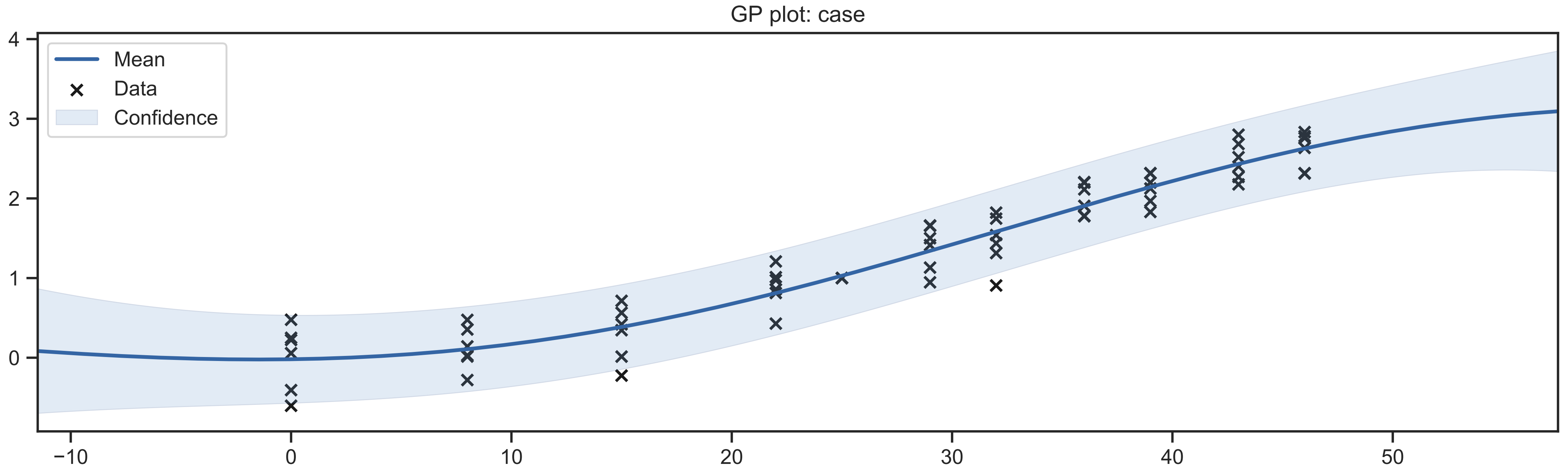
P20*C2

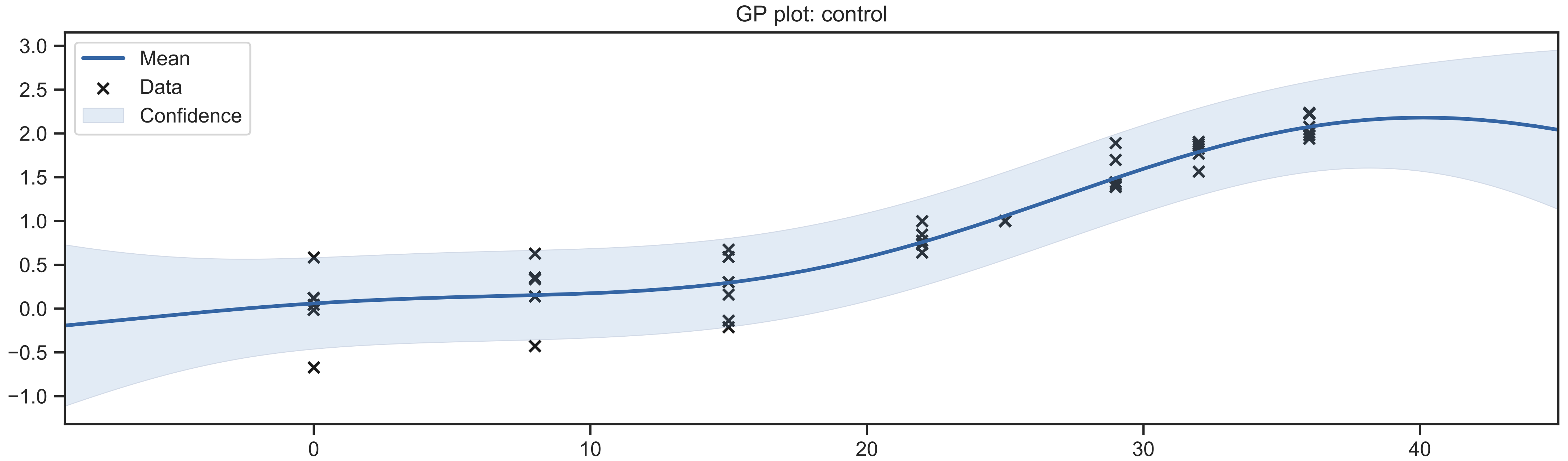

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

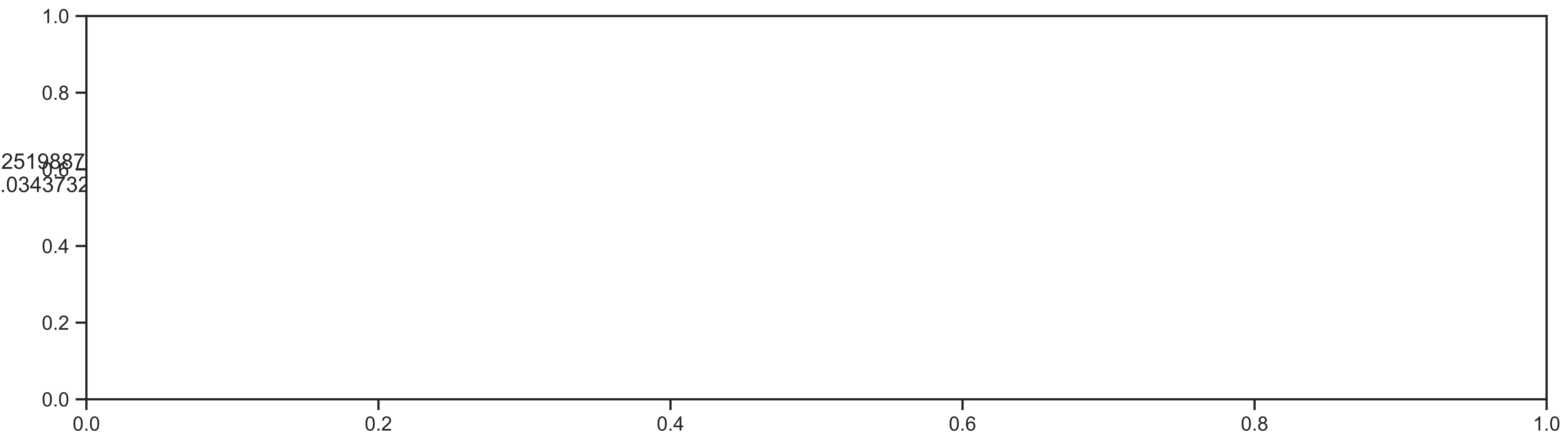

Means


Pointwise KL divergence

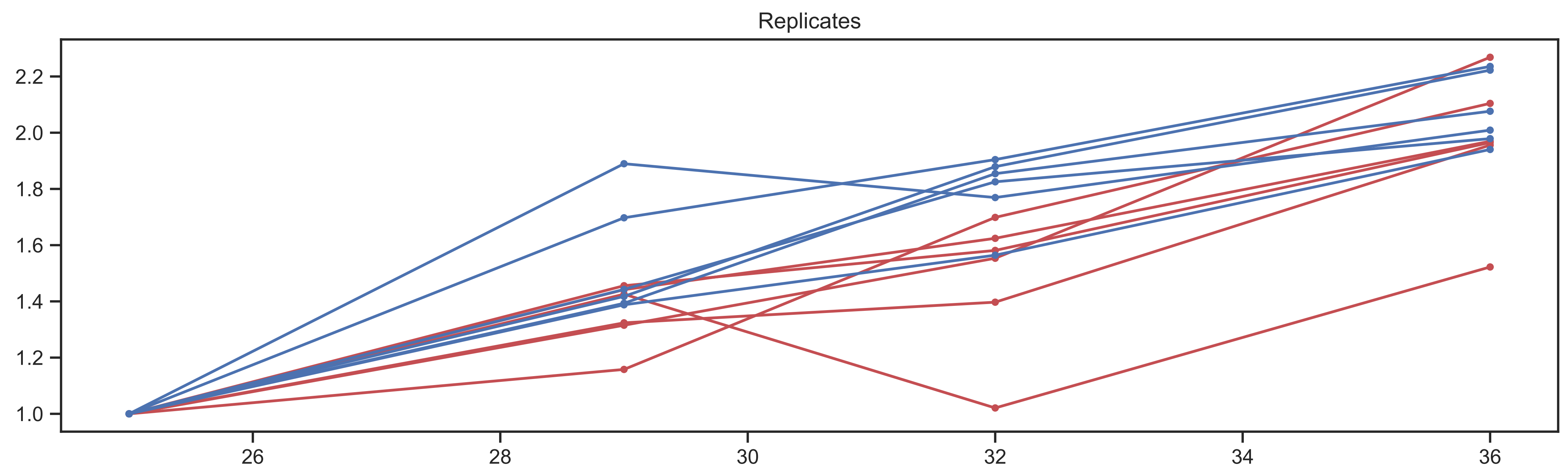

GP plot: case


GP plot: control

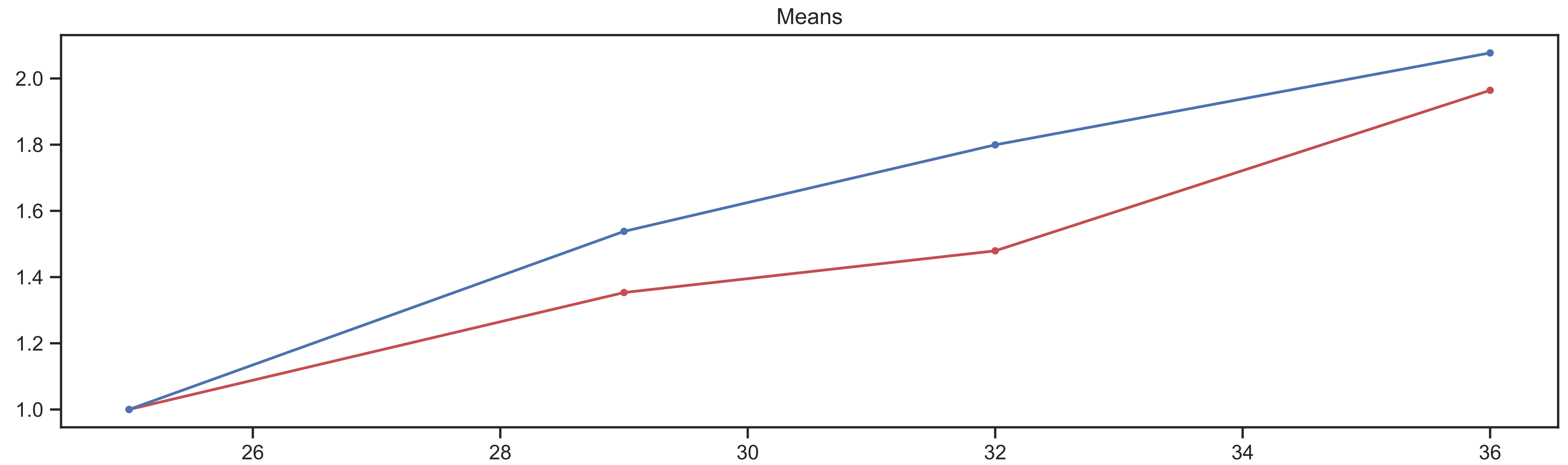
mRECIST: (0,0,2,4
kl: 0.35310126712741075
response_angle_rel: 0:0.07586024646032989_1:0.10650726910587091_2:0.044061491076743196_3:0.025173288811382307_4:0.026455577739384183_5:0.110922519887
response_angle_rel_control: 0:0.041215782465825426_1:0.04633288451917505_2:0.048697586455035566_3:0.04397101633497337_4:0.04358393677917067_5:0.0343732
auc_norm: 0:0.188662332187842_1:0.2921348024060487_2:0.3099378748150159_3:0.19206593087421753_4:0.24179539835827363_5:0.3084745426127901
auc_control_norm: 0:[0.27659632]_1:[0.24222553]_2:[0.32615797]_3:[0.34406853]_4:[0.30750993]_5:[0.24979397]
tgi: 0.09710776623294792
red = treatment,   blue=control

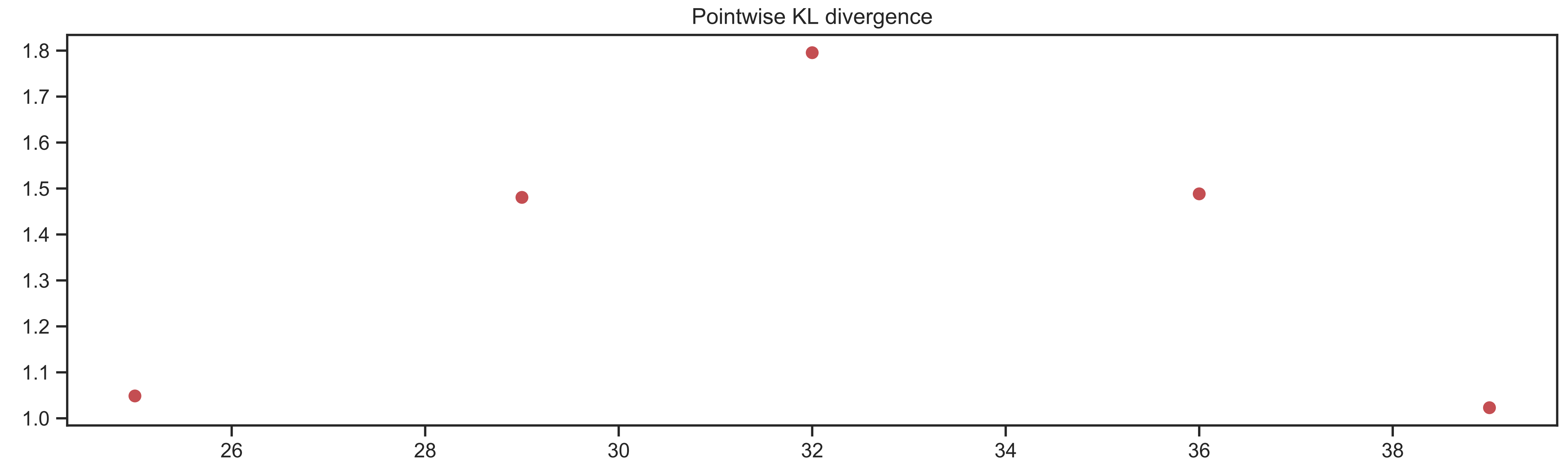


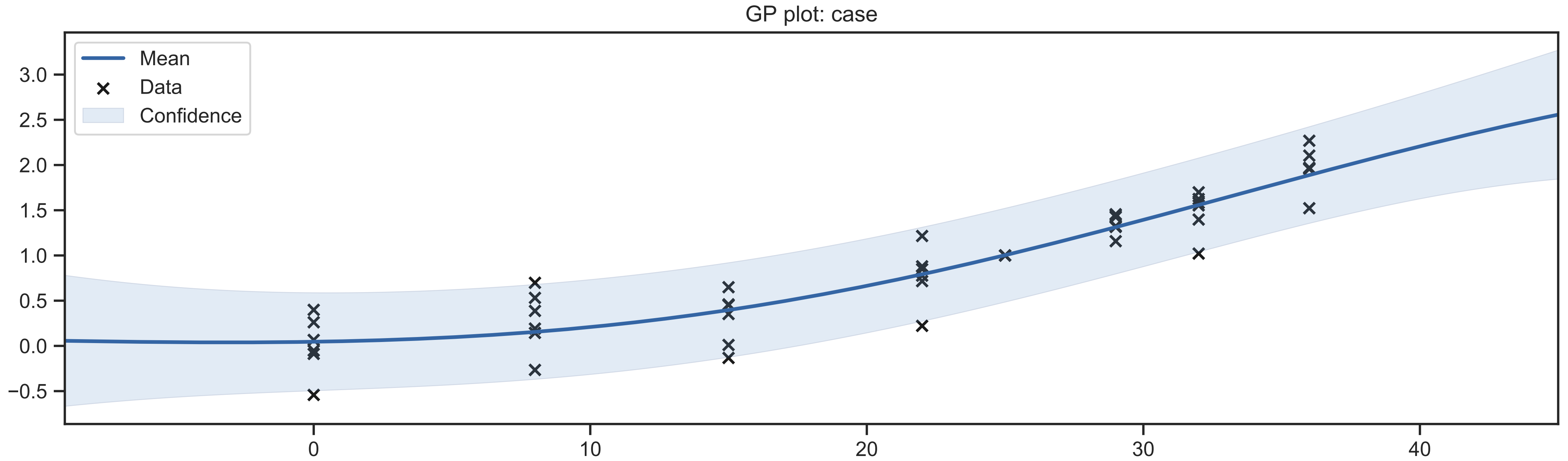
P20*C3

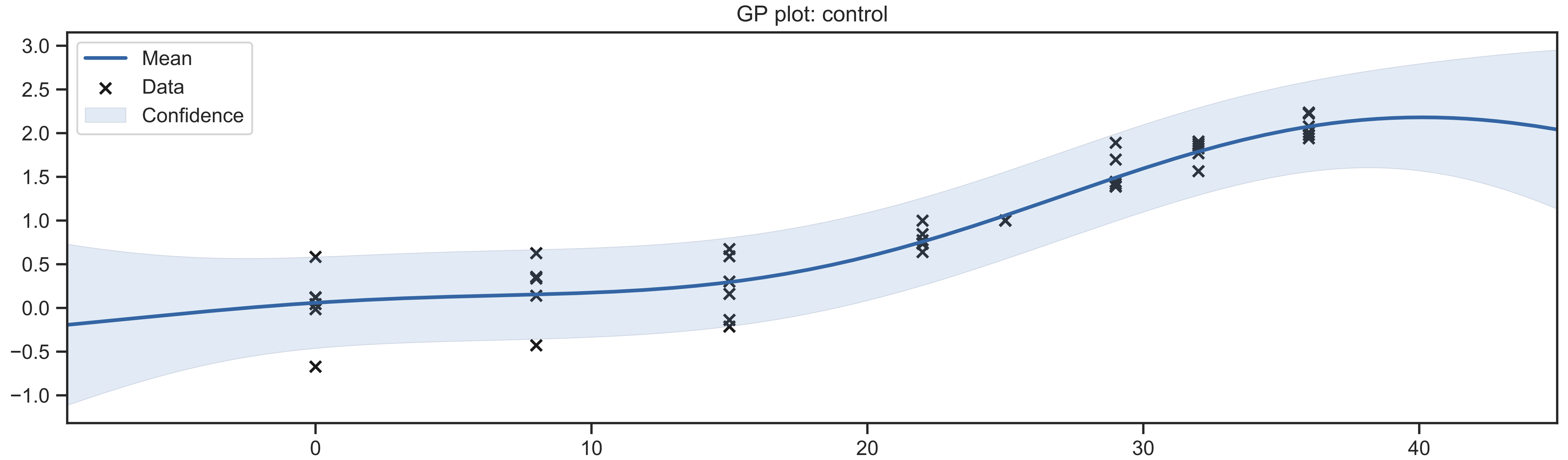


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

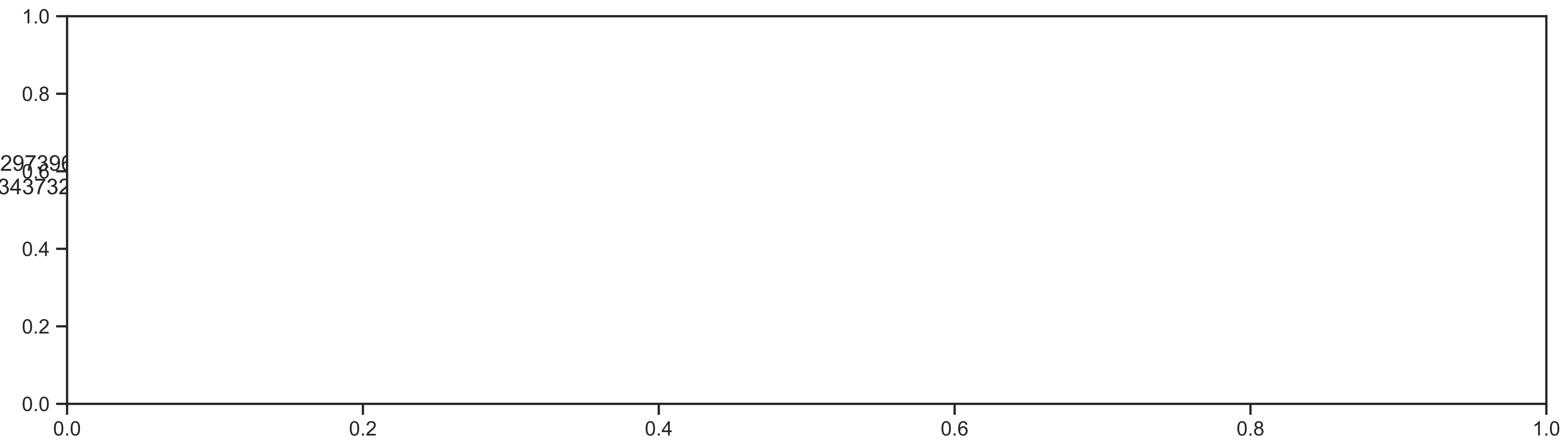






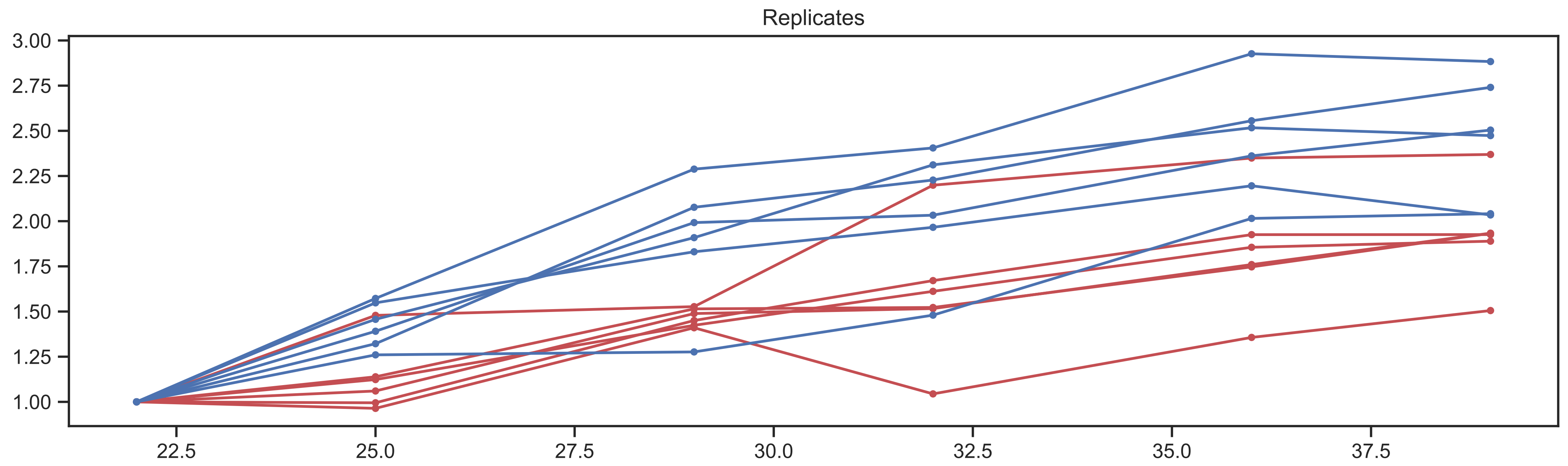


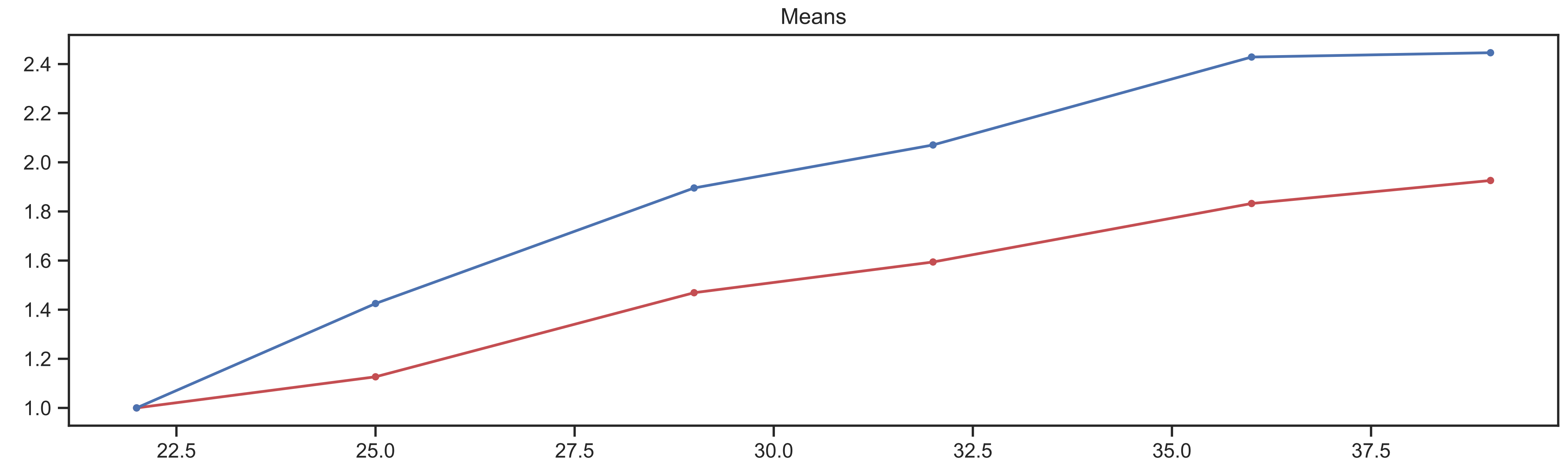
```
mRECIST: (0,0,2,4
kl: 0.46372415687900426
response_angle_rel: 0:0.03502219062282157_1:0.007125390504310507_2:-0.004773561867941358_3:0.06860466103994019_4:0.05924952950909946_5:0.056678629739
response_angle_rel_control: 0:0.041215782465825426_1:0.04633288451917505_2:0.048697586455035566_3:0.04397101633497337_4:0.04358393677917067_5:0.0343732
auc_norm: 0:0.09685812924837847_1:0.3369190808872838_2:0.32112655254305145_3:0.24506548596031213_4:0.25172631357986086_5:0.2575910952641327
auc_control_norm: 0:[0.27659632]_1:[0.24222553]_2:[0.32615797]_3:[0.34406853]_4:[0.30750993]_5:[0.24979397]
tgi: 0.27310696785823785
red = treatment,       blue=control
```

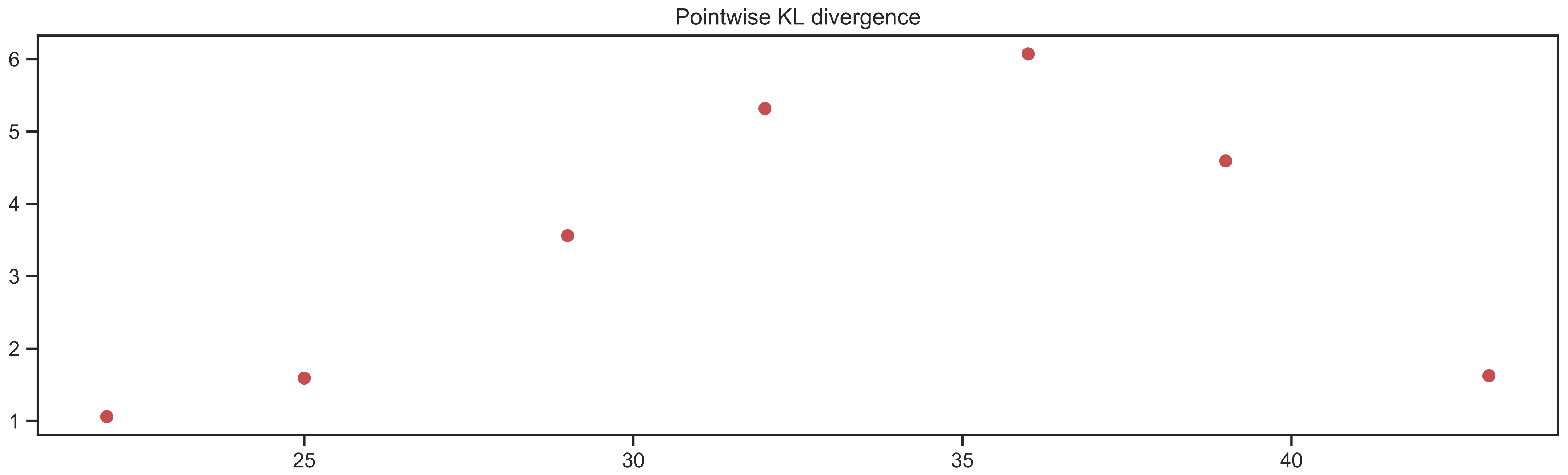


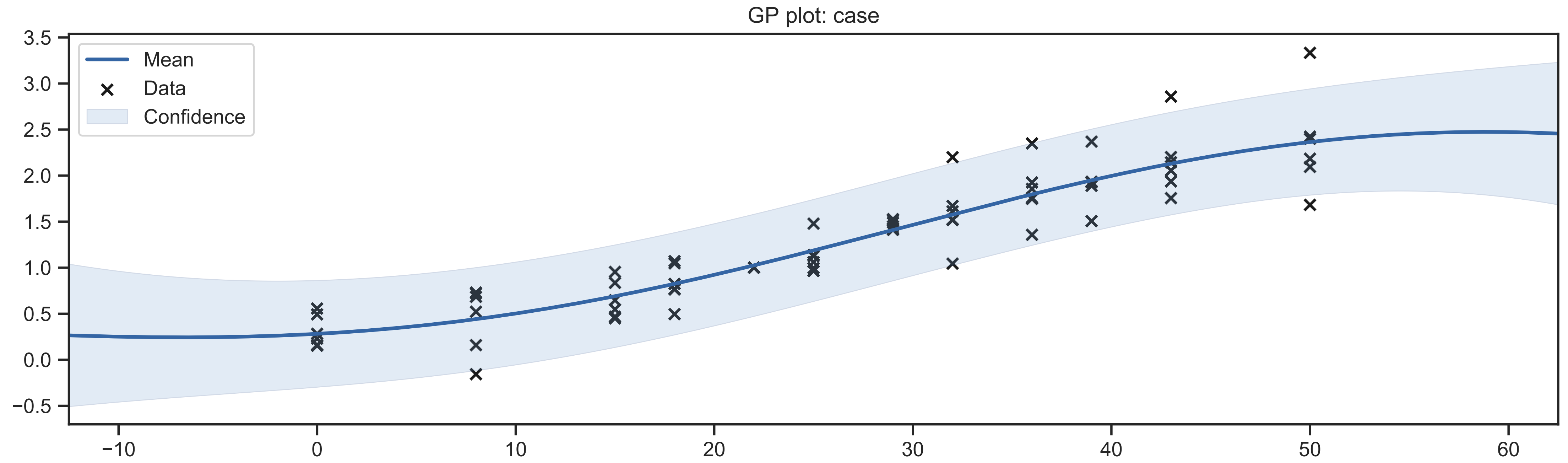
P21*C1

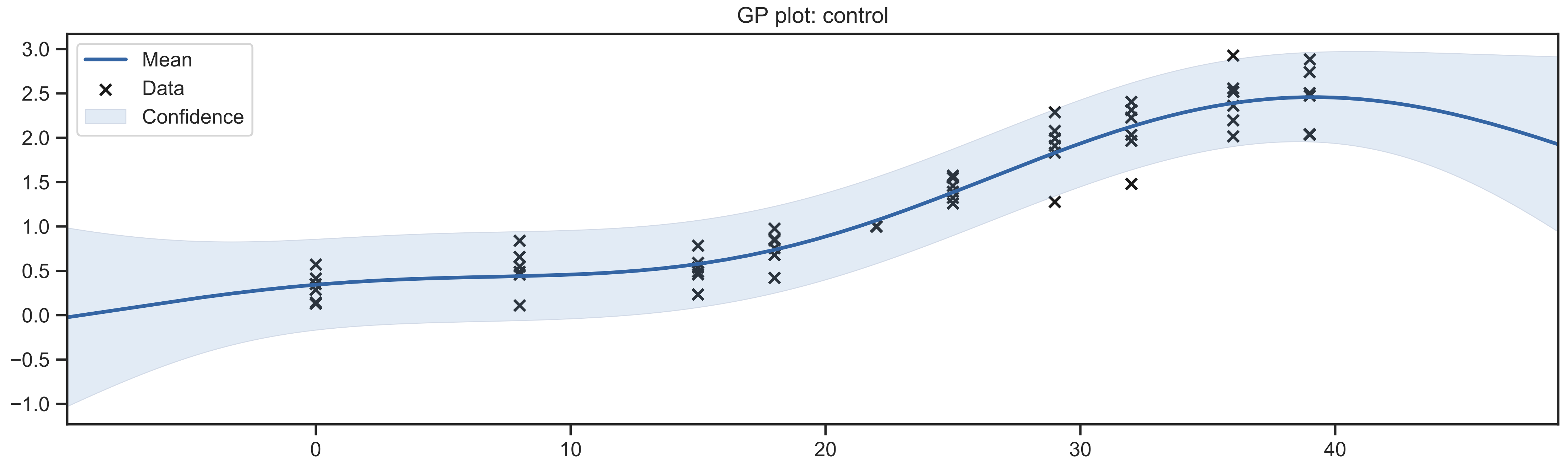
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N



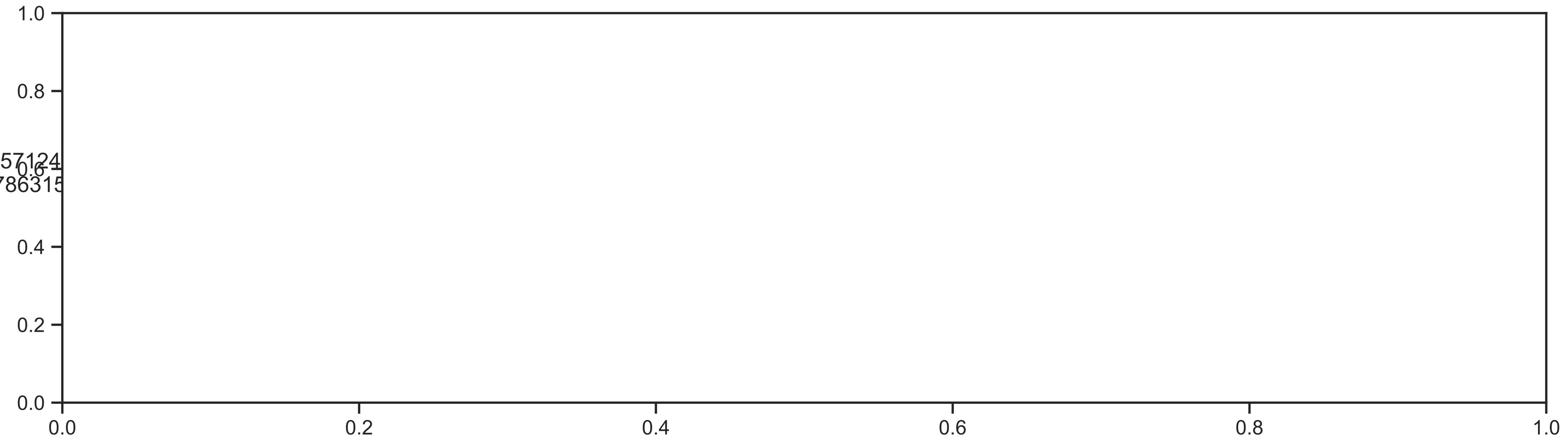




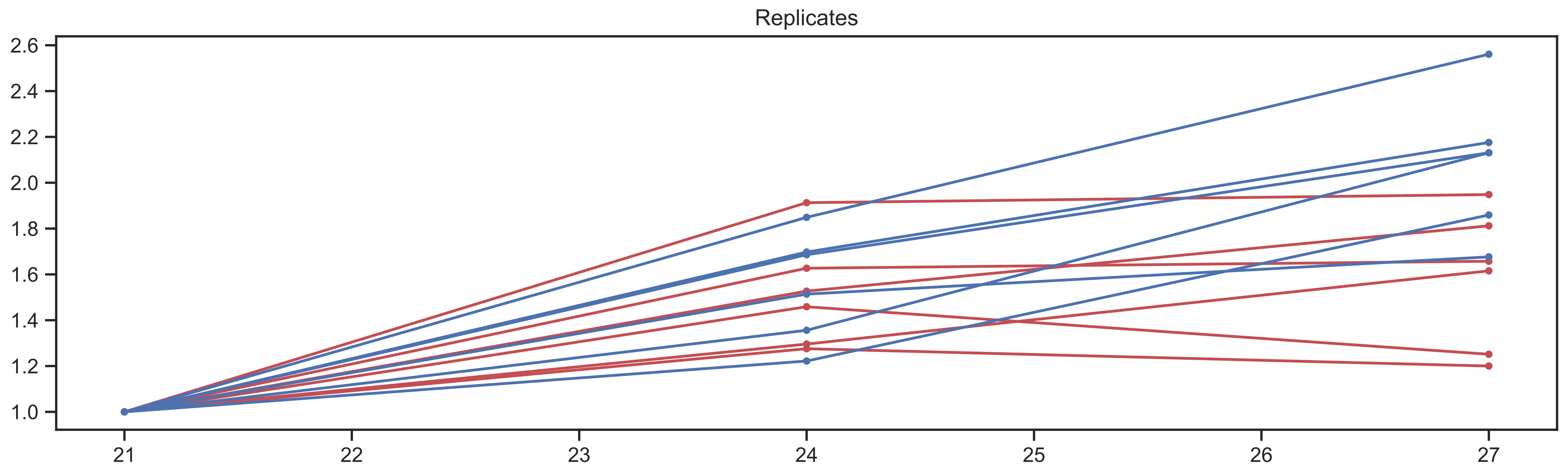




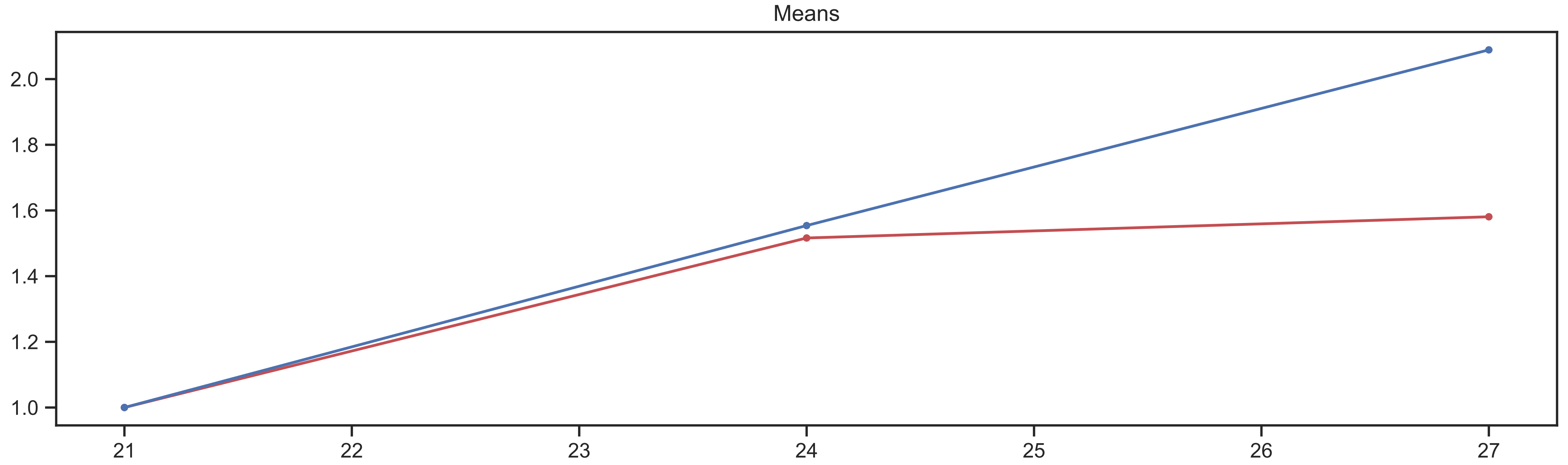
mRECIST: (0,0,5,1
kl: 2.7766211484764045
response_angle_rel: 0:0.038797929589015574_1:0.0313196765520114_2:0.04759934702431929_3:0.023776160036962105_4:0.01184857867065737_5:0.03905464757124
response_angle_rel_control: 0:0.04552180515262168_1:0.07185492286892975_2:0.07747801156575833_3:0.030436412421796313_4:0.0824326238647257_5:0.118786315
auc_norm: 0:0.2608057903843226_1:0.25514550431161453_2:0.10520620663843805_3:0.4398115777603516_4:0.24943616424832032_5:0.2510702727889612
auc_control_norm: 0:[0.30207618]_1:[0.42384852]_2:[0.43638517]_3:[0.30111931]_4:[0.48986315]_5:[0.52467384]
tgi: 0.22879435751213872
red = treatment,   blue=control

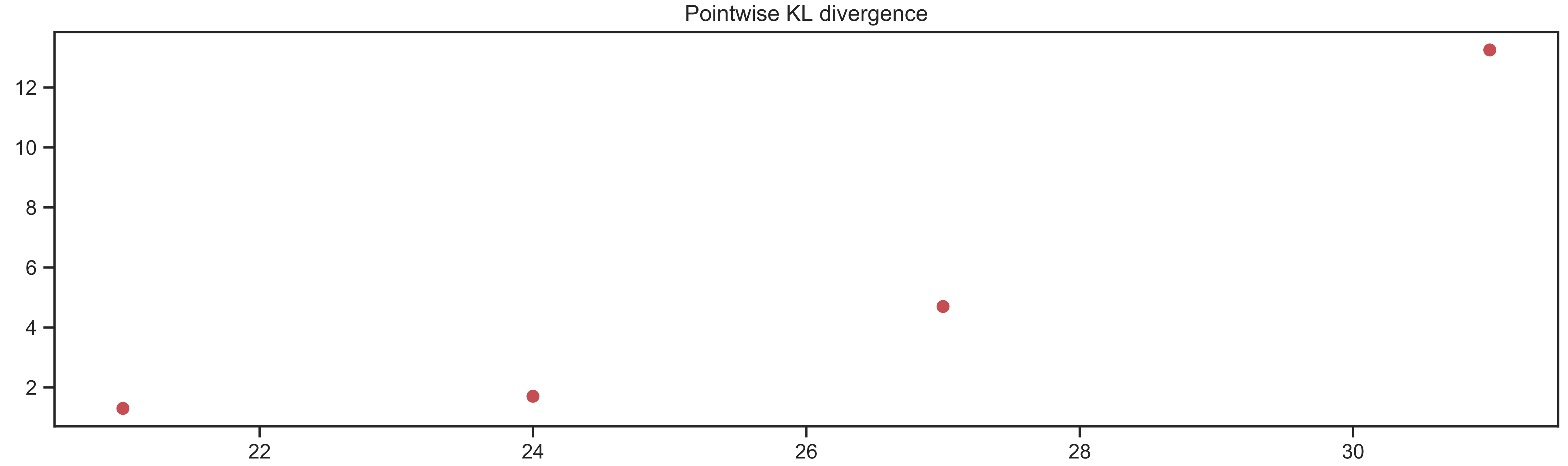


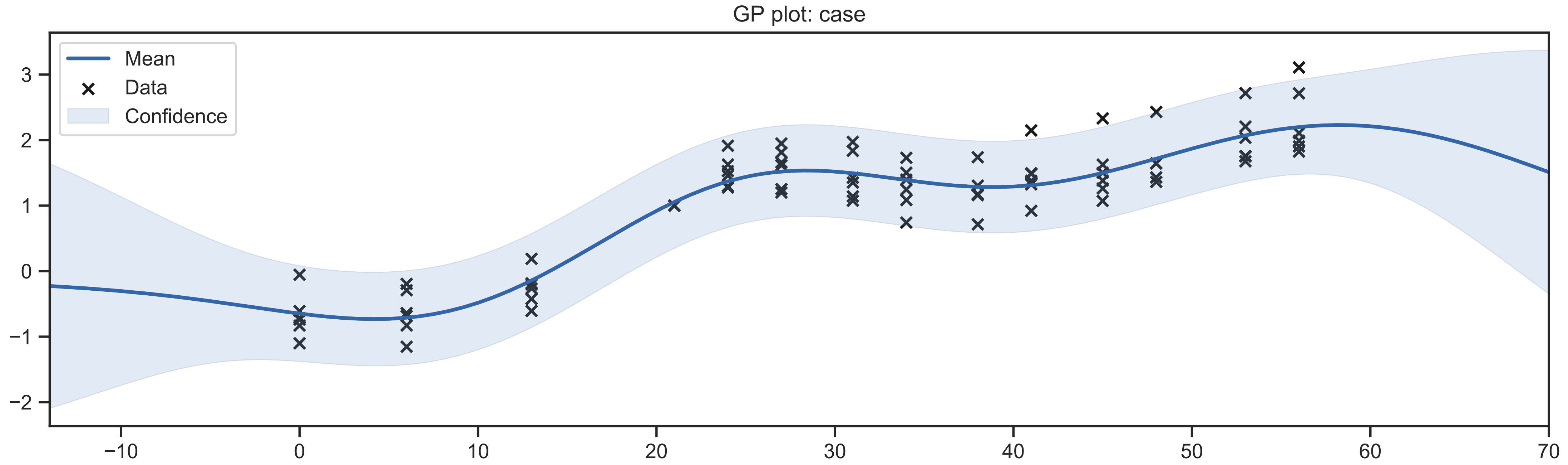
P22*C1

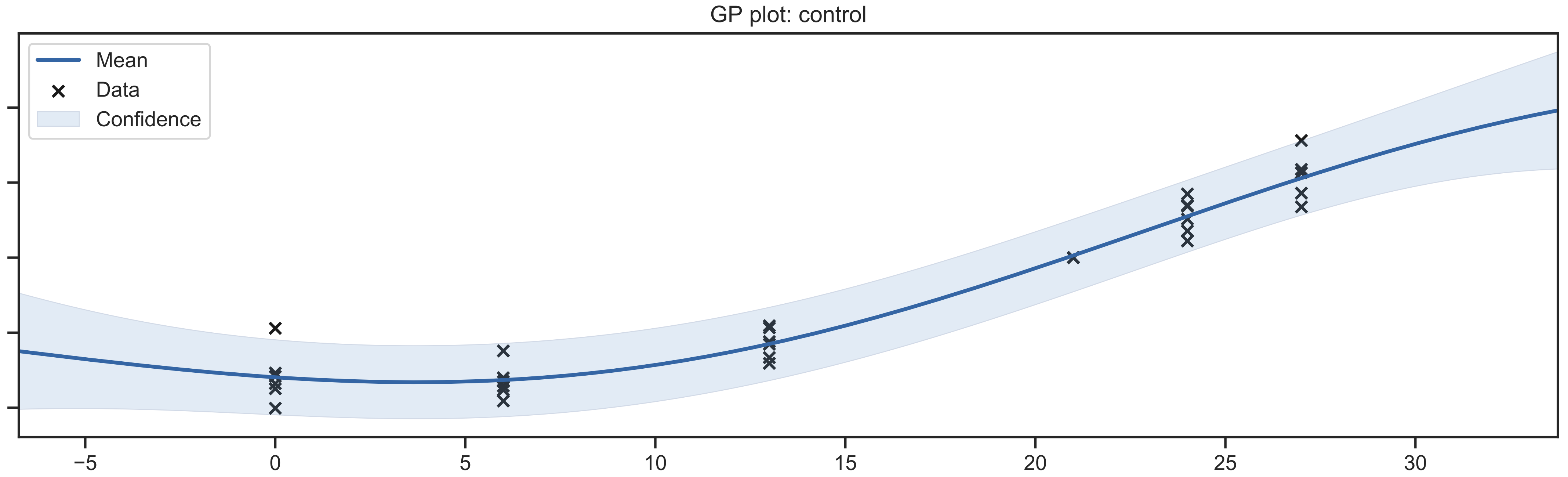


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

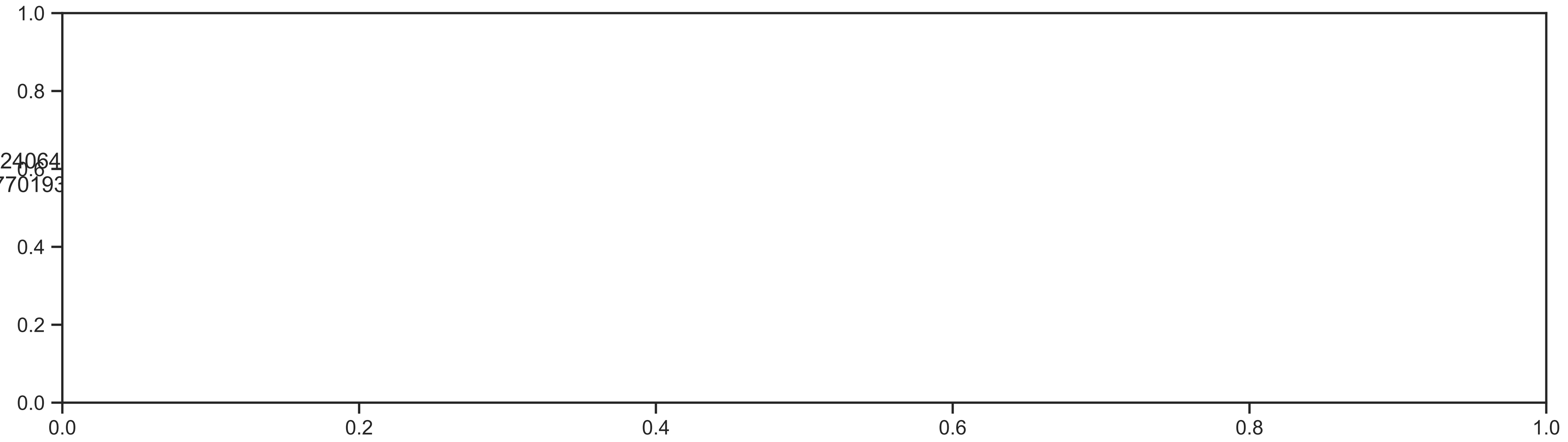




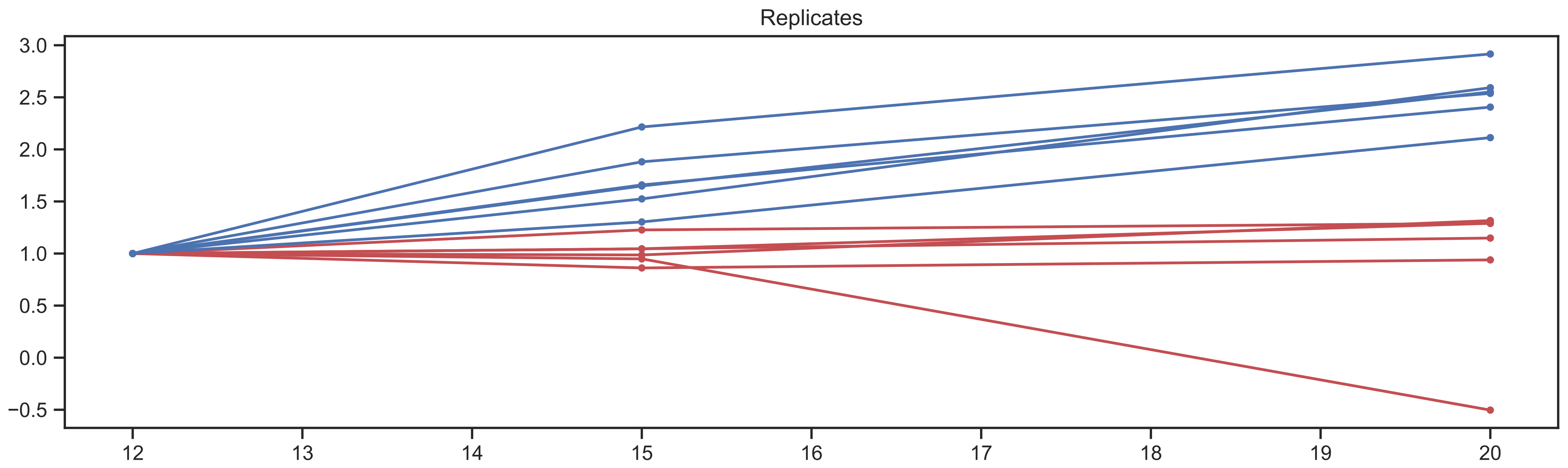




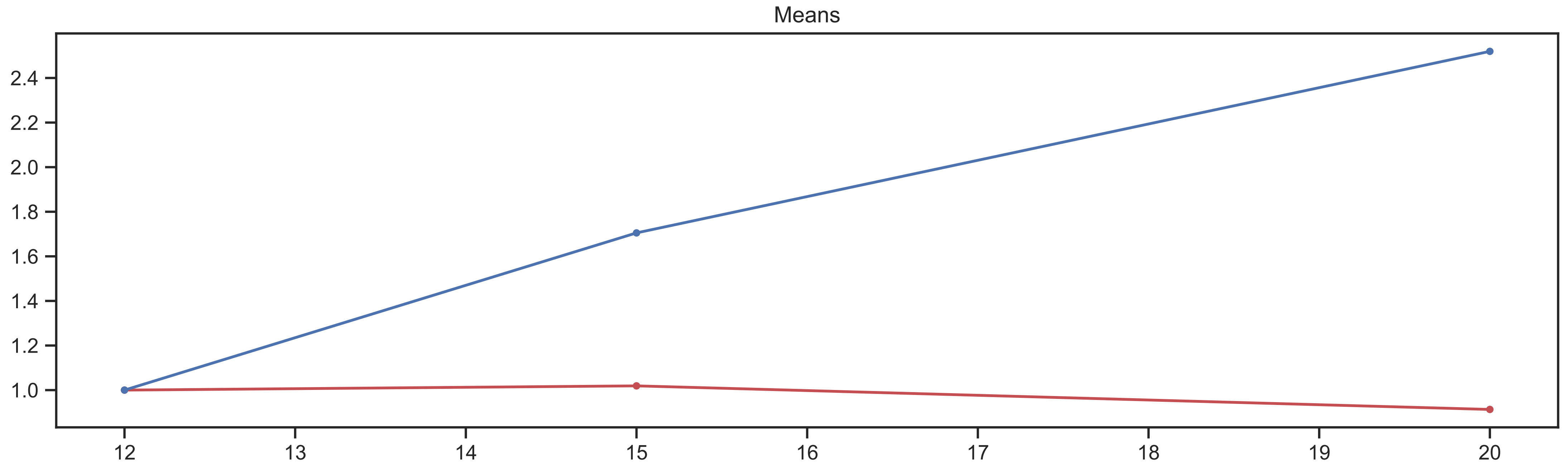
mRECIST: (0,0,2,4
kl: 3.801227731575263
response_angle_rel: 0:0.0396082967340699_1:0.021821592986957523_2:0.017626764086233374_3:0.0809569206150942_4:0.026091005193864782_5:0.02173478424064
response_angle_rel_control: 0:0.07984530248632296_1:0.06597451171247913_2:0.062047754940036504_3:0.03959844283421824_4:0.1228746849454322_5:0.031770193
auc_norm: 0:0.08380346416375868_1:0.21915472868987096_2:0.20512288089053882_3:0.31608955890943924_4:0.2706510336517194_5:0.06665400422770618
auc_control_norm: 0:[0.39190569]_1:[0.3769163]_2:[0.37687443]_3:[0.28643604]_4:[0.52027406]_5:[0.22546727]
tgi: 0.672752615014087
red = treatment, blue=control

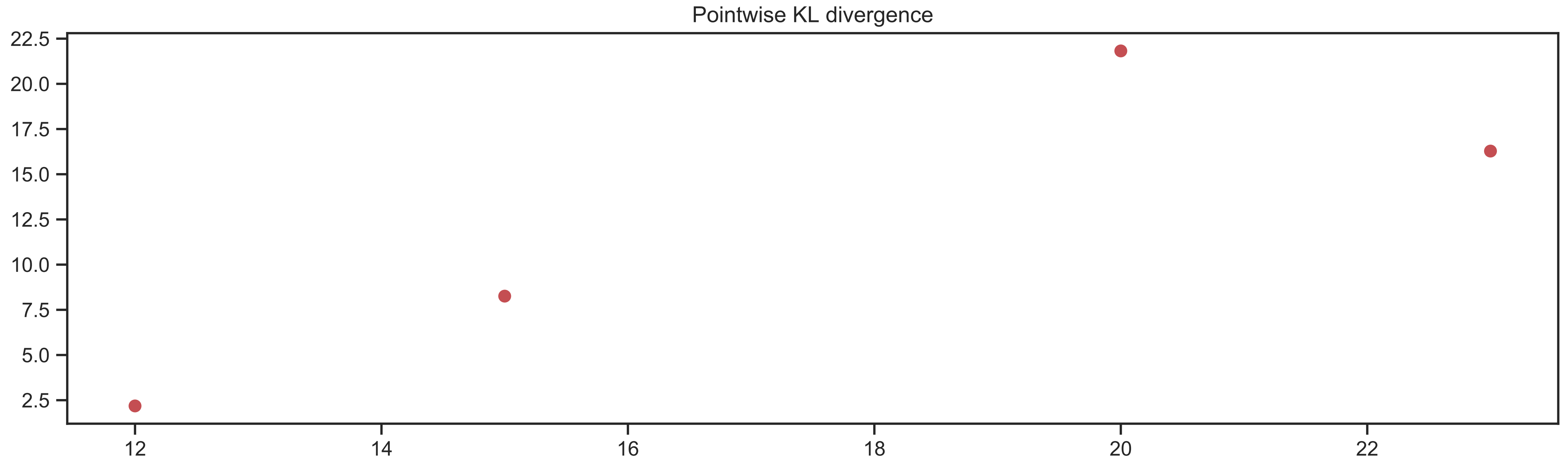


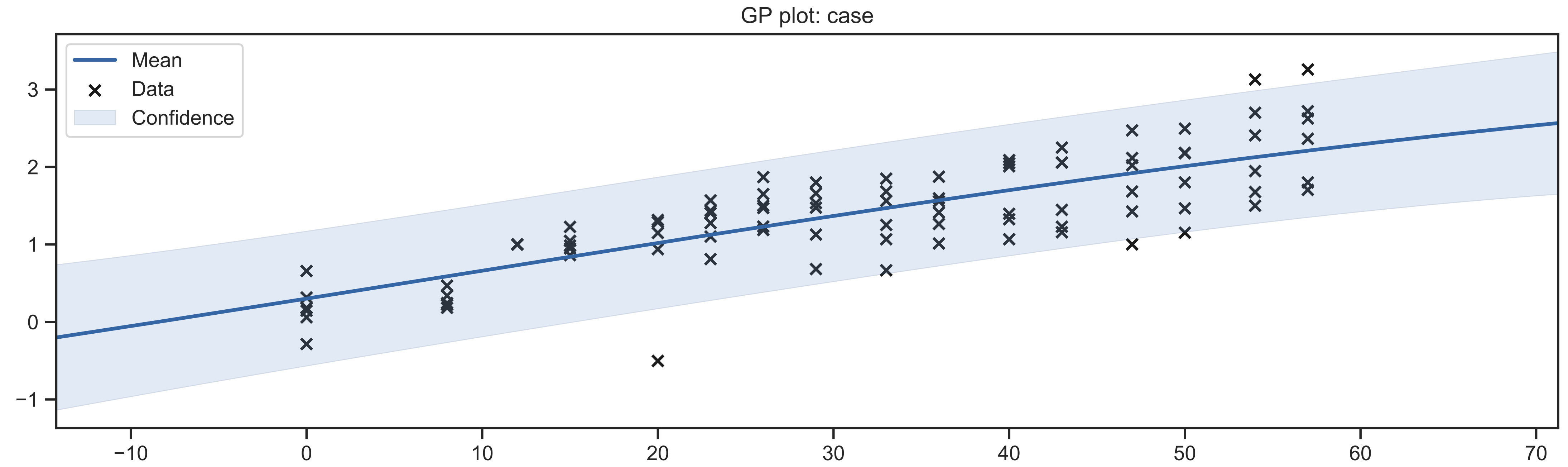
P23*C1

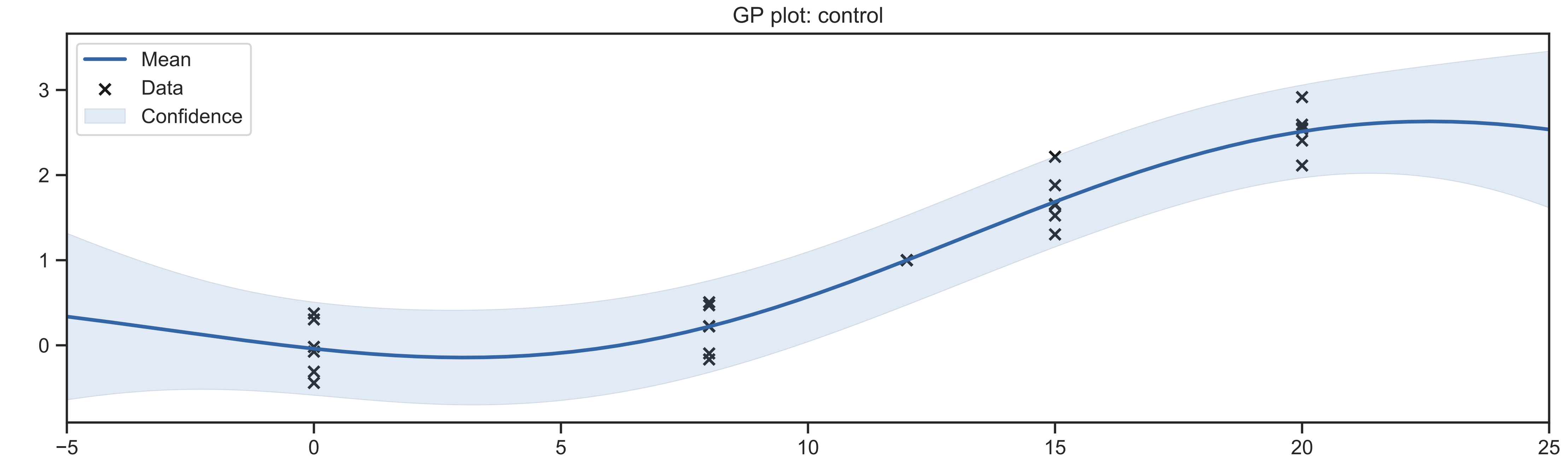

Replicates

KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y


Means

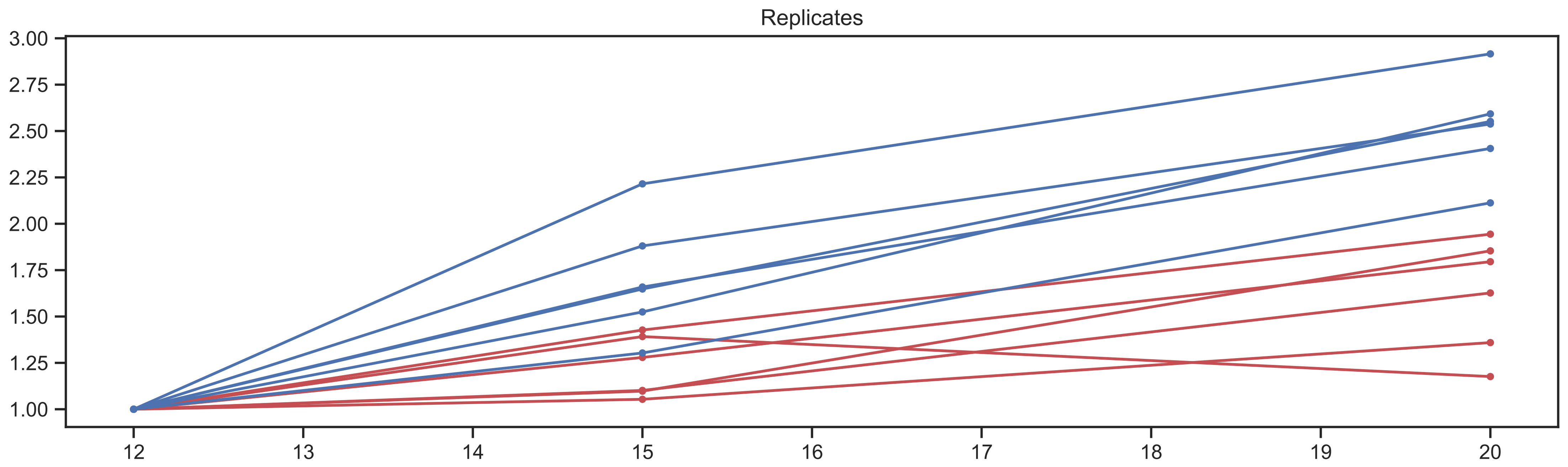

Pointwise KL divergence


GP plot: case

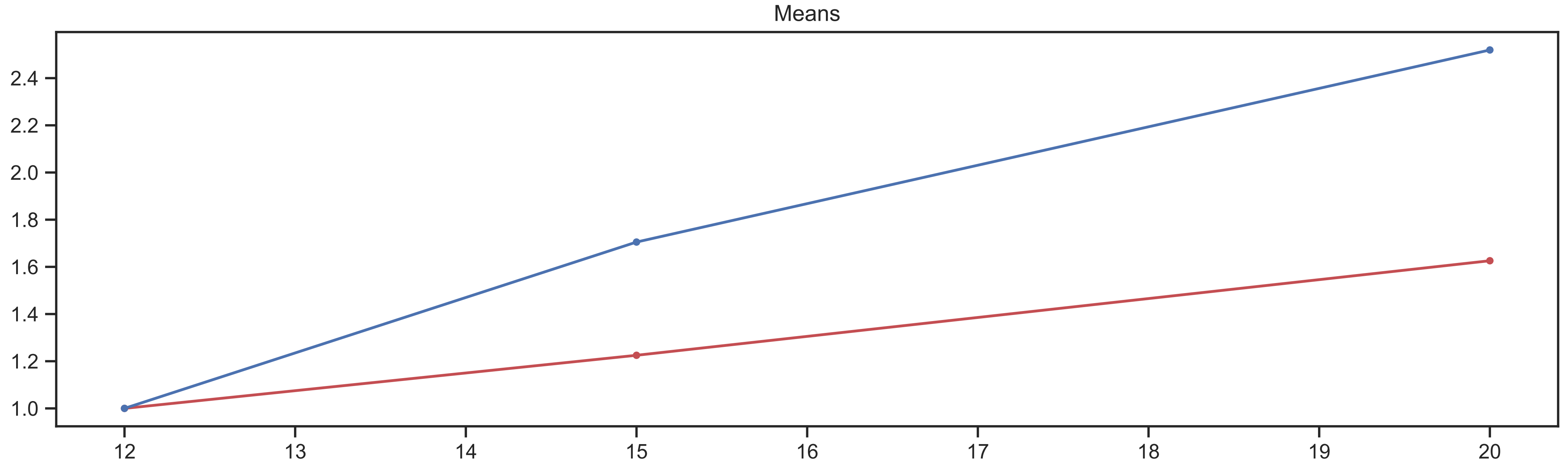

GP plot: control

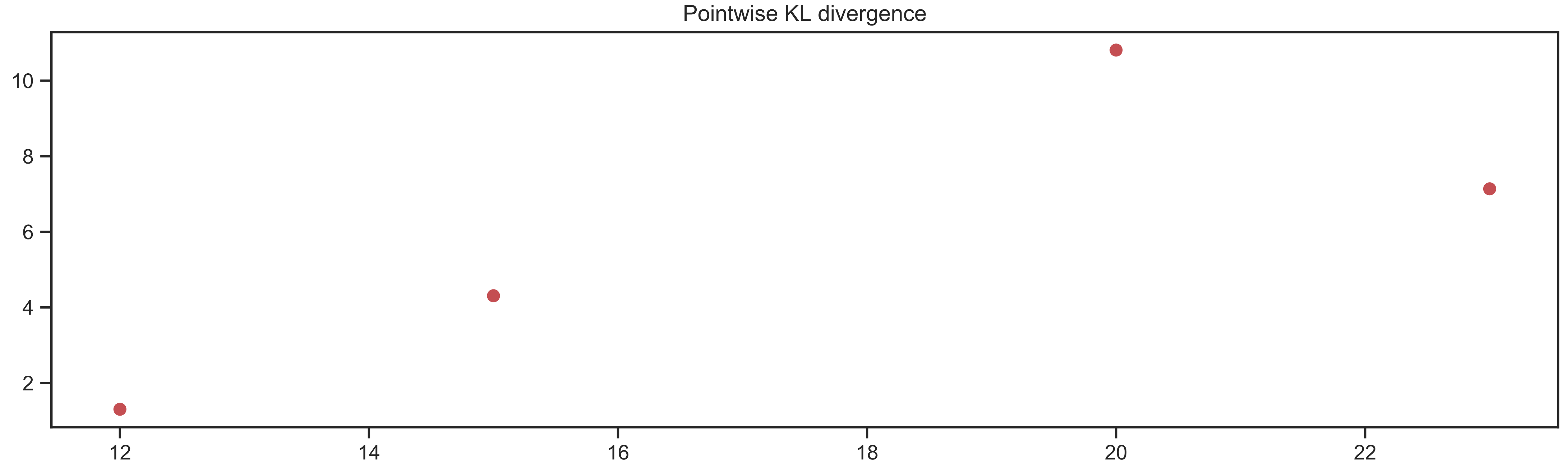
mRECIST: (0,1,5,0
kl: 13.004772227969031
response_angle_rel: 0:0.029605362603036294_1:0.01293482229115982_2:0.04913376870210438_3:0.05990810302582591_4:0.09611574999585643_5:0.00844911616083
response_angle_rel_control: 0:0.1805118909388164_1:0.315357009056579_2:0.15957504725307248_3:0.10668147488340363_4:0.22658064369502584_5:0.179110757071
auc_norm: 0:-0.030688928183333554_1:-0.3075433697222348_2:0.06141785616975642_3:0.08807096319028322_4:0.0640737138305892_5:0.035728807436582834
auc_control_norm: 0:[0.39676796]_1:[0.54519329]_2:[0.36901934]_3:[0.26293921]_4:[0.38842986]_5:[0.42492831]
tgi: 0.8707600881453932
red = treatment, blue=control

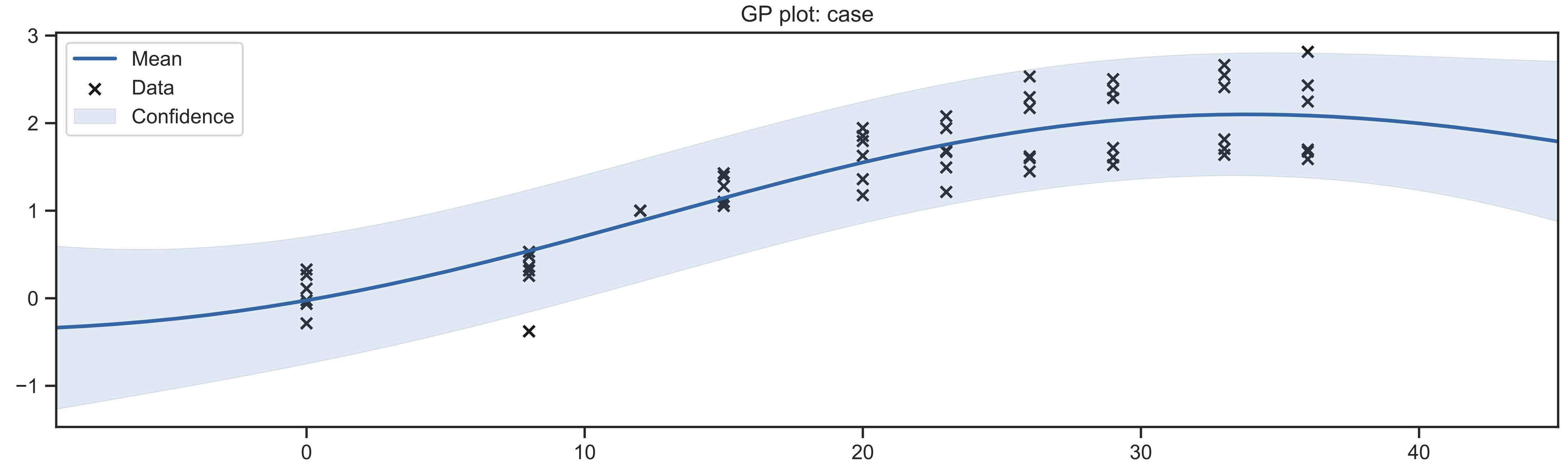
P23*C2

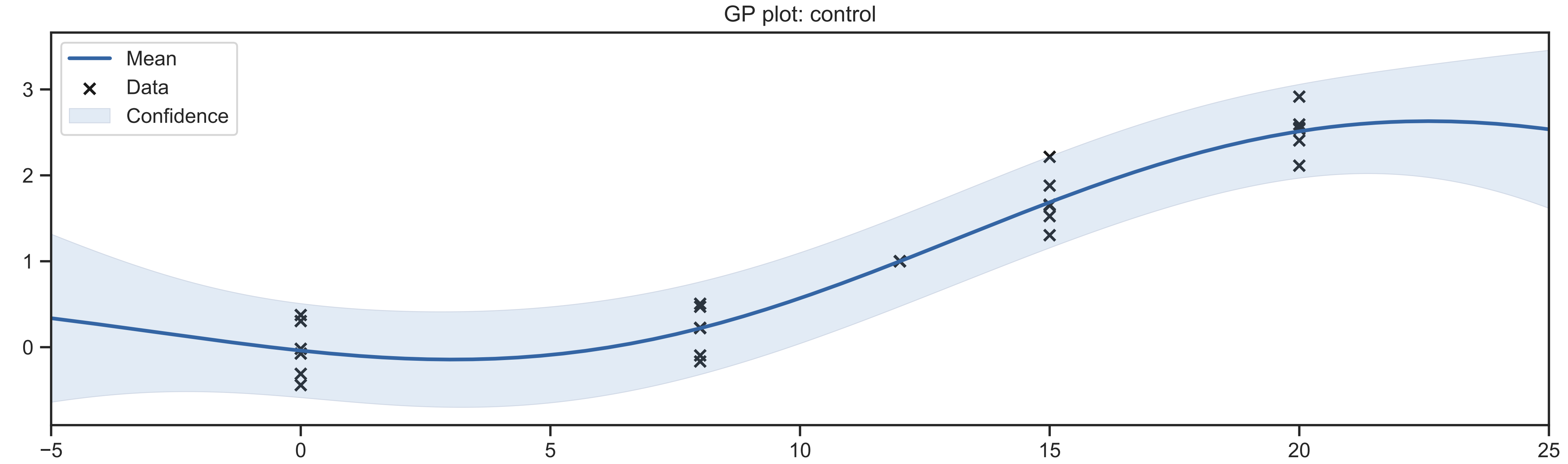


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

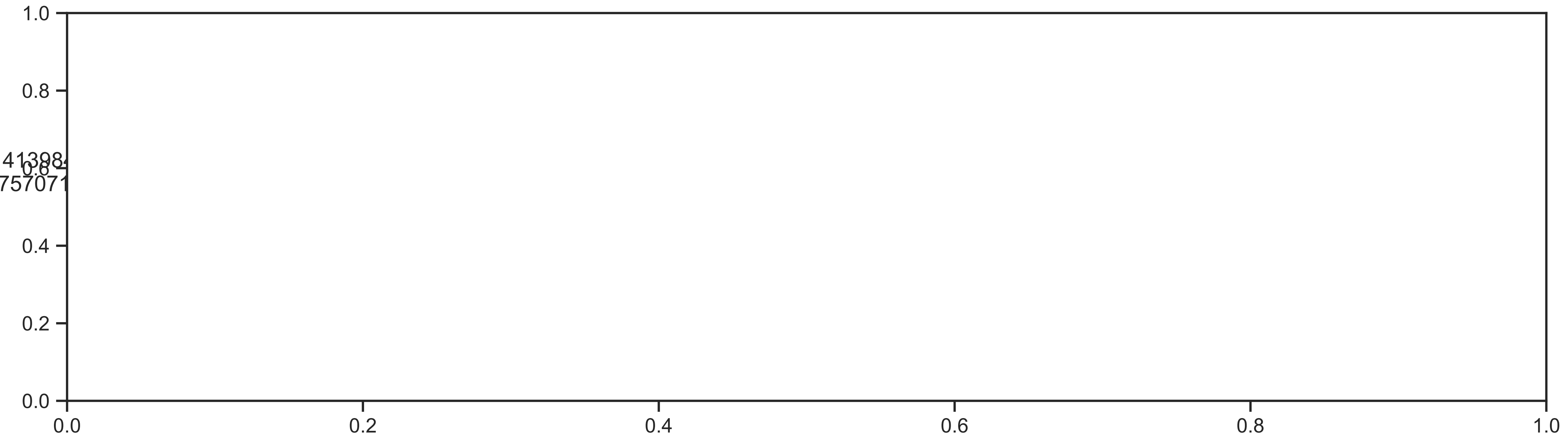




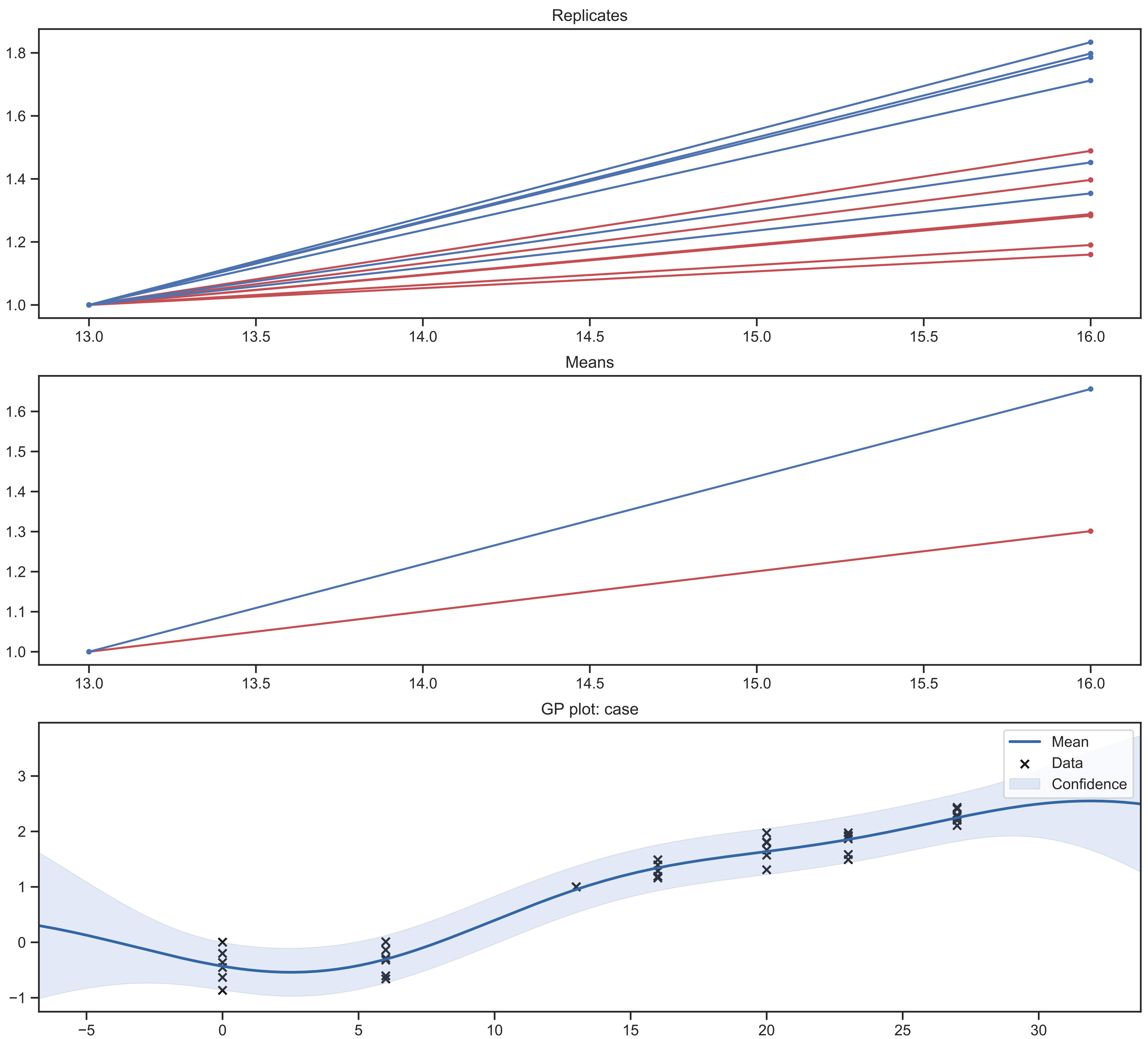




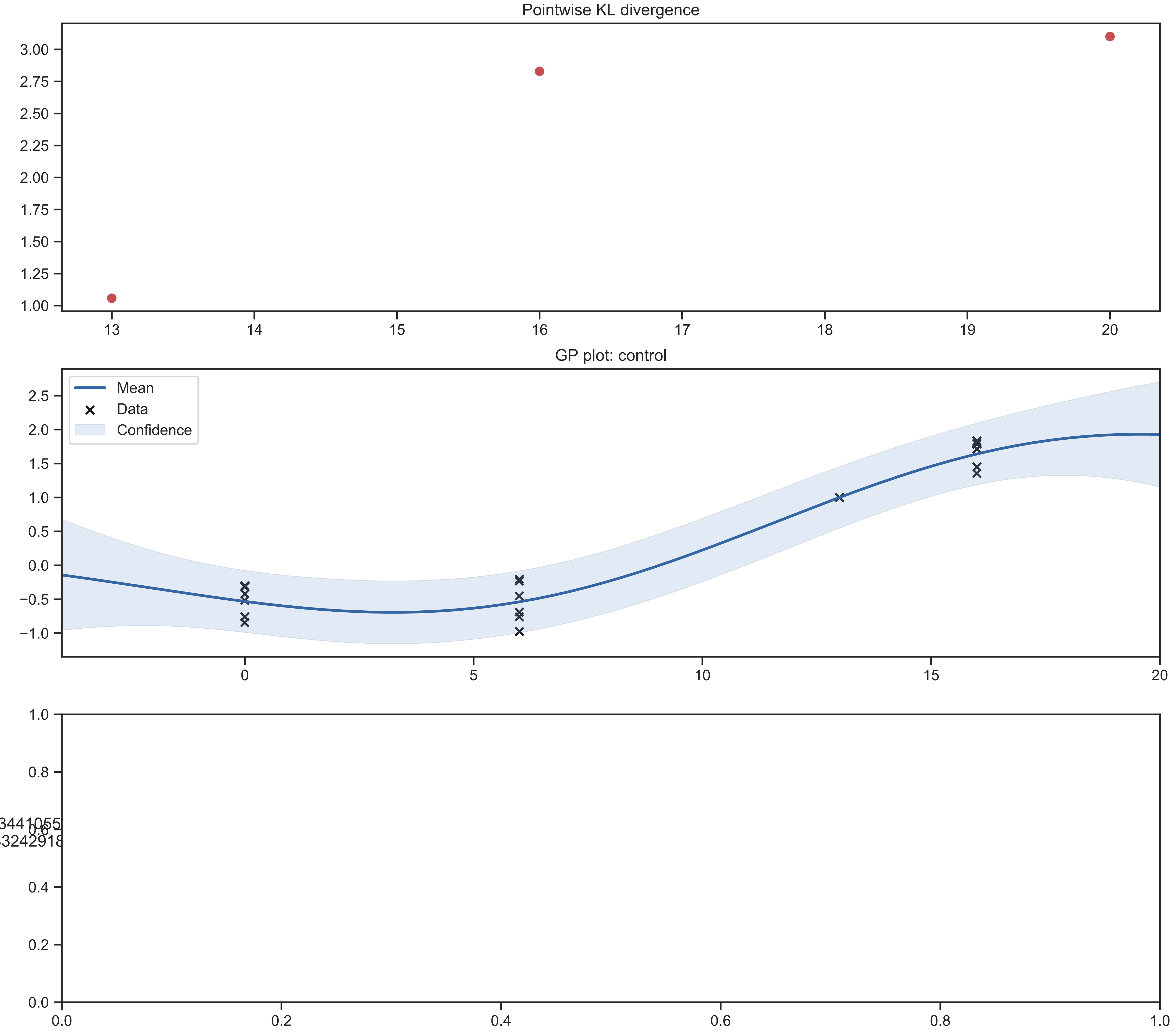
mRECIST: (0,0,4,2
kl: 5.986757950944718
response_angle_rel: 0:0.013845842601556161_1:-0.006563495297497087_2:-0.004944264717876287_3:0.01541665940596979_4:0.023404699679852294_5:-0.004141398
response_angle_rel_control: 0:0.1805118909388164_1:0.315357009056579_2:0.15957504725307248_3:0.10668147488340363_4:0.22658064369502584_5:0.17911075707
auc_norm: 0:0.18379067628185952_1:0.08746801098083083_2:0.07899991399958992_3:0.19631071777931858_4:0.2456925547493299_5:0.1389094357426095
auc_control_norm: 0:[0.39676796]_1:[0.54519329]_2:[0.36901934]_3:[0.26293921]_4:[0.38842986]_5:[0.42492831]
tgi: 0.6699282430164182
red = treatment, blue=control



P24*C1



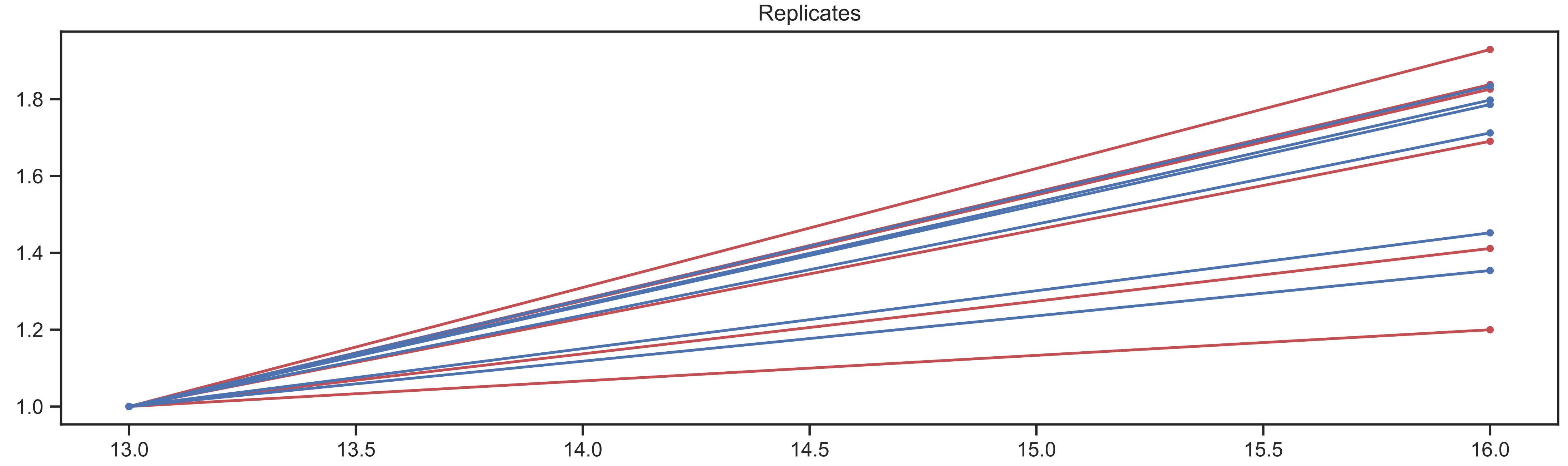
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N



mRECIST: (0,0,2,4
kl: 1.6676975452858973
response_angle_rel: 0:0.053356148908057434_1:0.04644952602032944_2:0.03714800543377855_3:0.026584467470461035_4:0.047842063107465034_5:0.006953441055
response_angle_rel_control: 0:0.09930671823503731_1:0.13137212648591978_2:0.12121331423560422_3:0.08301452095779555_4:0.07200425025872176_5:0.18324291
auc_norm: 0:0.13221998910205413_1:0.05327599915101618_2:0.1629304014689128_3:0.09438856640489839_4:0.09602993940344555_5:0.06337931394691498
auc_control_norm: 0:[0.11799691]_1:[0.2779483]_2:[0.26201743]_3:[0.23738838]_4:[0.15072262]_5:[0.26593588]
tgi: 0.5627993758492659
red = treatment,   blue=control

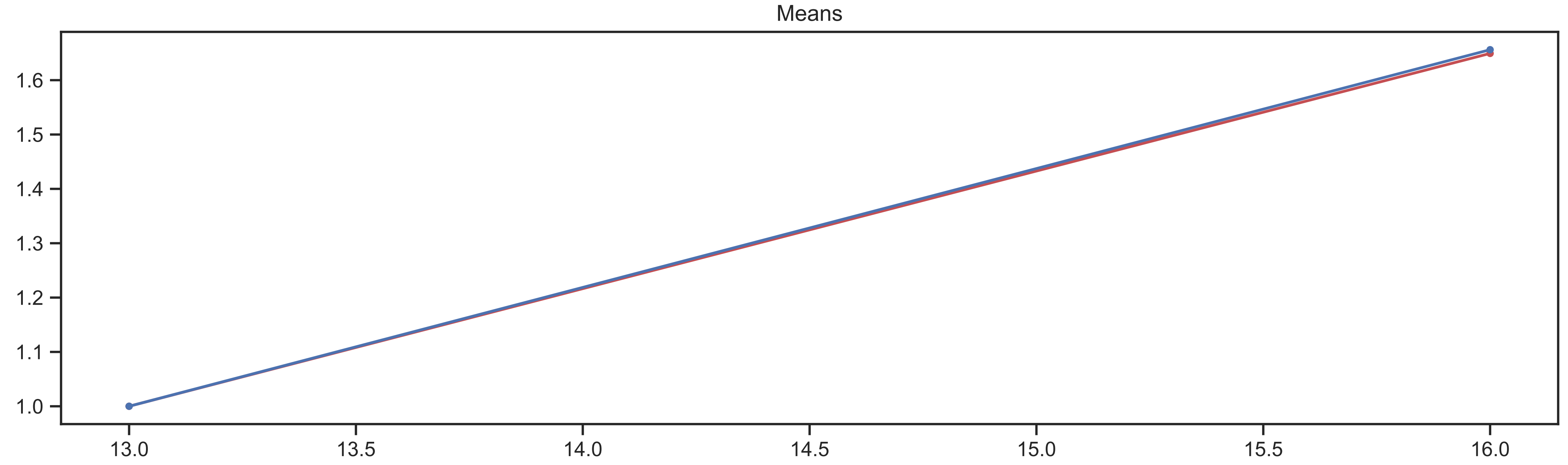
P24*C2

Replicates

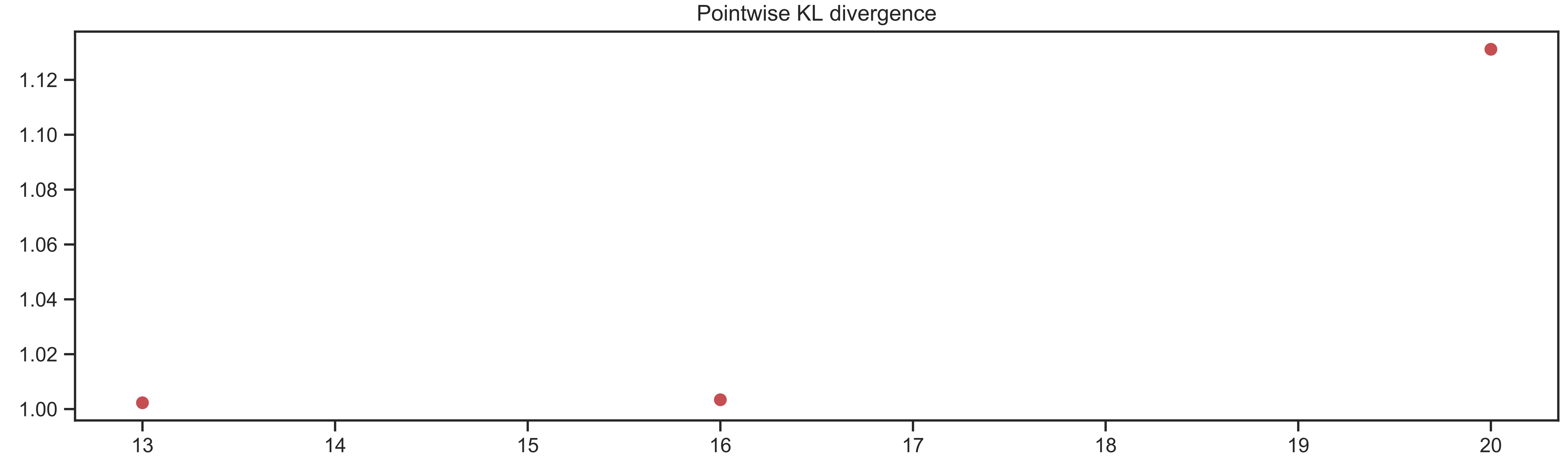


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N

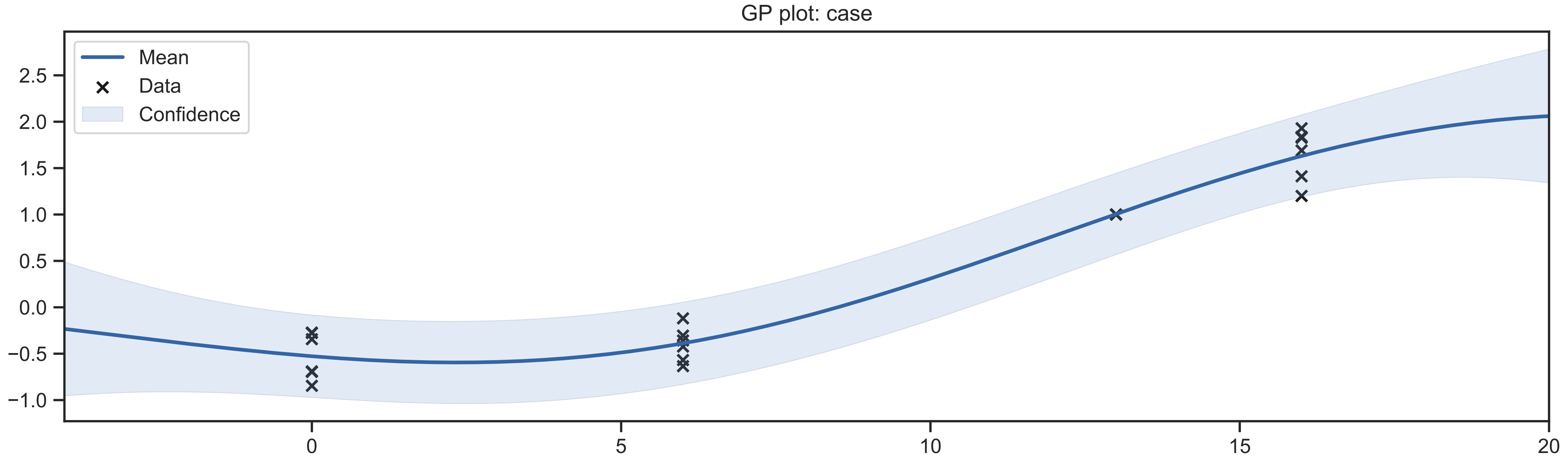
Means



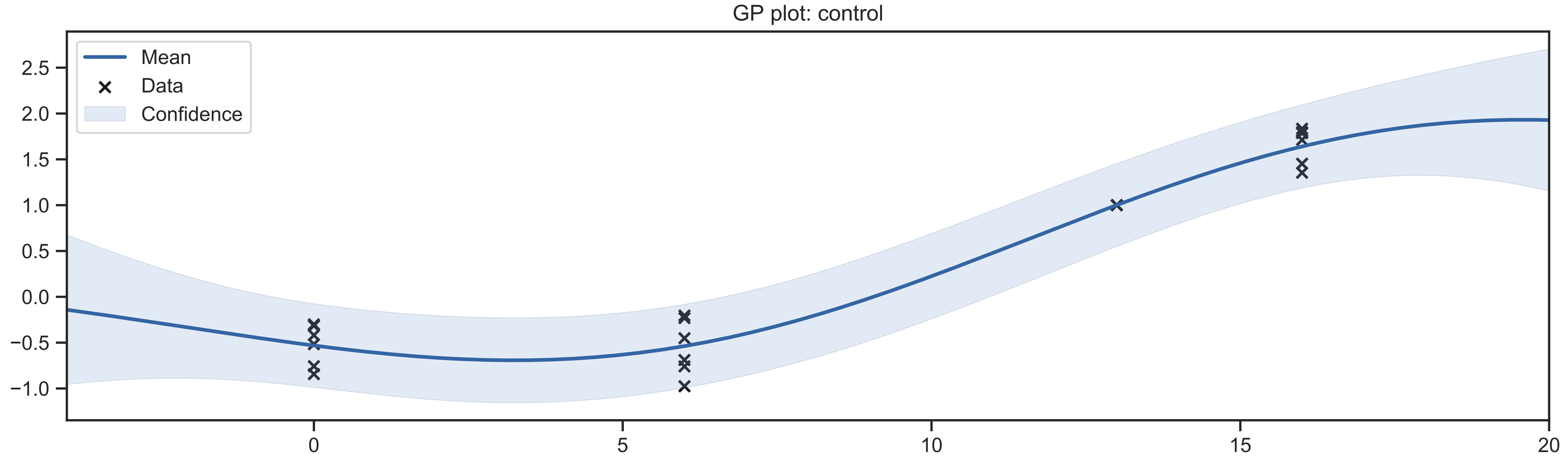
Pointwise KL divergence



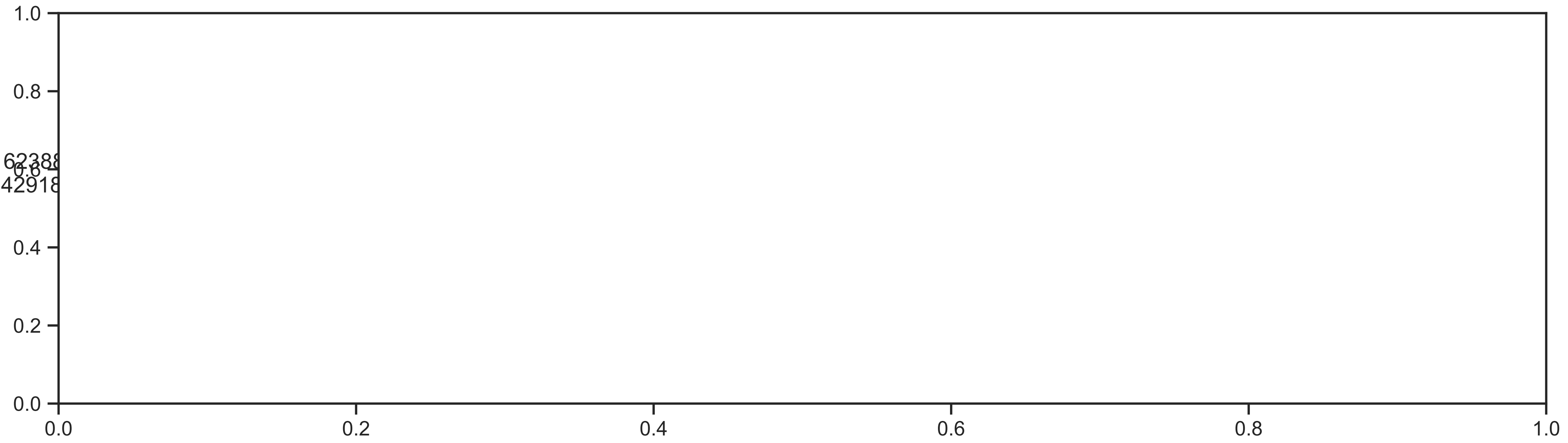
GP plot: case



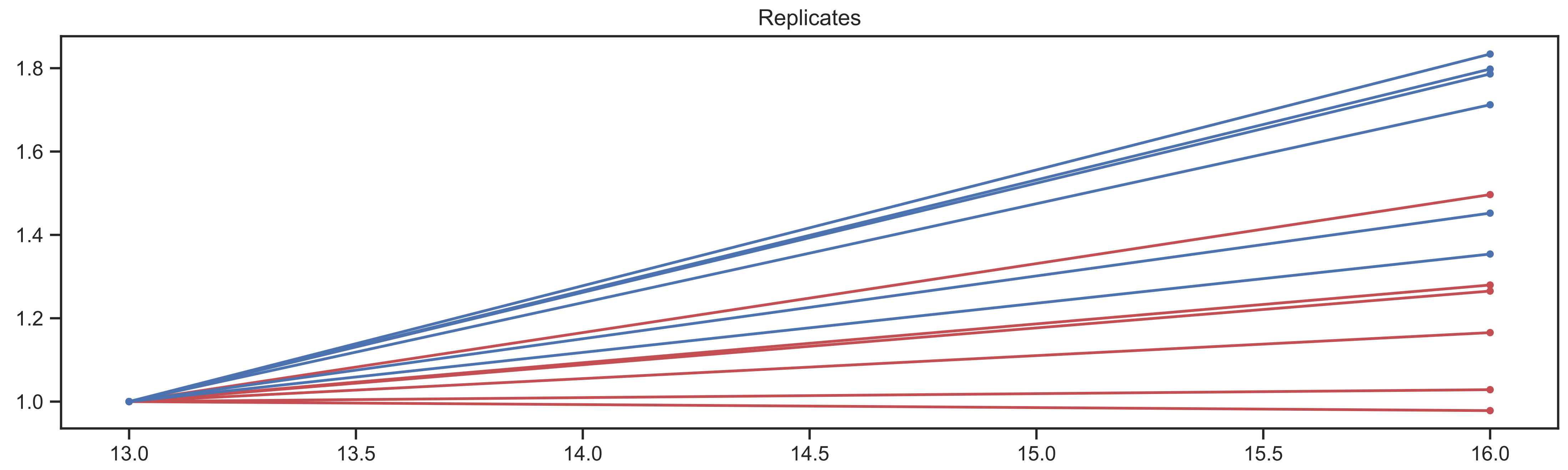
GP plot: control



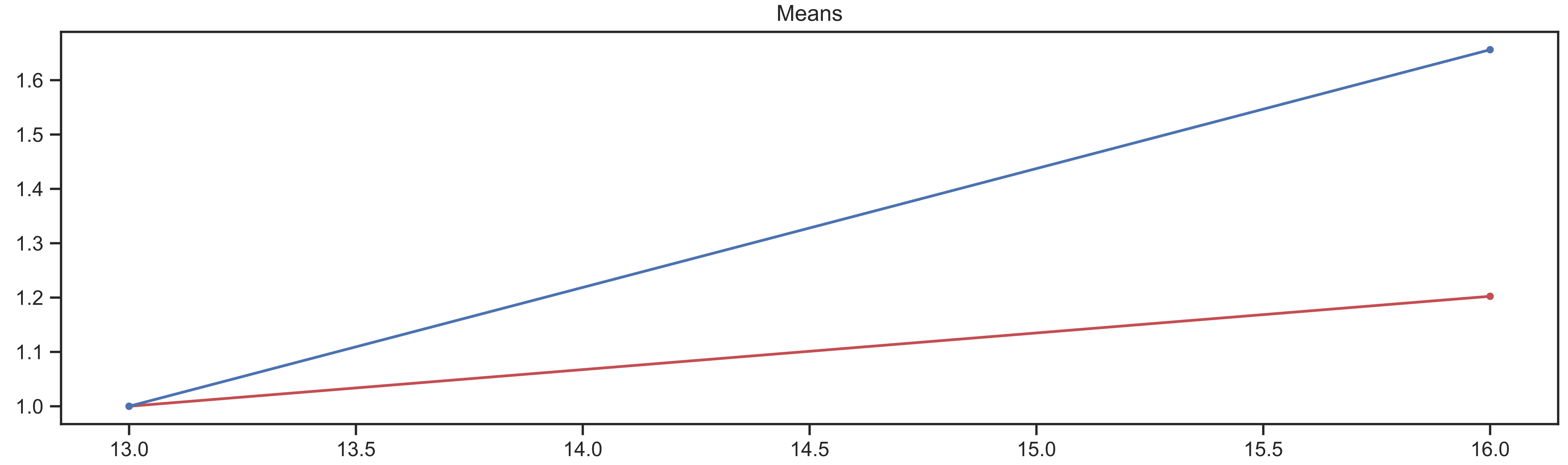
mRECIST: (1,1,4,0
kl: 0.02545517310556237
response_angle_rel: 0:-0.013808245643652718_1:-0.01576996099316889_2:-0.013743233031485176_3:-0.011822411391068696_4:-0.0140984857998742_5:-0.020516238
response_angle_rel_control: 0:0.09930671823503731_1:0.13137212648591978_2:0.12121331423560422_3:0.08301452095779555_4:0.07200425025872176_5:0.183242918
auc_norm: 0:0.2793652580834669_1:0.1371370093337588_2:0.30978346339618096_3:0.27537366657645307_4:0.2301319953148957_5:0.0666078605311254
auc_control_norm: 0:[0.11799691]_1:[0.2779483]_2:[0.26201743]_3:[0.23738838]_4:[0.15072262]_5:[0.26593588]
tgi: 0.062071355226770764
red = treatment,   blue=control

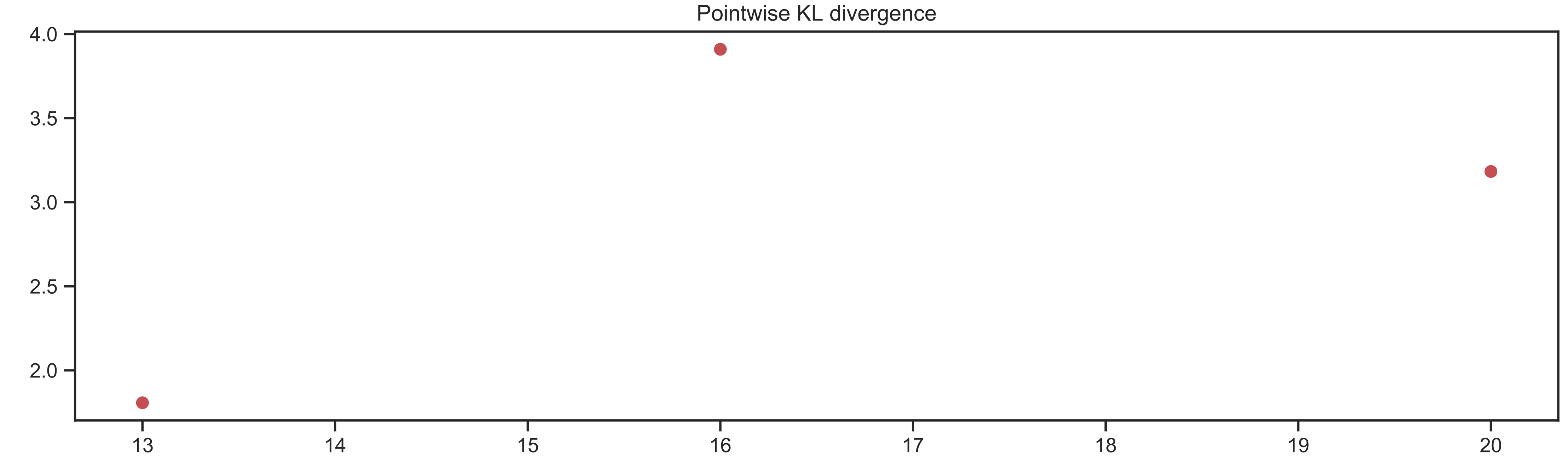


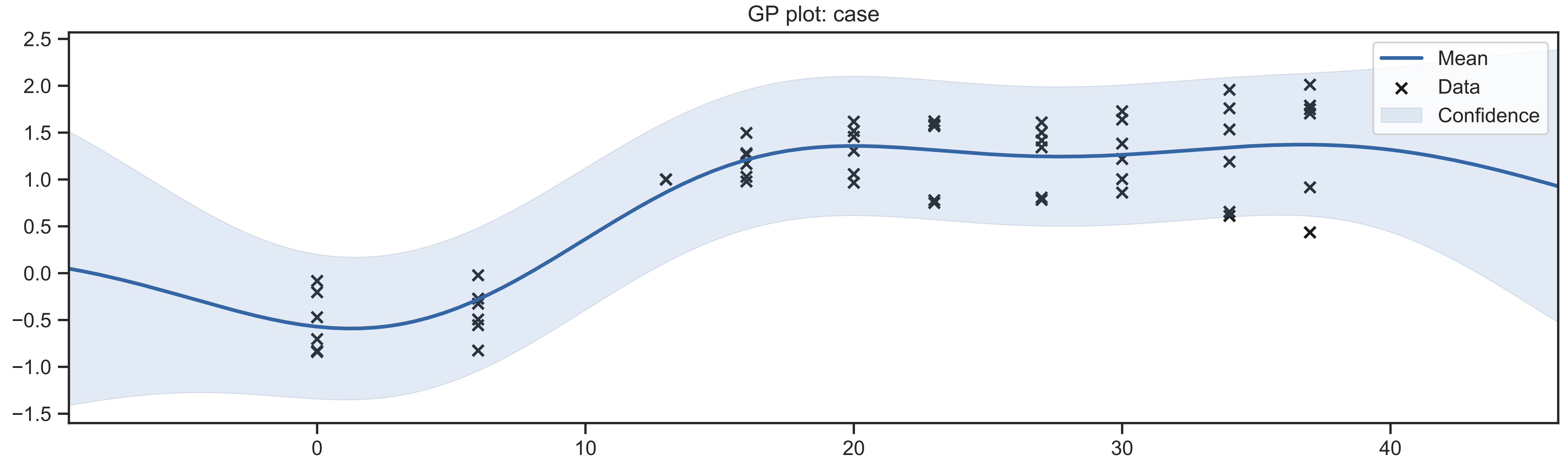
P24*C3

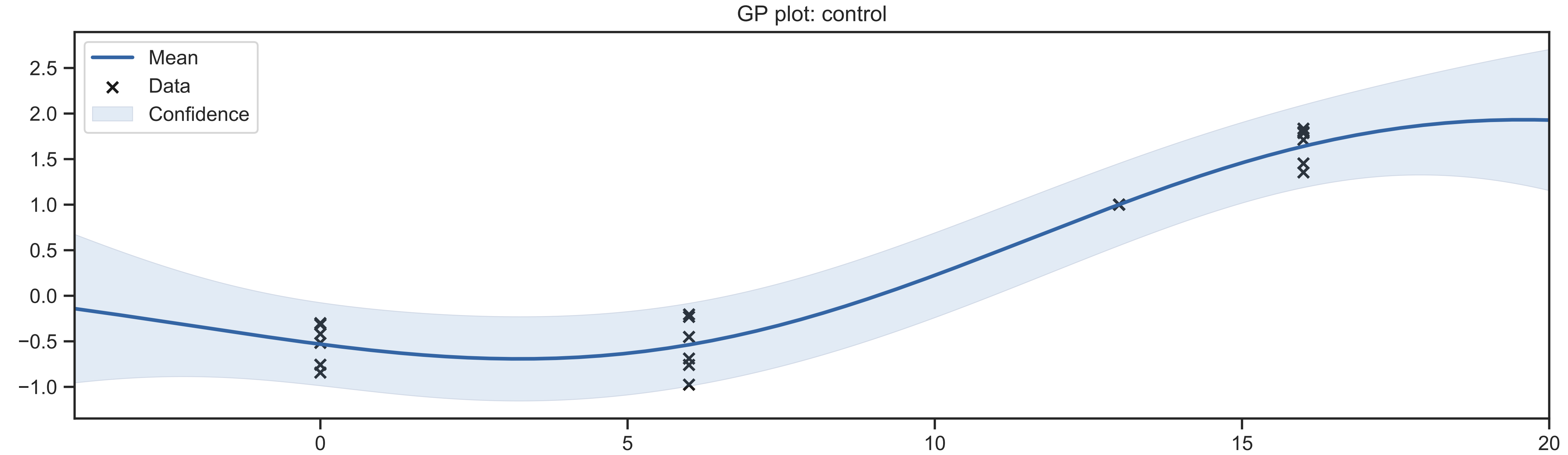


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y



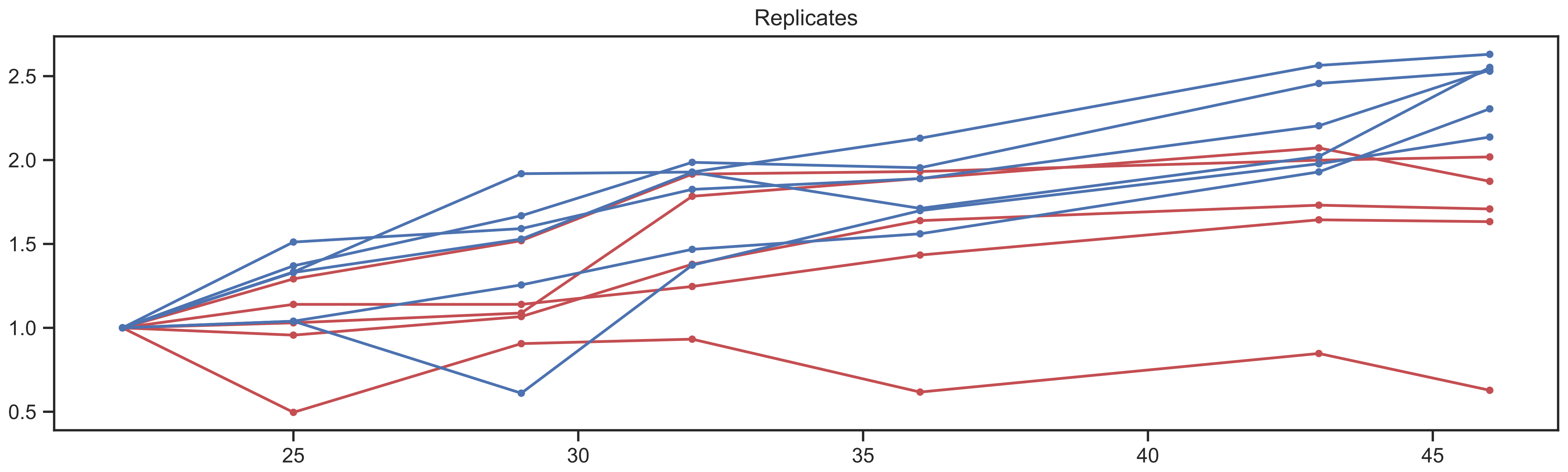




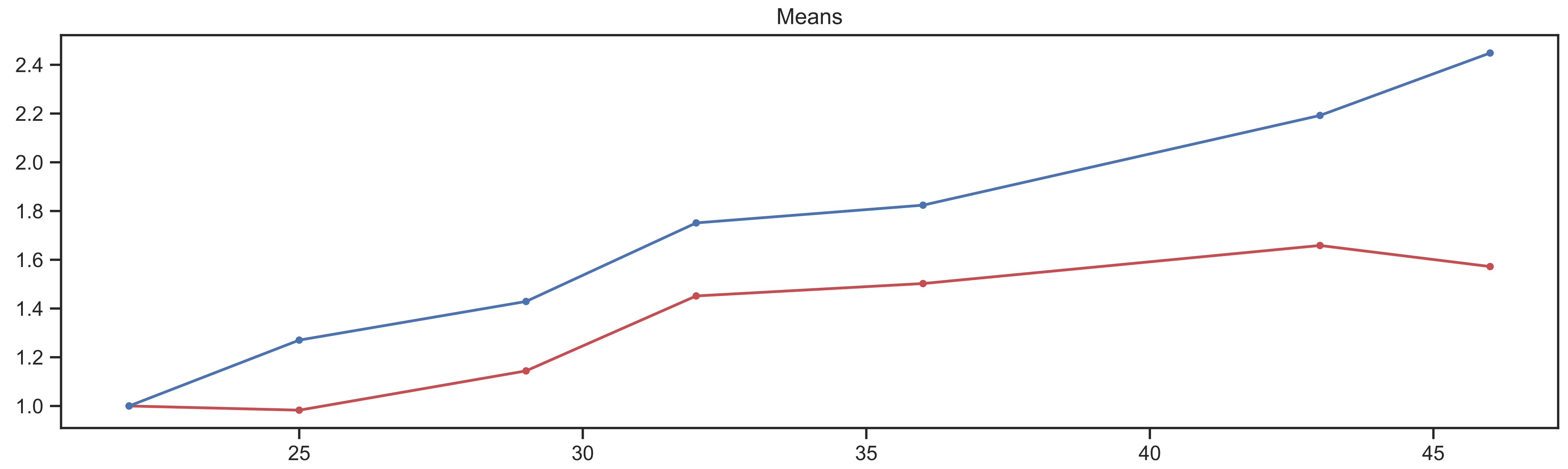


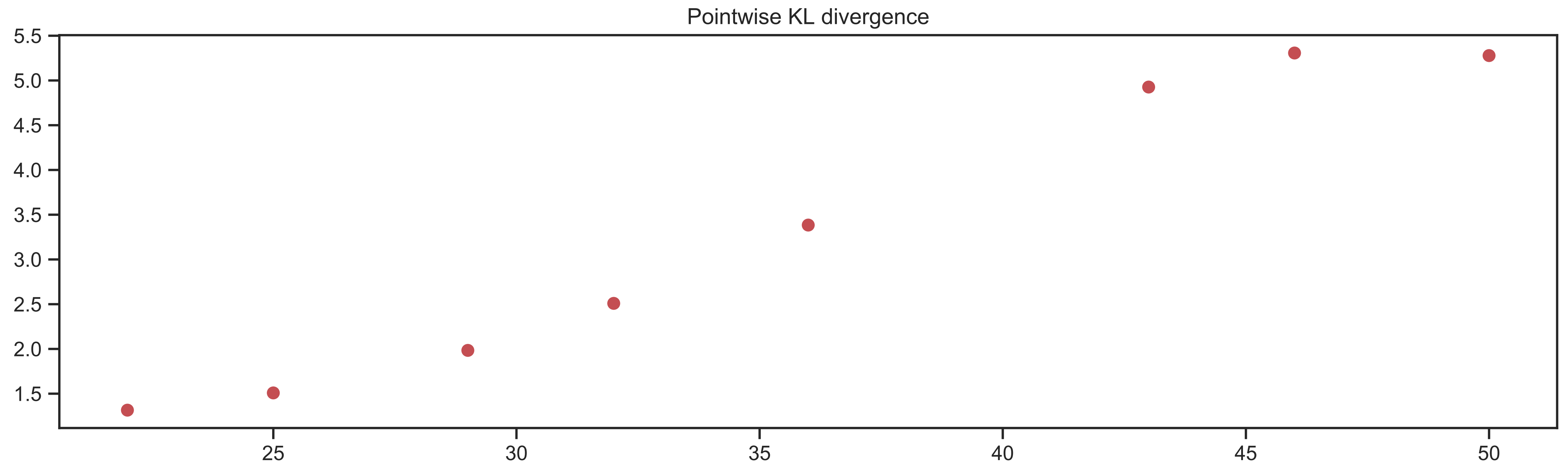
mRECIST: (0,0,3,3
kl: 2.453958353035295
response_angle_rel: 0:-0.005140959245159651_1:0.019684650000060443_2:0.029685925720678_3:0.05388155002071753_4:0.03463345210075958_5:6.93020007312813
response_angle_rel_control: 0:0.09930671823503731_1:0.13137212648591978_2:0.12121331423560422_3:0.08301452095779555_4:0.07200425025872176_5:0.183242918
auc_norm: 0:-0.007211735695714057_1:0.055173484164954344_2:0.16553159009549975_3:0.08840004990018706_4:0.09322771110898949_5:0.009523828848972515
auc_control_norm: 0:[0.11799691]_1:[0.2779483]_2:[0.26201743]_3:[0.23738838]_4:[0.15072262]_5:[0.26593588]
tgi: 0.7970752070939716
red = treatment, blue=control

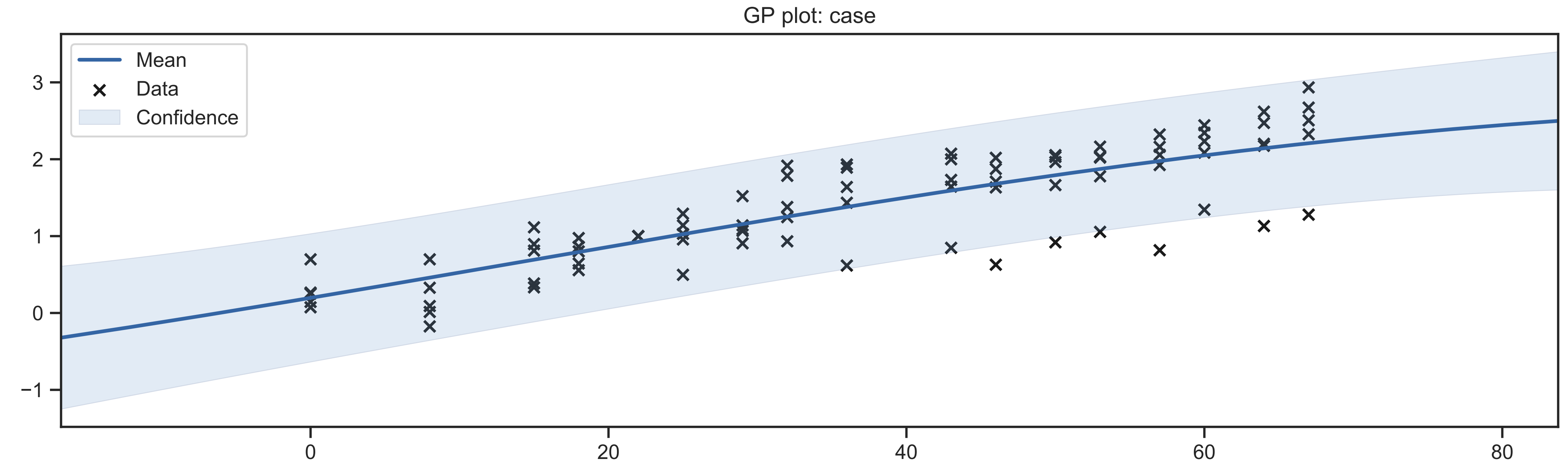
P25*C1

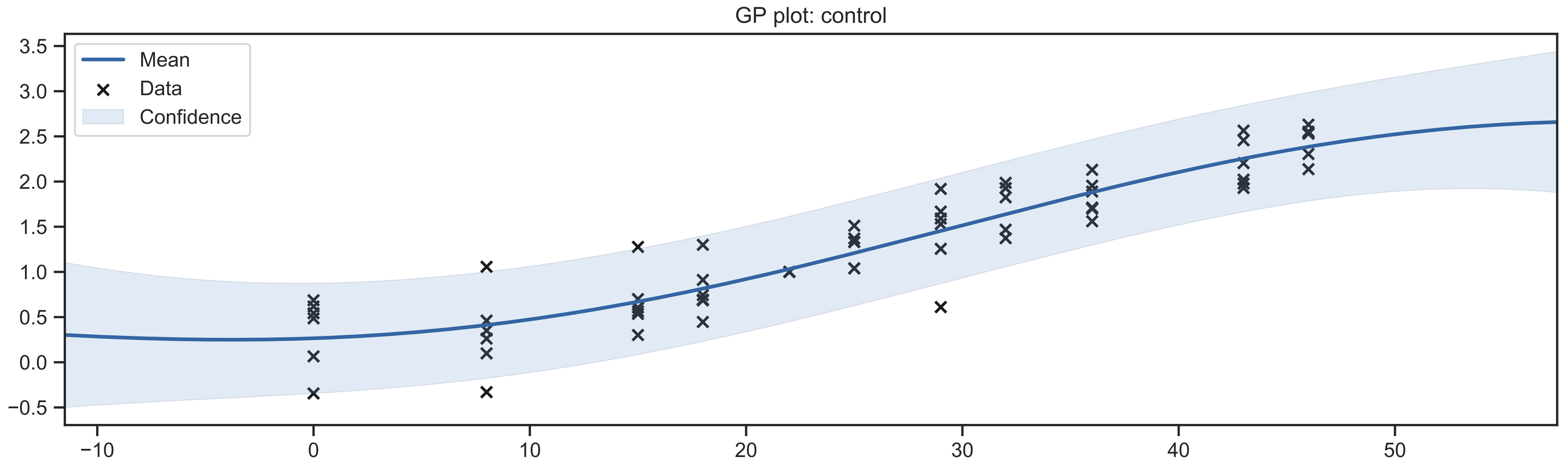

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N

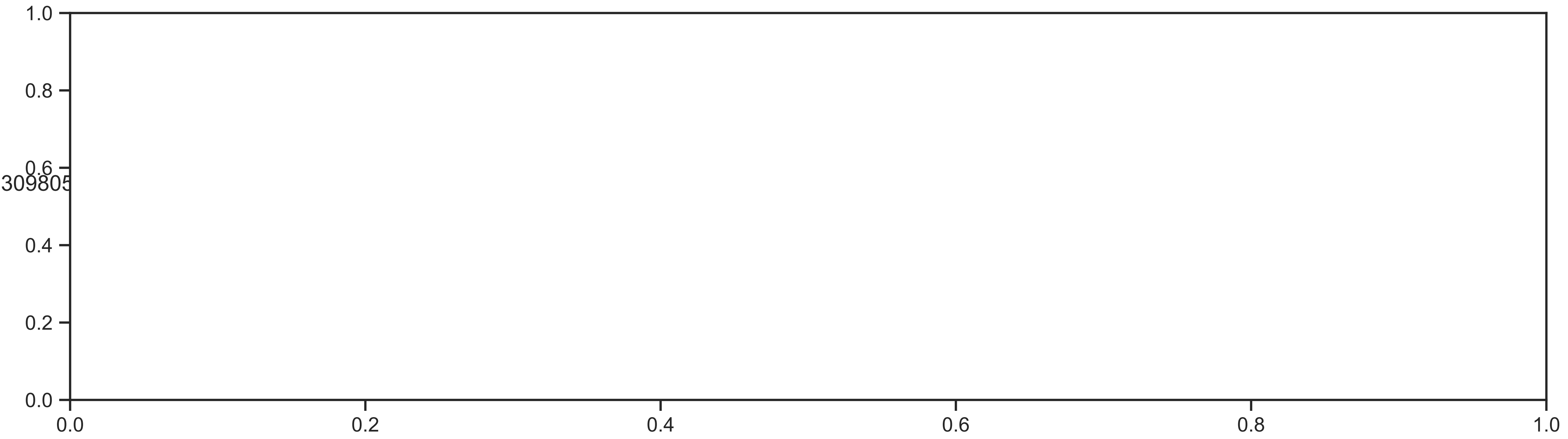

Means


Pointwise KL divergence

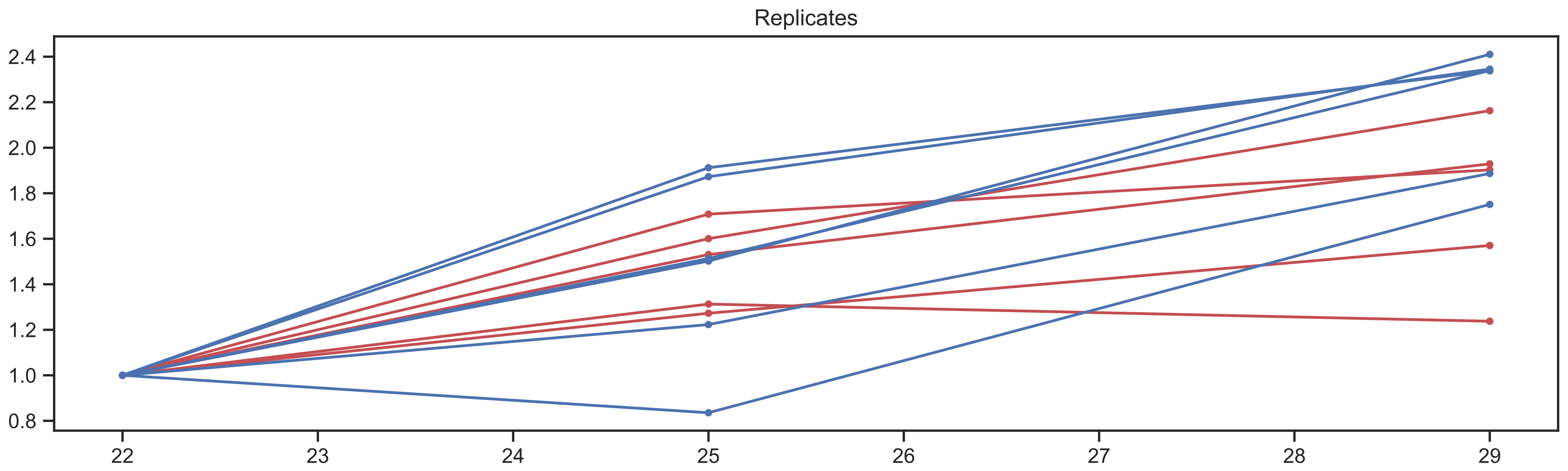

GP plot: case


GP plot: control

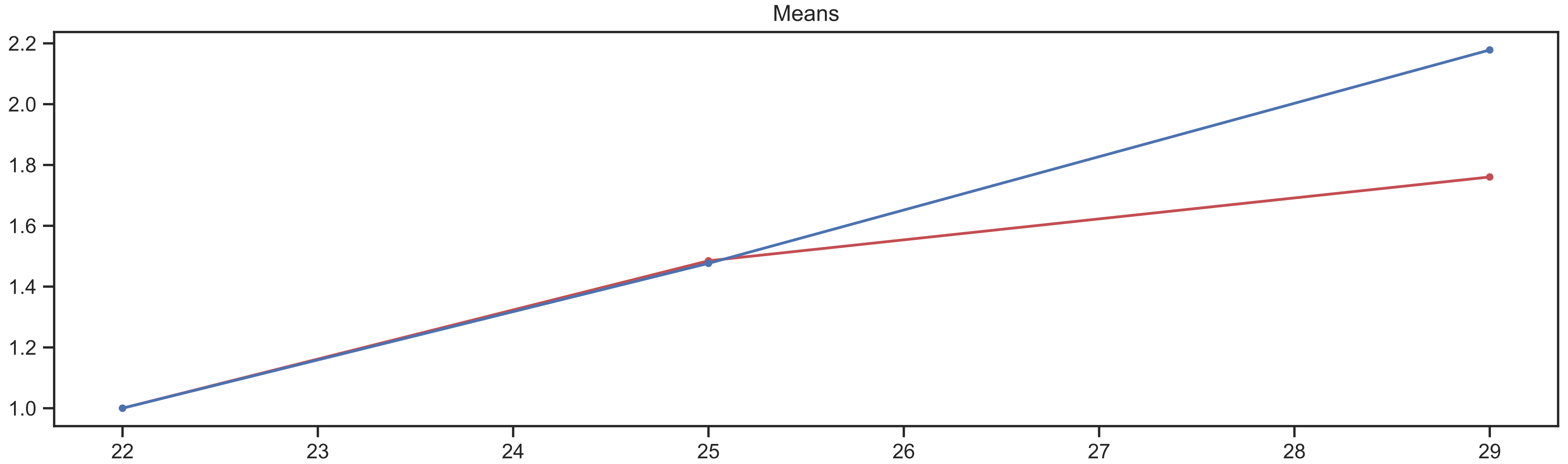
mRECIST: (0,0,4,1
kl: 2.494758170420003
response_angle_rel: 0:0.032087427303374876_1:0.04179223818331213_2:0.05494738463957812_3:0.045543960974722096_4:0.0011873941472384725
response_angle_rel_control: 0:0.06615217171834108_1:0.057920750702871567_2:0.05436186428406681_3:0.0645276748651342_4:0.036447890851609585_5:0.03309805
auc_norm: 0:0.1877202192988958_1:0.1553268153577721_2:0.3063915567506146_3:0.24269175966793666_4:-0.17573924999121066
auc_control_norm: 0:[0.39507901]_1:[0.44009482]_2:[0.45972681]_3:[0.39187313]_4:[0.33905502]_5:[0.33438467]
tgi: 0.535893904596557
red = treatment,   blue=control

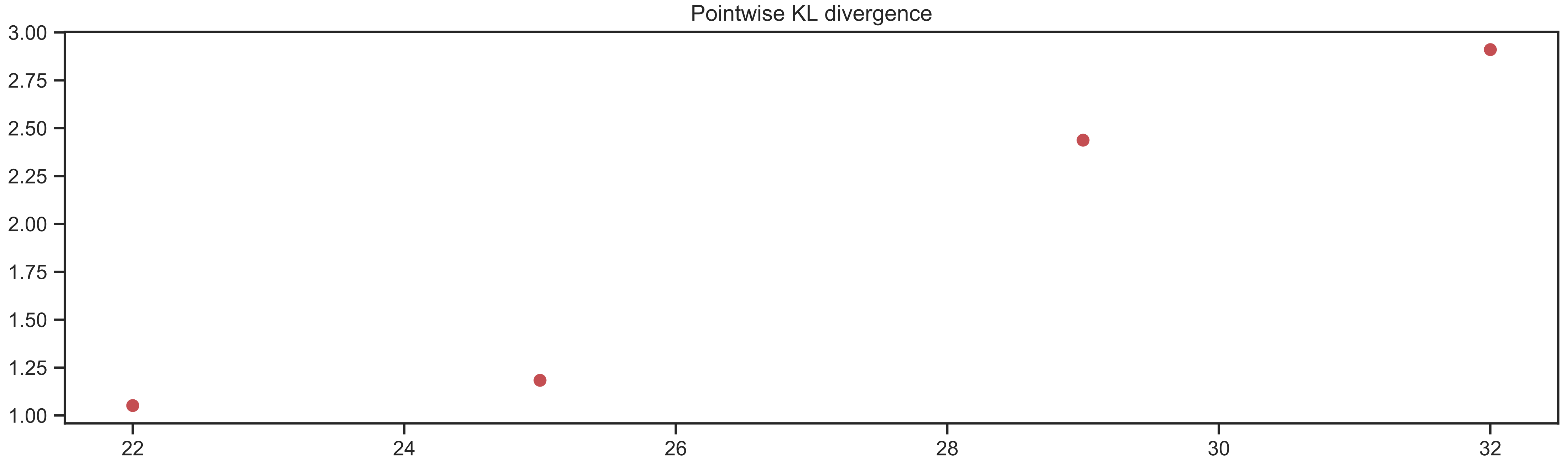


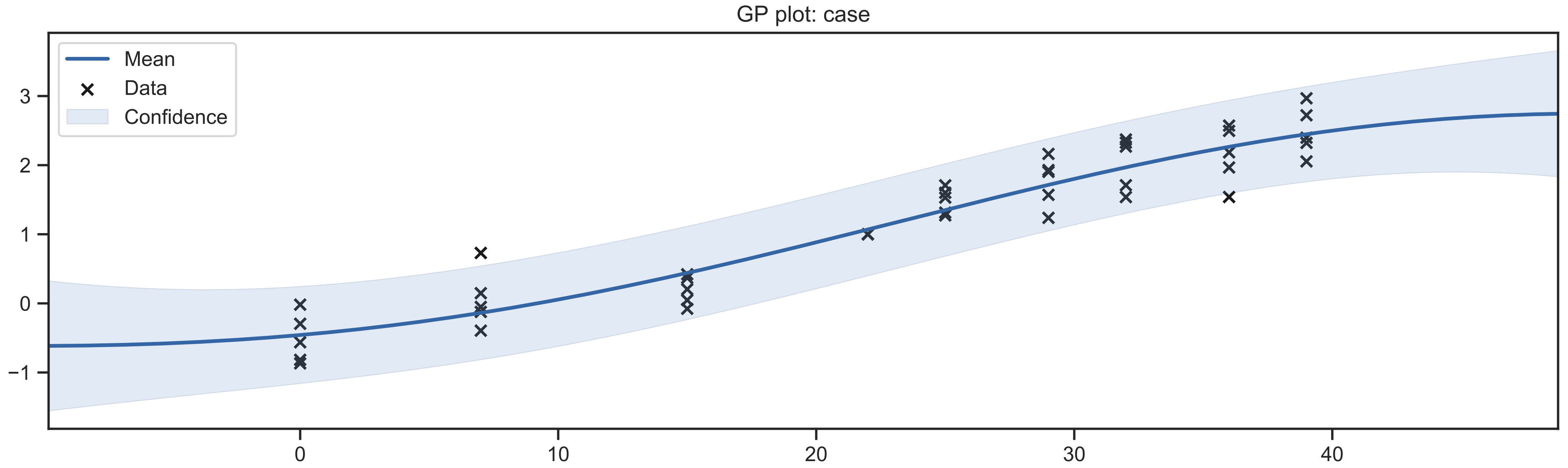
P26*C1

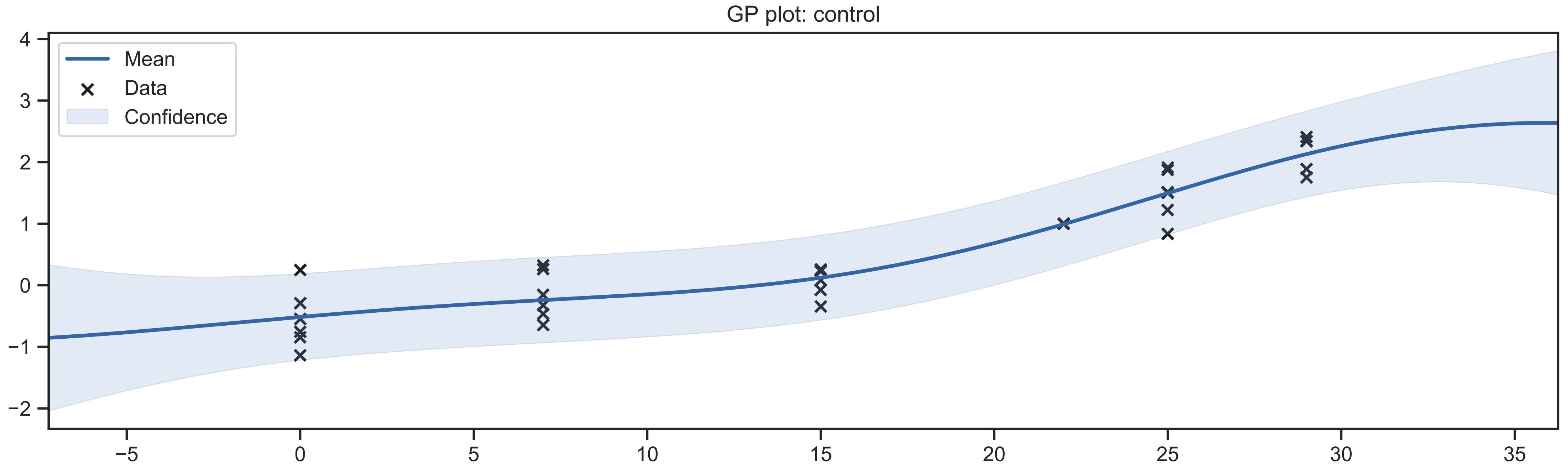


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

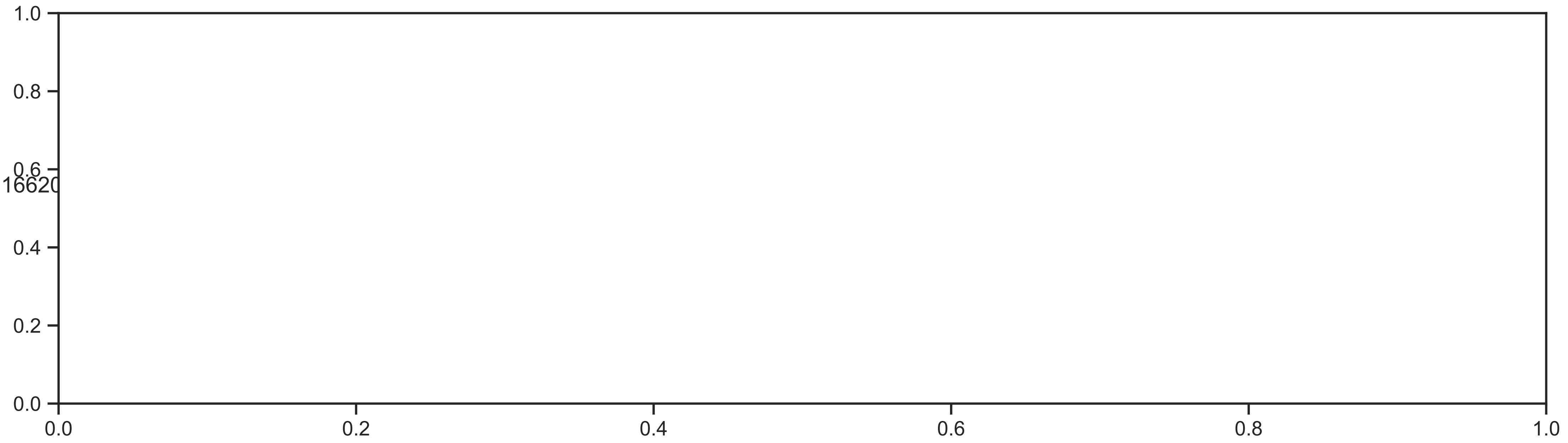




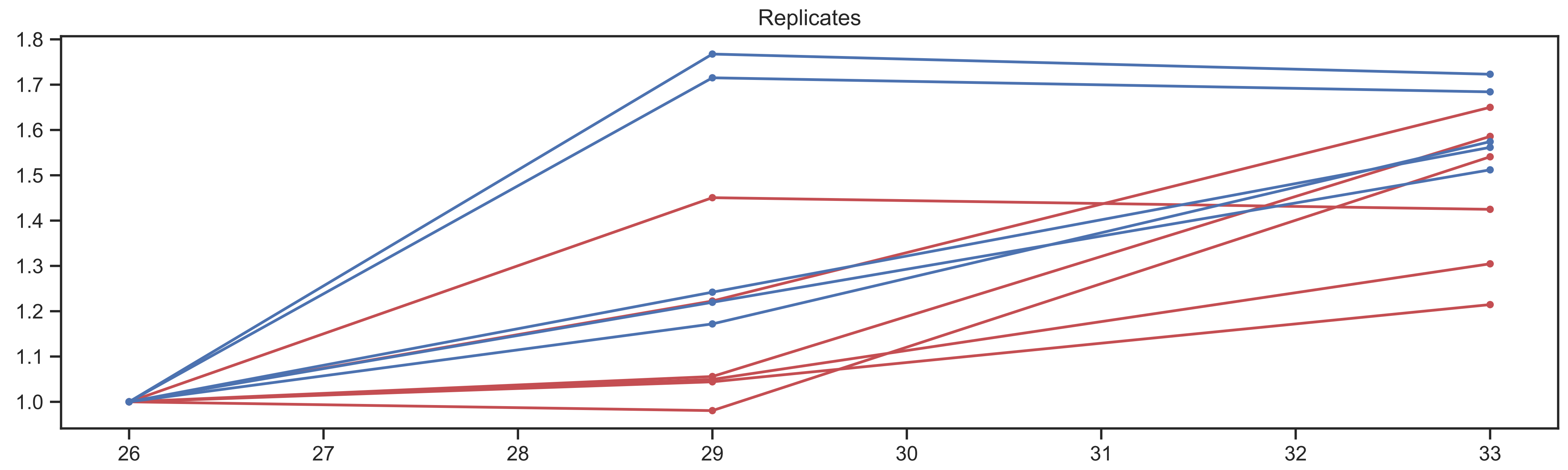




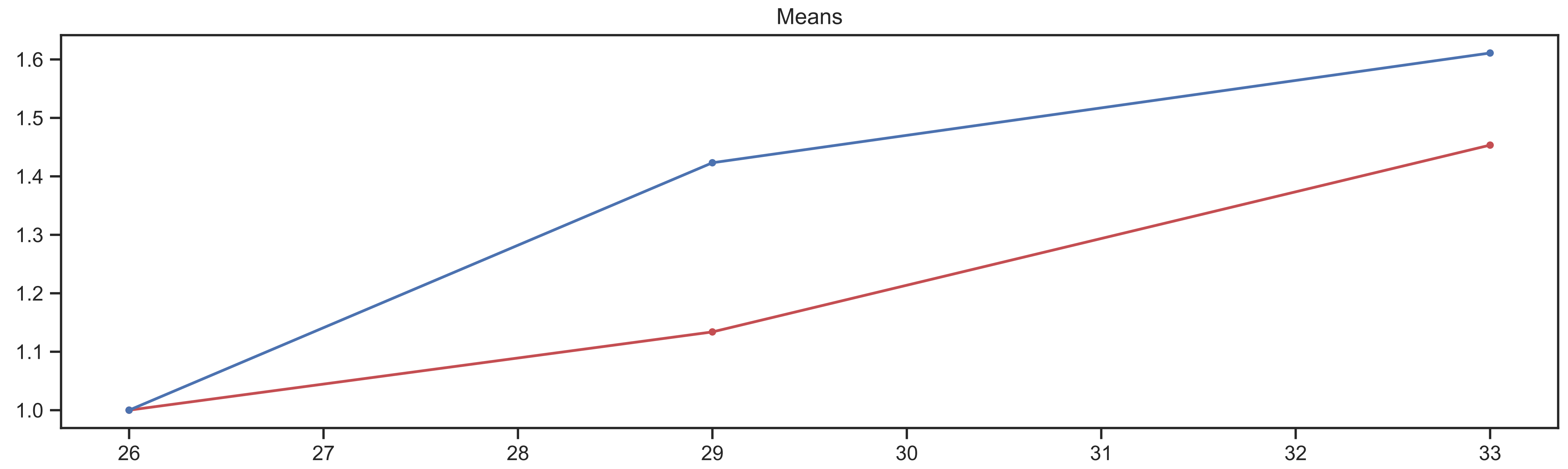
mRECIST: (0,0,0,5
kl: 0.848192079504727
response_angle_rel: 0:0.12093264028376395_1:0.06125630988200658_2:0.05942119835325677_3:0.06994785962959461_4:0.12547147403175007
response_angle_rel_control: 0:0.09187471532857962_1:0.03199765600945836_2:0.08506448240170884_3:0.09890907553670687_4:0.04057713045422792_5:0.090216620
auc_norm: 0:0.16528582220683308_1:0.08544769297167594_2:0.2846562245864166_3:0.34075340198106796_4:0.2764446151209129
auc_control_norm: 0:[0.410393]_1:[0.17400535]_2:[0.37747066]_3:[0.40906761]_4:[0.24020962]_5:[0.39441299]
tgi: 0.34393971958099256
red = treatment,   blue=control

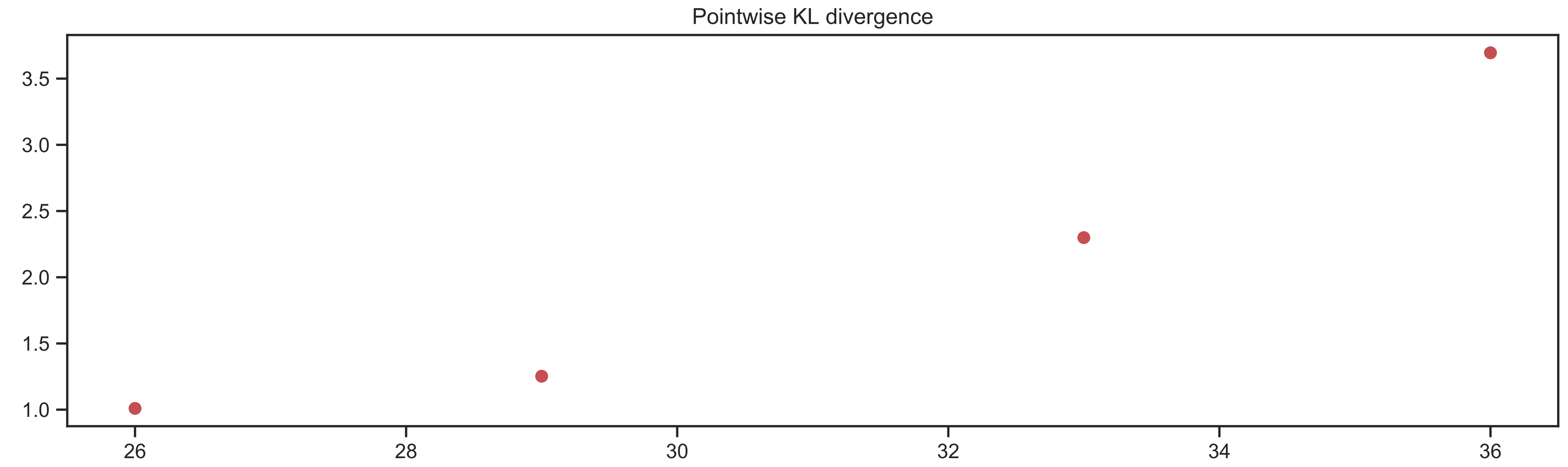


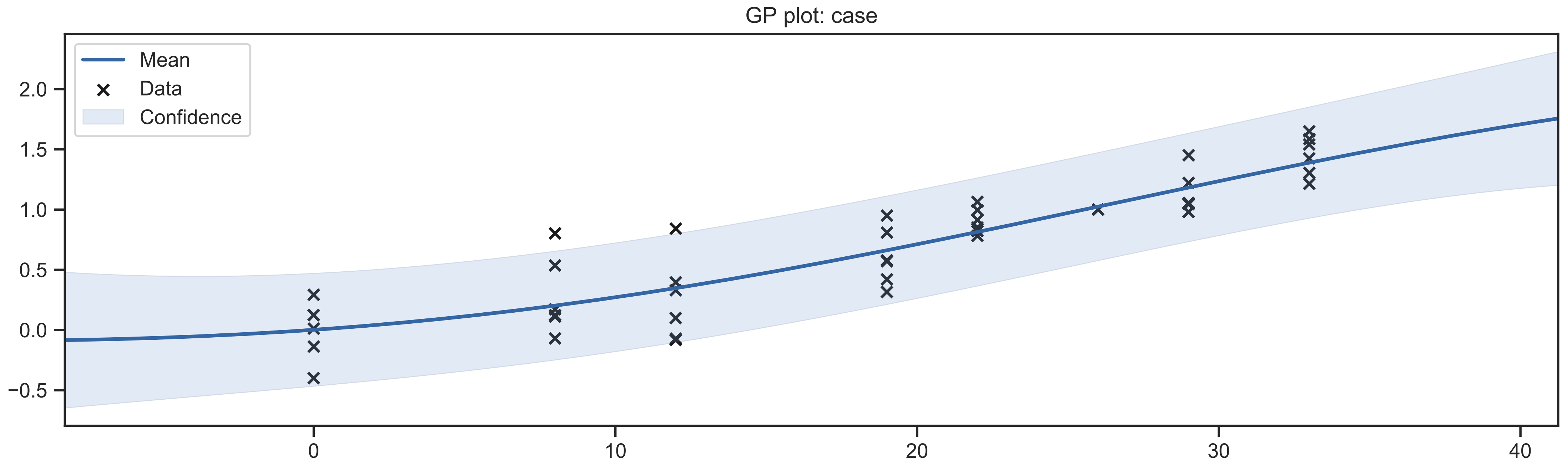
P27*C1

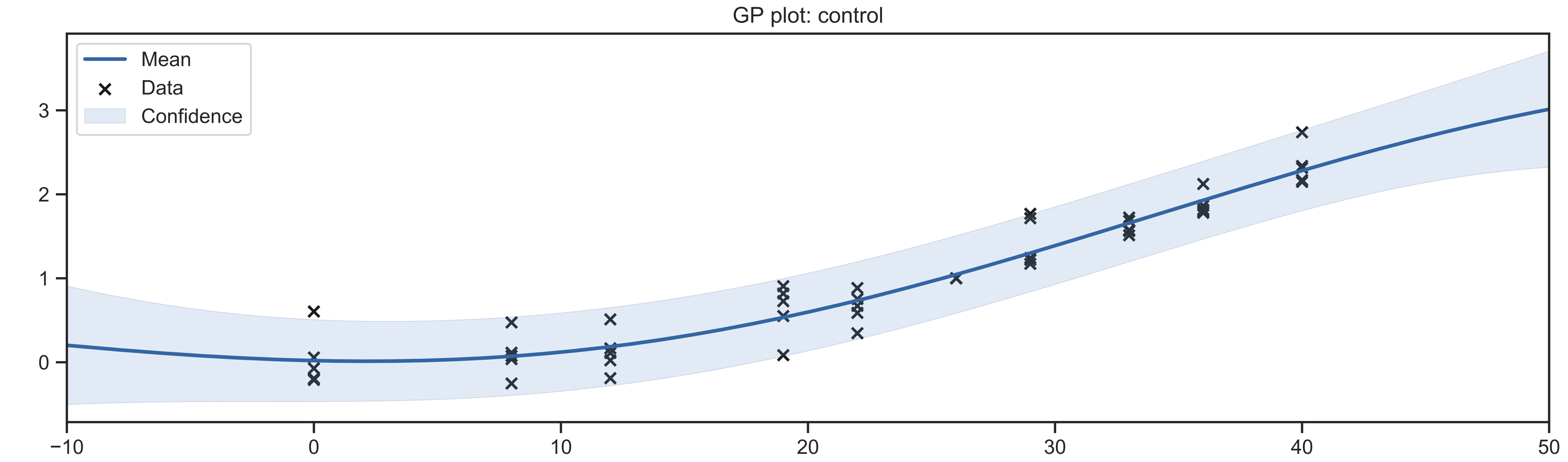


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

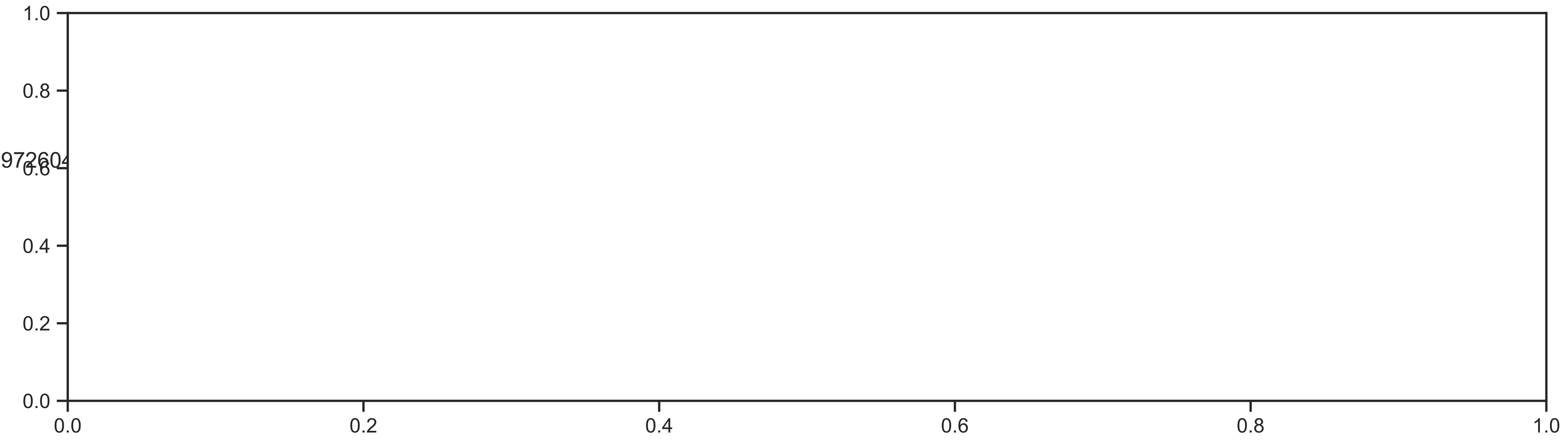




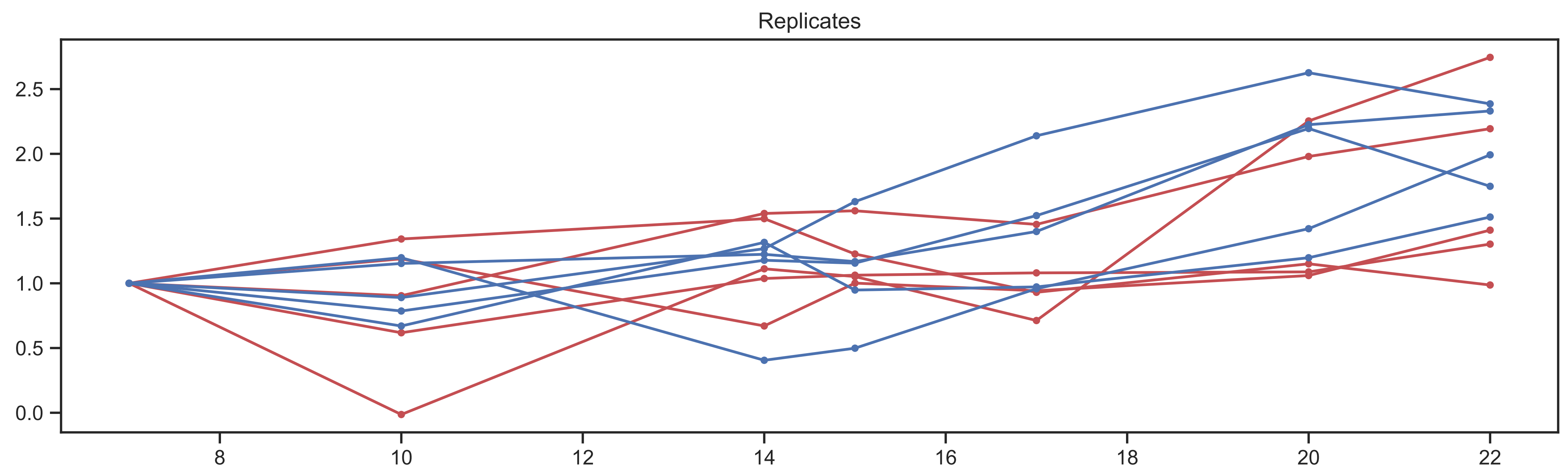




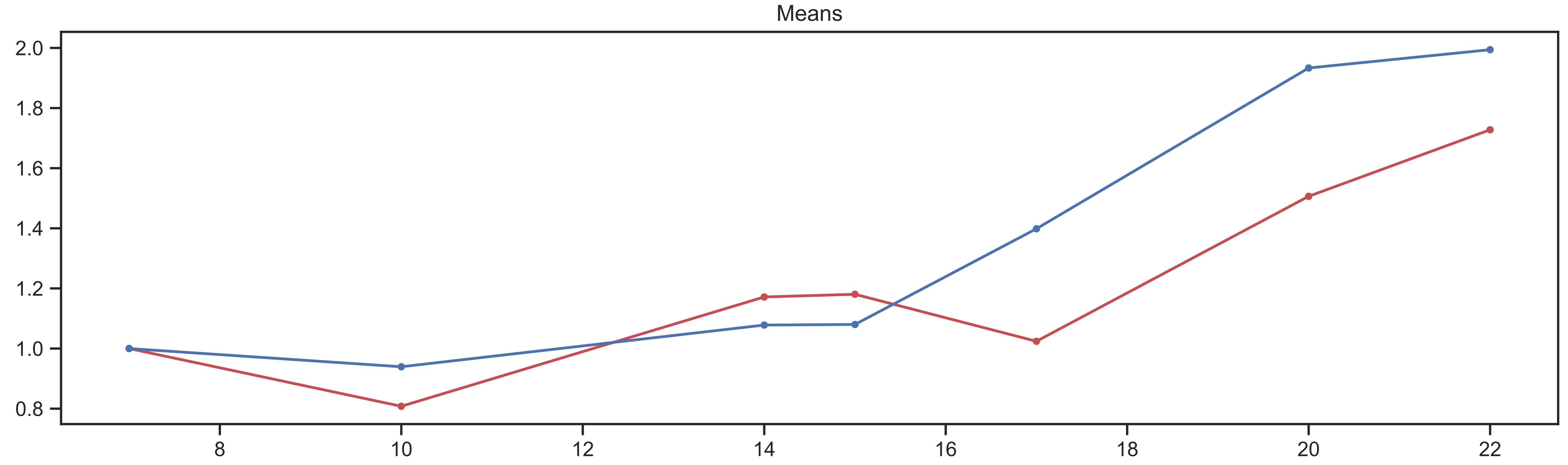
mRECIST: (0,1,4,1
kl: 0.8961055756422154
response_angle_rel: 0:0.003684298475834289_1:0.005923843635022886_2:0.011902144956934667_3:-0.009370763708558855_4:0.017711751152223537_5:0.009497260
response_angle_rel_control: 0:0.04490759705524993_1:0.03964992793385891_2:0.06806044178247056_3:0.04323274691943185_4:0.050015574302425564
auc_norm: 0:0.05731850038816646_1:0.08025209628577_2:0.15109425071971064_3:0.13358047058038505_4:0.18101644866855587_5:0.14375131461611218
auc_control_norm: 0:[0.23060974]_1:[0.14629492]_2:[0.24468876]_3:[0.15788221]_4:[0.16056314]
tgi: 0.48179539045265163
red = treatment,   blue=control

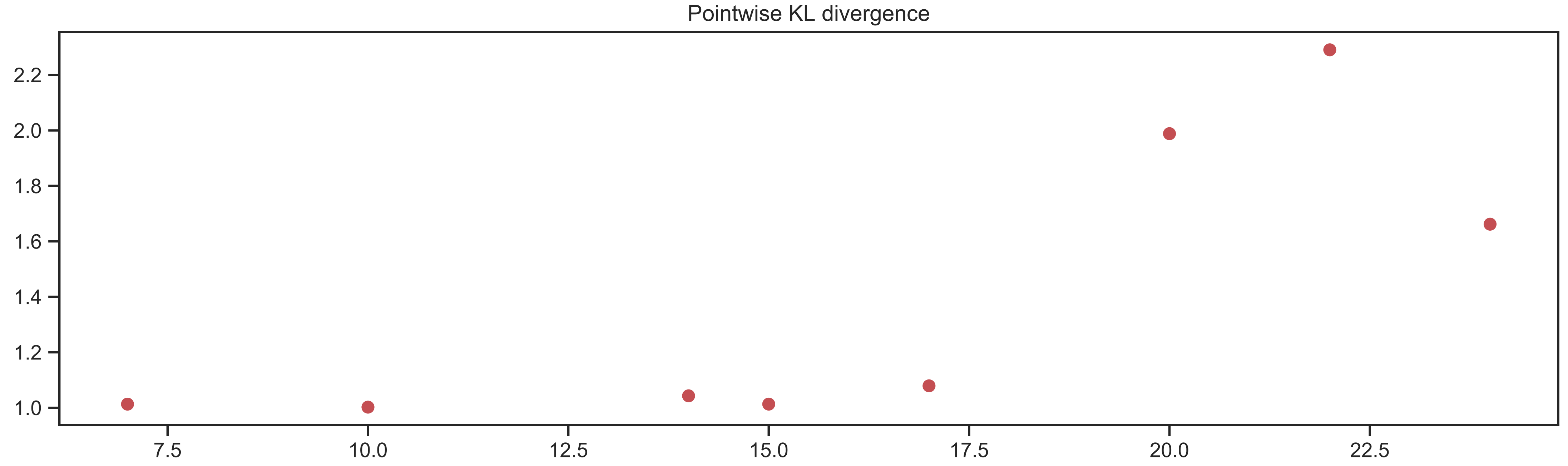


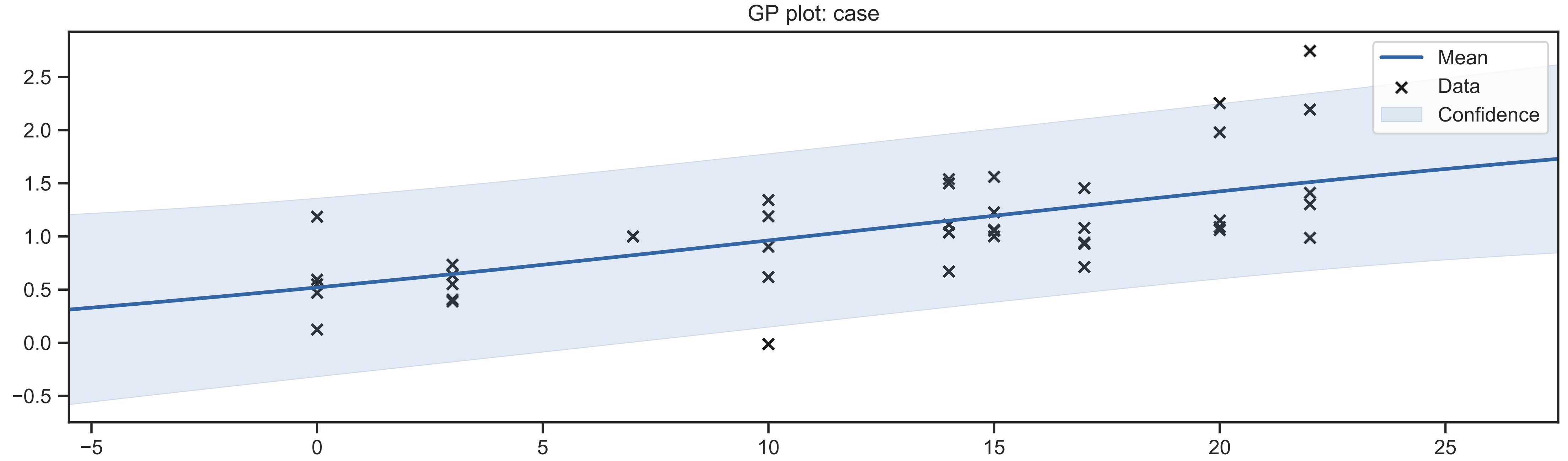
P28*C1

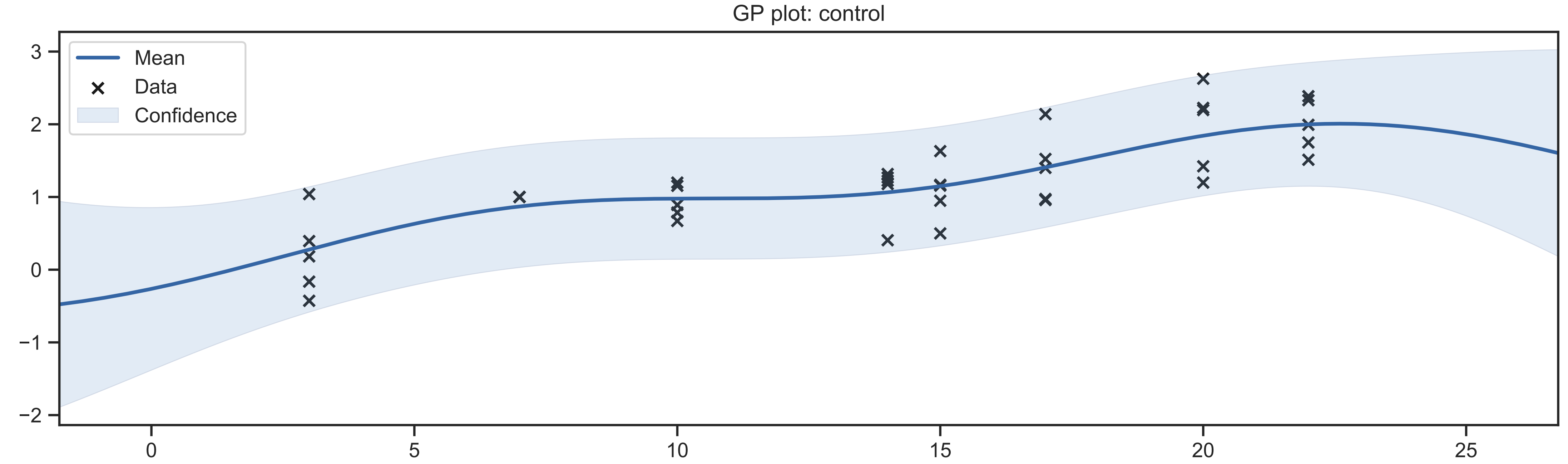

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: N
TGI: N

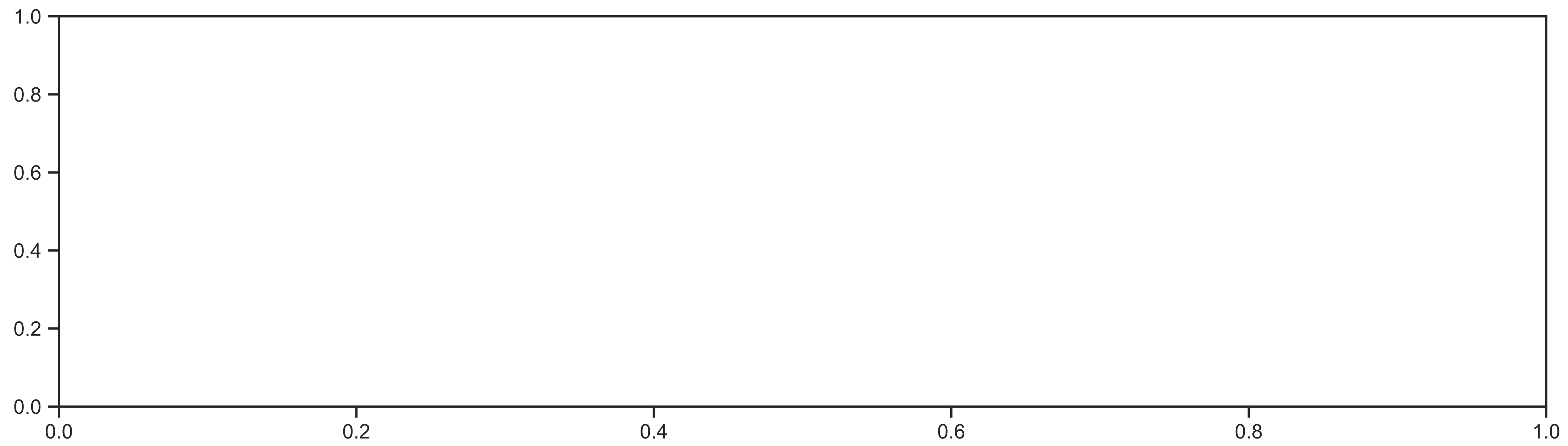

Means


Pointwise KL divergence

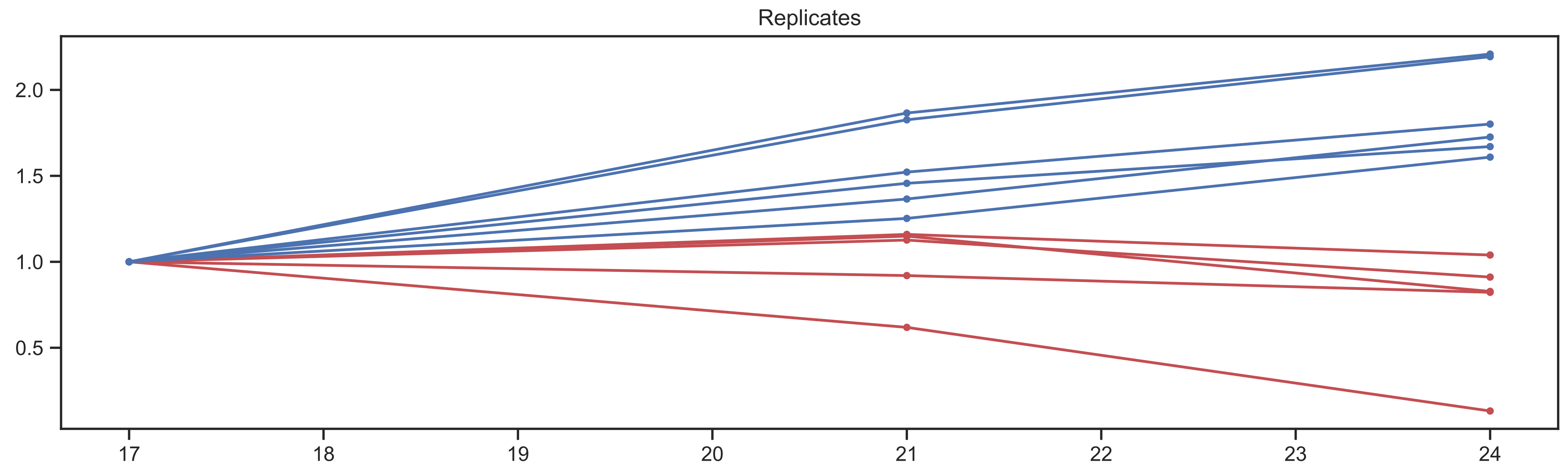

GP plot: case


GP plot: control

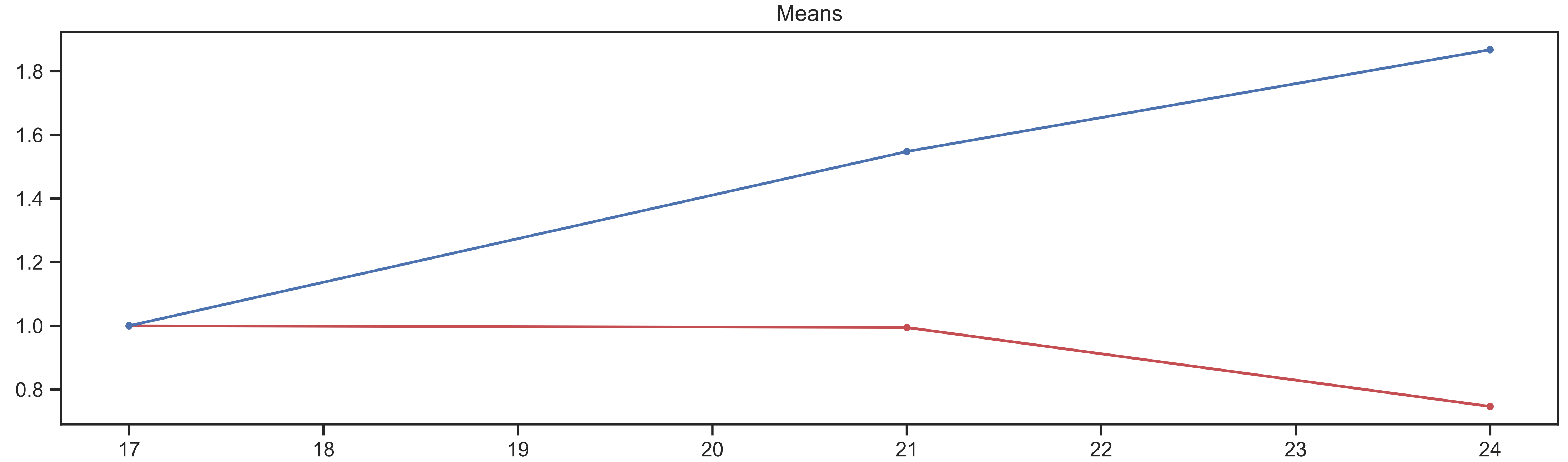
mRECIST: (2,2,1,0
kl: 0.360403446126296
response_angle_rel: 0:-0.019064037598438655_1:-0.020457460332249818_2:3.5937197513638410e-05_3:0.015692331207978295_4:0.020542361762402955
response_angle_rel_control: 0:0.033074926108754434_1:0.12338086518694999_2:0.051127028579327986_3:0.07859096293703836_4:0.008708521676021453
auc_norm: 0:-0.27611327326322127_1:0.4492393068108735_2:0.12177127593885616_3:0.3770086641816006_4:0.4733147937829267
auc_control_norm: 0:[0.63072683]_1:[0.71740121]_2:[0.18897606]_3:[0.45679194]_4:[-0.07219951]
tgi: 0.22056490899321235
red = treatment,   blue=control

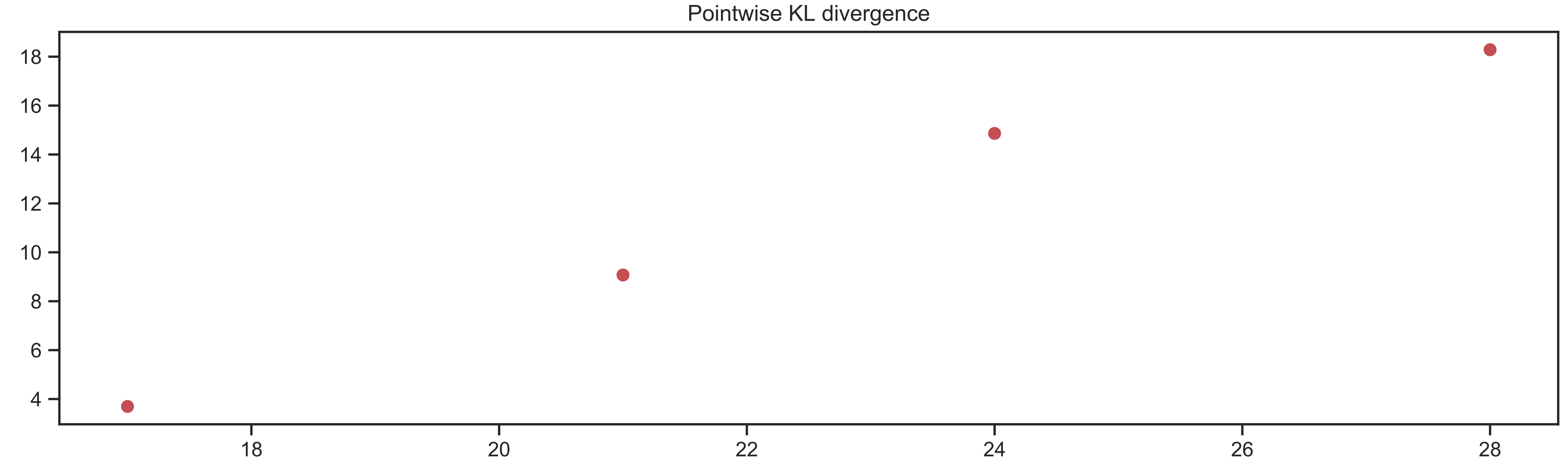


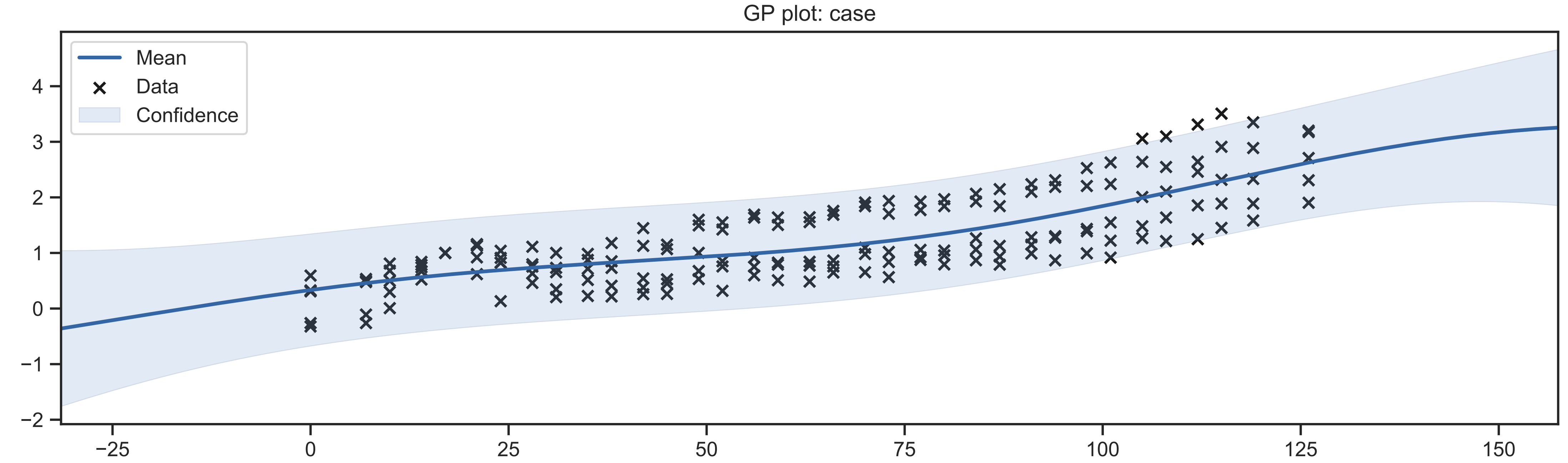
P29*C1

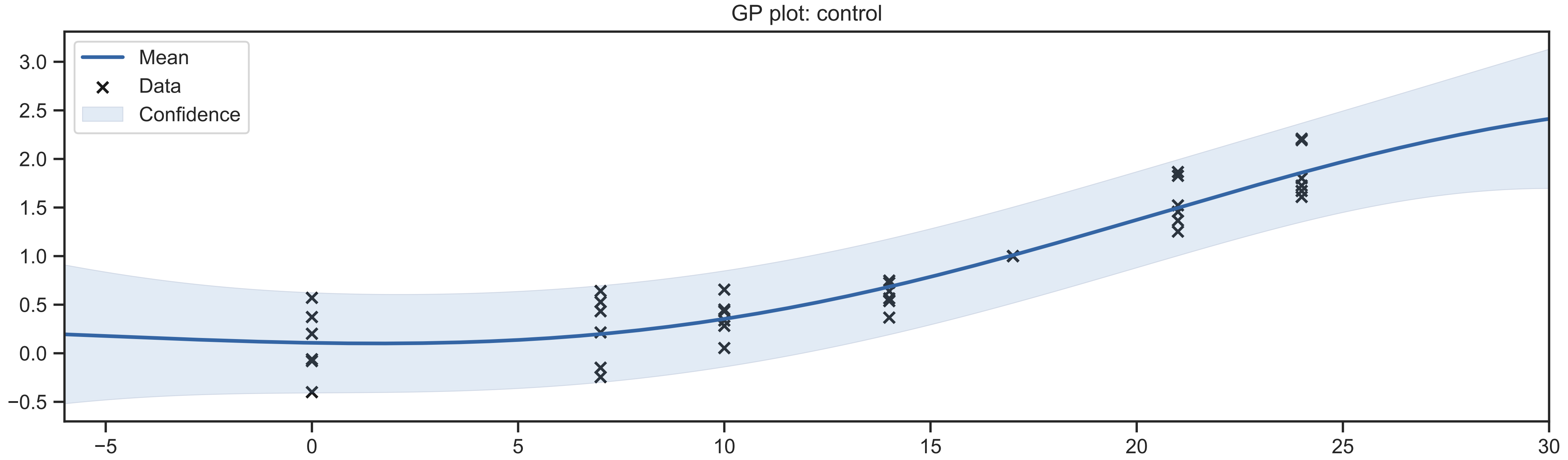

Replicates

KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

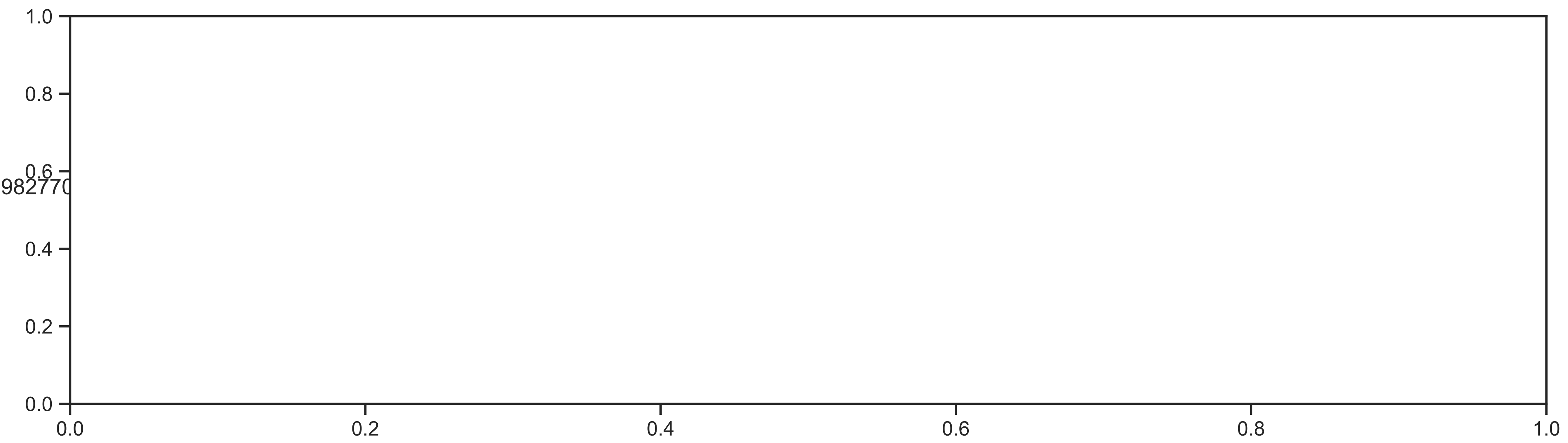

Means


Pointwise KL divergence

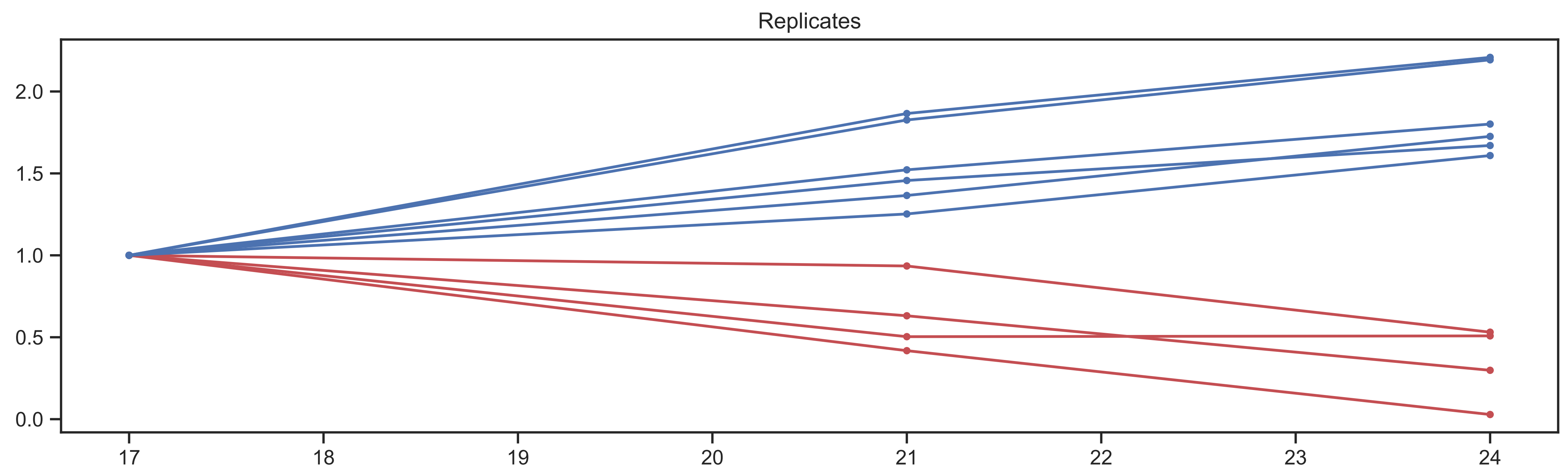

GP plot: case


GP plot: control

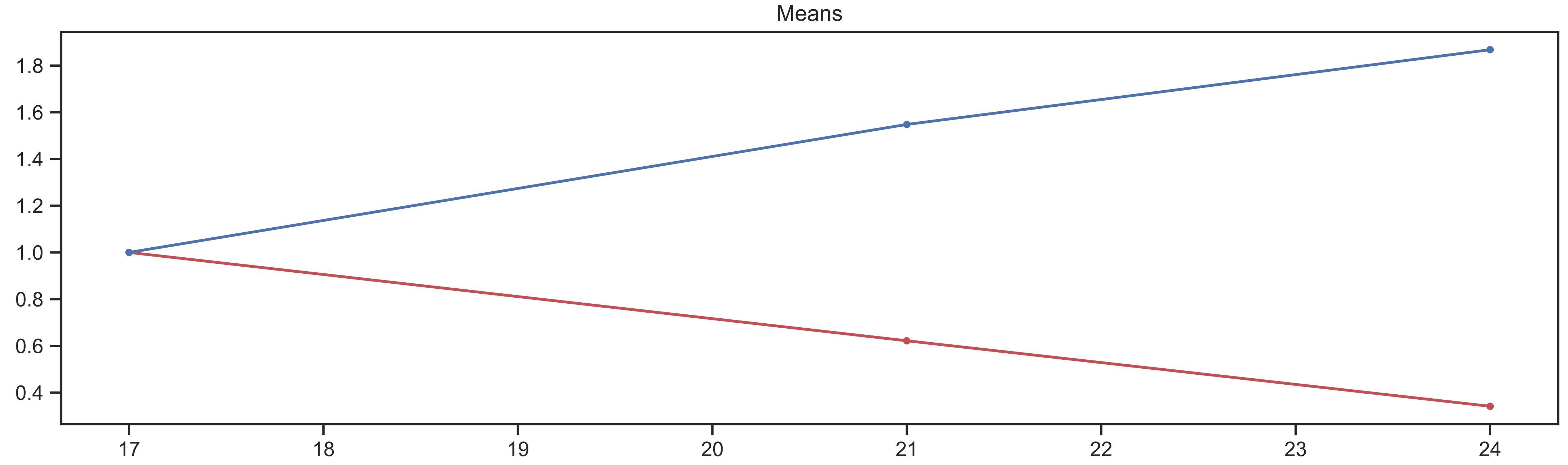
mRECIST: (1,2,2,0
kl: 10.045588678021328
response_angle_rel: 0:-0.0028619004731357893_1:-0.0007344176663878872_2:-0.002430211418181435_3:0.0006900006232650676_4:0.007246843840019995
response_angle_rel_control: 0:0.03147588393984599_1:0.05657403608078896_2:0.08570539928230667_3:0.08605181097820351_4:0.037316841847970295_5:0.0298277
auc_norm: 0:-0.05248668634362429_1:-0.040165623085452296_2:-0.2574660844274434_3:-0.00016150640245023856_4:-0.06993827394353114
auc_control_norm: 0:[0.1853504]_1:[0.22354622]_2:[0.32885973]_3:[0.33060308]_4:[0.21151258]_5:[0.18192207]
tgi: 1.2204120080235712
red = treatment, blue=control

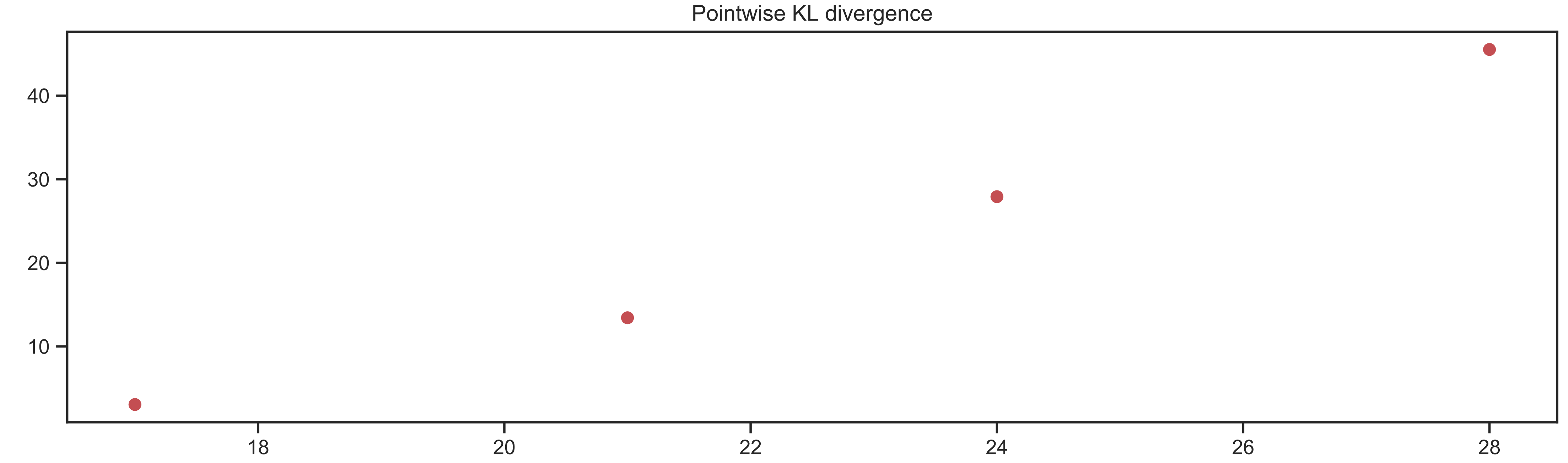


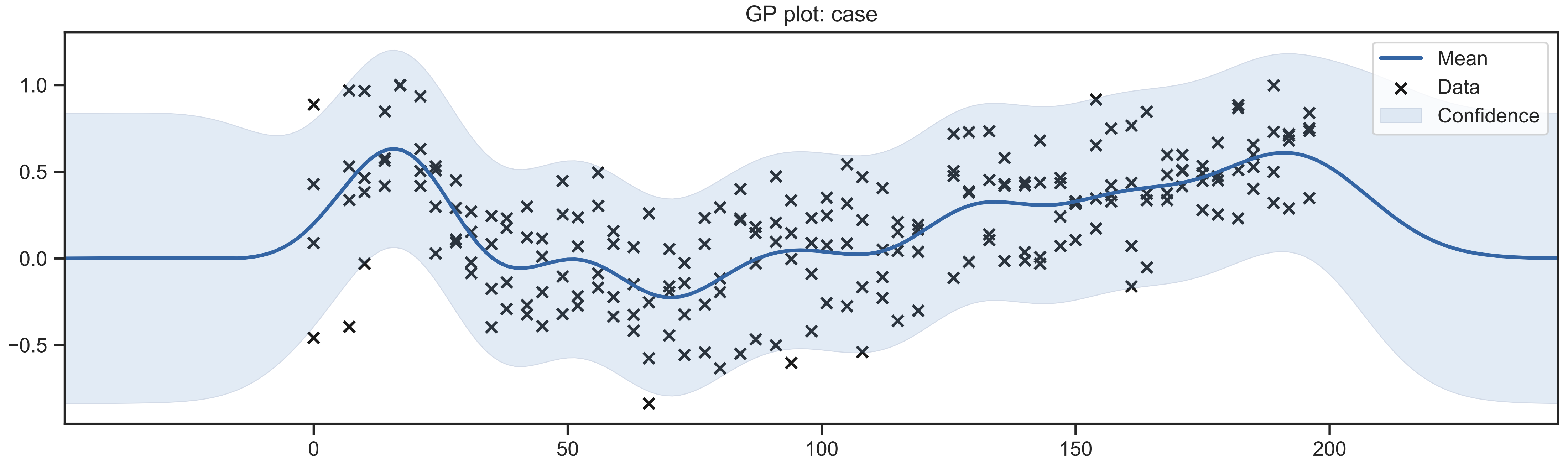
P29*C2

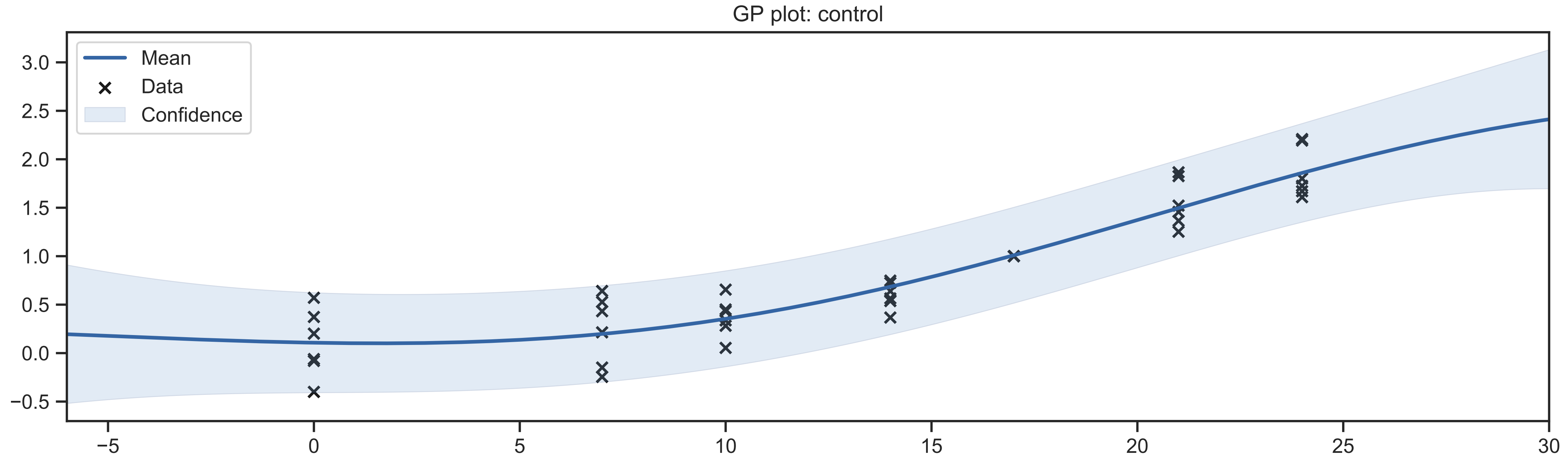


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

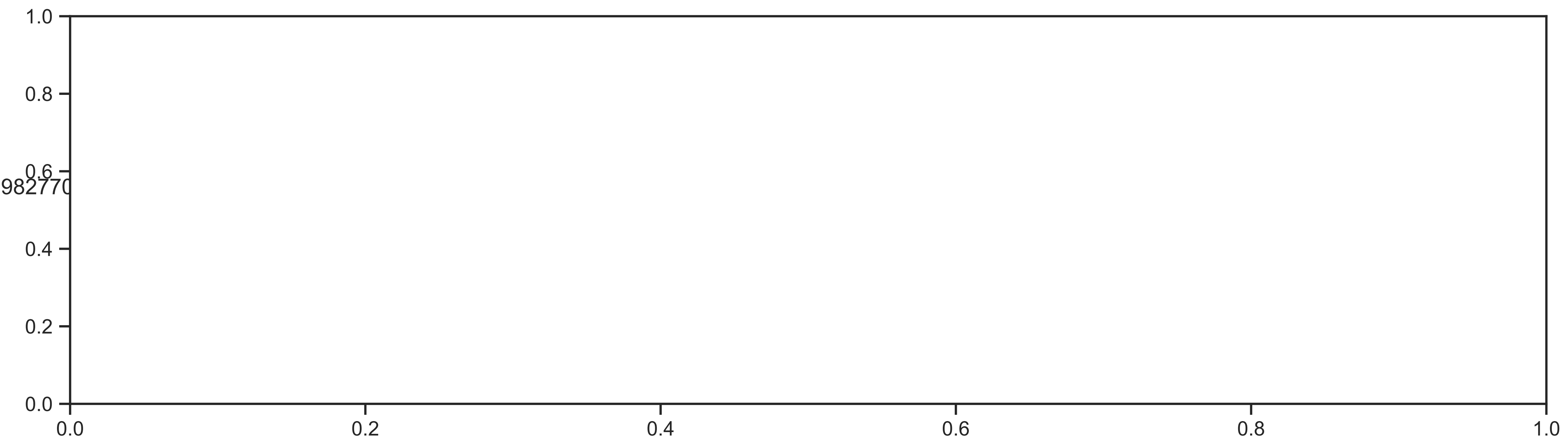




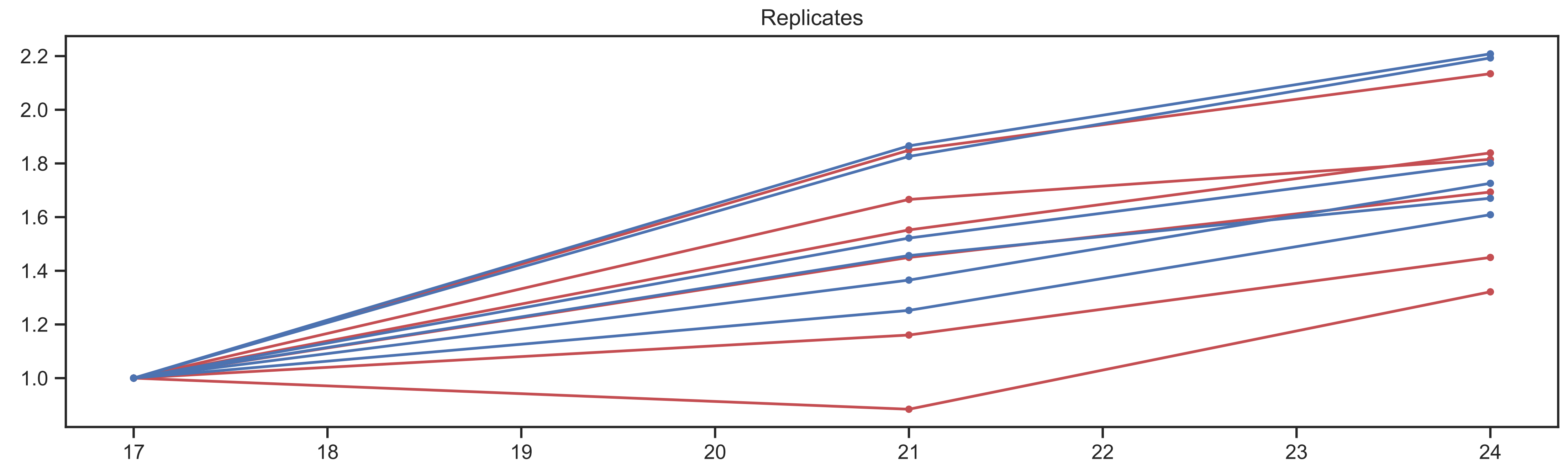




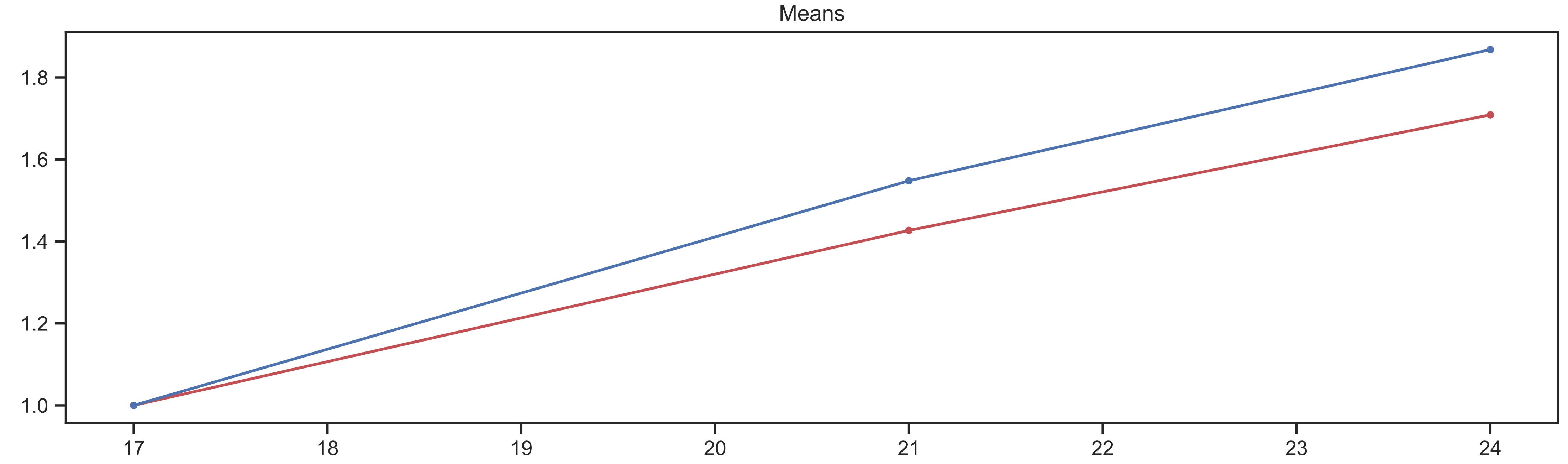
mRECIST: (1,3,0,0
kl: 19.262374721979022
response_angle_rel: 0:-0.004119760941775801_1:0.0006640550471374856_2:-0.002517676537872826_3:-0.0009878479890445175
response_angle_rel_control: 0:0.03147588393984599_1:0.05657403608078896_2:0.08570539928230667_3:0.08605181097820351_4:0.037316841847970295_5:0.0298277
auc_norm: 0:-0.275365085175816_1:-0.1509282438679168_2:-0.1225539825593177_3:-0.20315778176112886
auc_control_norm: 0:[0.1853504]_1:[0.22354622]_2:[0.32885973]_3:[0.33060308]_4:[0.21151258]_5:[0.18192207]
tgi: 1.6762407088960785
red = treatment,   blue=control

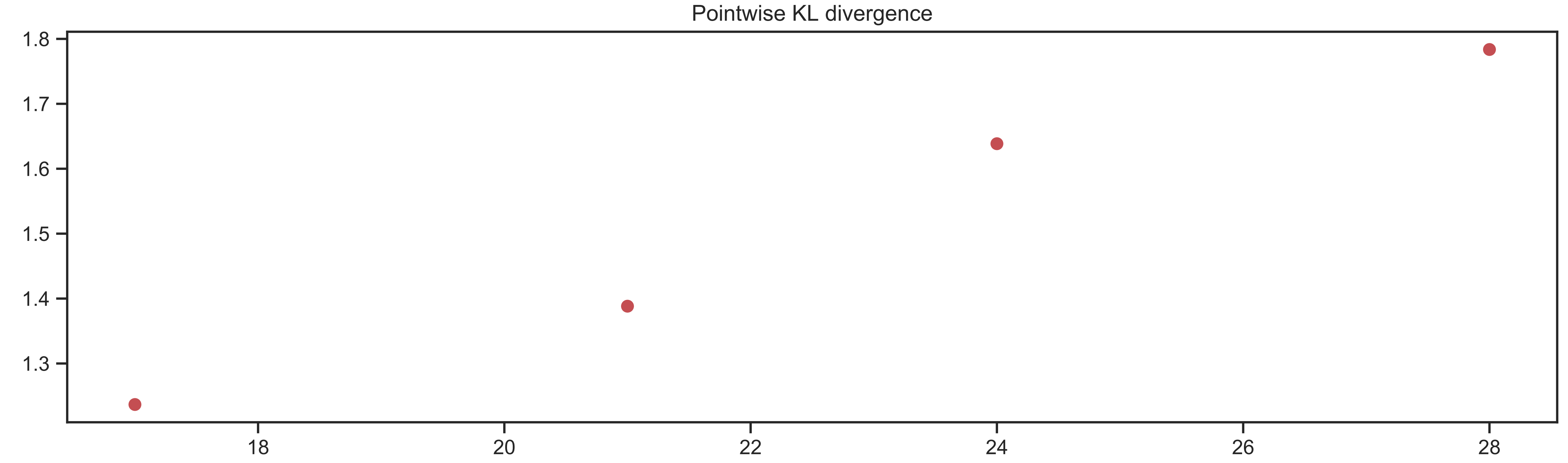


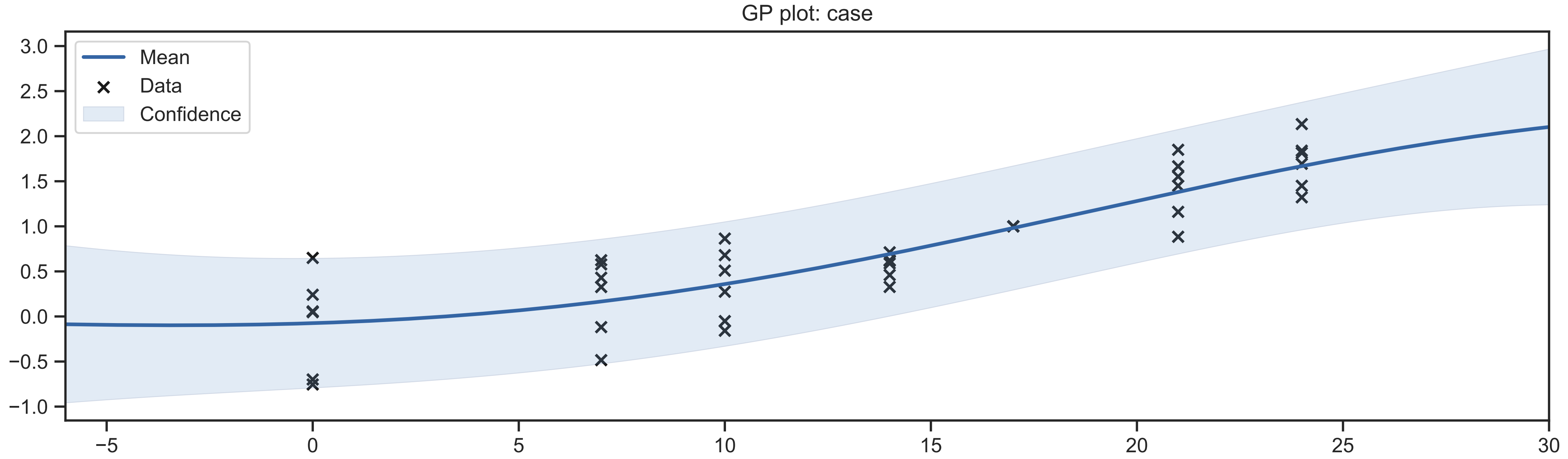
P29*C3

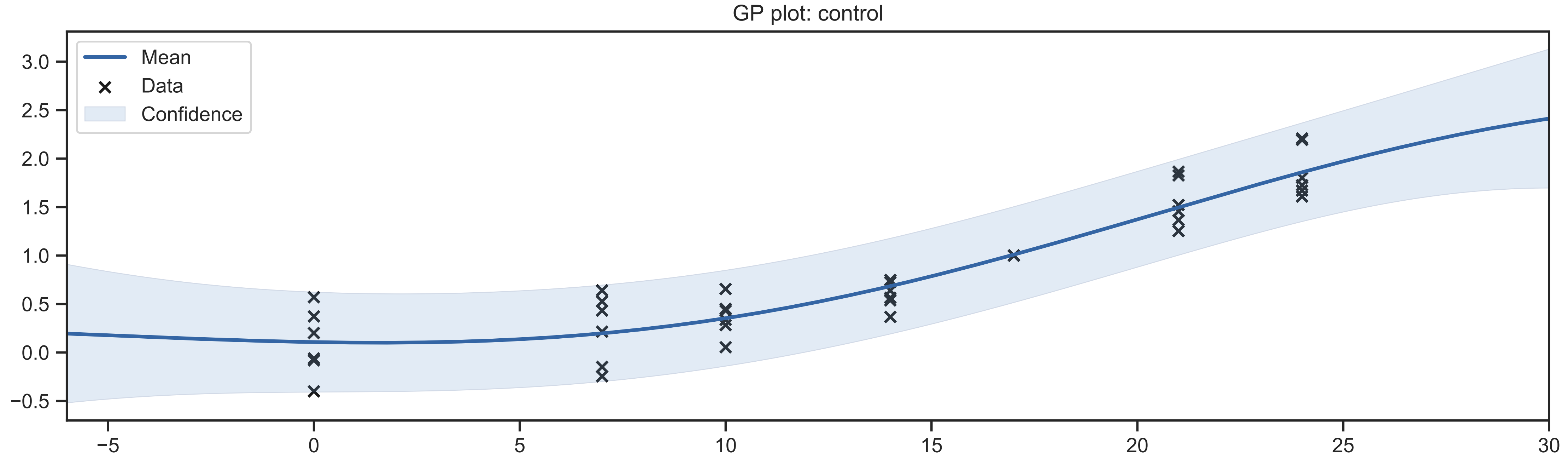


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: N
TGI: N

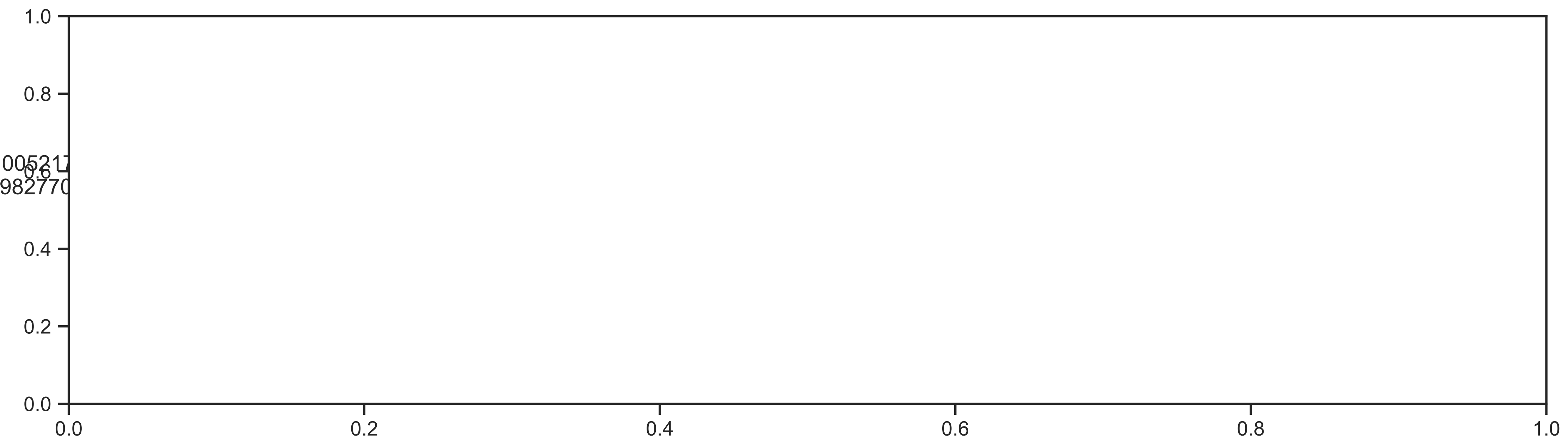




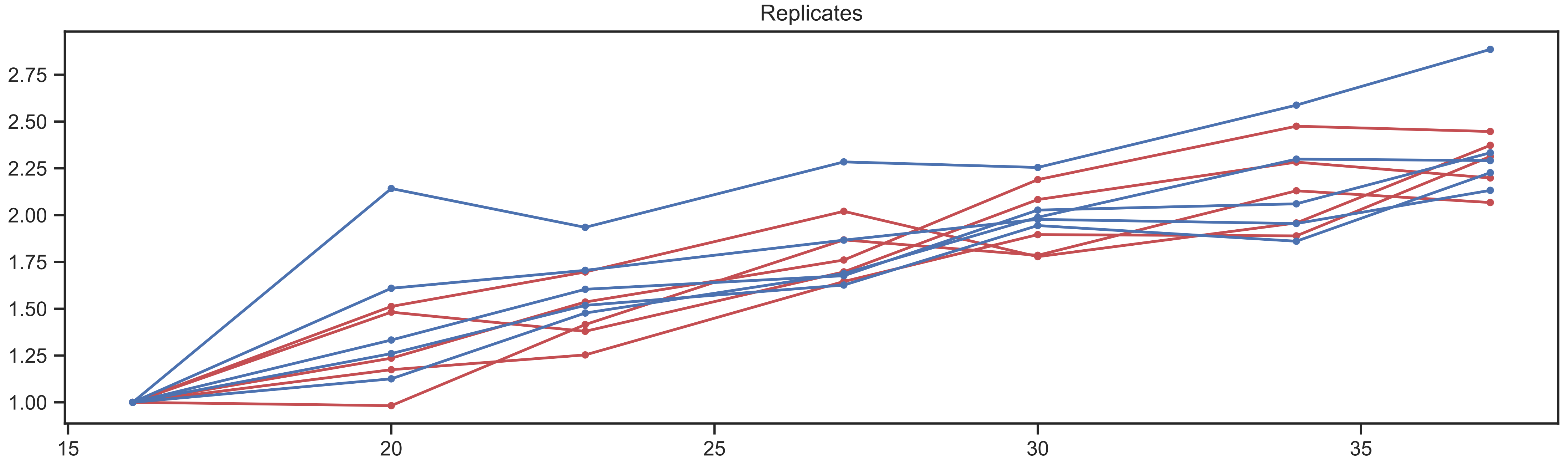




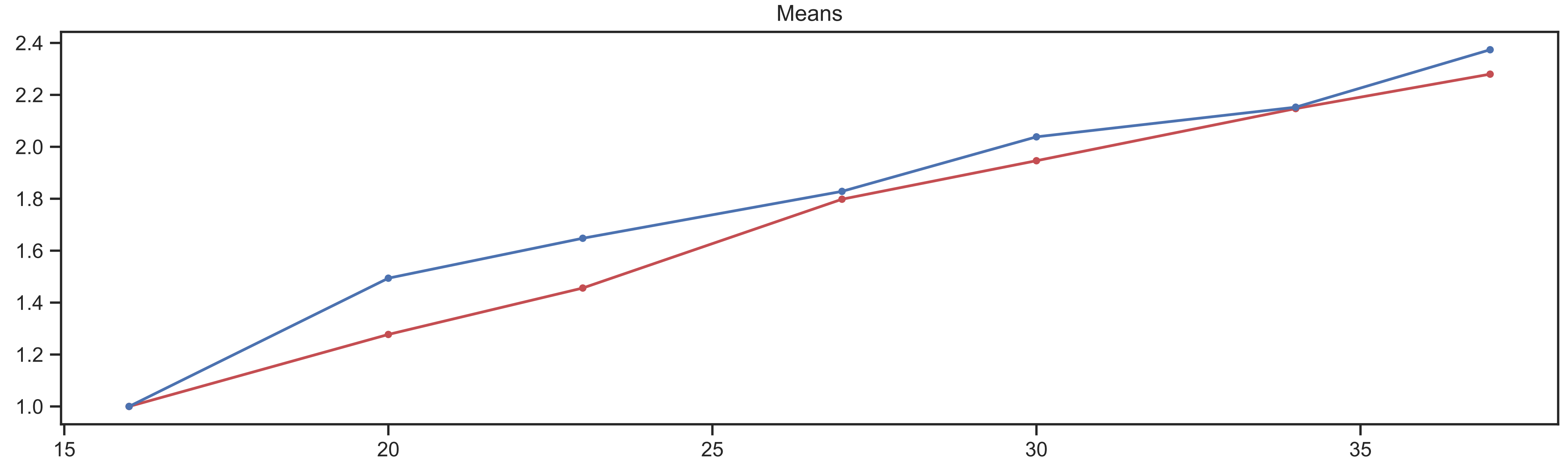
mRECIST: (6,0,0,0
kl: 0.4942231943539195
response_angle_rel: 0:-0.005409902365888241_1:-0.005370965765019327_2:-0.004725279112901941_3:-0.0046060412230724225_4:-0.004860349580642783_5:-0.0052
response_angle_rel_control: 0:0.03147588393984599_1:0.05657403608078896_2:0.08570539928230667_3:0.08605181097820351_4:0.037316841847970295_5:0.0298277
auc_norm: 0:0.1936296741405329_1:0.3073167960759067_2:0.23367597038079474_3:0.11682453207039553_4:0.13648742820169535_5:0.21620754256351257
auc_control_norm: 0:[0.1853504]_1:[0.22354622]_2:[0.32885973]_3:[0.33060308]_4:[0.21151258]_5:[0.18192207]
tgi: 0.1488512355921474
red = treatment,   blue=control

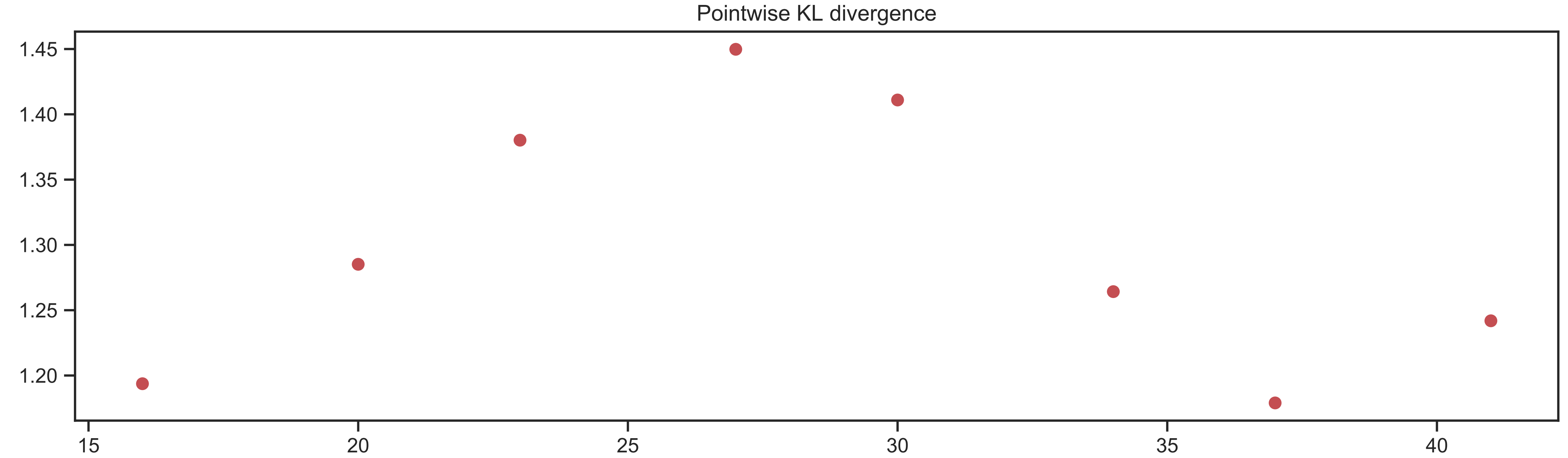


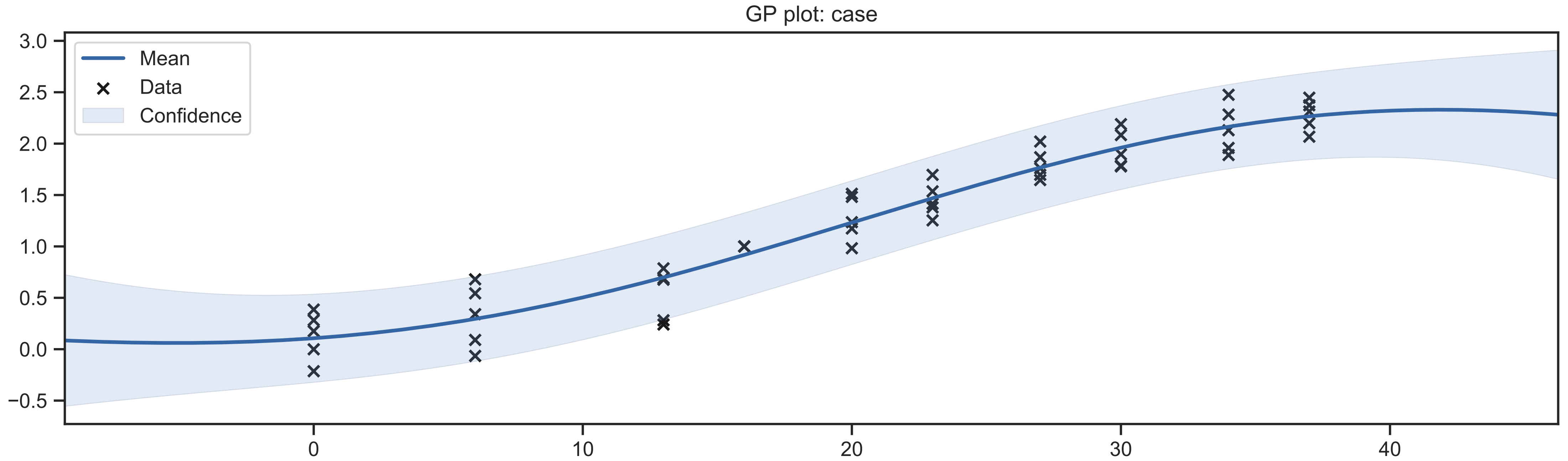
P30*C1

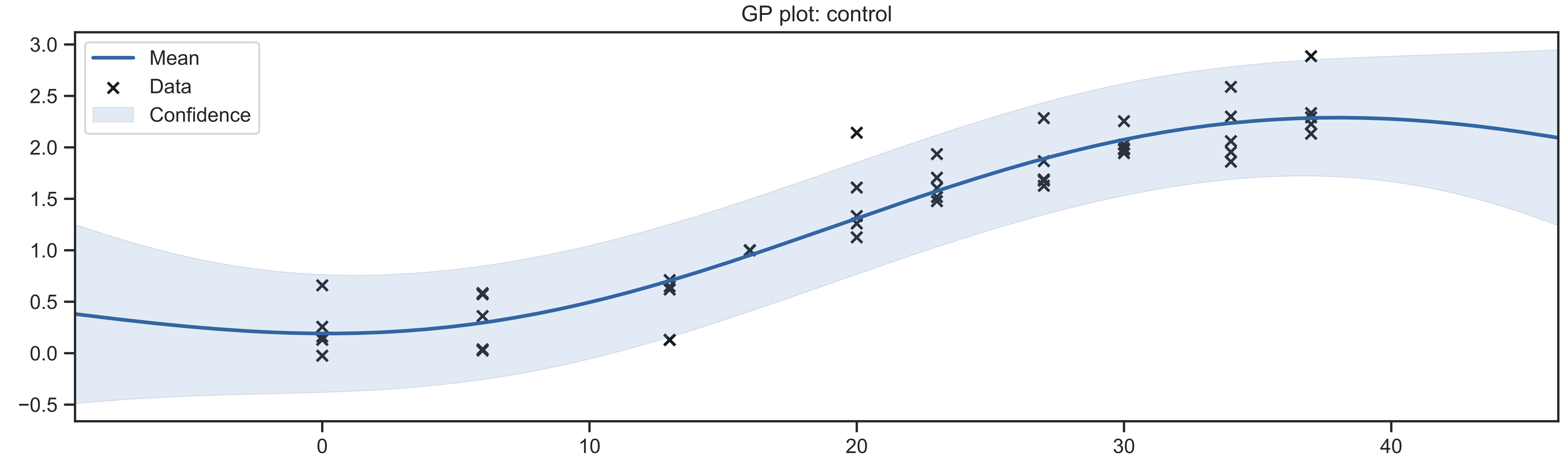


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N



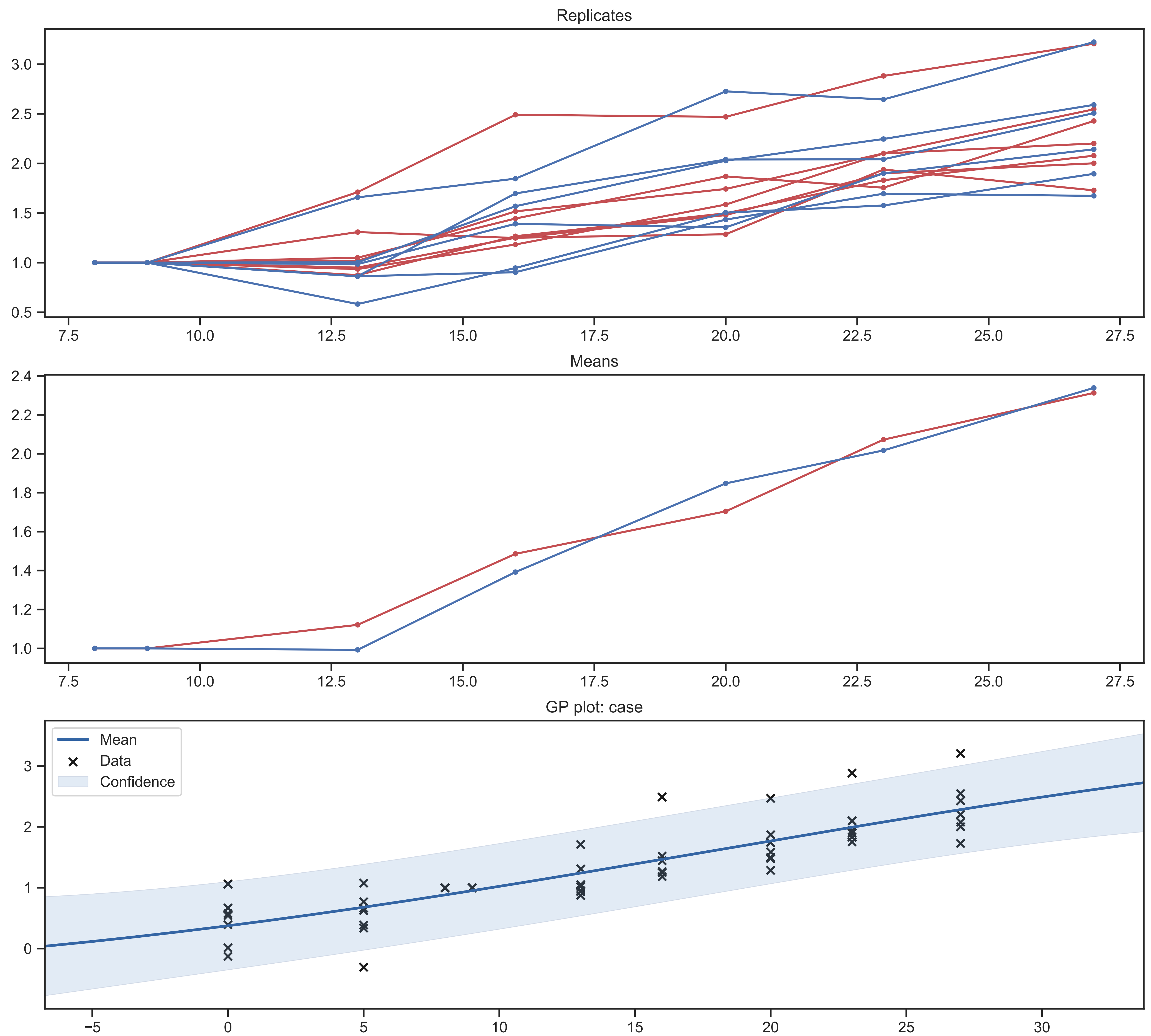




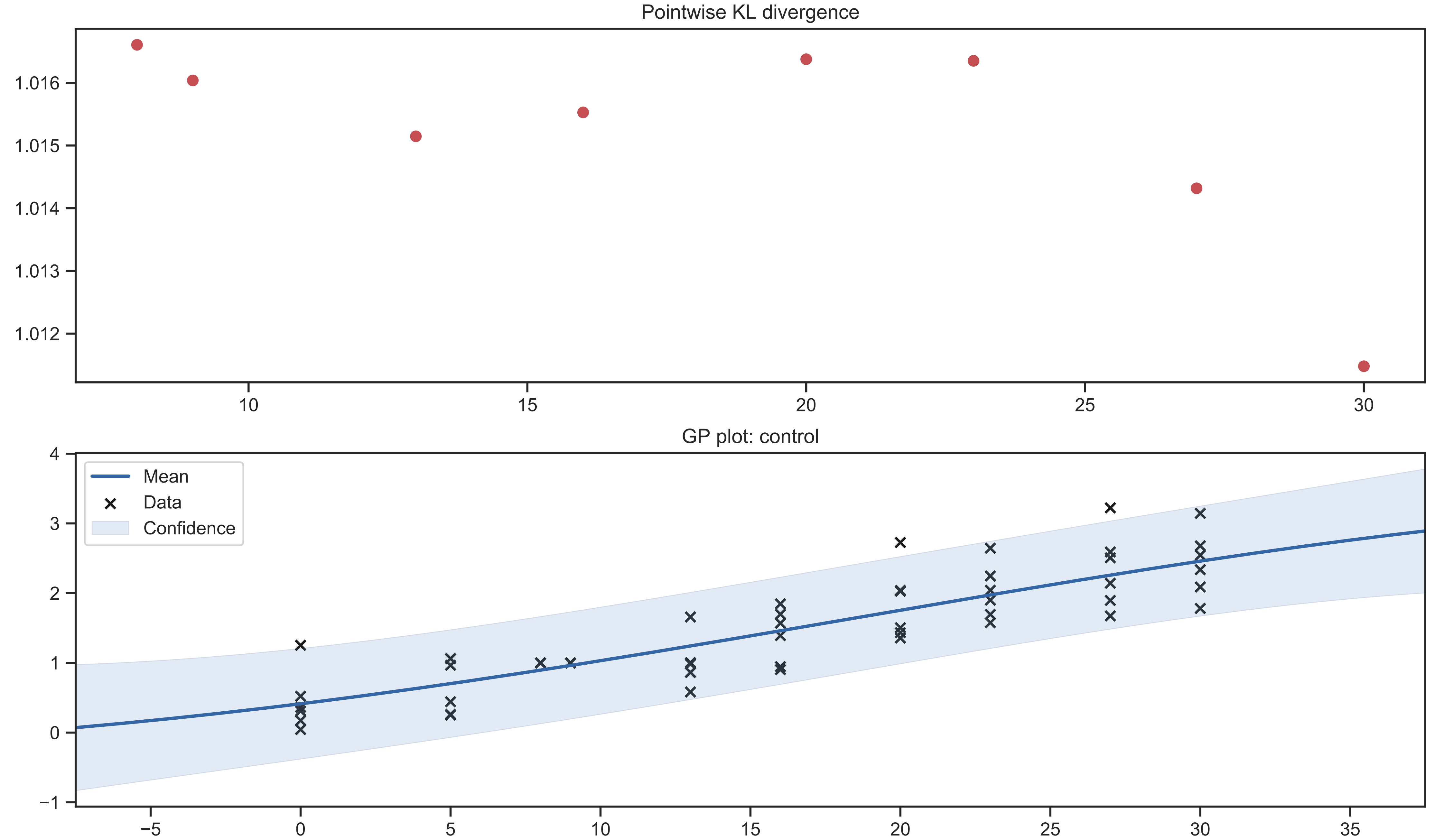


```
mRECIST: (0,0,3,2
kl: 0.30898108432191684
response_angle_rel: 0:0.06334104249120011_1:0.04887665516627702_2:0.05823404885333095_3:0.0736703682995369_4:0.04340741599574481
response_angle_rel_control: 0:0.060101320515269126_1:0.04692888018985826_2:0.0451505948462274_3:0.11965281195595248_4:0.05735078781966523
auc_norm: 0:0.3162690527883472_1:0.39105887622973856_2:0.37292182041_3:0.4201218491096557_4:0.2908407679363236
auc_control_norm: 0:[0.40780619]_1:[0.31509882]_2:[0.38515214]_3:[0.4764152]_4:[0.3765399]
tgi: 0.014251983482348463
red = treatment,       blue=control
```

P31*C1

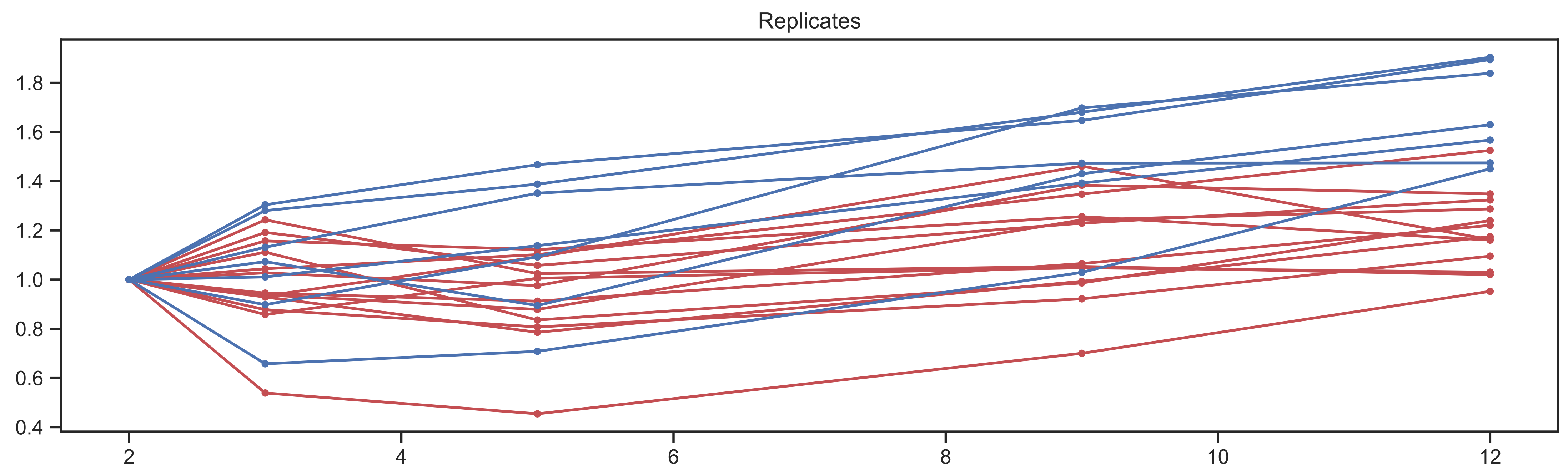


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

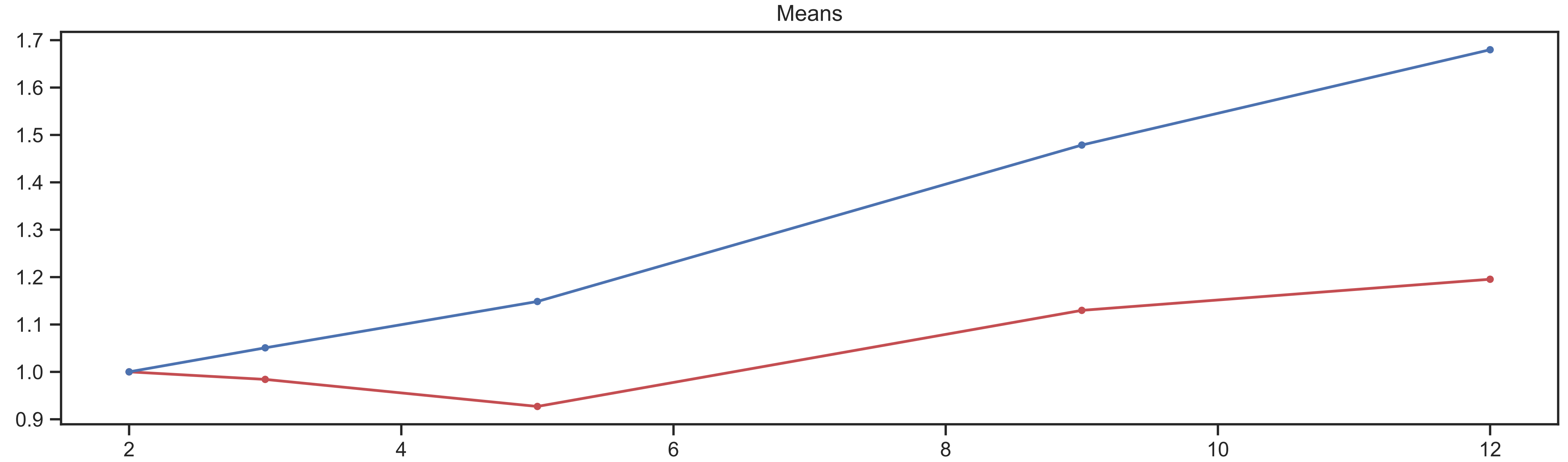


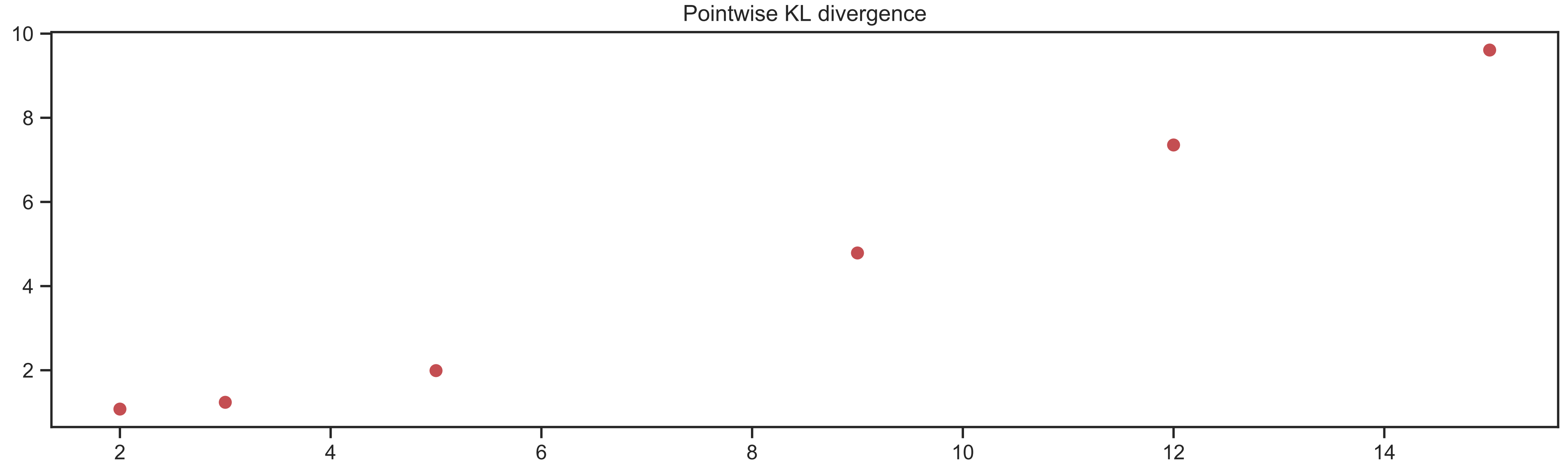
mRECIST: (0,0,5,2
kl: 0.015324535669115544
response_angle_rel: 0:0.05778556224767839_1:0.0926179869570515_2:0.05563985598672589_3:0.03488790209049314_4:0.245100106008293_5:0.08733789991418478
response_angle_rel_control: 0:0.04639007507389756_1:0.07197502184862975_2:0.2334859263026077_3:0.10975198410679834_4:0.05636123456644568_5:0.1130067513
auc_norm: 0:0.3299182162816191_1:0.3637712536867367_2:0.26169390736003045_3:0.28040247058810486_4:0.6508605128978653_5:0.380325875762333_6:0.4577040
auc_control_norm: 0:[0.260048]_1:[0.36469371]_2:[0.56459241]_3:[0.44639259]_4:[0.19354476]_5:[0.4628211]
tgi: -0.028731332597789594
red = treatment,   blue=control

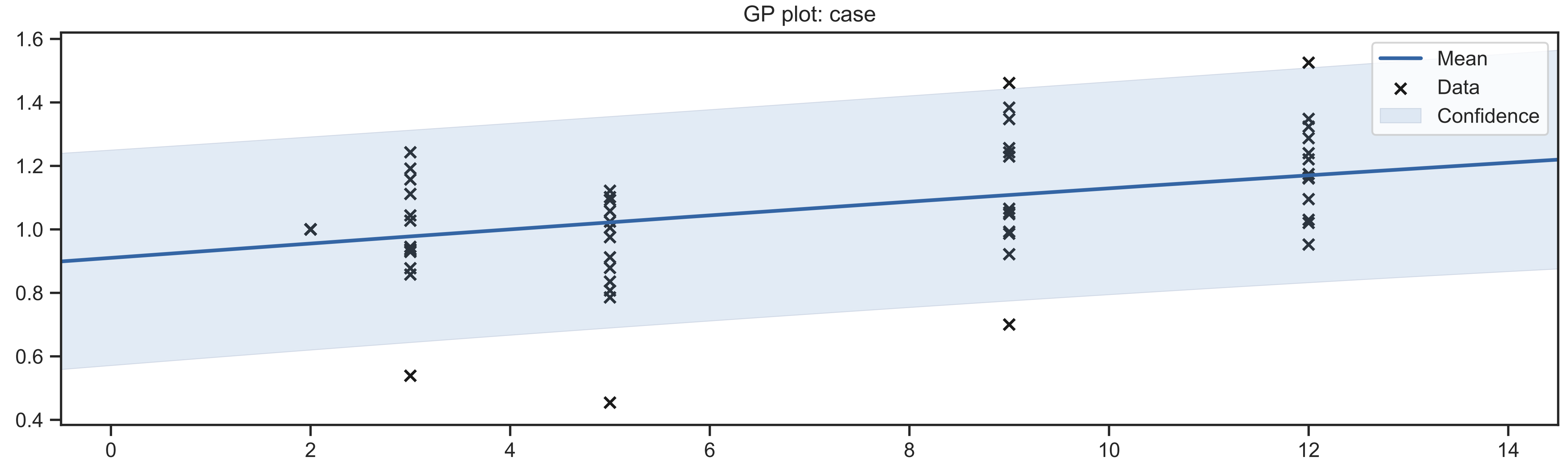
P32*C0

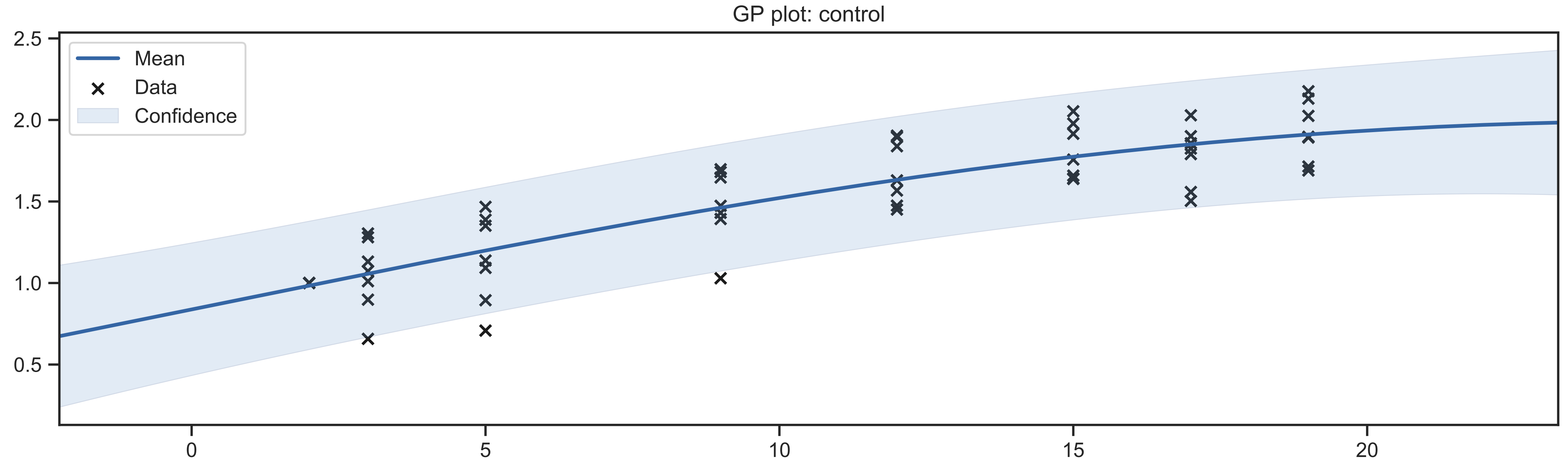


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

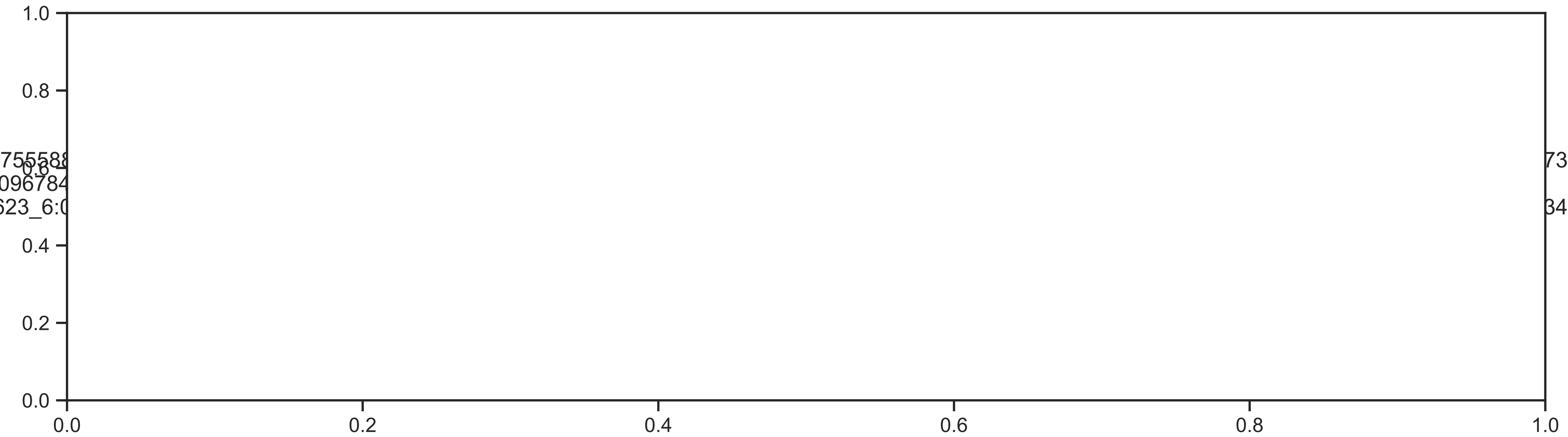




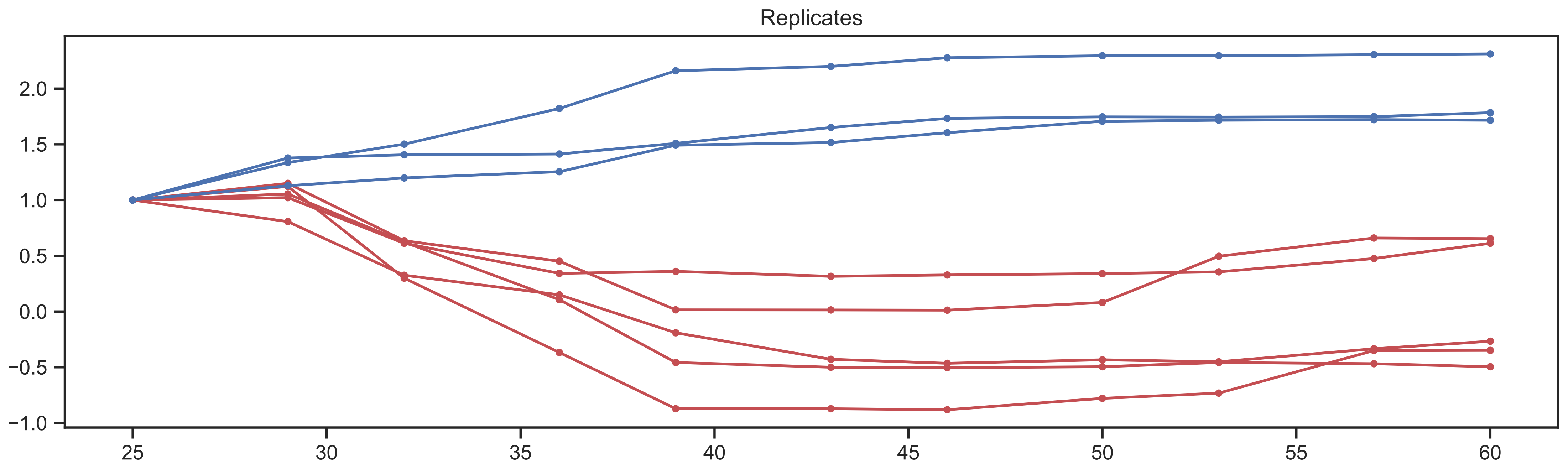




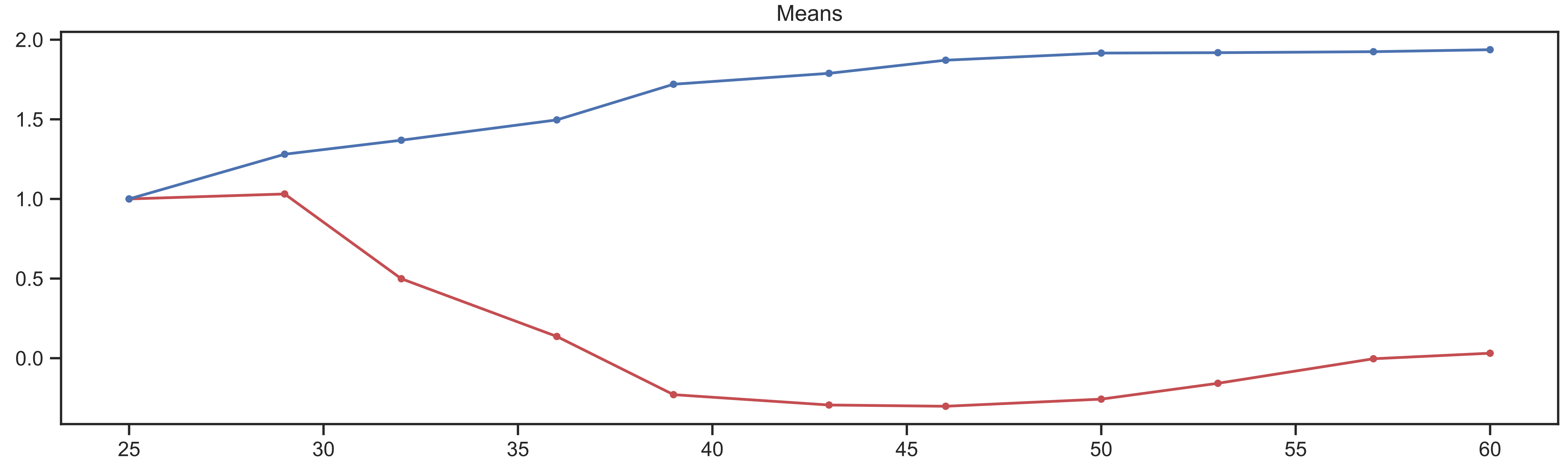
mRECIST: (0,2,11,0
kl: 3.448273315348996
response_angle_rel: 0:0.022175110748699493_1:0.03490044873676534_2:0.011819086717316159_3:0.005972286402812124_4:-0.03126996984018844_5:0.0543627555 7307007605356926_12:-0.0273289838865
response_angle_rel_control: 0:0.10489157068961358_1:0.11557777006688898_2:0.05033987210496534_3:0.06078749775448589_4:0.08525989268370339_5:0.0740967
auc_norm: 0:-0.06374491748598744_1:0.09152332453092667_2:-0.030371912352789493_3:-0.07114047987999825_4:0.14108993943319173_5:0.19347820143869623_6: 34492_12:0.12981392672850572
auc_control_norm: 0:[0.48174206]_1:[0.1935396]_2:[-0.0964416]_3:[0.27222915]_4:[0.18378199]_5:[0.19620064]_6:[0.51296001]
tgi: 0.7705404109147799
red = treatment,   blue=control

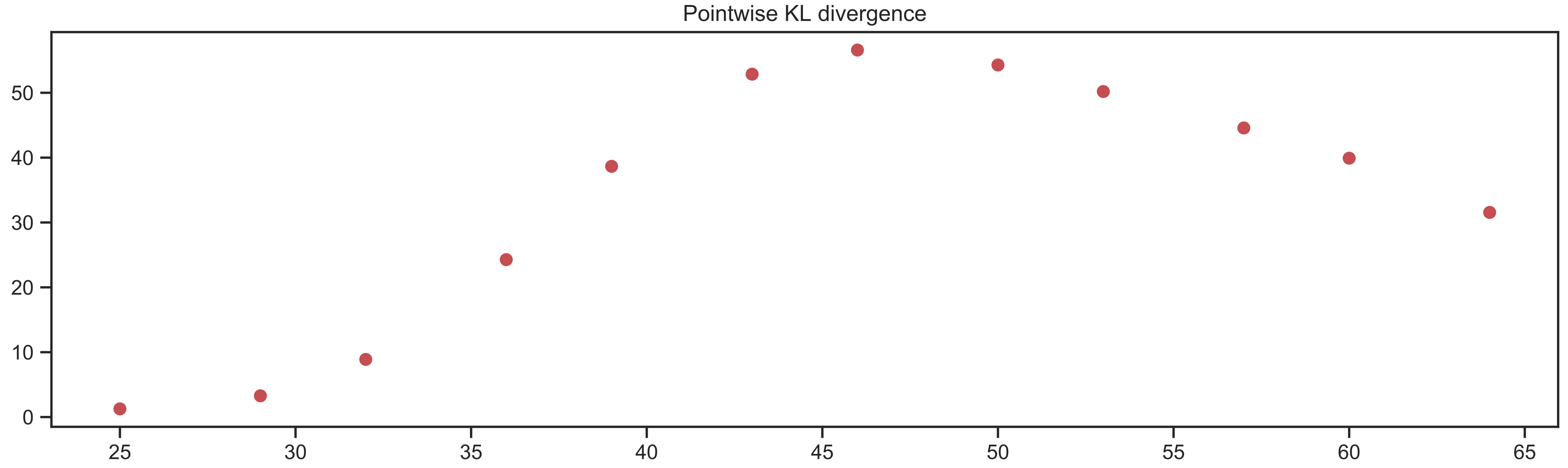


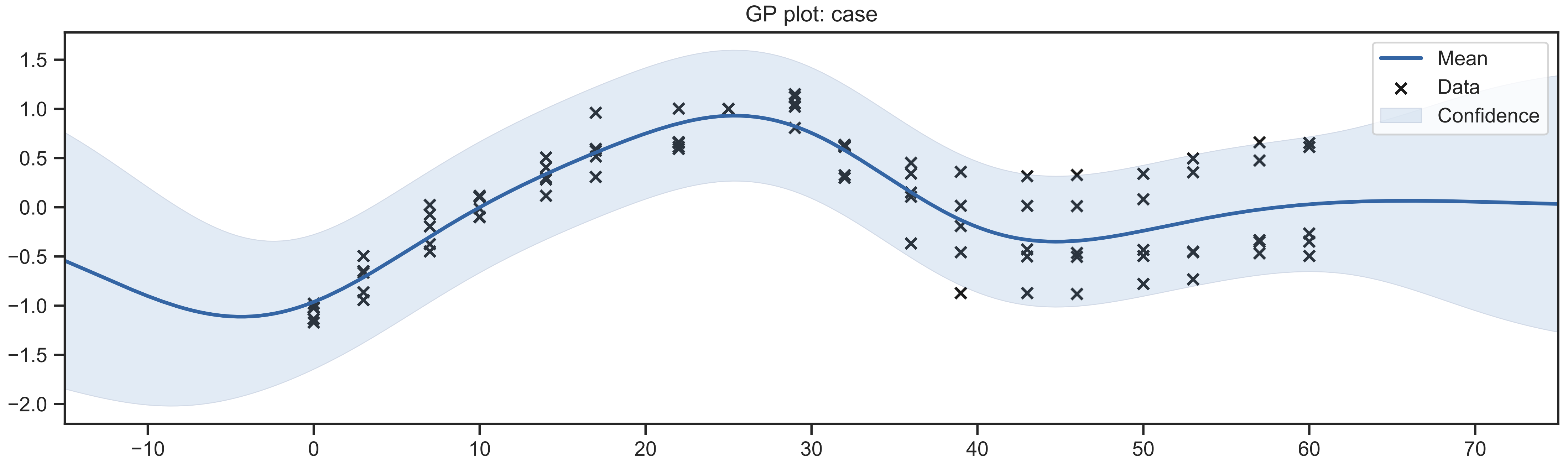
P33*C1

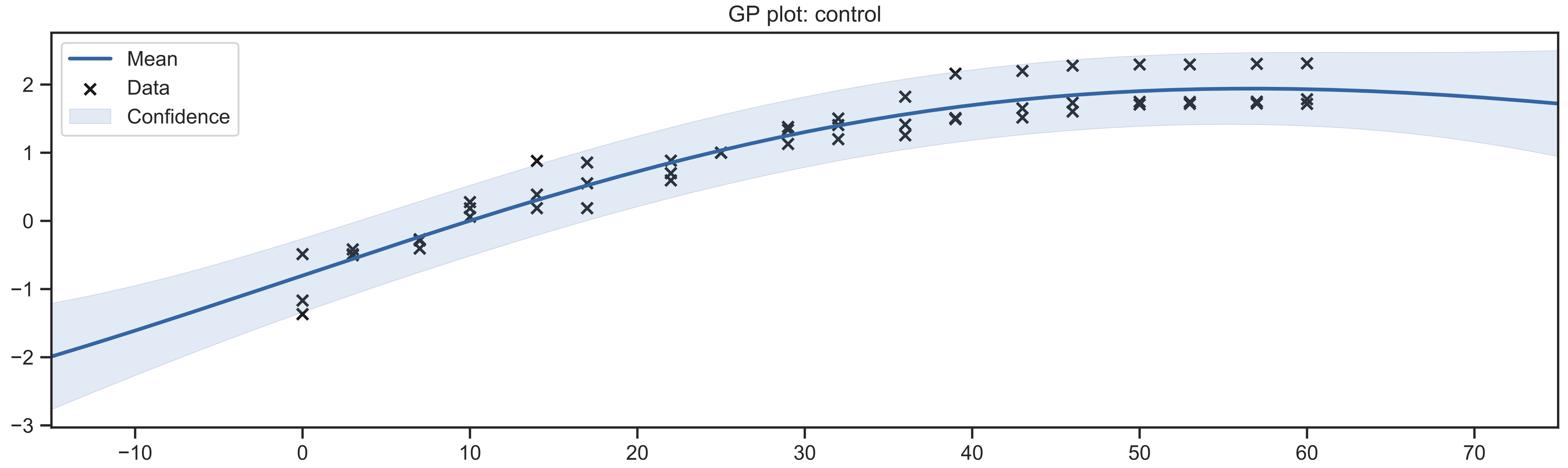


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

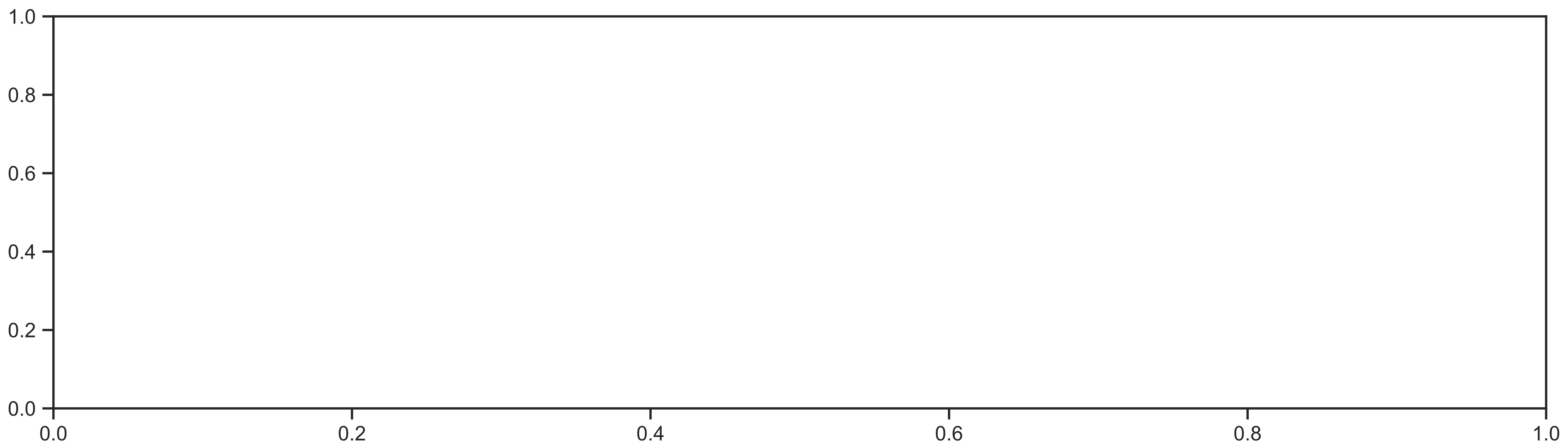




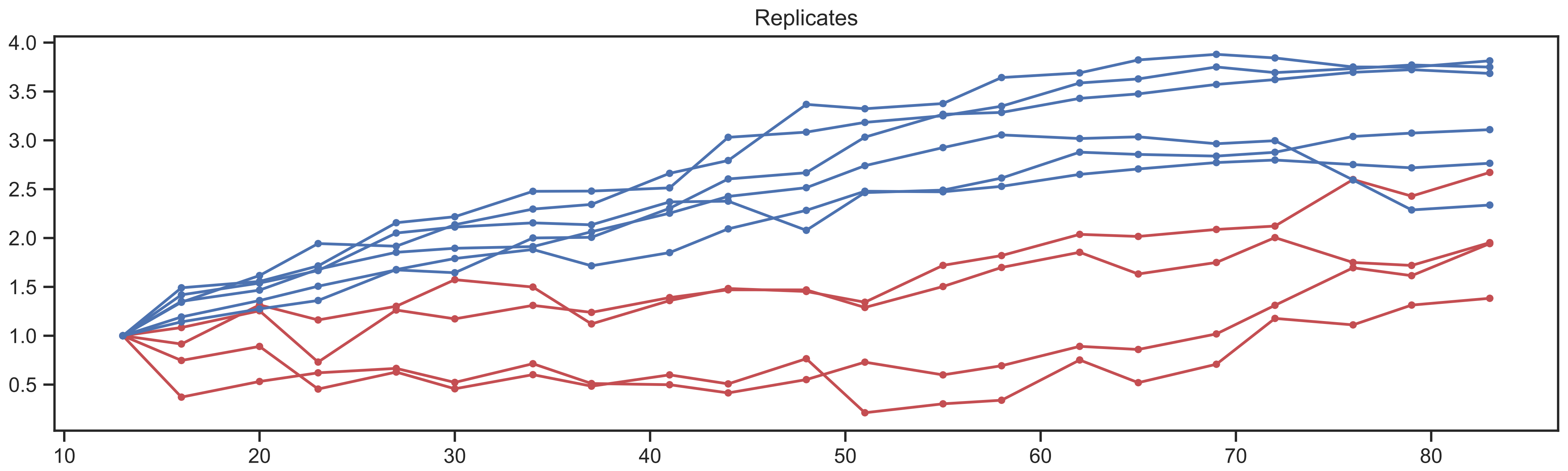




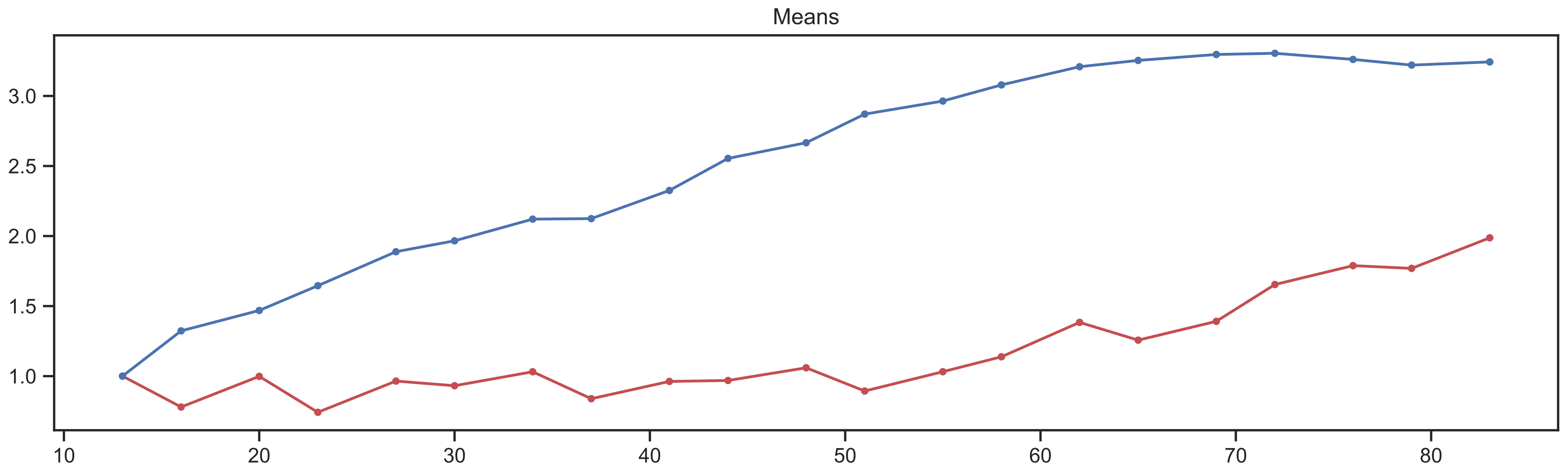
mRECIST: (0,4,1,0
kl: 34.2684830545042
response_angle_rel: 0:-0.0077745973326802656_1:-0.013554018991371443_2:-0.01364249571800054_3:-0.014258398960196846_4:-0.0076867735186665264
response_angle_rel_control: 0:0.019227597969883495_1:0.044796531030768104_2:0.016130228916572353
auc_norm: 0:-0.11582969837742274_1:-0.38389676839265663_2:-0.4562380468341011_3:-0.44440316176495265_4:-0.1319385482052649
auc_control_norm: 0:[0.21587002]_1:[0.37679133]_2:[0.21246831]
tgi: 1.9347213501711318
red = treatment,   blue=control

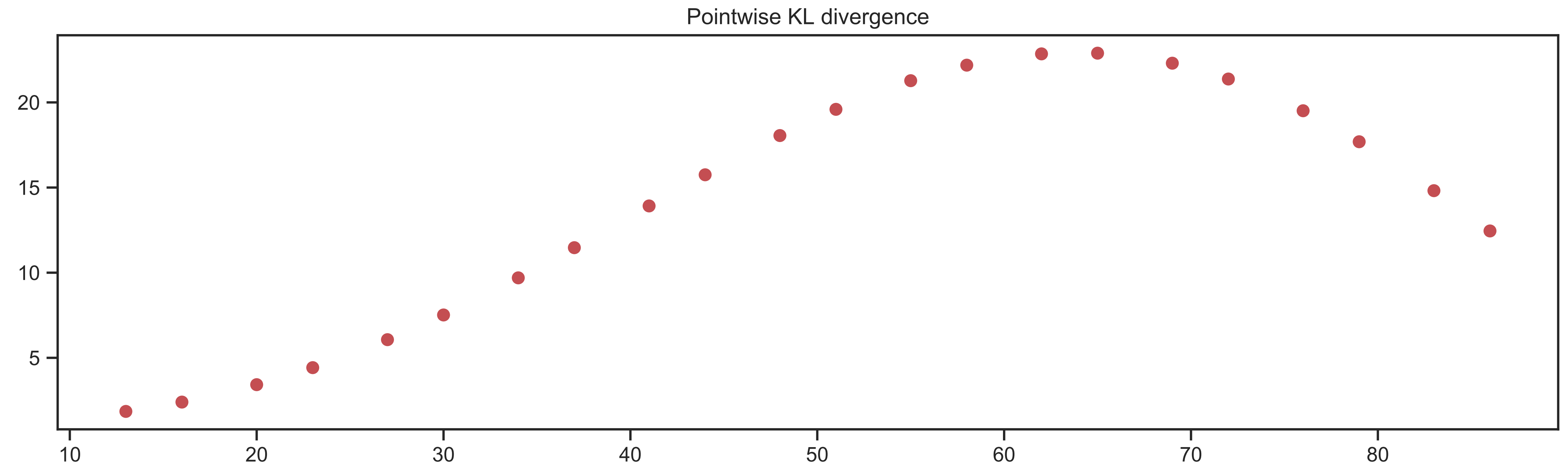


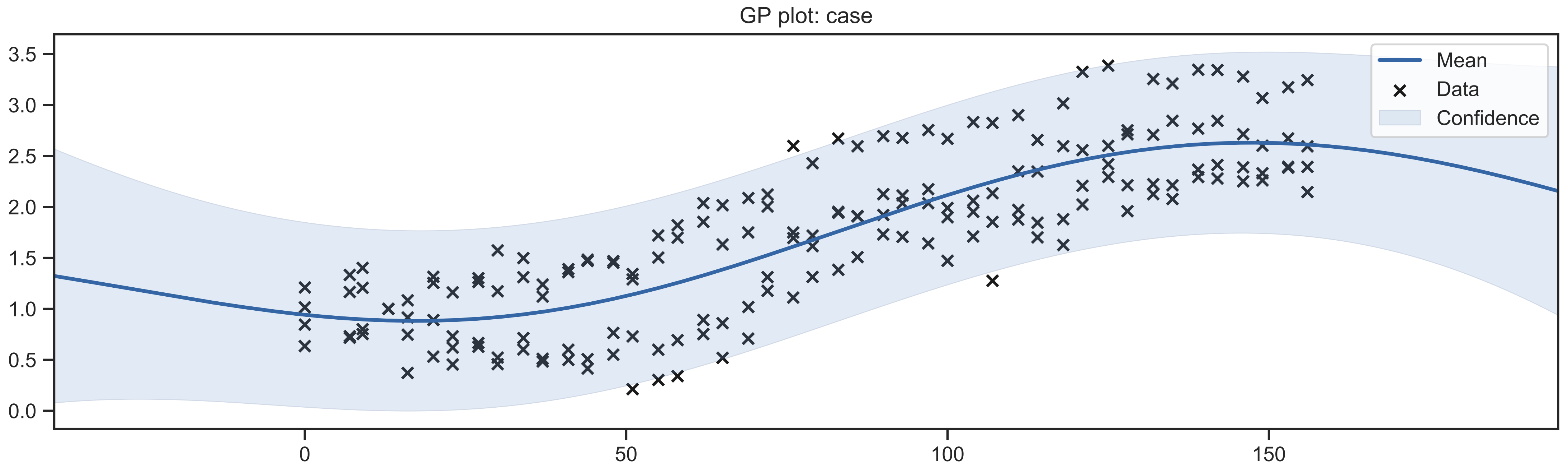
P34*C1

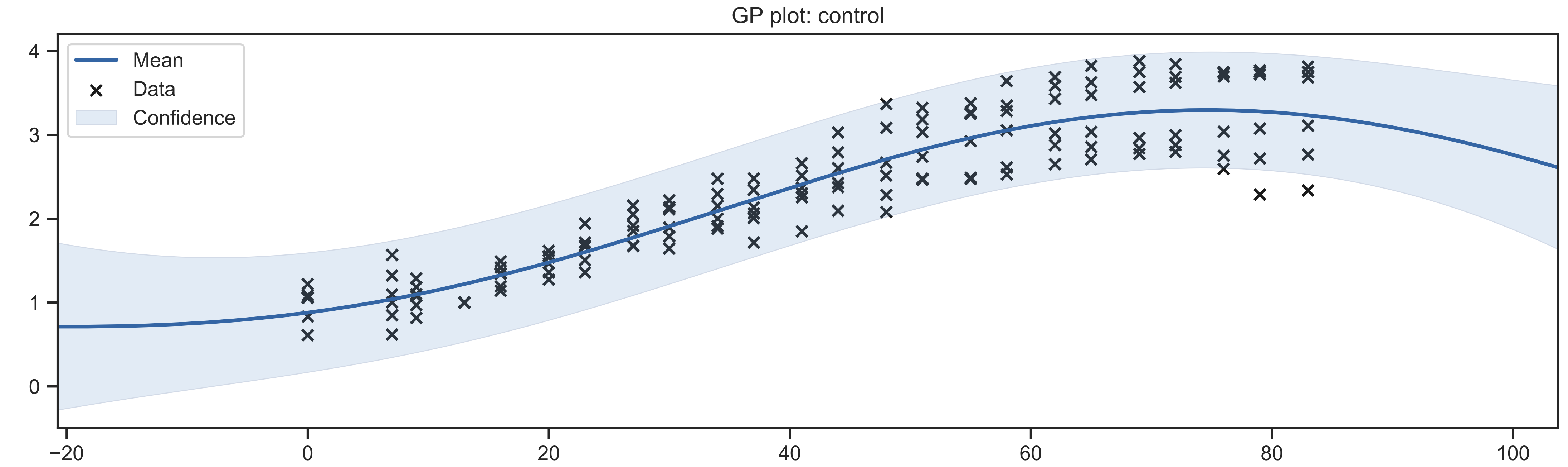


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

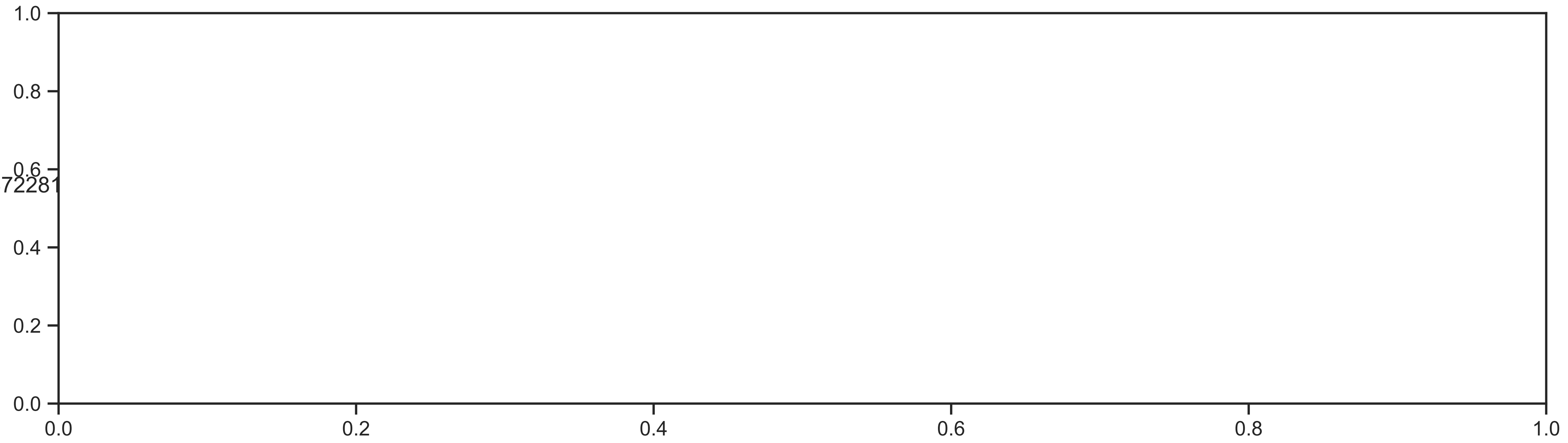




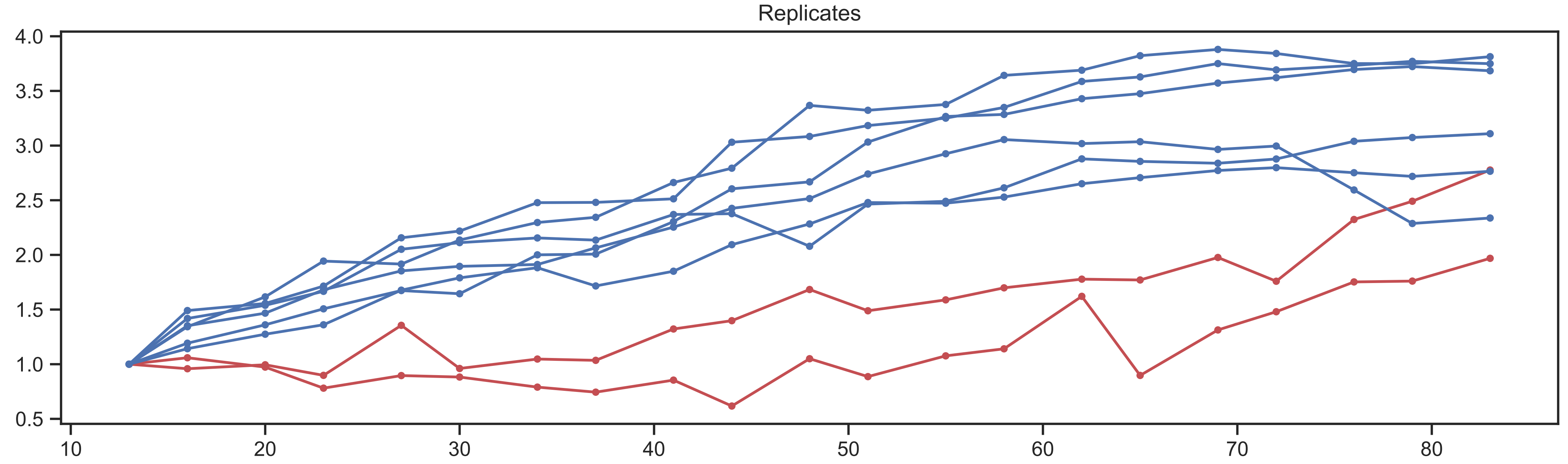




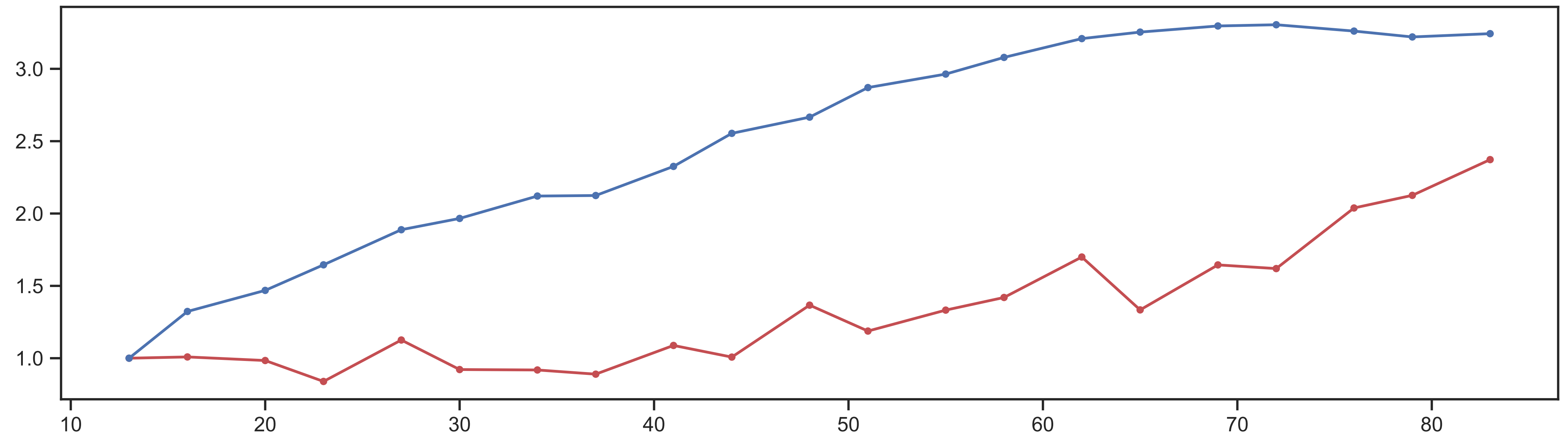
mRECIST: (0,1,3,0
kl: 13.385158242532956
response_angle_rel: 0:0.015504527658550753_1:0.016471076673464022_2:0.047269677928831494_3:0.011164479043447254
response_angle_rel_control: 0:0.06709469942426396_1:0.05952560565449423_2:0.14395560021761783_3:0.07700809302234575_4:0.16205341919709756_5:0.185372281
auc_norm: 0:0.00015826150324450838_1:0.19254433791371323_2:0.3854737759050463_3:0.19602483434322432
auc_control_norm: 0:[0.41999789]_1:[0.50095616]_2:[0.76449997]_3:[0.62340277]_4:[0.80806483]_5:[0.81866398]
tgi: 0.5549567394937966
red = treatment,   blue=control

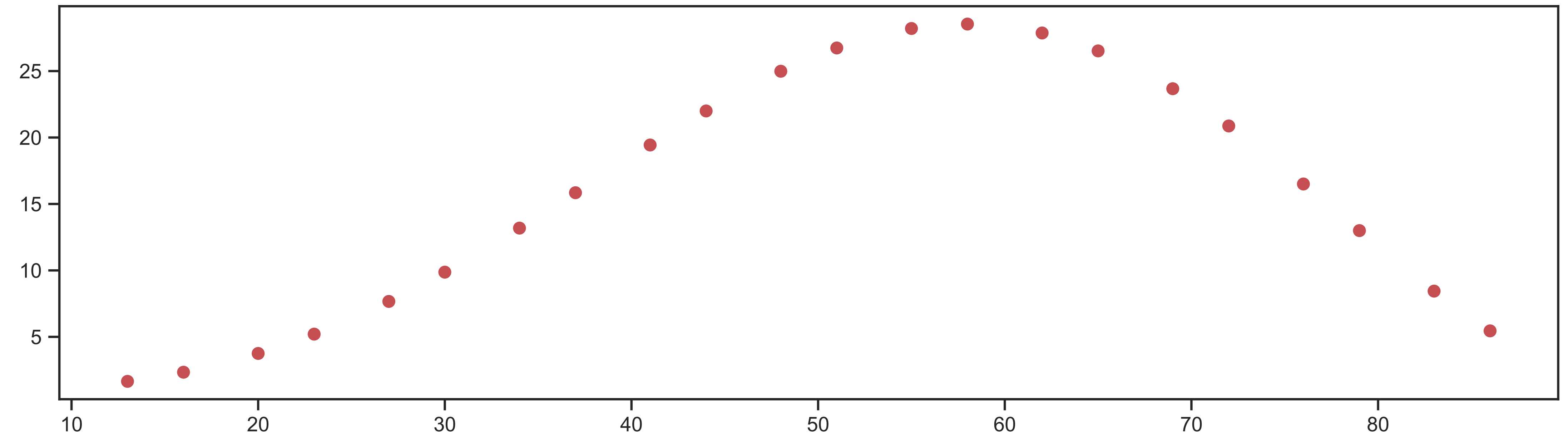


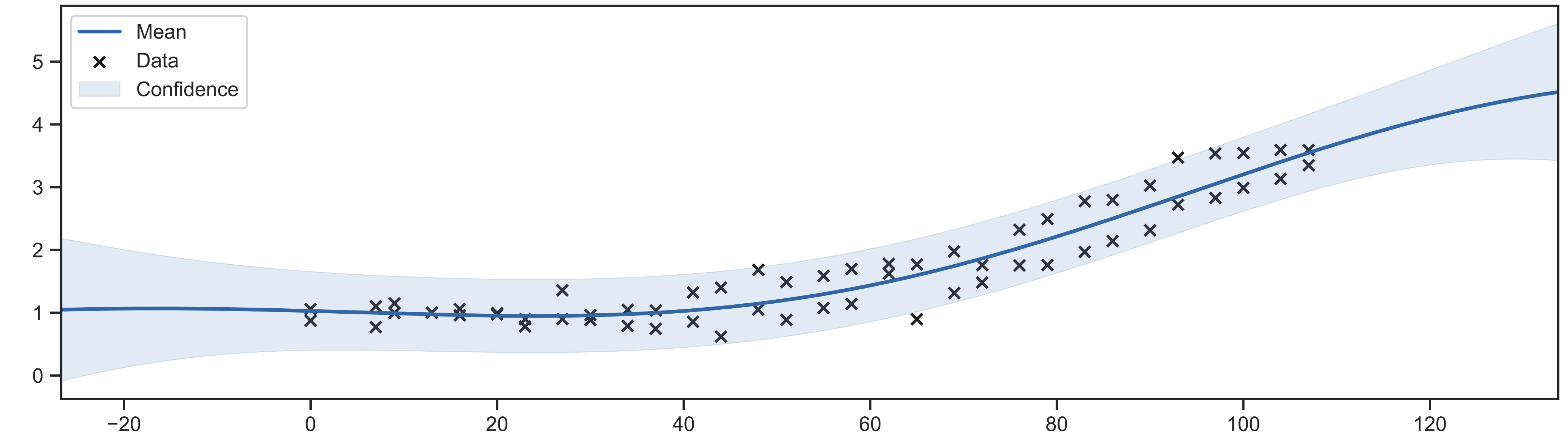
P34*C2

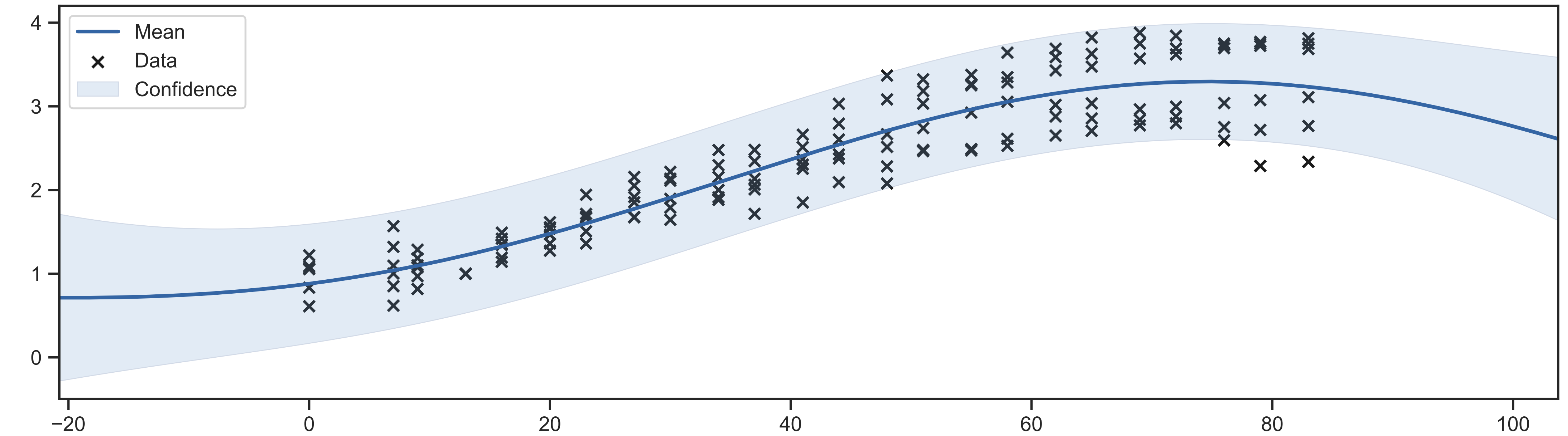

Replicates

KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

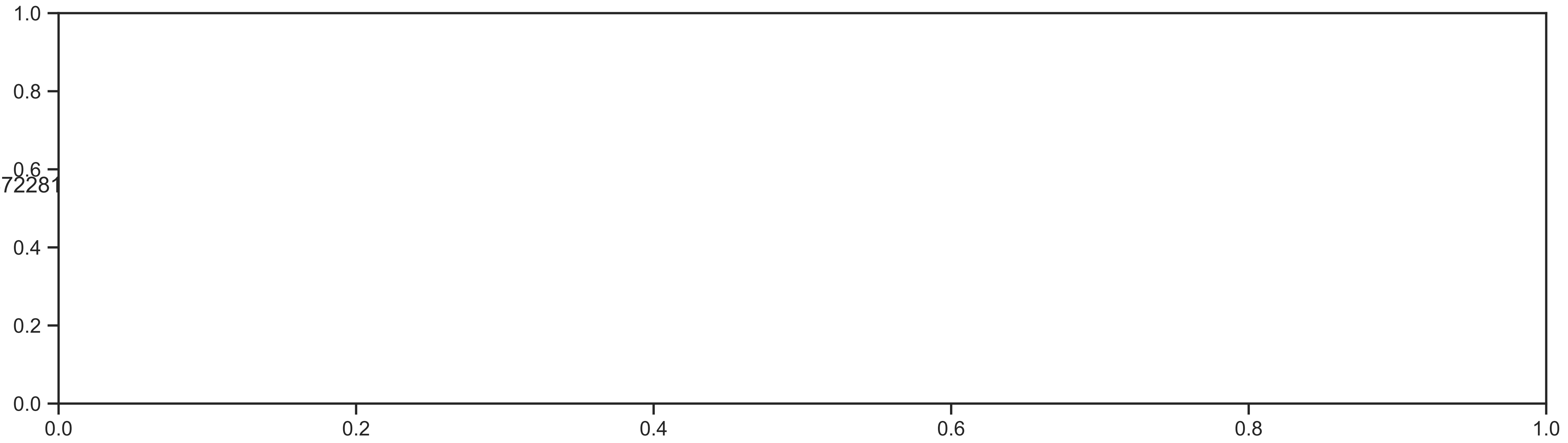

Means


Pointwise KL divergence

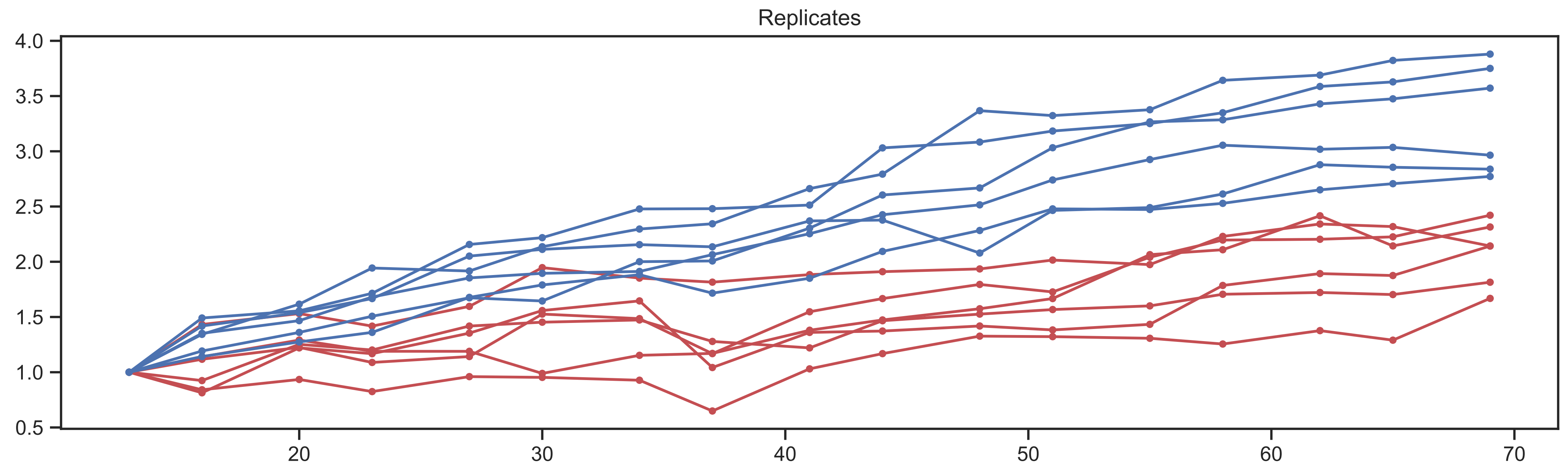

GP plot: case


GP plot: control

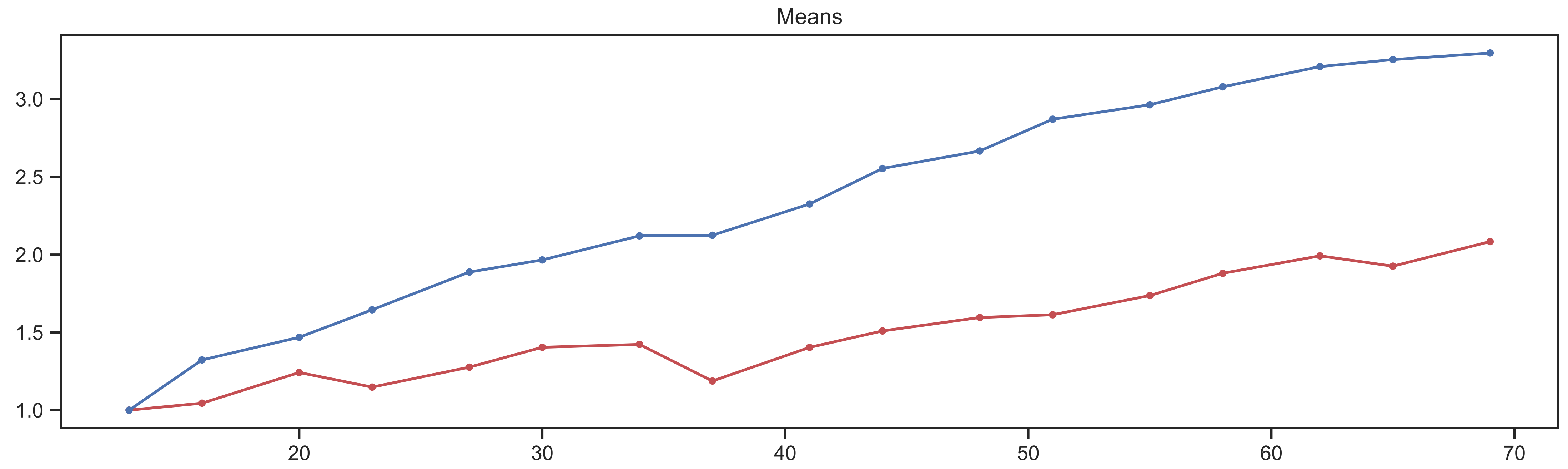
```
mRECIST: (0,0,2,0
kl: 15.481772634123839
response_angle_rel: 0:0.008012387357557592_1:0.009609747709605702
response_angle_rel_control: 0:0.06709469942426396_1:0.05952560565449423_2:0.14395560021761783_3:0.07700809302234575_4:0.1620534191970975 6_5:0.18537228
auc_norm: 0:0.393167077737658_1:0.15223391501551153
auc_control_norm: 0:[0.41999789]_1:[0.50095616]_2:[0.76449997]_3:[0.62340277]_4:[0.80806483]_5:[0.81866398]
tgi: 0.3329950008995294
red = treatment,      blue=control
```

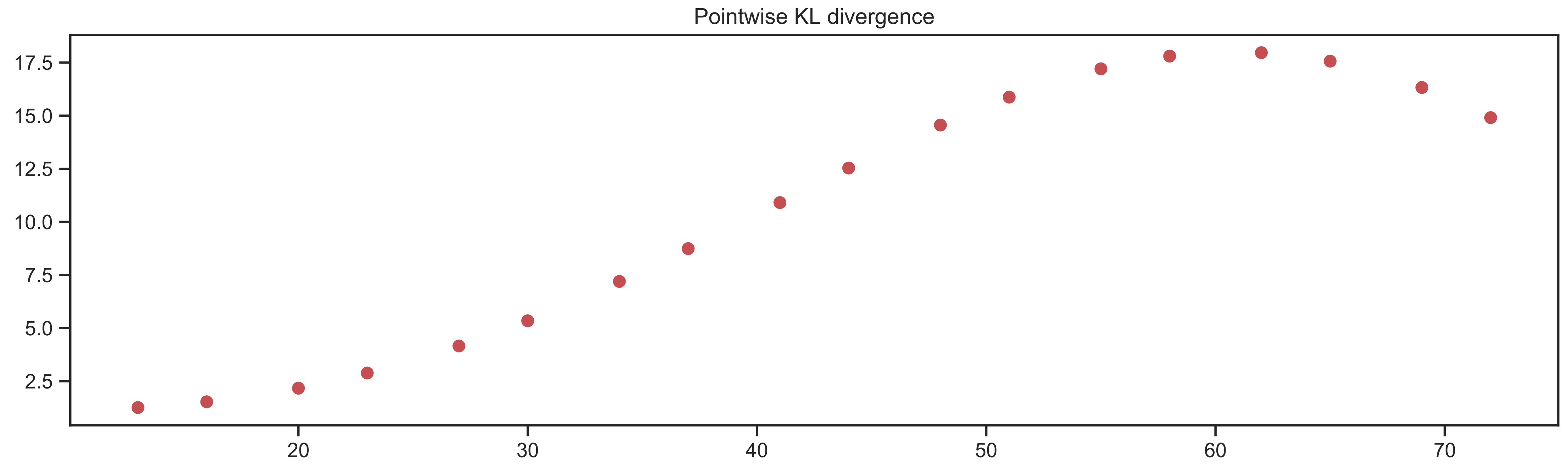


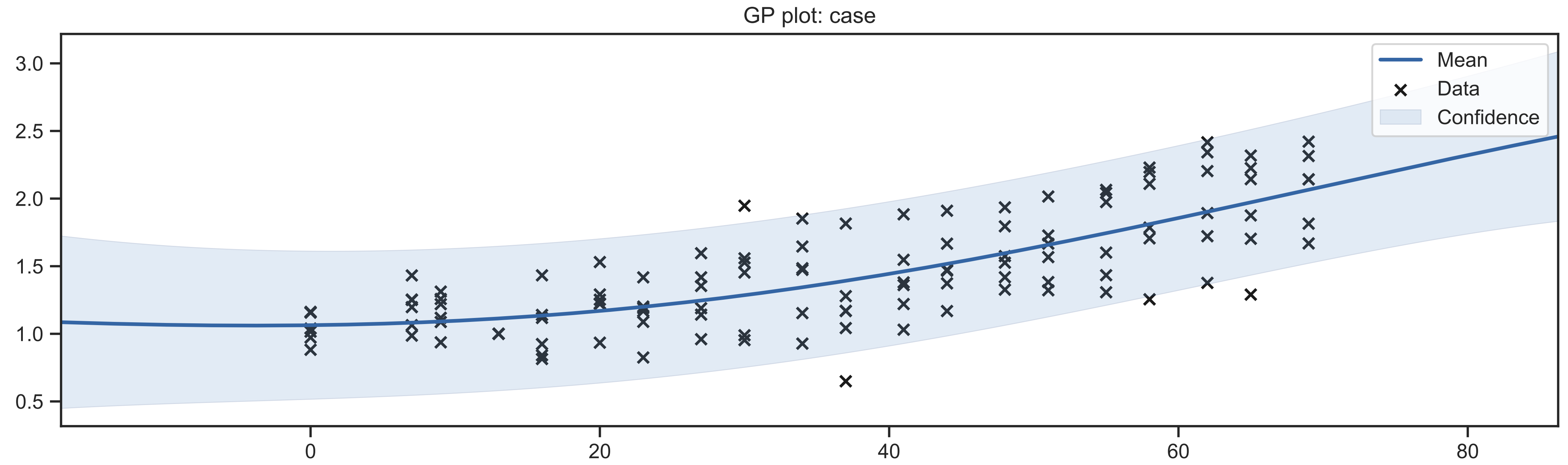
P34*C3

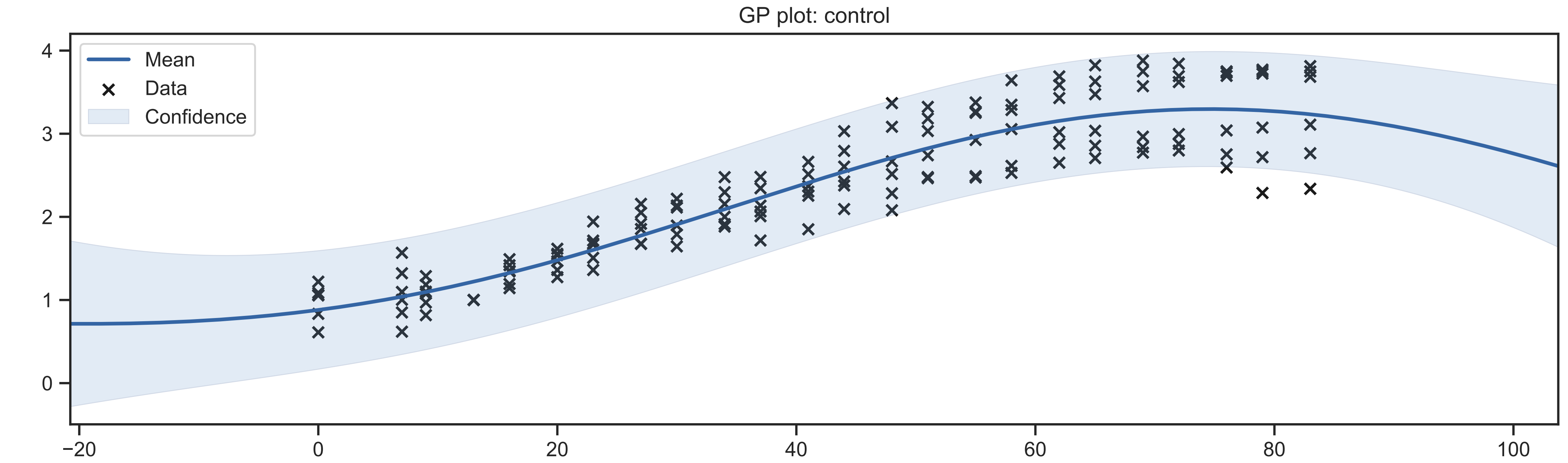


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: N



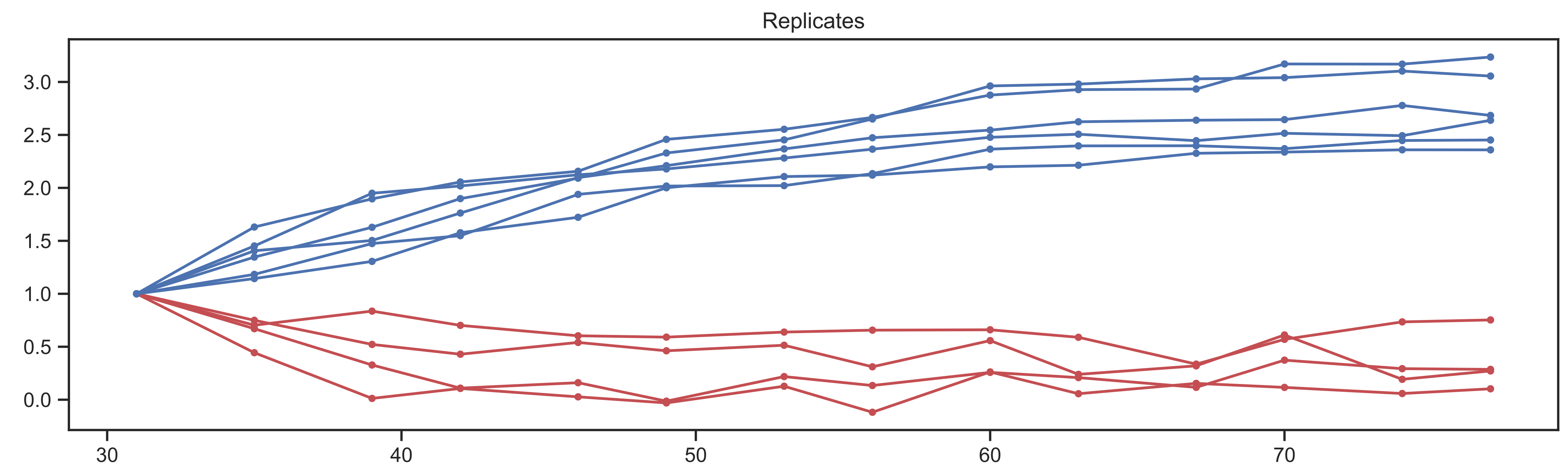




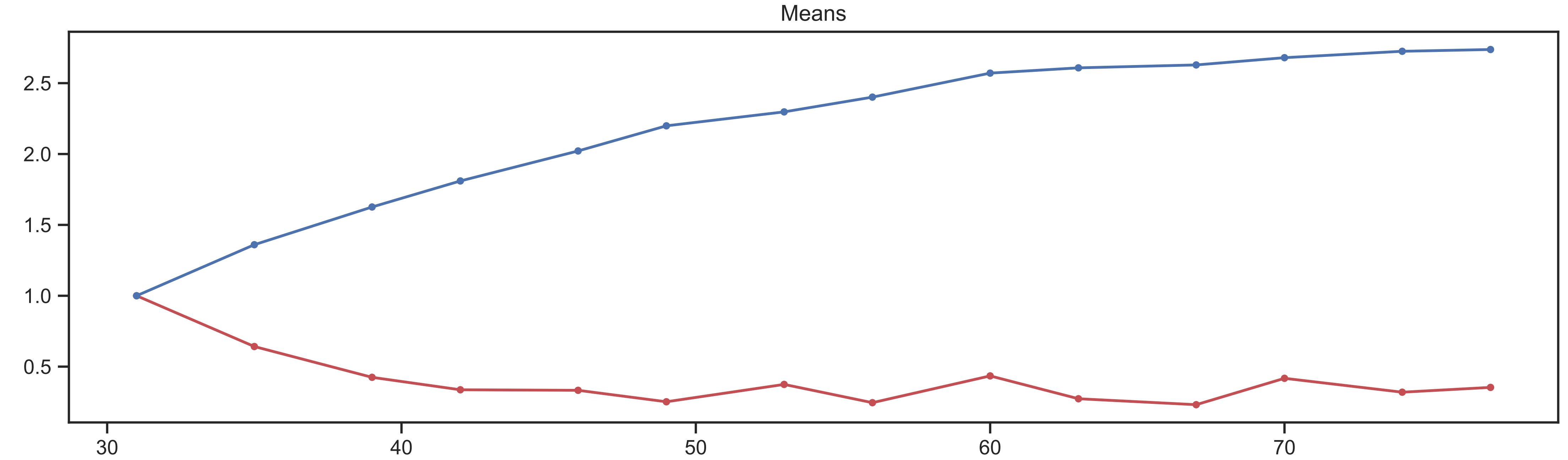


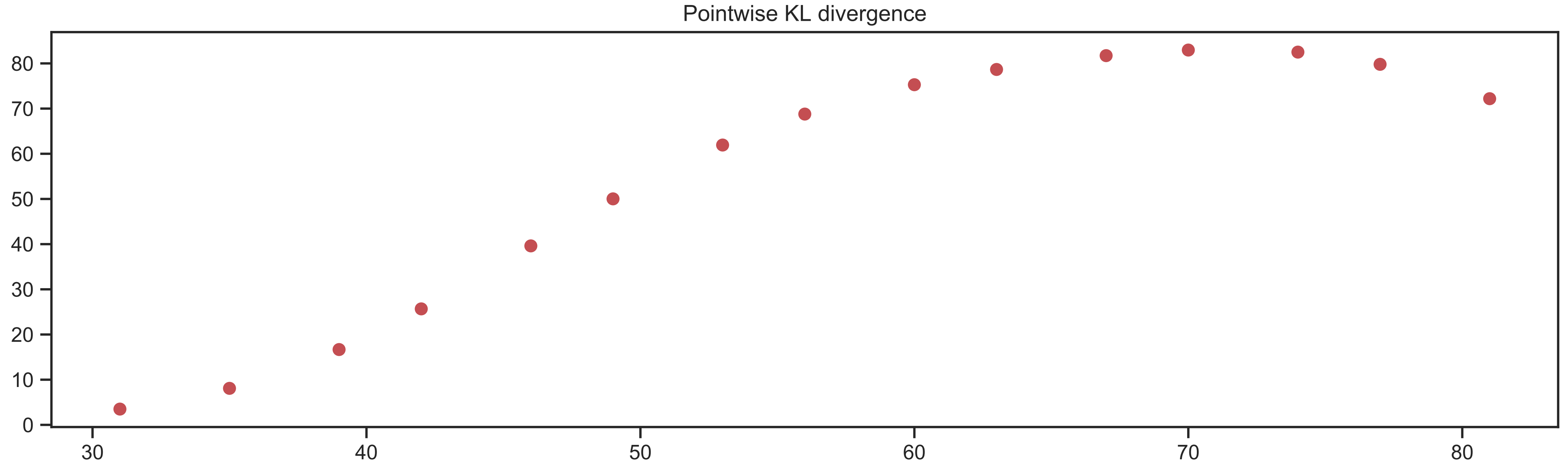
mRECIST: (3,2,1,0
kl: 9.513570021929109
response_angle_rel: 0:-0.004912274305997309_1:-0.0061044666229706675_2:-0.004787028571535393_3:-0.005517292203139818_4:-0.004611170404458074_5:-0.00564
response_angle_rel_control: 0:0.06709469942426396_1:0.05952560565449423_2:0.14395560021761783_3:0.07700809302234575_4:0.16205341919709756_5:0.185372281
auc_norm: 0:0.3129871654835833_1:0.120452057937157_2:0.3783332775722979_3:0.2582915418880076_4:0.36661228408318824_5:0.21091556205917356
auc_control_norm: 0:[0.59980936]_1:[0.50339568]_2:[0.72994302]_3:[0.54959597]_4:[0.81004628]_5:[0.83846574]
tgi: 0.48898379103944345
red = treatment,   blue=control

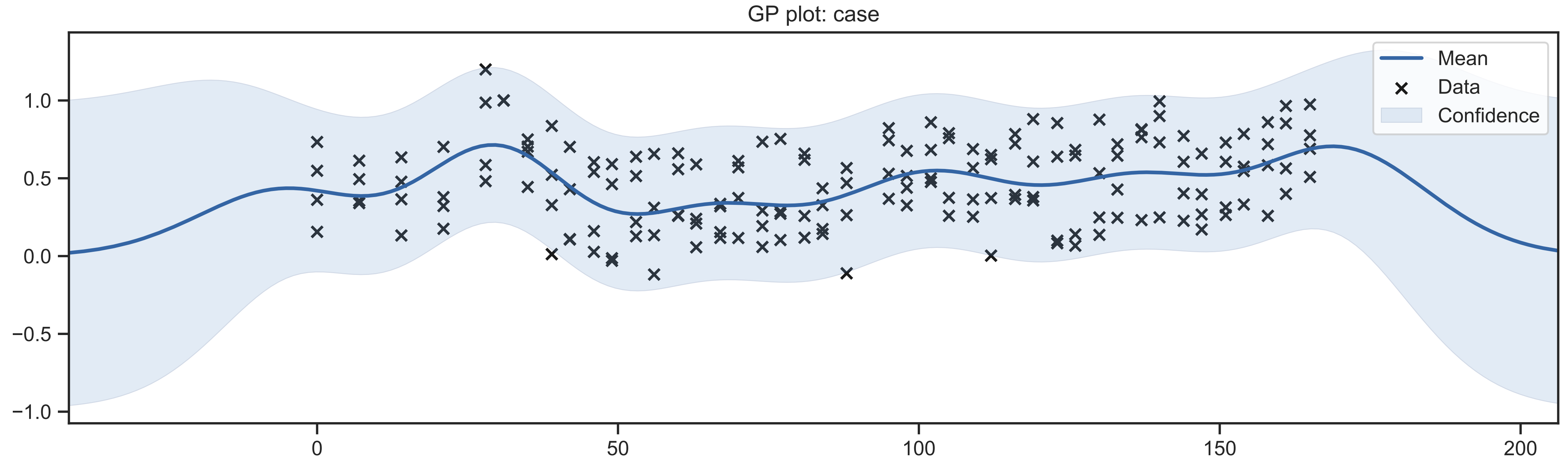
P35*C1

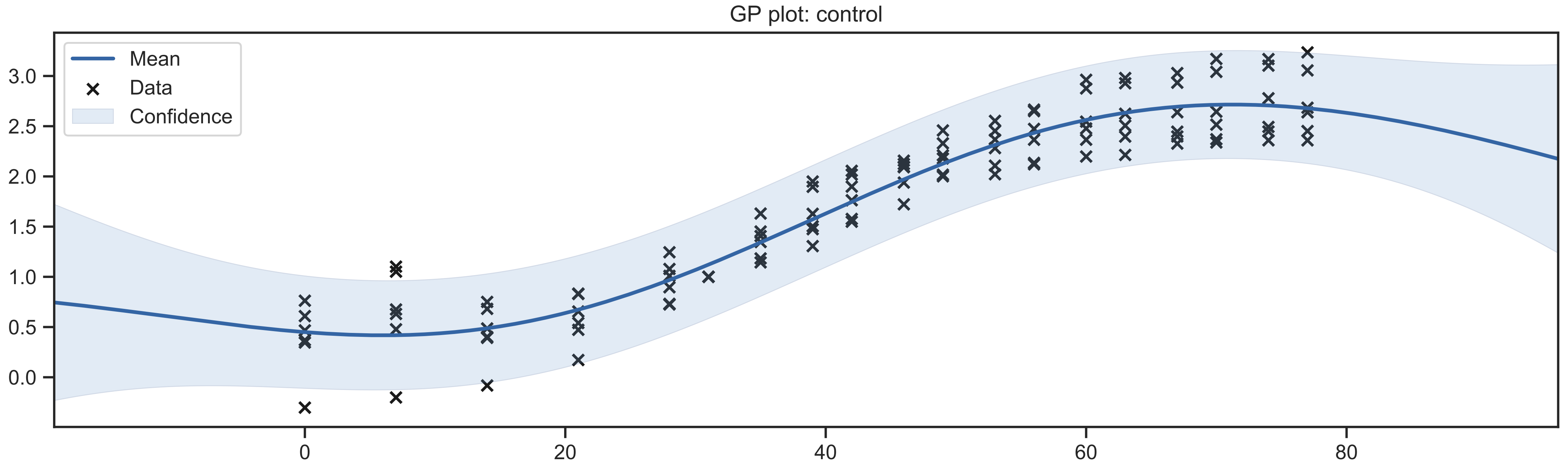


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

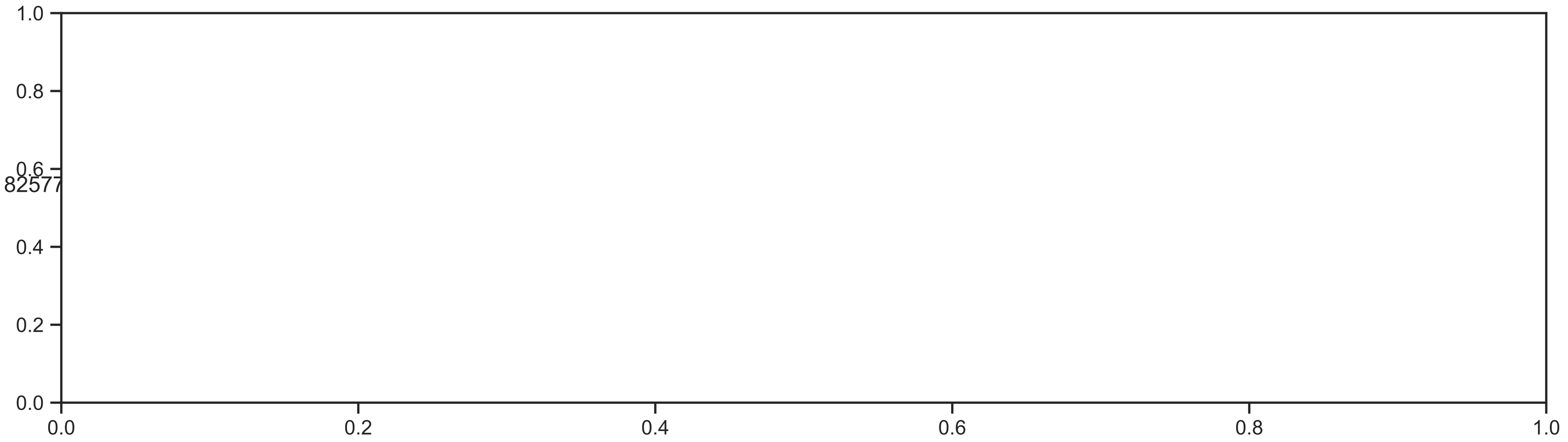




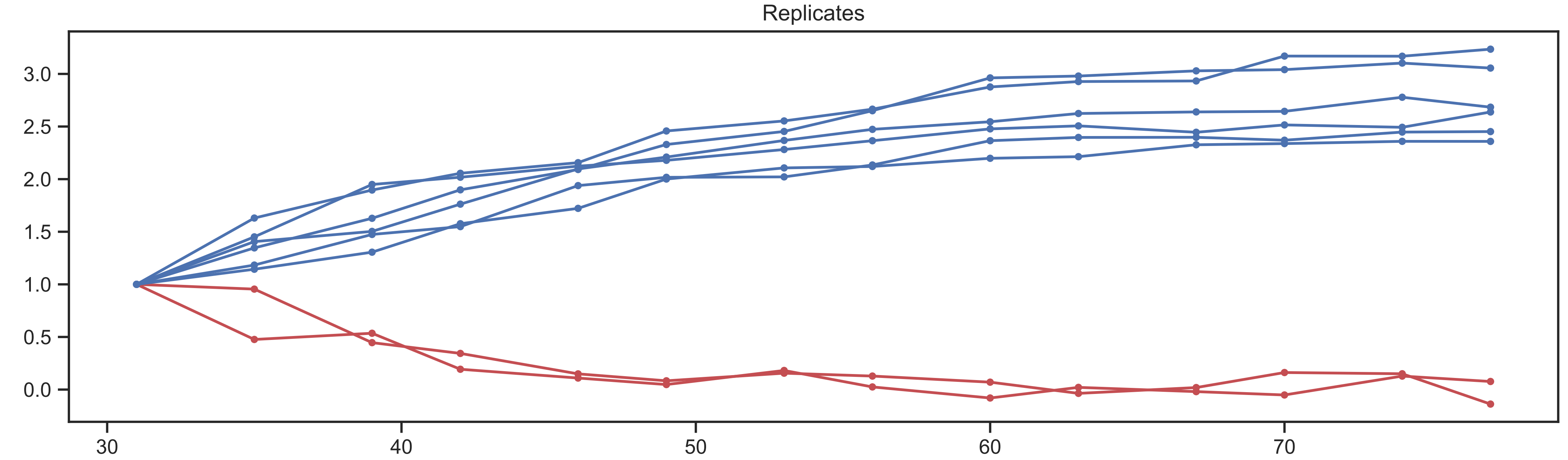




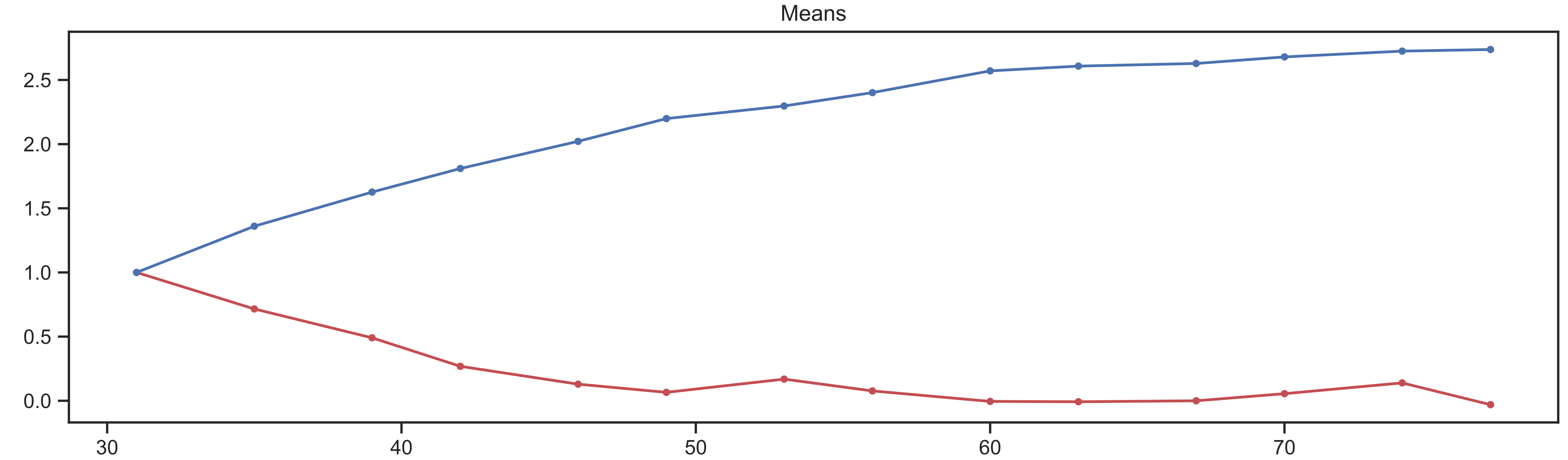
mRECIST: (4,0,0,0
kl: 54.791466422658225
response_angle_rel: 0:-0.004656310106433301_1:-0.003942098770203286_2:-0.0046266175963554975_3:-0.0035649415194687803
response_angle_rel_control: 0:0.03443527474927821_1:0.04849209982862084_2:0.038960542756389285_3:0.08790579981897549_4:0.07719564302652851_5:0.0518257
auc_norm: 0:-0.2015050843333342_1:-0.20900177674001716_2:-0.25824111416812057_3:-0.0573971118819876
auc_control_norm: 0:[0.38875363]_1:[0.44714159]_2:[0.38581988]_3:[0.63599339]_4:[0.57114856]_5:[0.45987228]
tgi: 1.3467827550555271
red = treatment,   blue=control

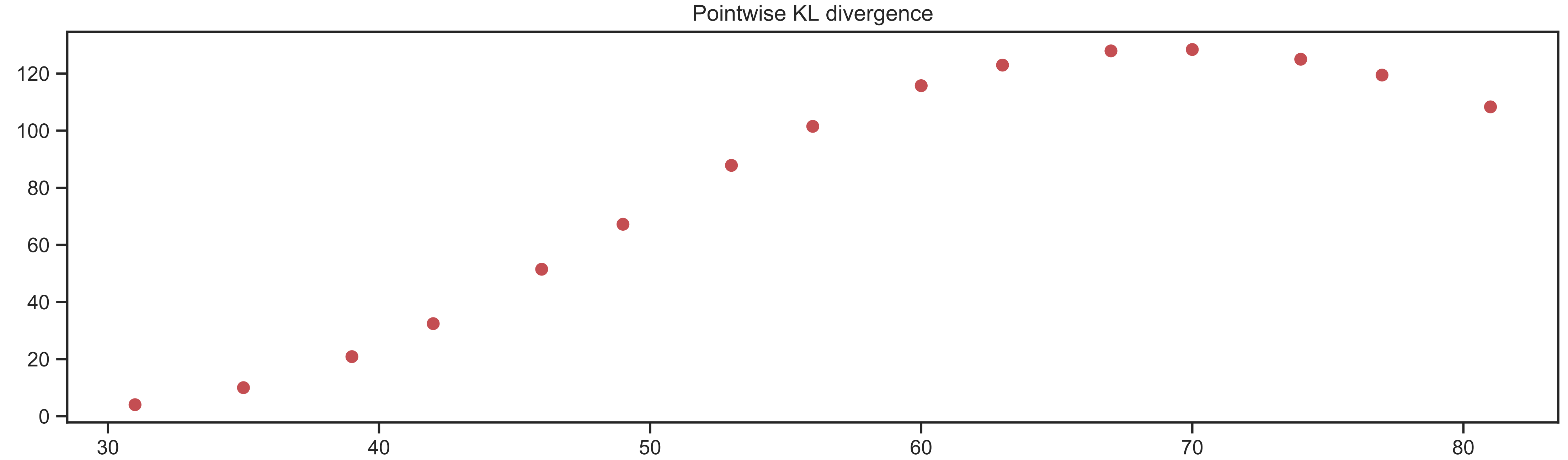


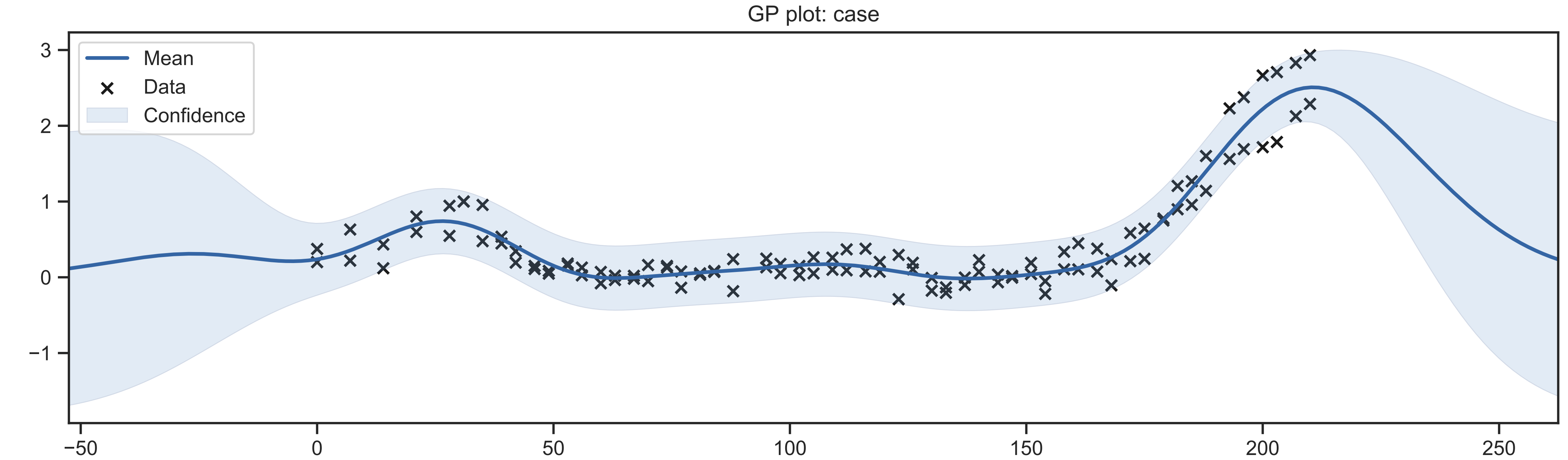
P35*C2

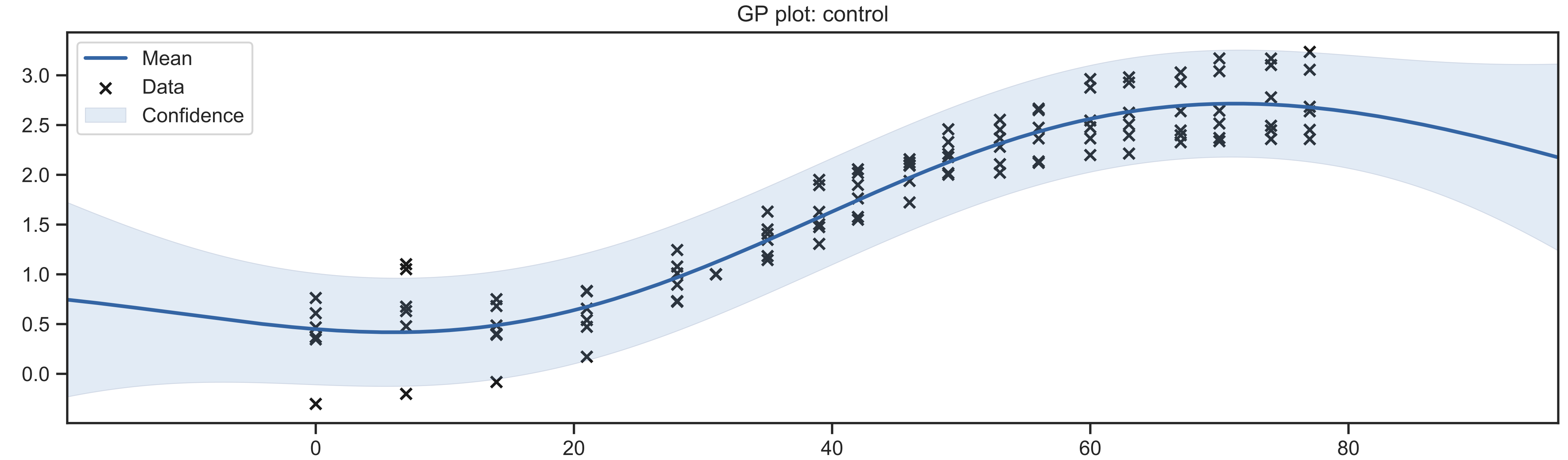


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

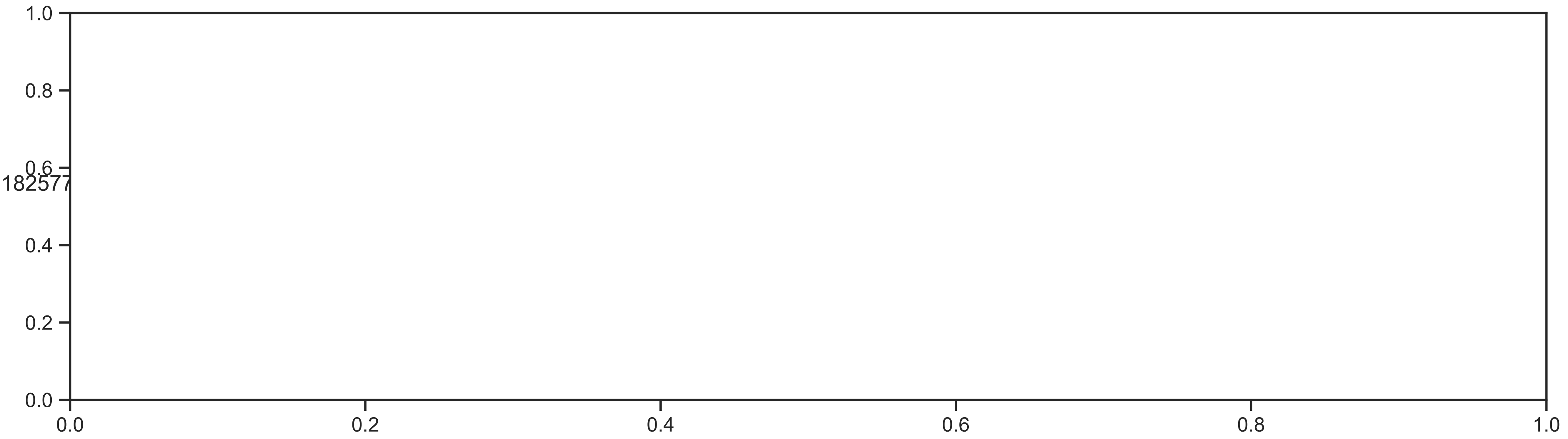




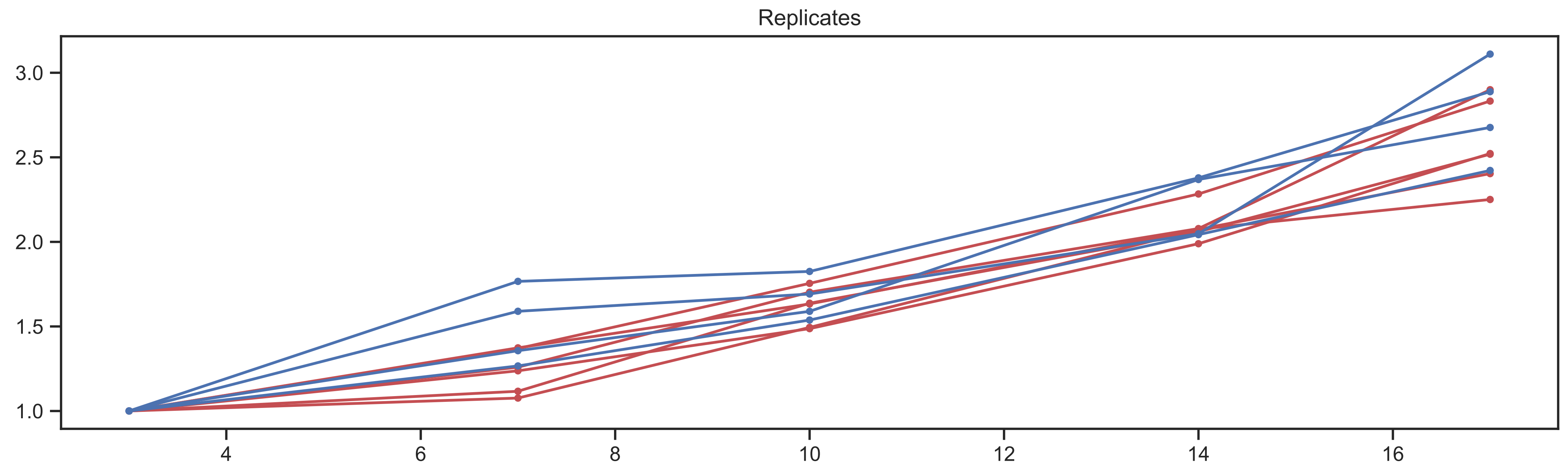




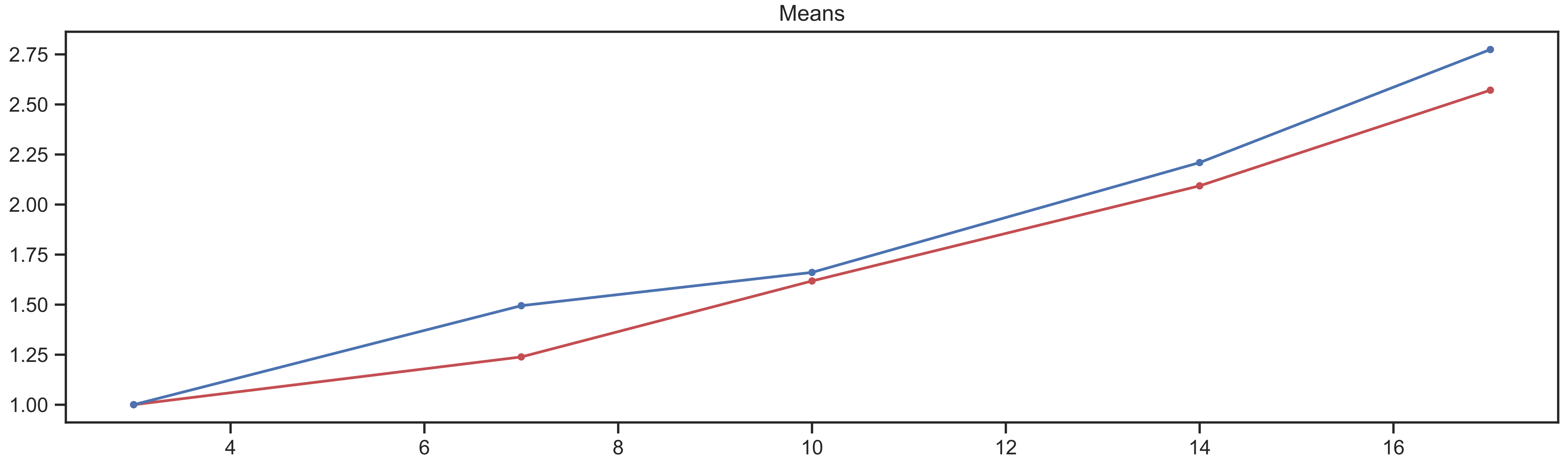
mRECIST: (0,2,0,0
kl: 81.4385813256947
response_angle_rel: 0:0.004701103187590455_1:-7.65835592023349e-05
response_angle_rel_control: 0:0.03443527474927821_1:0.04849209982862084_2:0.038960542756389285_3:0.08790579981897549_4:0.07719564302652851_5:0.05182577
auc_norm: 0:-0.32177228121740414_1:-0.27603460126064566
auc_control_norm: 0:[0.38875363]_1:[0.44714159]_2:[0.38581988]_3:[0.63599339]_4:[0.57114856]_5:[0.45987228]
tgi: 1.5660333437967568
red = treatment,   blue=control

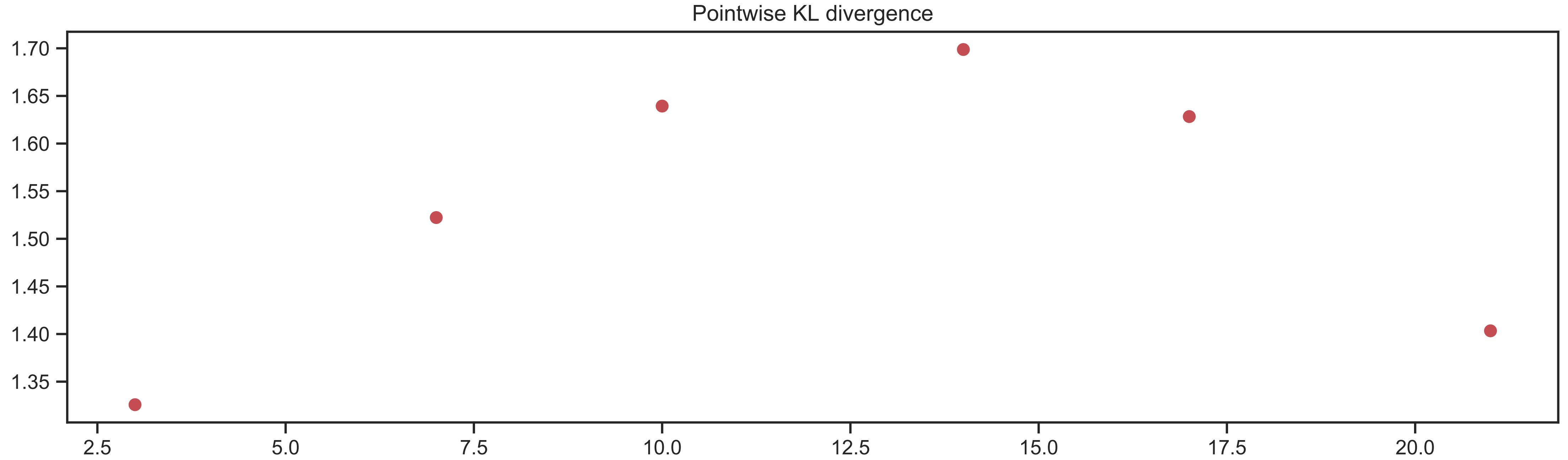


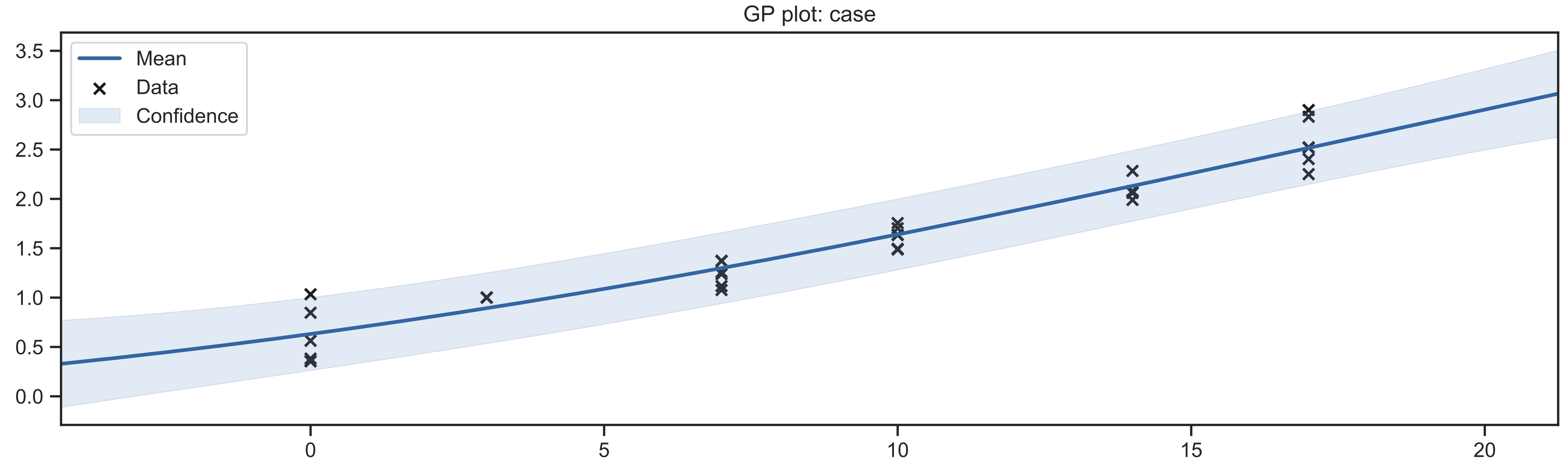
P36*C1

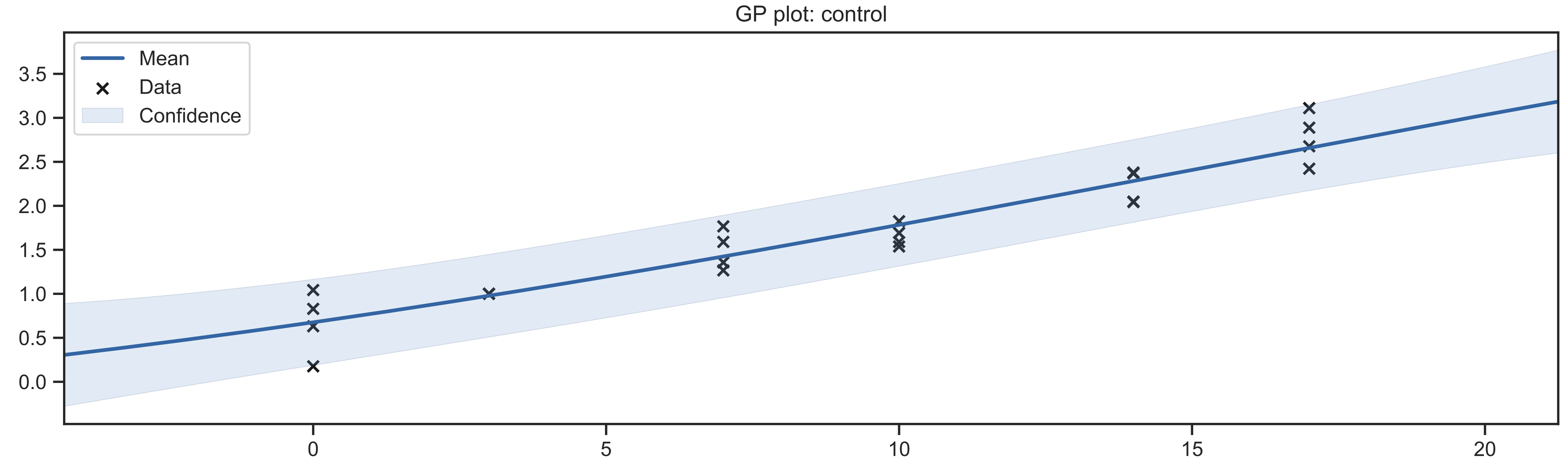


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

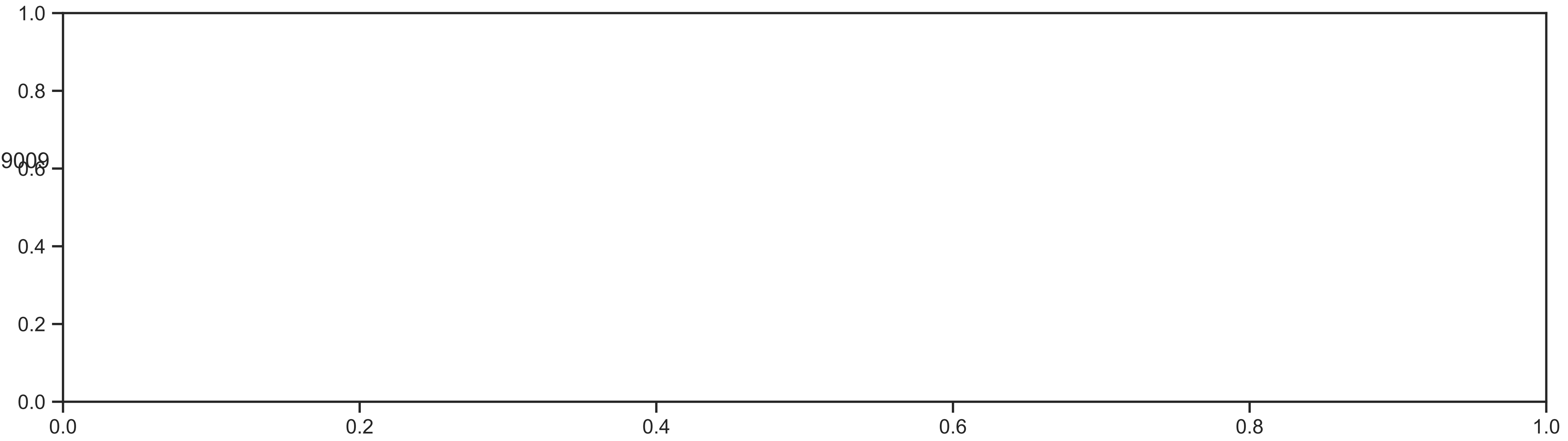




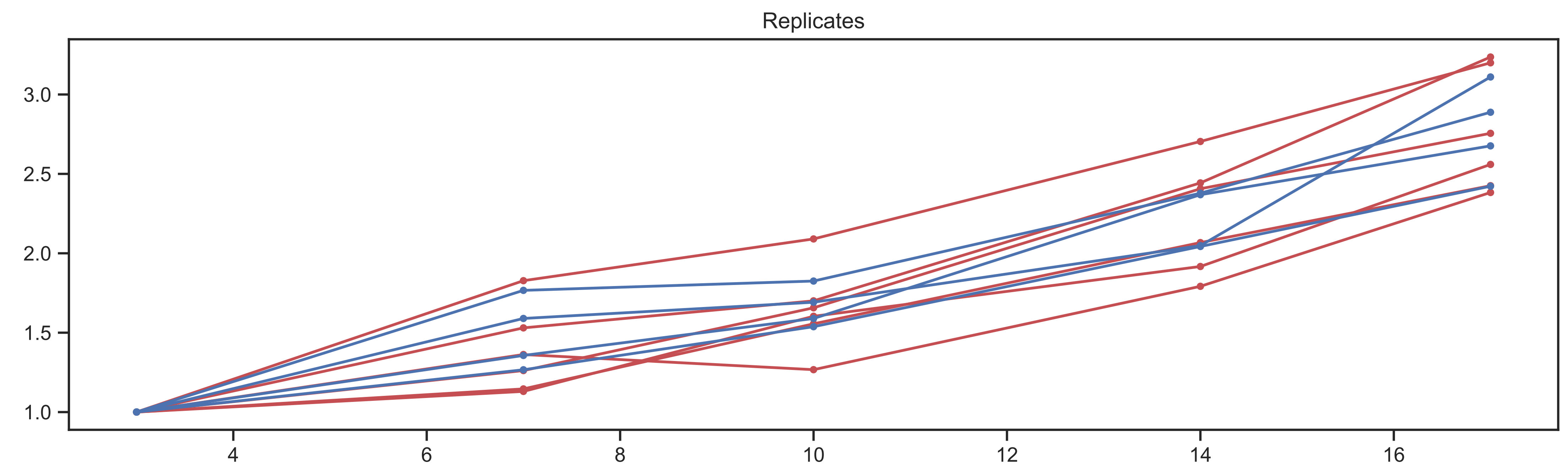




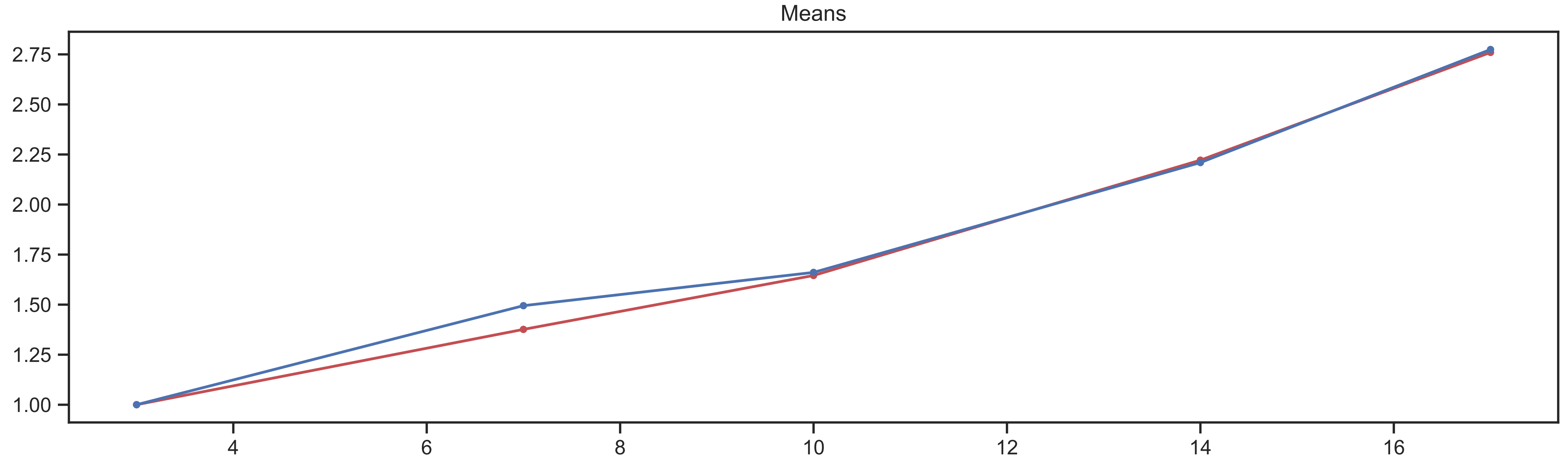
mRECIST: (0,0,4,2
kl: 0.5713865334077987
response_angle_rel: 0:0.1987202913710663_1:0.28203537054802946_2:0.18883303673707813_3:0.2799058167339079_4:0.23822510625537135_5:0.1844043033159009
response_angle_rel_control: 0:0.3557613298437268_1:0.17526292904154323_2:0.3688828804513096_3:0.288633412792901
auc_norm: 0:0.4611472281781348_1:0.535947233737347_2:0.41303278916060054_3:0.5802459768672779_4:0.44573667355439167_5:0.3488487921542554
auc_control_norm: 0:[0.51930684]_1:[0.40976208]_2:[0.62444483]_3:[0.46407765]
tgi: 0.10324300607069314
red = treatment, blue=control

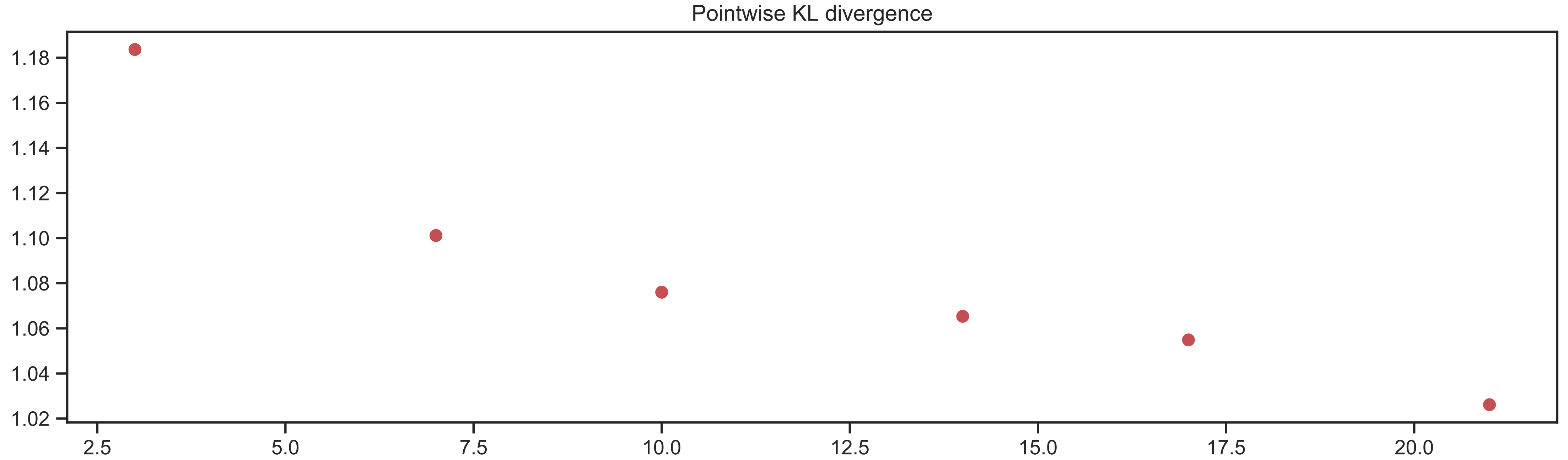


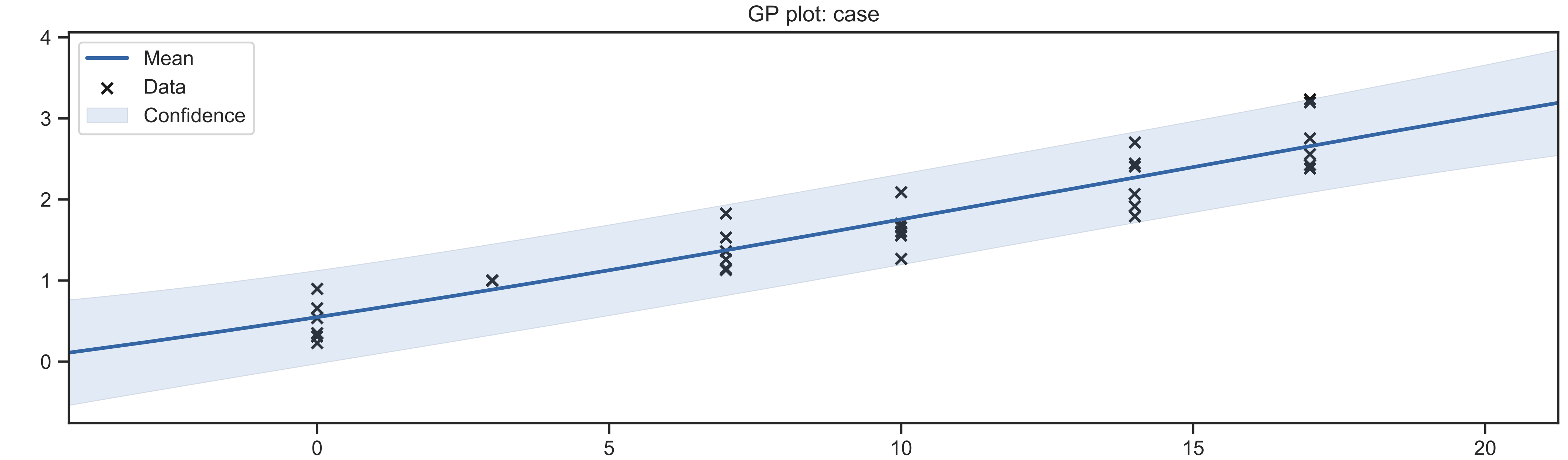
P36*C2

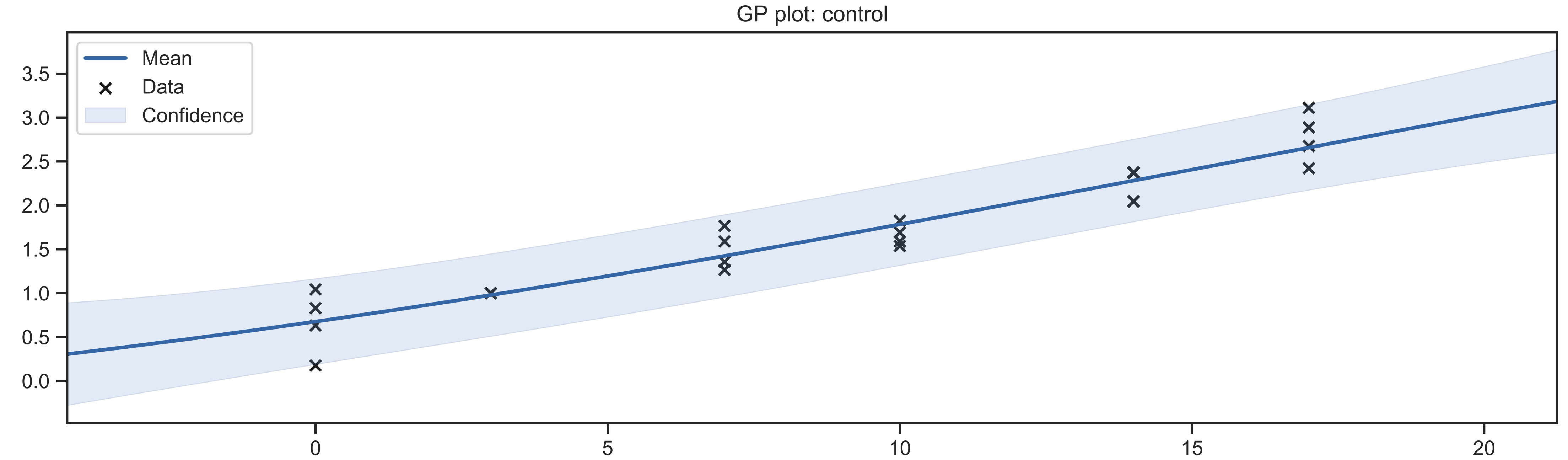


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

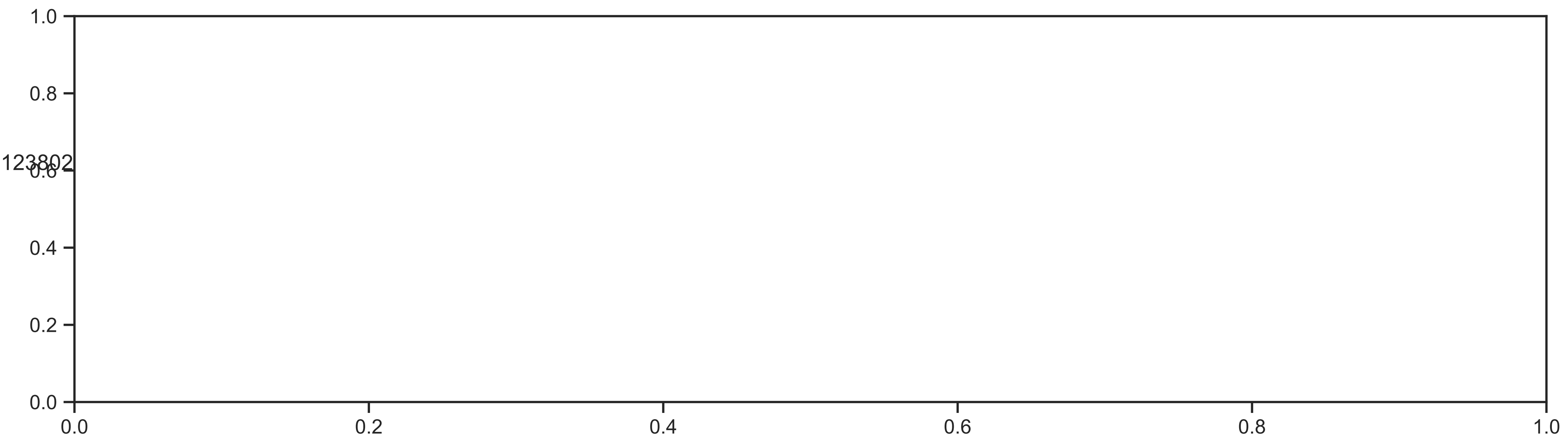




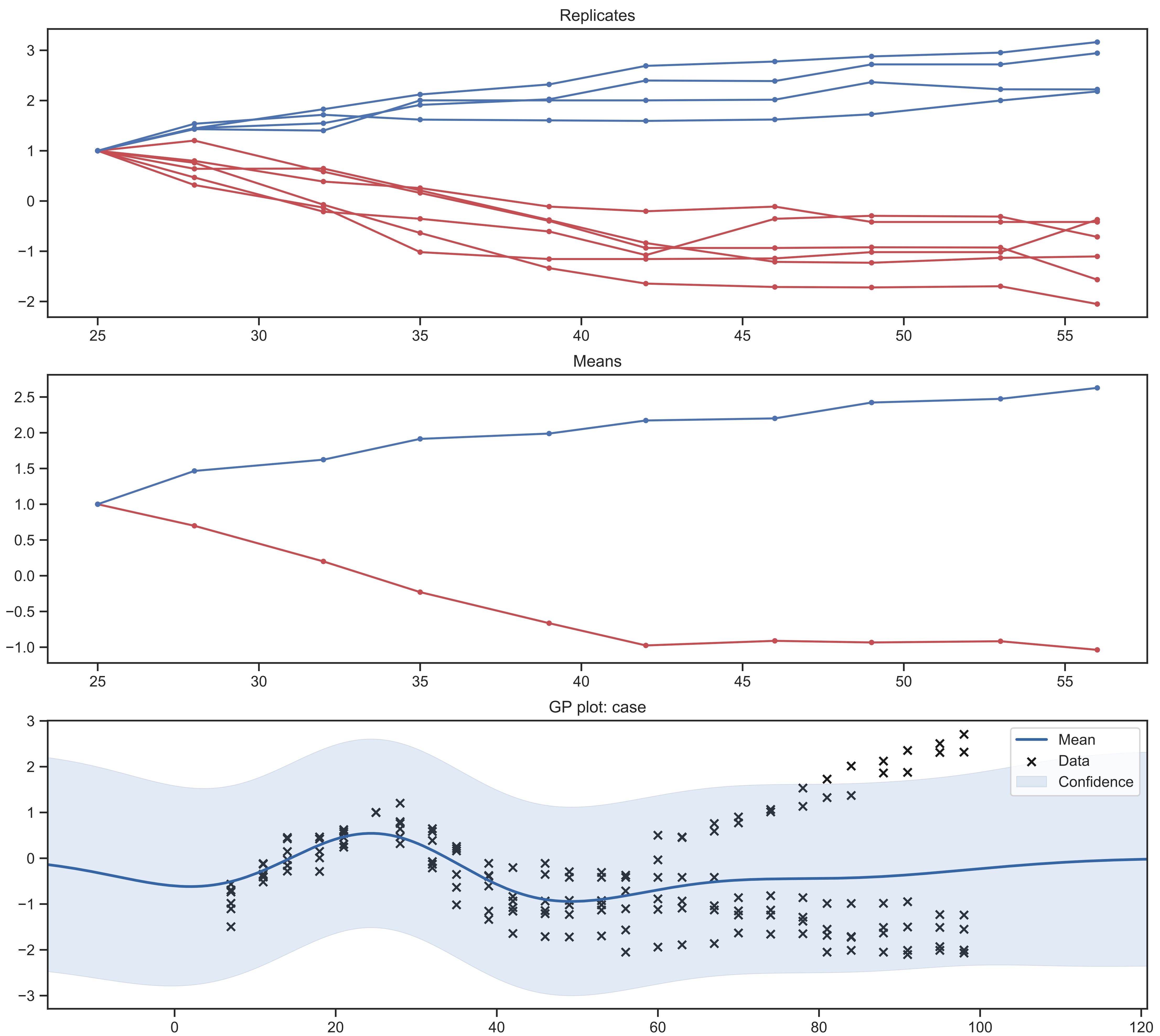




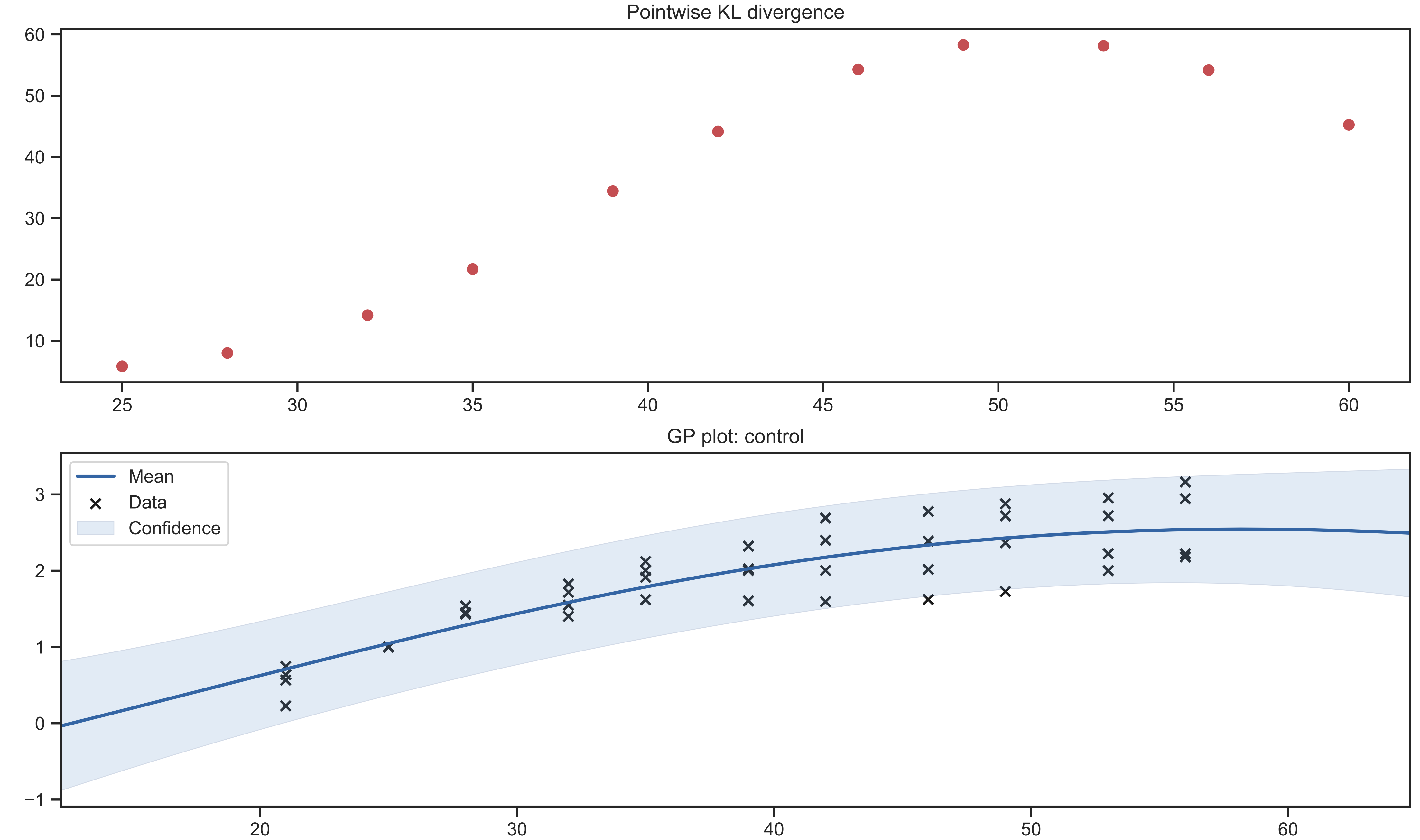
mRECIST: (0,0,3,3
kl: 0.07968282662318328
response_angle_rel: 0:0.17678454833190685_1:0.18132597401064698_2:0.20496081215481862_3:0.2846377292533345_4:0.39785814988579477_5:0.4234942975123802
response_angle_rel_control: 0:0.3557613298437268_1:0.17526292904154323_2:0.3688828804513096_3:0.288633412792901
auc_norm: 0:0.38696168690436117_1:0.4828039431818968_2:0.4203512442447066_3:0.5008473402713127_4:0.6391517682232519_5:0.6129309368514463
auc_control_norm: 0:[0.51930684]_1:[0.40976208]_2:[0.62444483]_3:[0.46407765]
tgi: 0.050831408089204055
red = treatment, blue=control



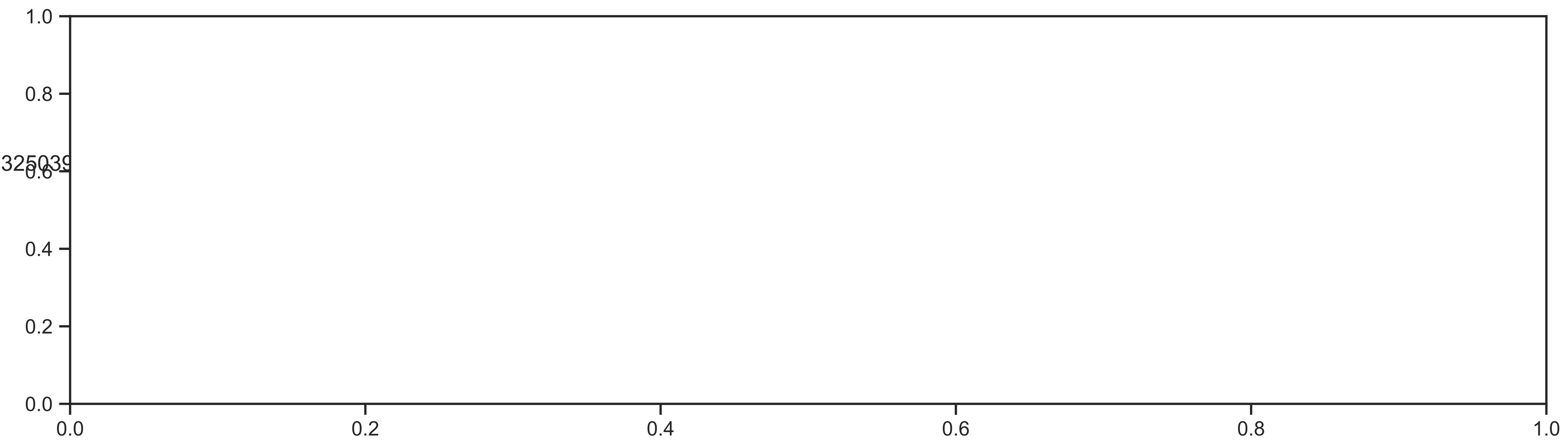
P37*C1



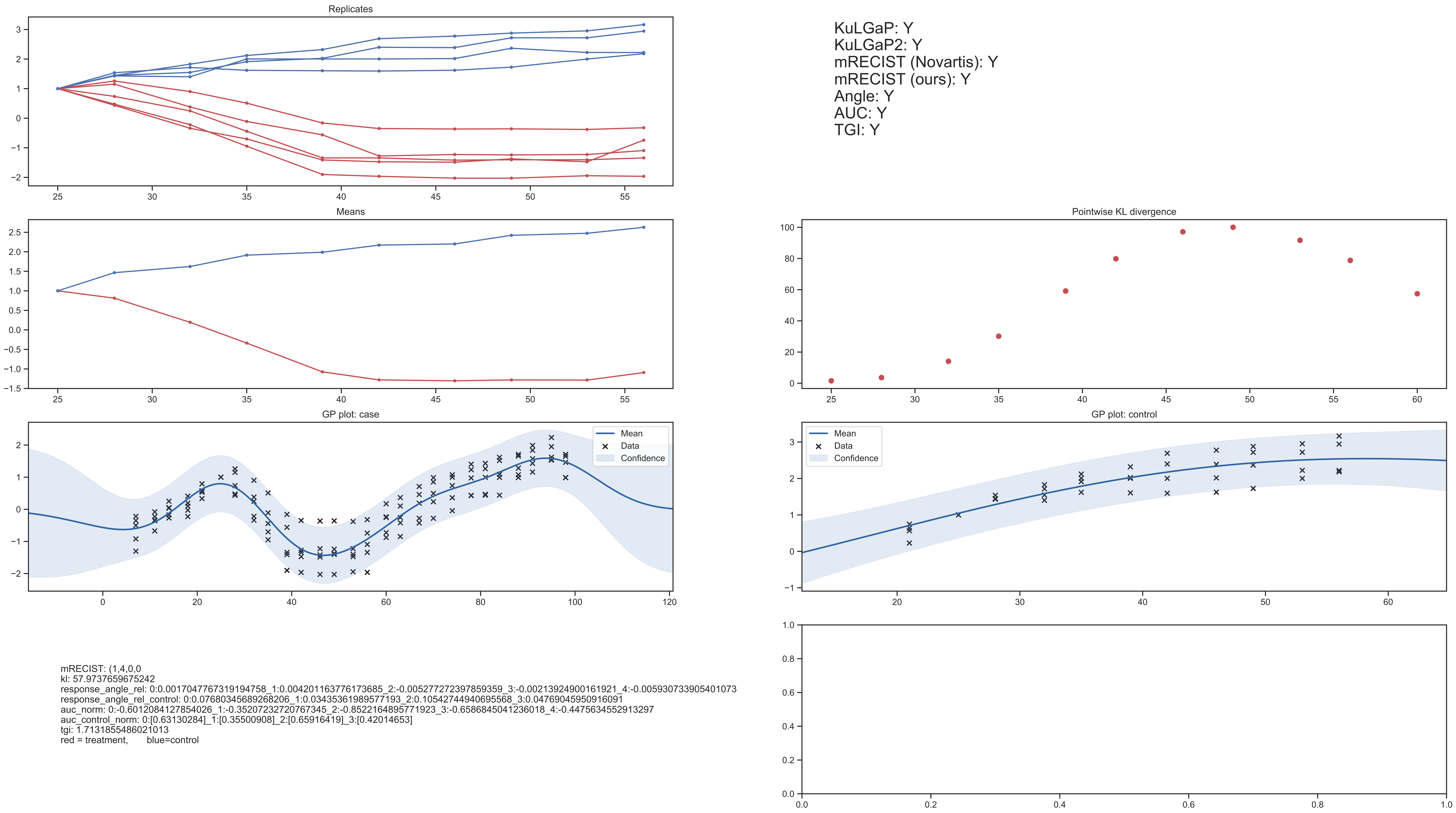
KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y



```
mRECIST: (2,4,0,0
kl: 36.66033075602163
response_angle_rel: 0:0.01741234413880494_1:-0.012569442608251113_2:-0.01180953159536185_3:-0.011781175144917172_4:-0.010851658749583767_5:0.0074632503
response_angle_rel_control: 0:0.07680345689268206_1:0.03435361989577193_2:0.10542744940695568_3:0.04769045950916091
auc_norm: 0:-0.5526687393822303_1:-0.8854663318746322_2:-0.6292642104630899_3:-0.7569170166761189_4:-0.41520520901036395_5:-0.4091774306253767
auc_control_norm: 0:[0.63130284]_1:[0.35500908]_2:[0.65916419]_3:[0.42014653]
tgi: 1.850292050766973
red = treatment,      blue=control
```



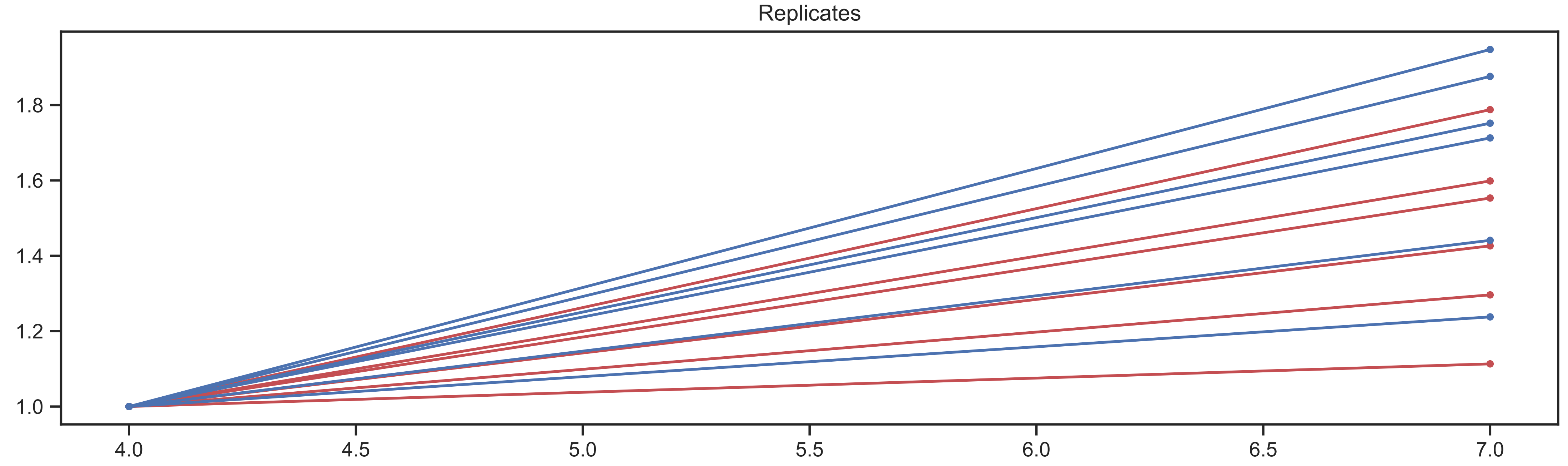
P37*C2



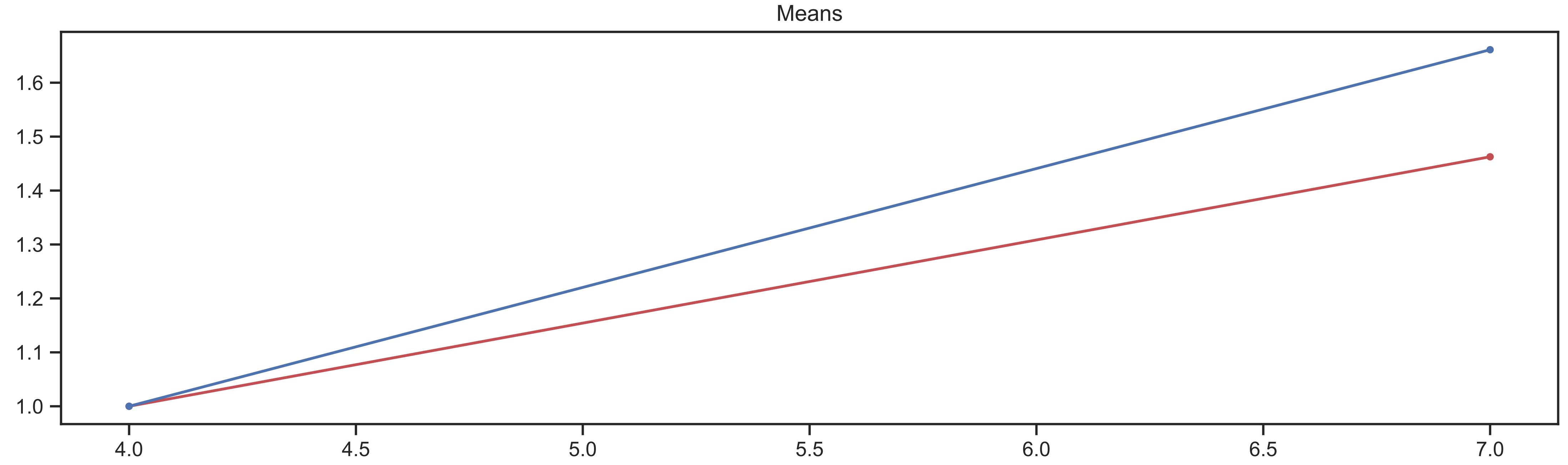
KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

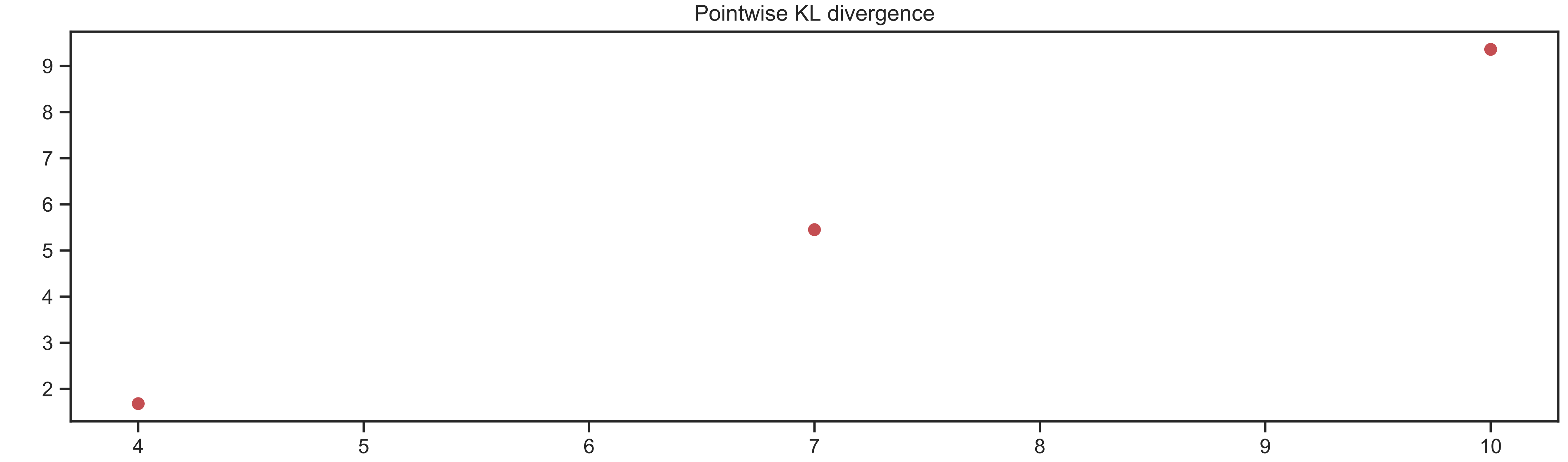
mRECIST: (1,4,0,0
kl: 57.9737659675242
response_angle_rel: 0:0.0017047767319194758_1:0.004201163776173685_2:-0.005277272397859359_3:-0.00213924900161921_4:-0.005930733905401073
response_angle_rel_control: 0:0.07680345689268206_1:0.03435361989577193_2:0.10542744940695568_3:0.04769045950916091
auc_norm: 0:-0.6012084127854026_1:-0.35207232720767345_2:-0.8522164895771923_3:-0.6586845041236018_4:-0.4475634552913297
auc_control_norm: 0:[0.63130284]_1:[0.35500908]_2:[0.65916419]_3:[0.42014653]
tgi: 1.7131855486021013
red = treatment,   blue=control

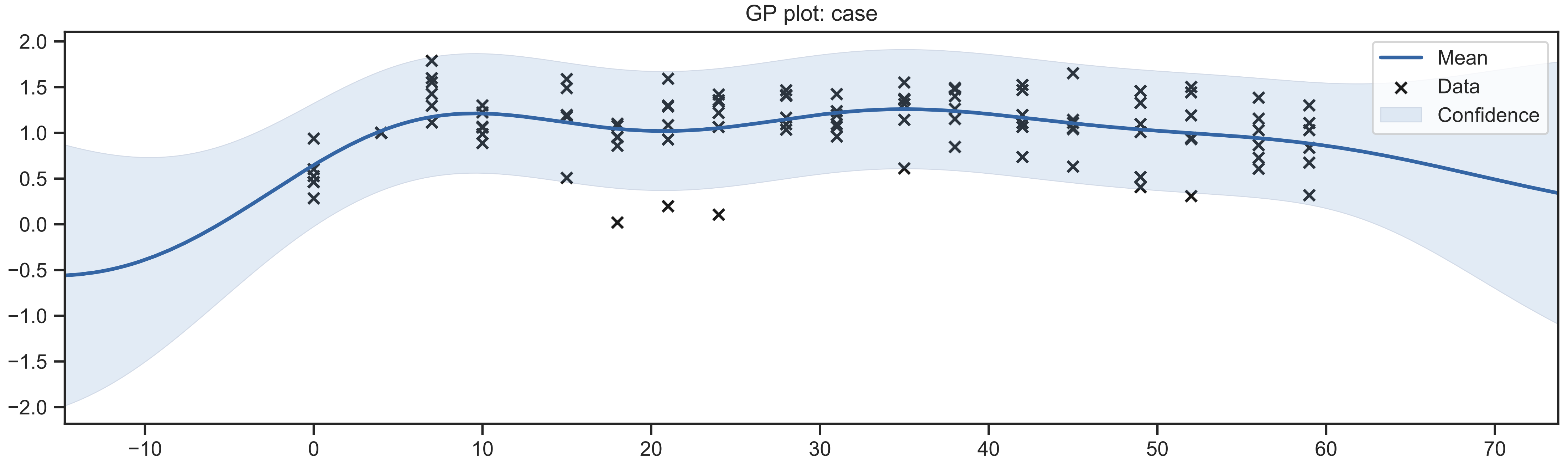
P38*C1

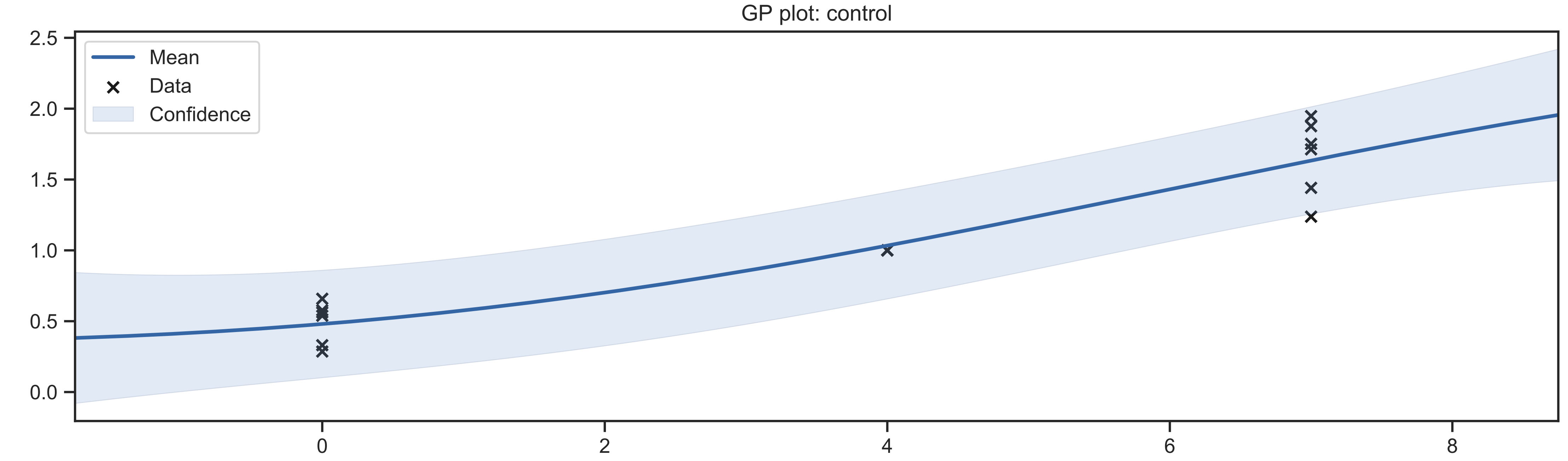


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: N
TGI: Y

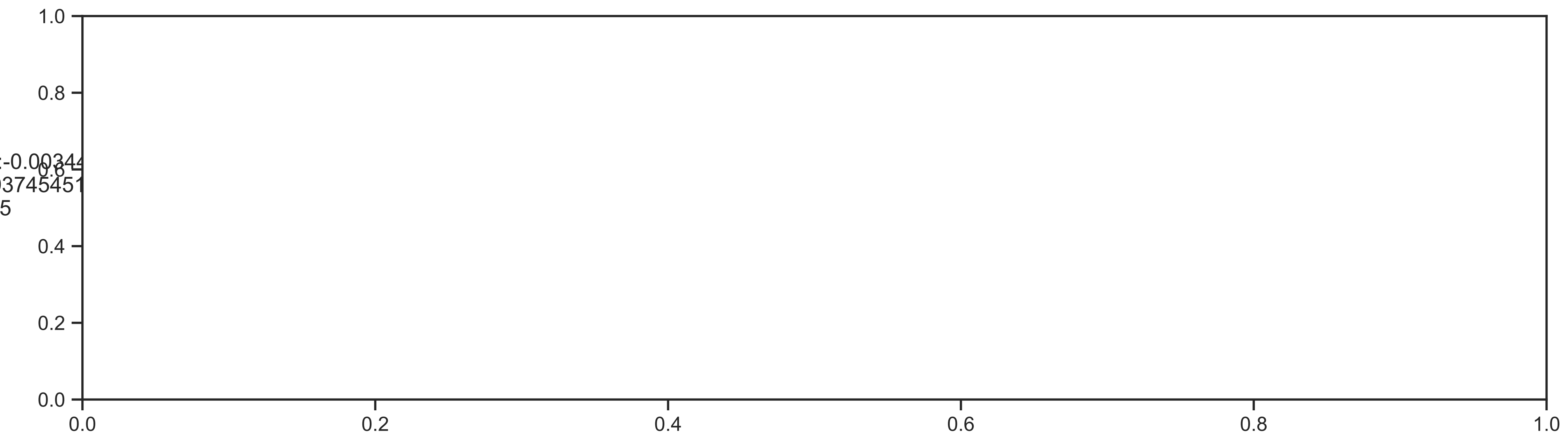




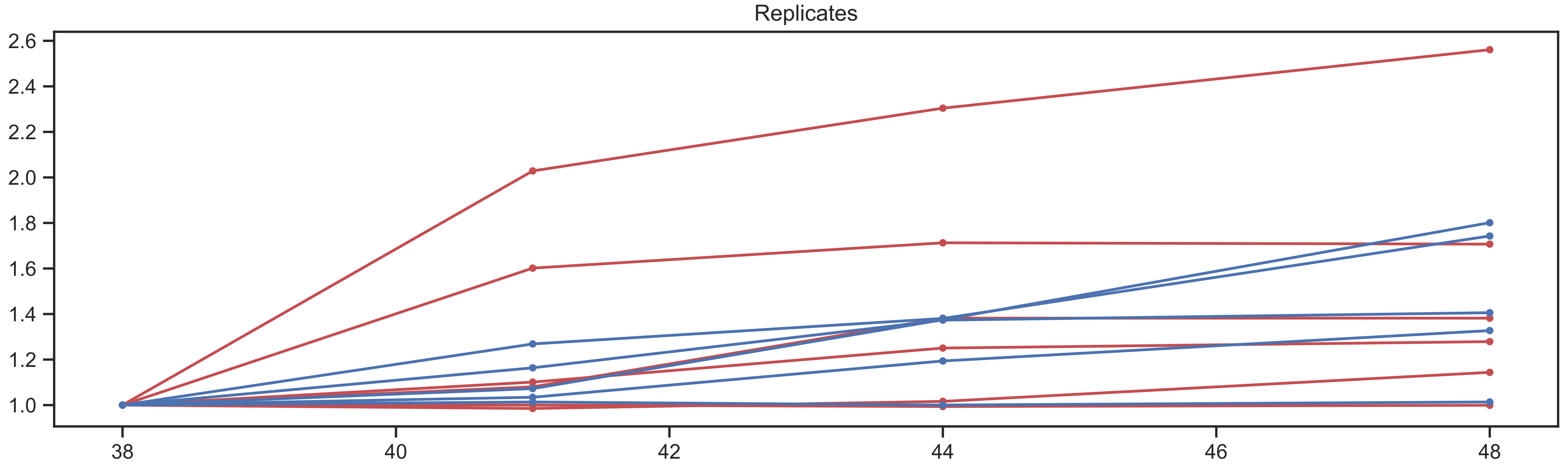




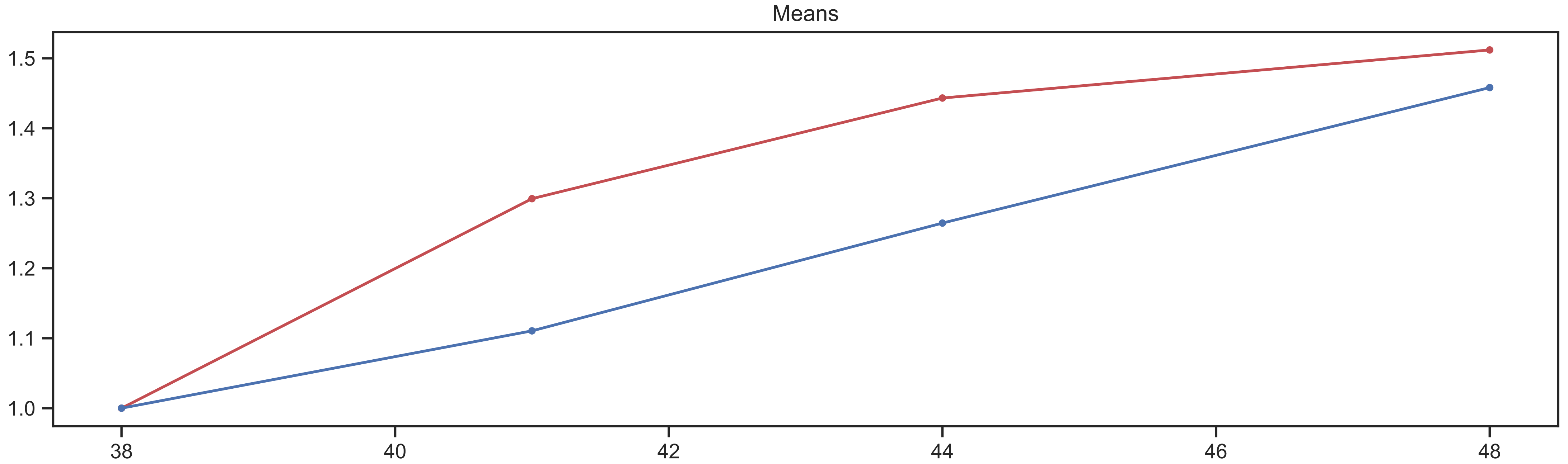
mRECIST: (1,3,2,0
kl: 4.497373186527364
response_angle_rel: 0:-0.004453183669564976_1:-0.0004624240900180773_2:-0.007168110569810886_3:-0.004309026395618301_4:-0.0028986808179935772_5:-0.0034
response_angle_rel_control: 0:0.13693572679761432_1:0.17946818500919445_2:0.2044224031689722_3:0.09691990895114098_4:0.1678477772591051_5:0.12193745451
auc_norm: 0:0.26257708022574083_1:0.1995276789588274_2:0.09876087044401993_3:0.14210575169755005_4:0.18441318393914594_5:0.037724536462189505
auc_control_norm: 0:[0.23756845]_1:[0.29198581]_2:[0.31580948]_3:[0.07927034]_4:[0.25061476]_5:[0.14698723]
tgi: 0.9154522129468675
red = treatment,   blue=control

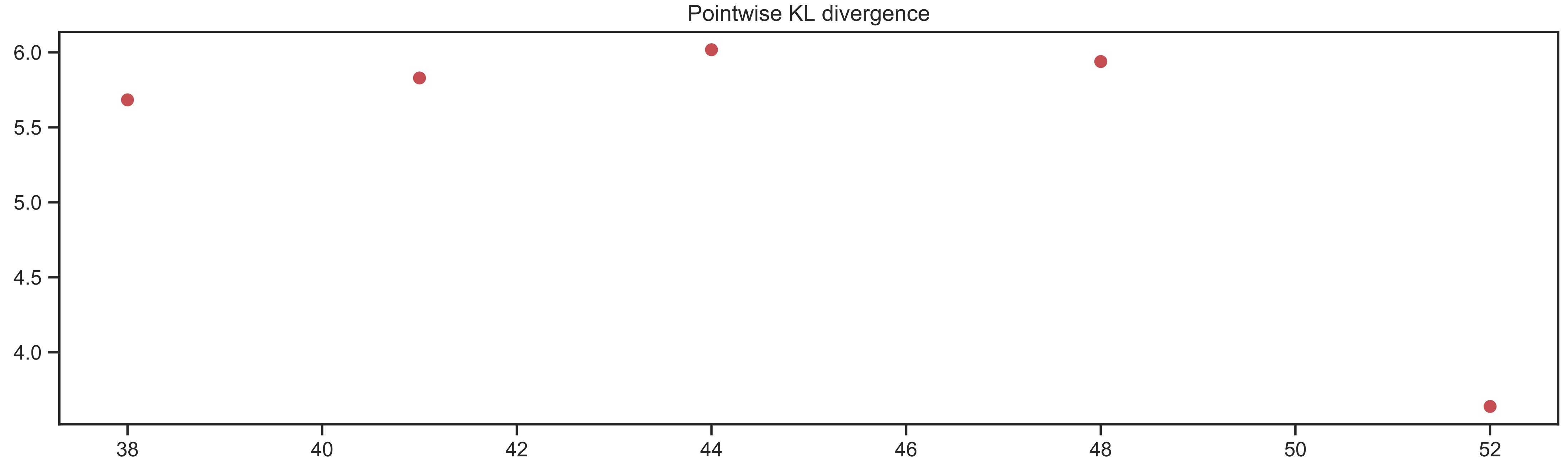


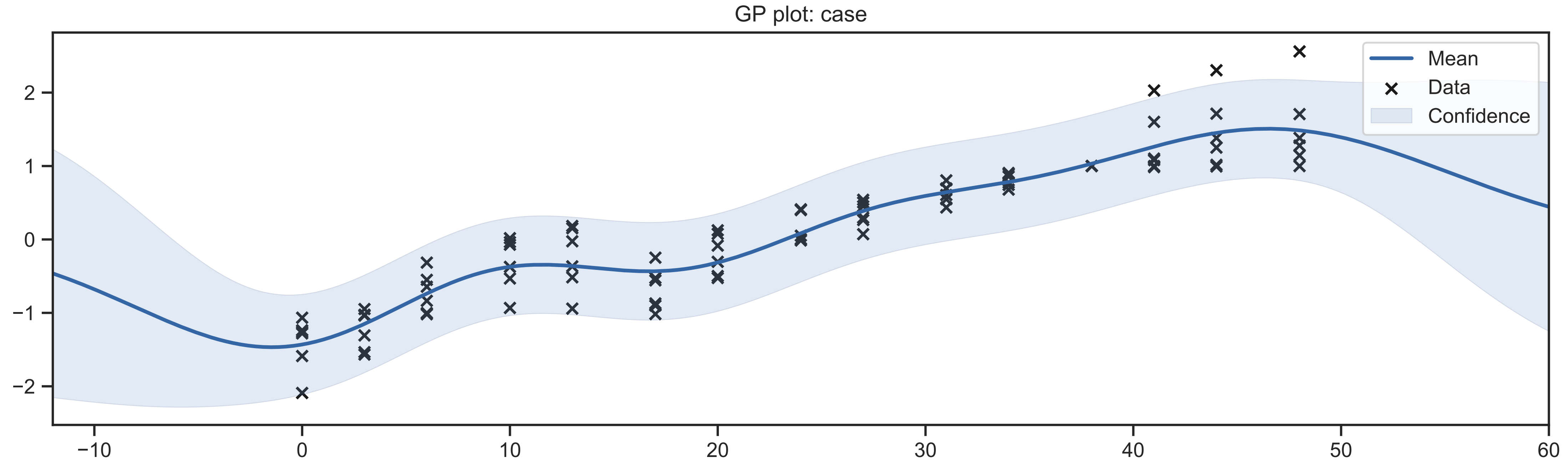
P39*C1

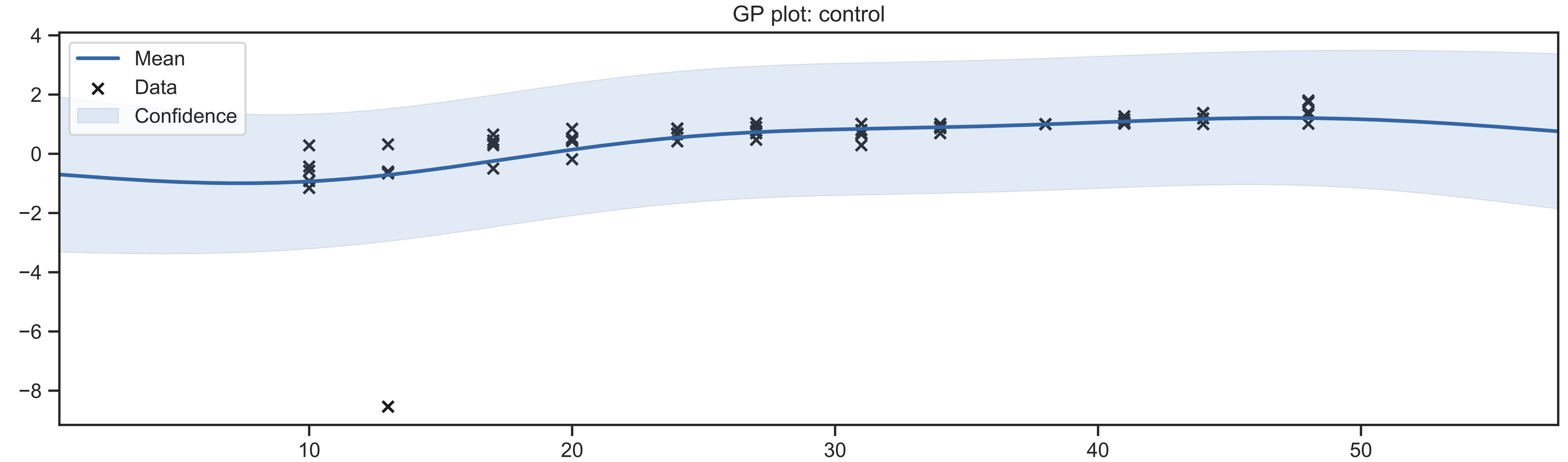


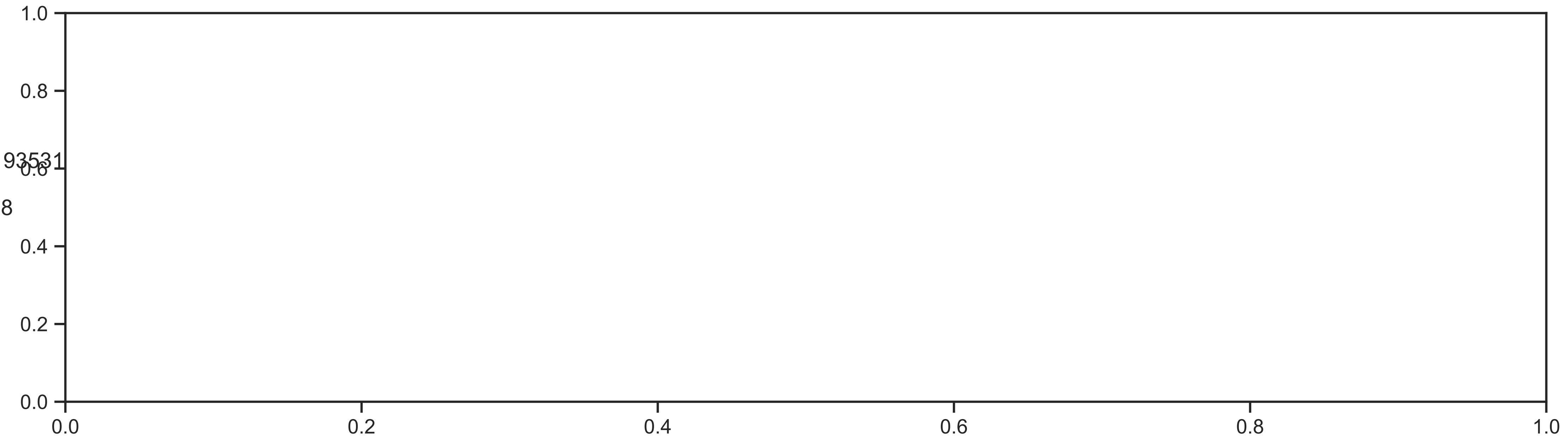
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N





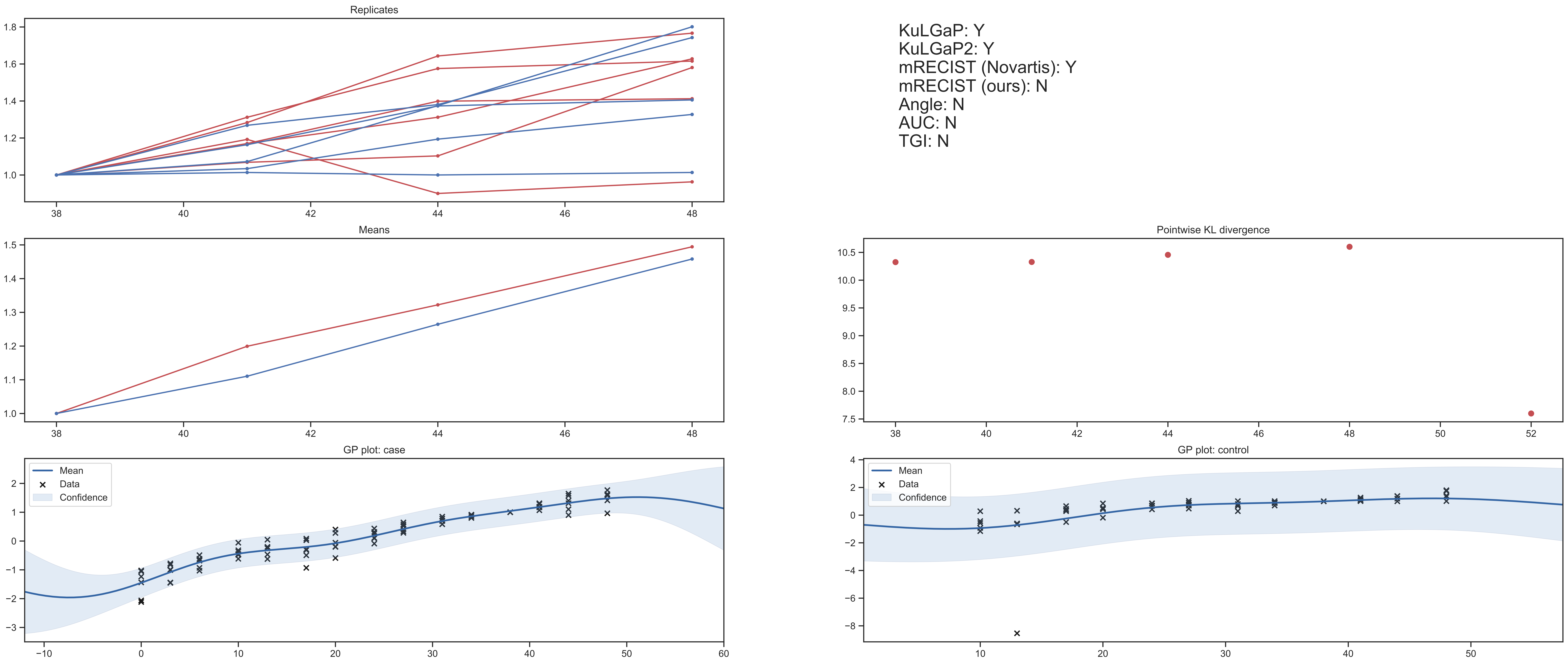




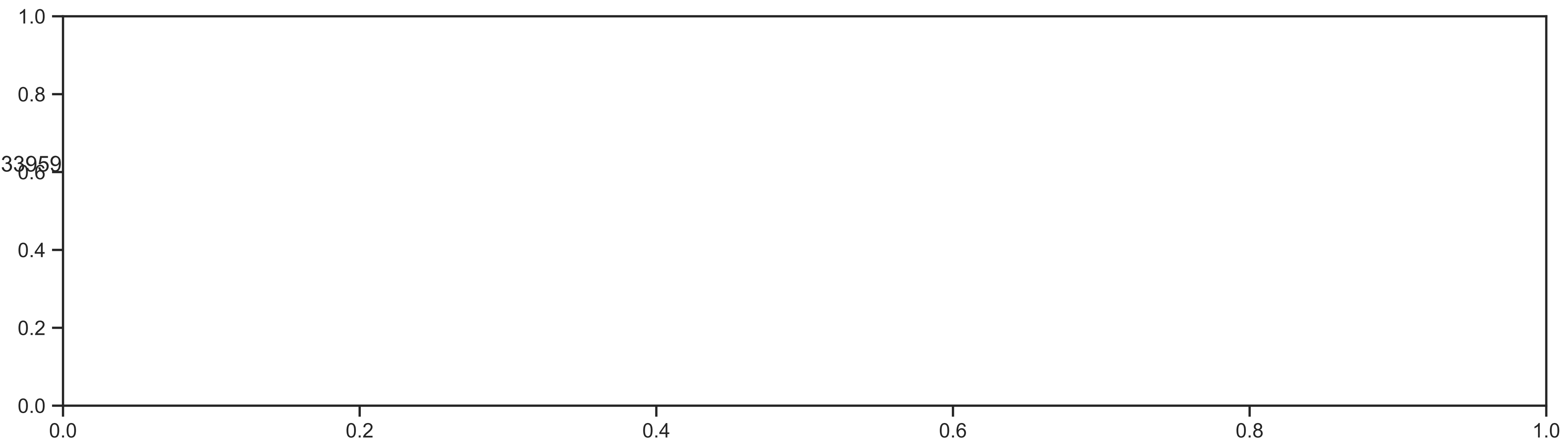


mRECIST: (0,0,4,2
kl: 4.64687583627559
response_angle_rel: 0:0.02381673386027197_1:0.003292641196324904_2:0.05840487977298211 6_3:0.011309116372088323_4:0.009776741880970283_5:0.00277193531
response_angle_rel_control: 0:0.017779734441234332_1:0.014152503680897988_2:0.009312519746665446_3:0.004571878685570681_4:0.022531759951649195
auc_norm: 0:0.2361420894690406_1:0.037304662373620824_2:0.49889075969916025_3:0.1272668998545261_4:0.09057099374722563_5:-0.0007477539271366538
auc_control_norm: 0:[0.21739724]_1:[0.13254035]_2:[0.0979614]_3:[0.00337764]_4:[0.23149713]
tgi: 0.08451754227845787
red = treatment, blue=control

P39*C2

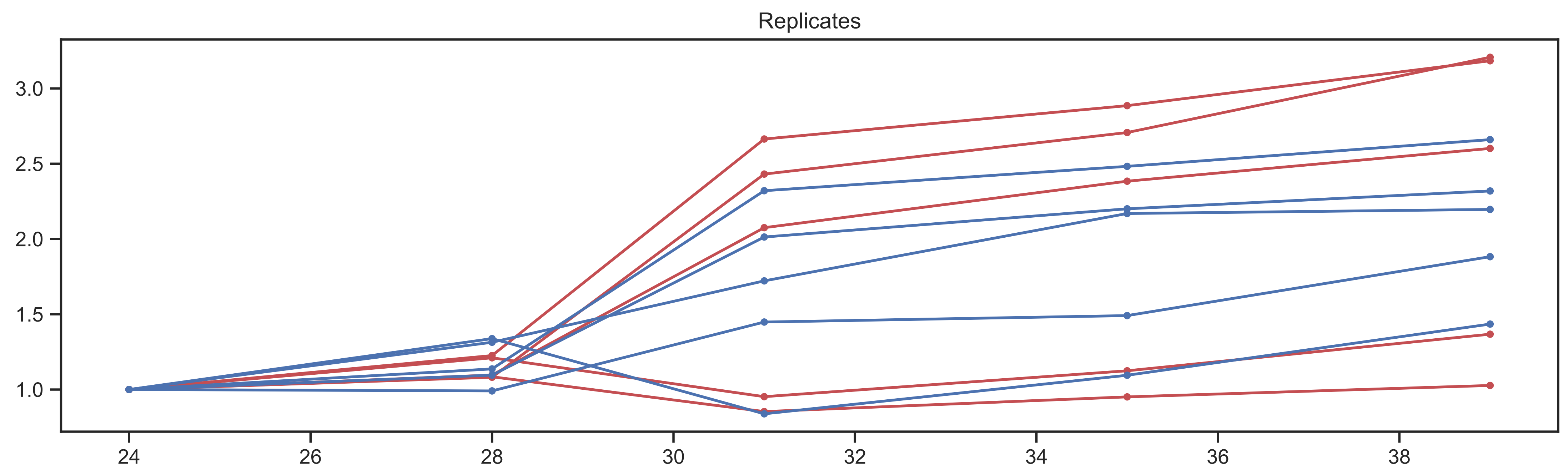


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

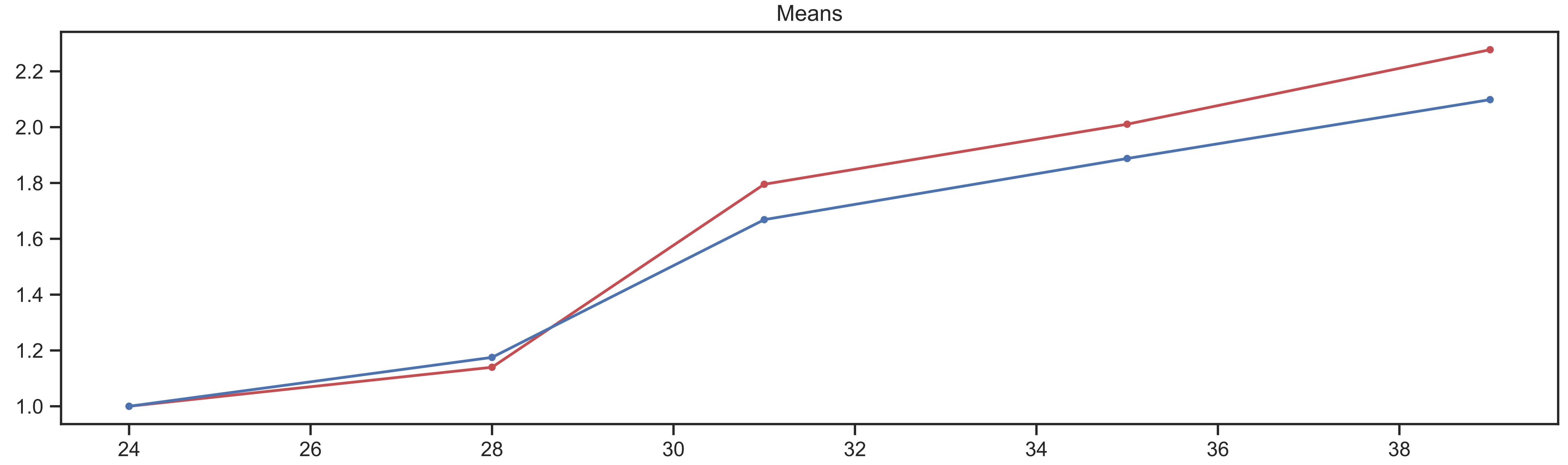


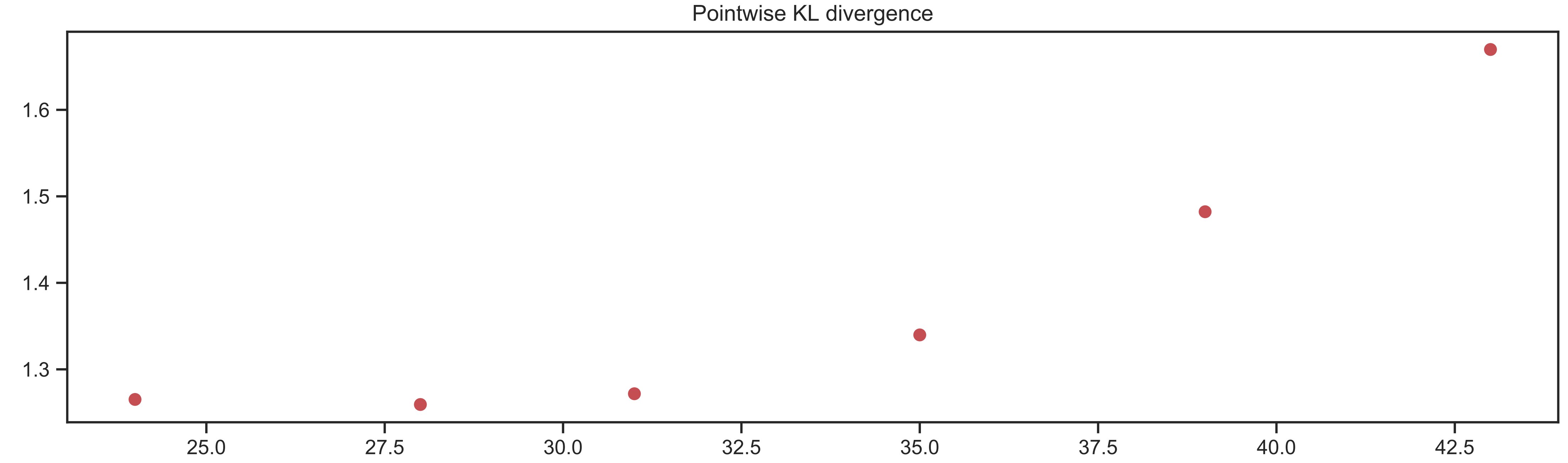
mRECIST: (0,0,4,2
kl: 9.161916411272859
response_angle_rel: 0:0.010574711772692313_1:0.01658776412116845_2:0.009557426117317544_3:0.01767379539026614_4:0.00409195395133138_5:0.0129597533959
response_angle_rel_control: 0:0.017779734441234332_1:0.014152503680897988_2:0.009312519746665446_3:0.004571878685570681_4:0.022531759951649195
auc_norm: 0:0.1363002902849708_1:0.20184766963409667_2:0.15380637267141226_3:0.24524118994743968_4:-0.017575923524162165_5:0.18298376809376085
auc_control_norm: 0:[0.21739724]_1:[0.13254035]_2:[0.0979614]_3:[0.00337764]_4:[0.23149713]
tgi: 0.21812263600174042
red = treatment,   blue=control

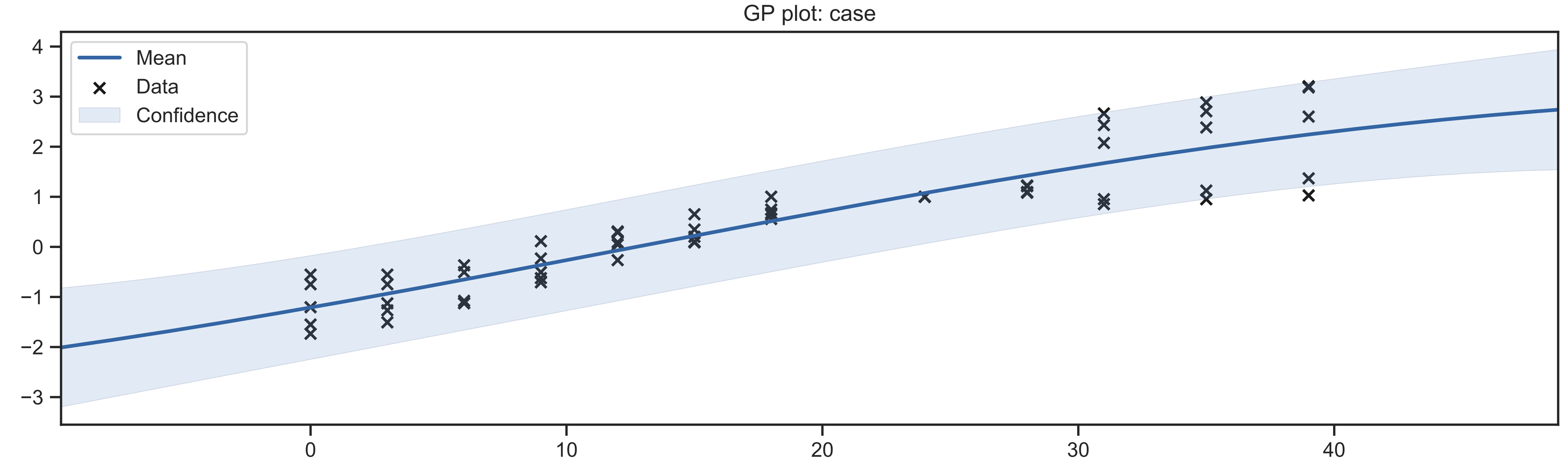
P40*C1

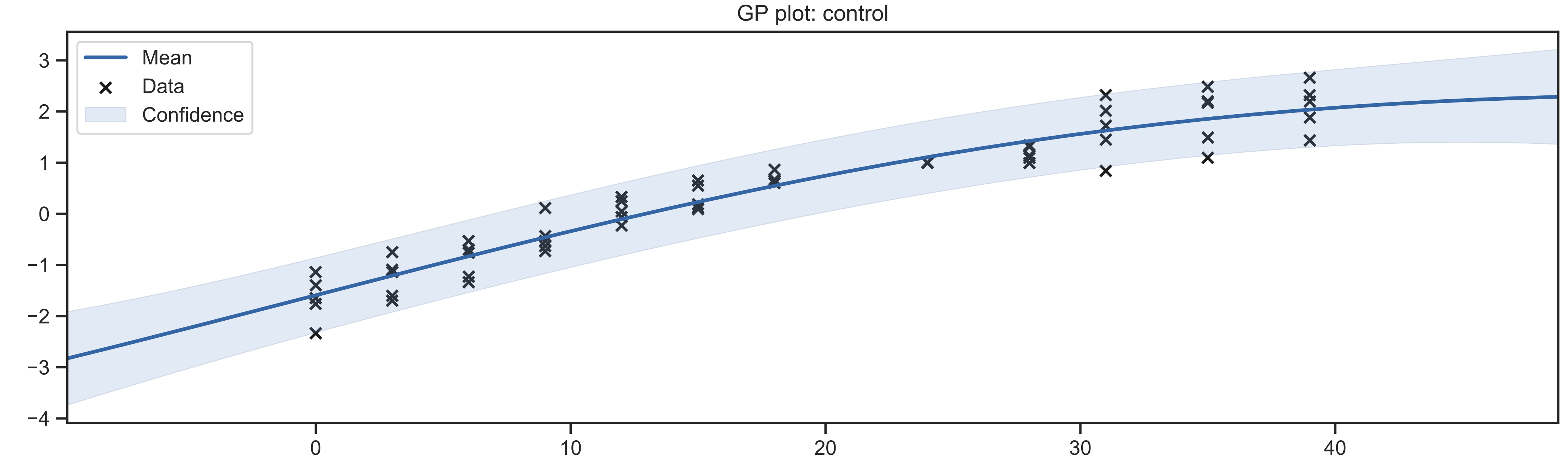

Replicates

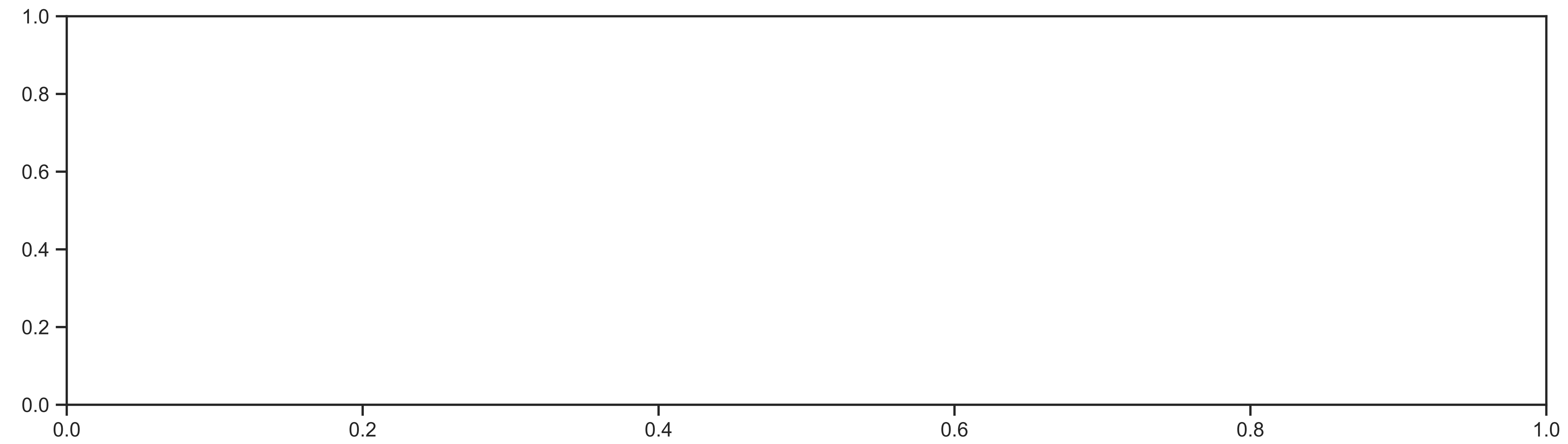
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N


Means


Pointwise KL divergence

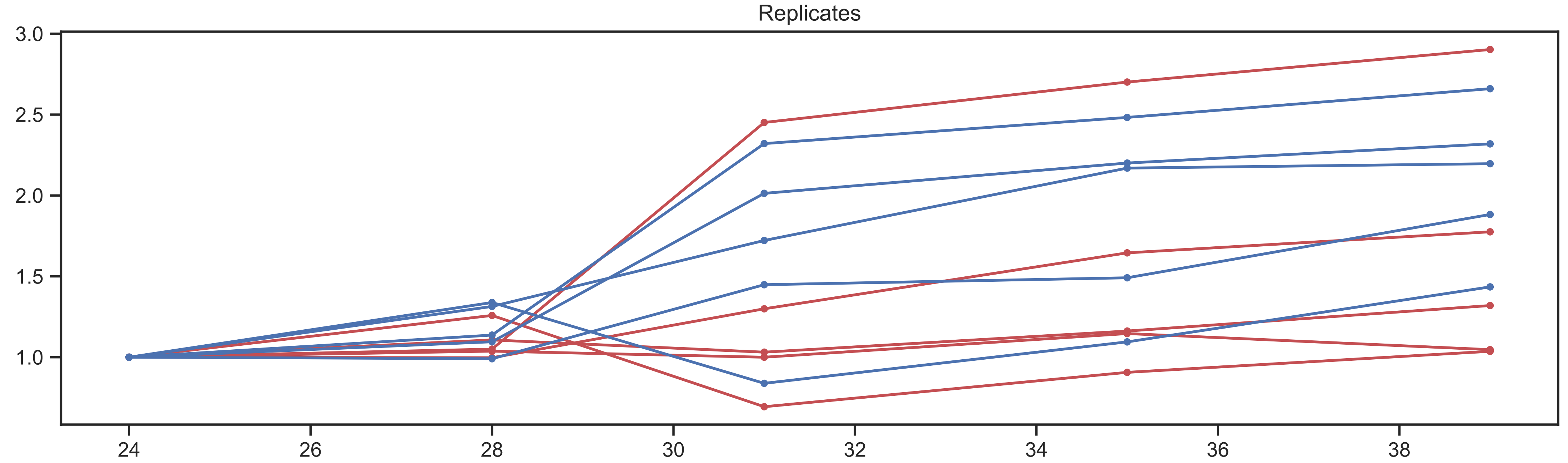

GP plot: case


GP plot: control

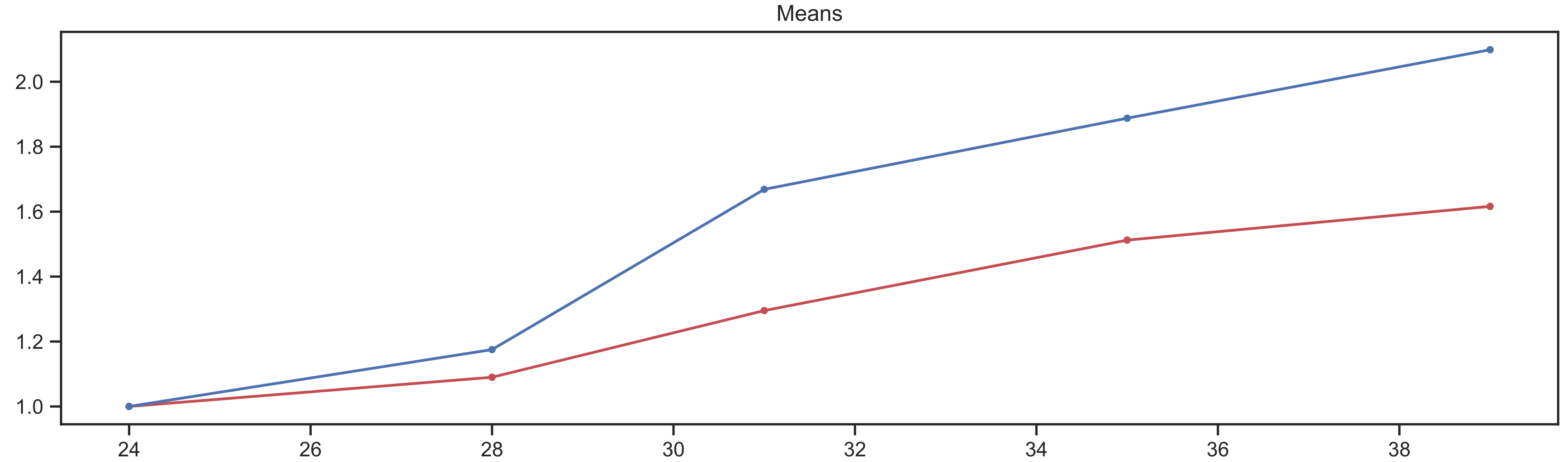


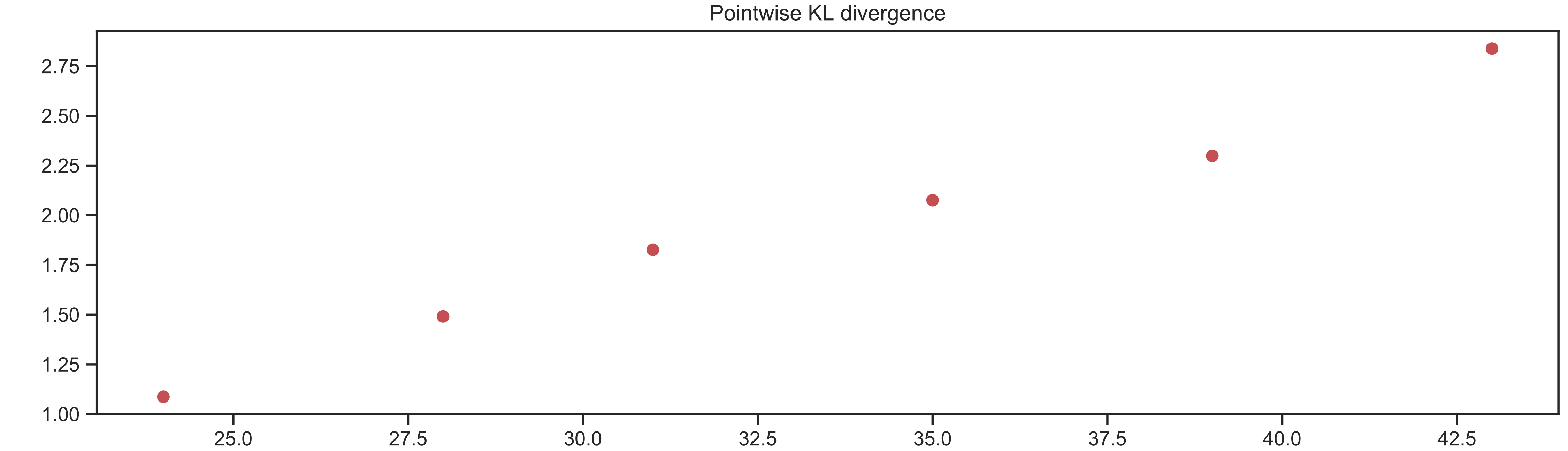
mRECIST: (0,0,5,0
kl: 0.3660970879163085
response_angle_rel: 0:0.007729131835378628_1:0.0025598768214995403_2:0.1577508059325964_3:0.14202297490925112_4:0.07321501893899975
response_angle_rel_control: 0:0.10603000496337359_1:0.05448074418534801_2:0.008129508384868764_3:0.02888891369880955_4:0.05422369915925686
auc_norm: 0:0.07037987958174362_1:-0.012501762315488094_2:0.6657931943913047_3:0.6642281042936301_4:0.48197068886749633
auc_control_norm: 0:[0.51363374]_1:[0.40621362]_2:[0.06706157]_3:[0.25872427]_4:[0.33304166]
tgi: -0.06332859947293623
red = treatment,   blue=control

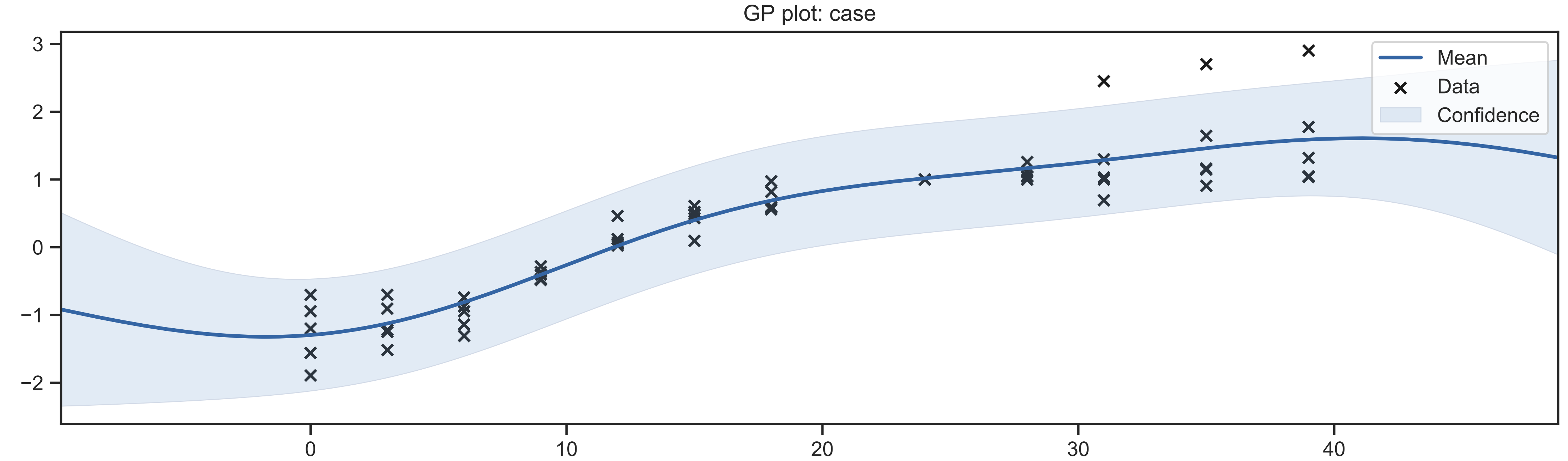
P40*C2

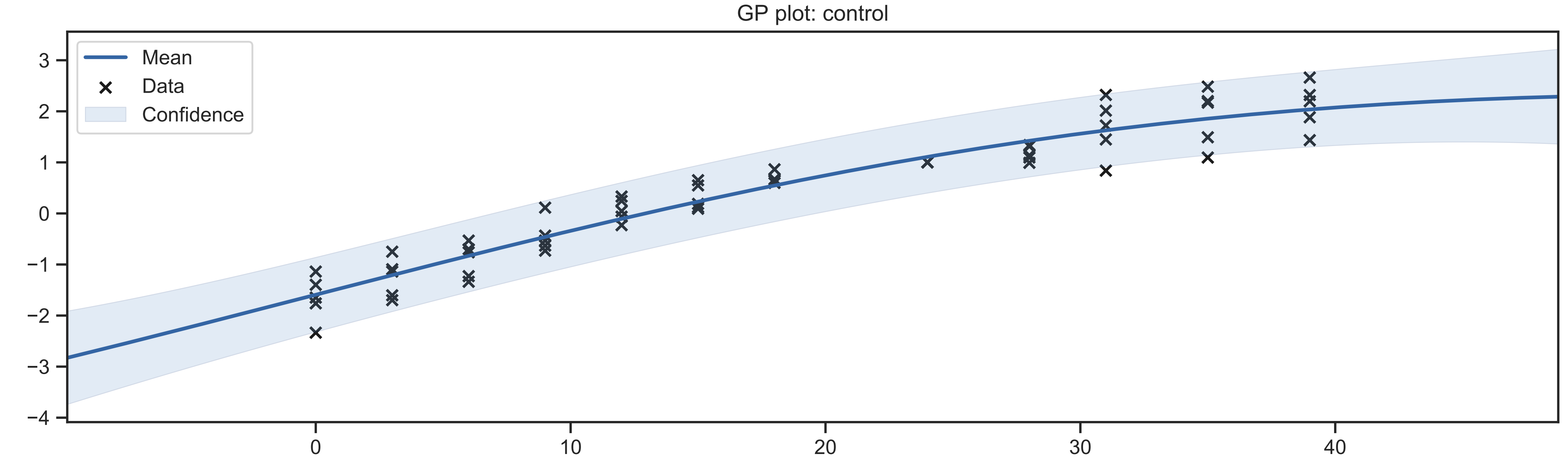


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

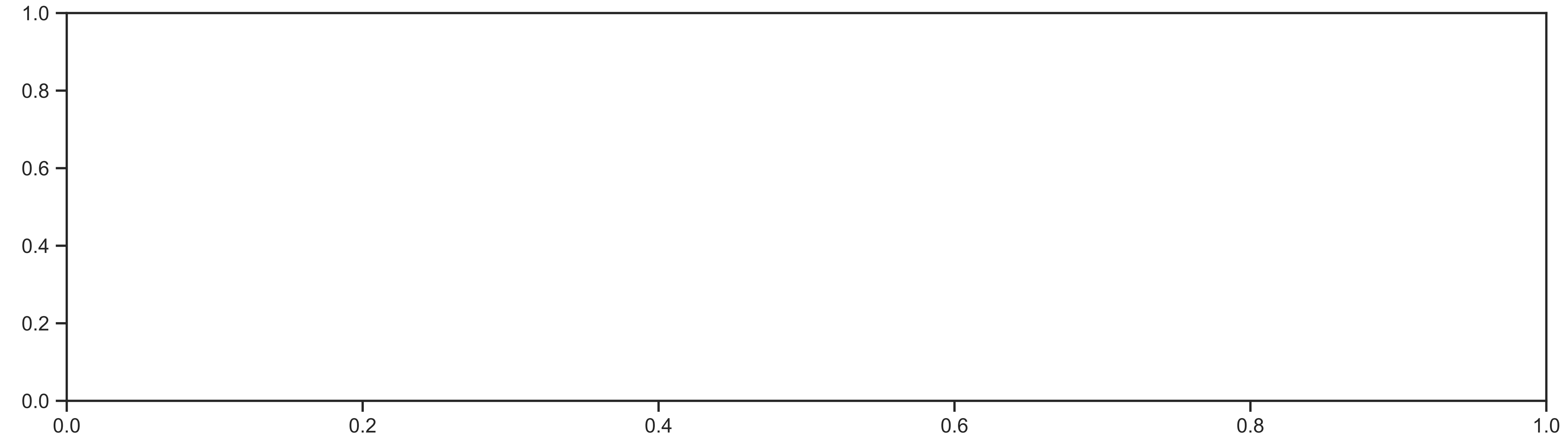






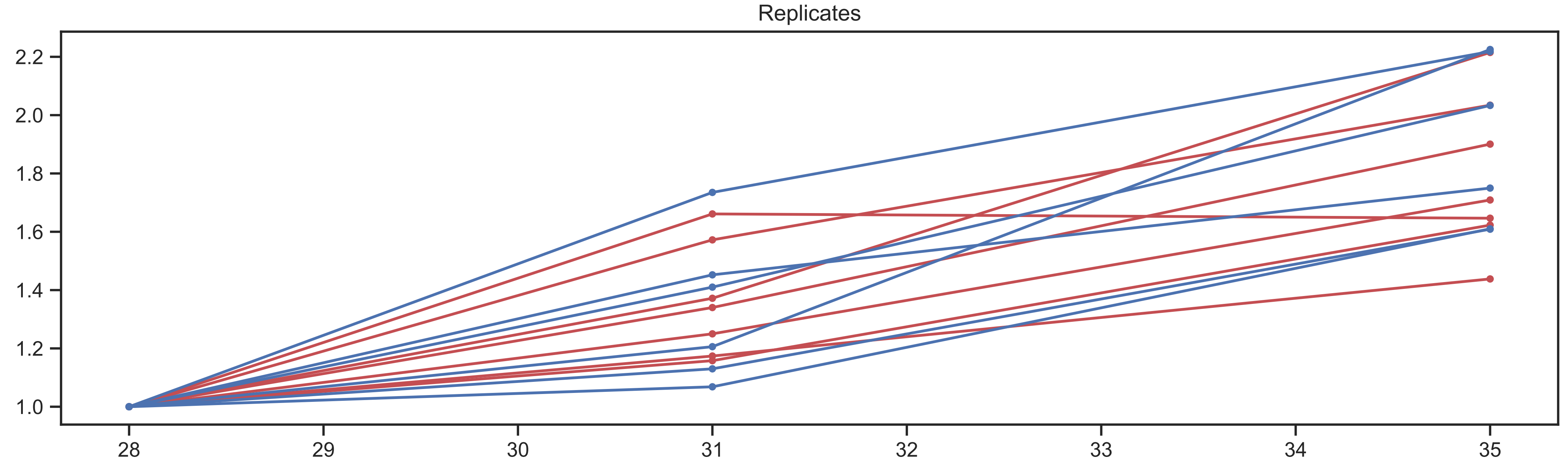


```
mRECIST: (0,0,5,0
kl: 0.9345641348263596
response_angle_rel: 0:0.009939309738603679_1:0.0033339468711042473_2:0.10673340697522048_3:0.0027060872284211993_4:0.034288535259989046
response_angle_rel_control: 0:0.10603000496337359_1:0.05448074418534801_2:0.008129508384868764_3:0.02888891369880955_4:0.05422369915925686
auc_norm: 0:0.0735734041216547_1:0.008588453216925841_2:0.5923326288335875_3:-0.03787894143002257_4:0.2190241550470279
auc_control_norm: 0:[0.51363374]_1:[0.40621362]_2:[0.06706157]_3:[0.25872427]_4:[0.33304166]
tgi: 0.3015504398843213
red = treatment,       blue=control
```



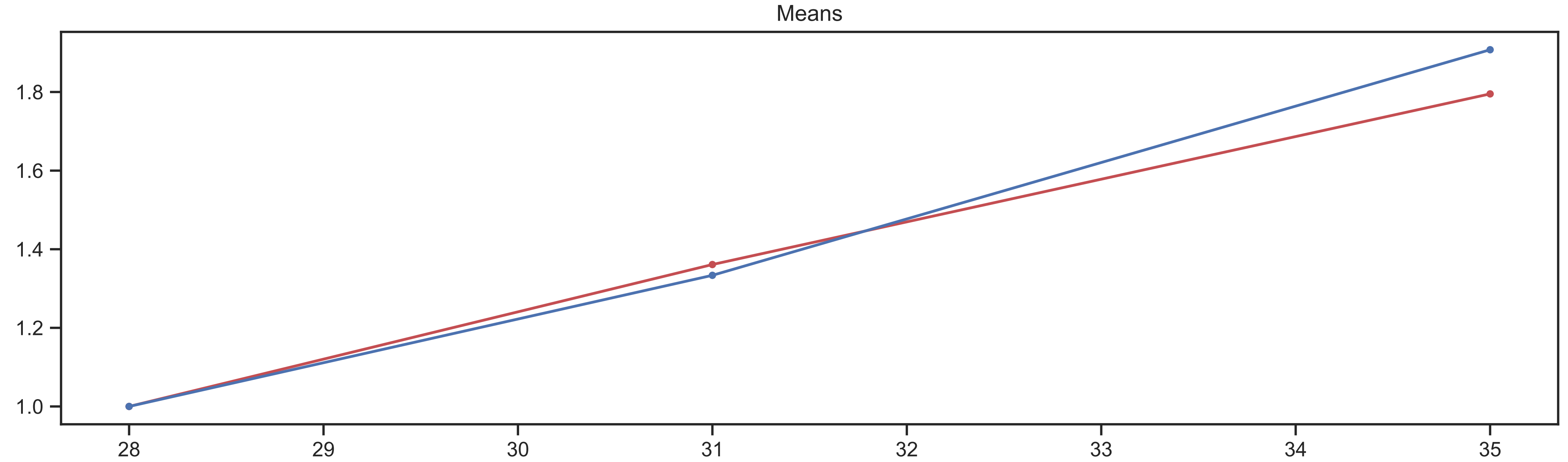
P41*C1

Replicates

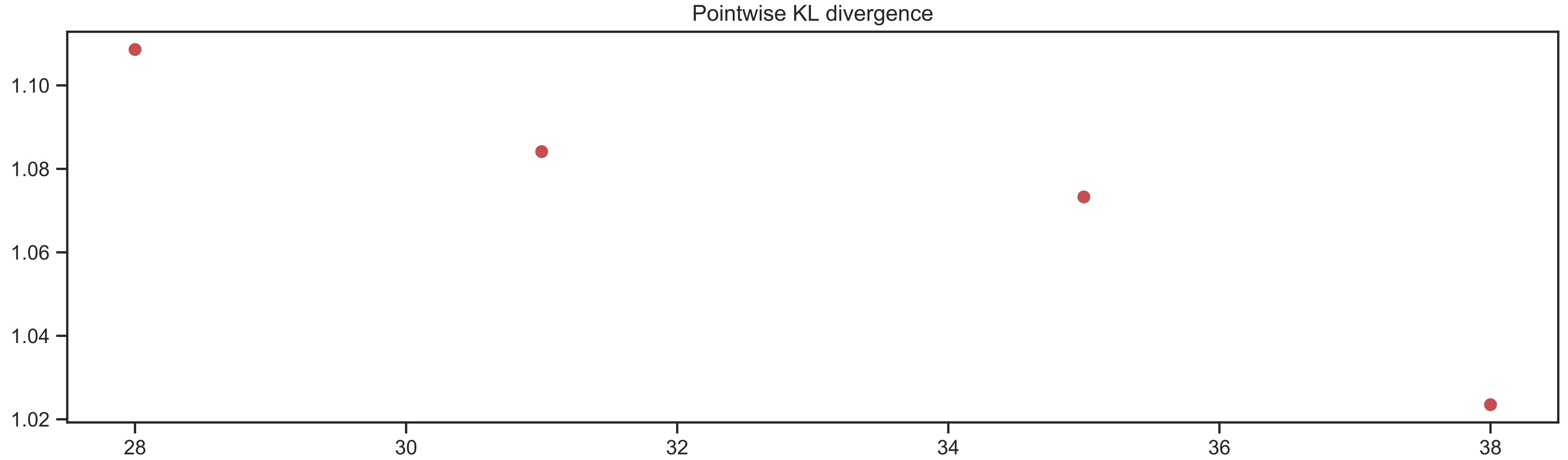


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: N
TGI: N

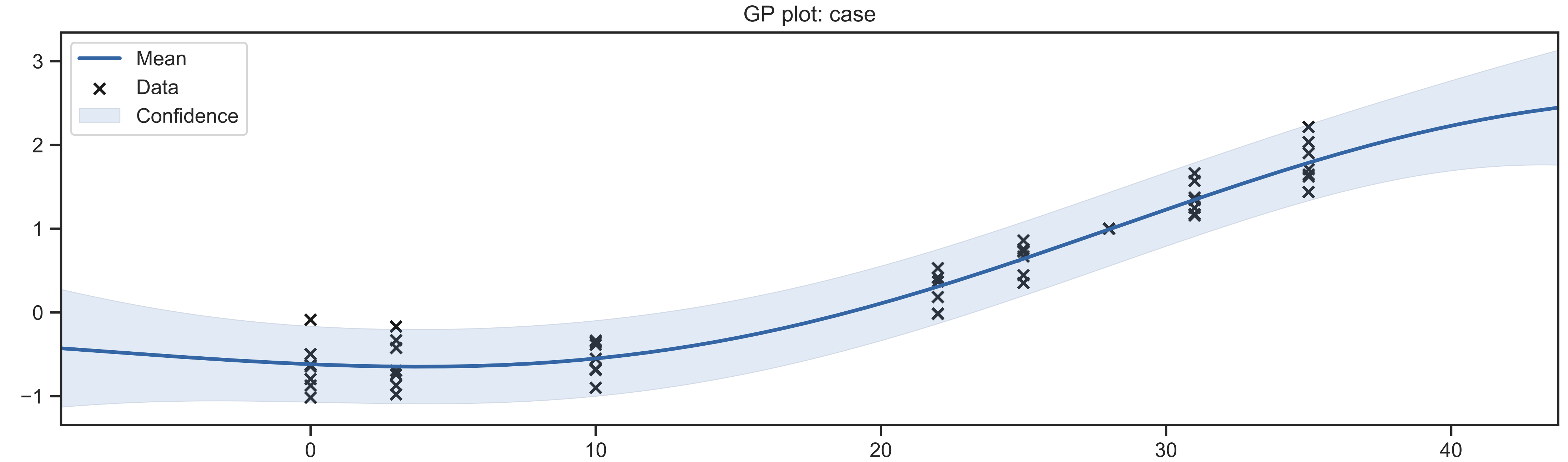
Means



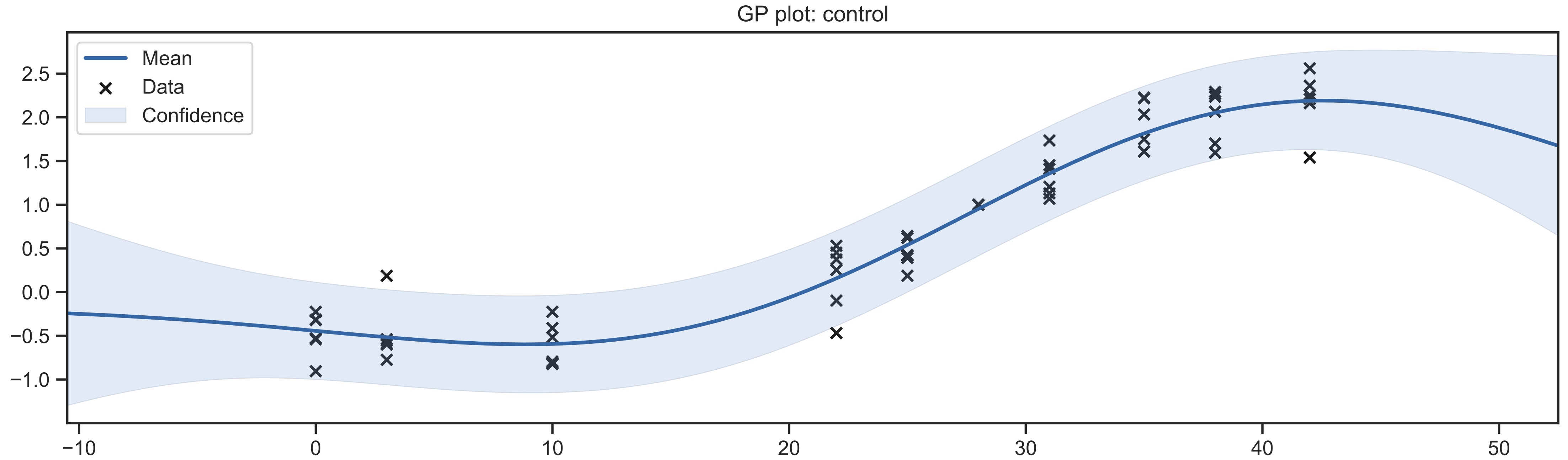
Pointwise KL divergence



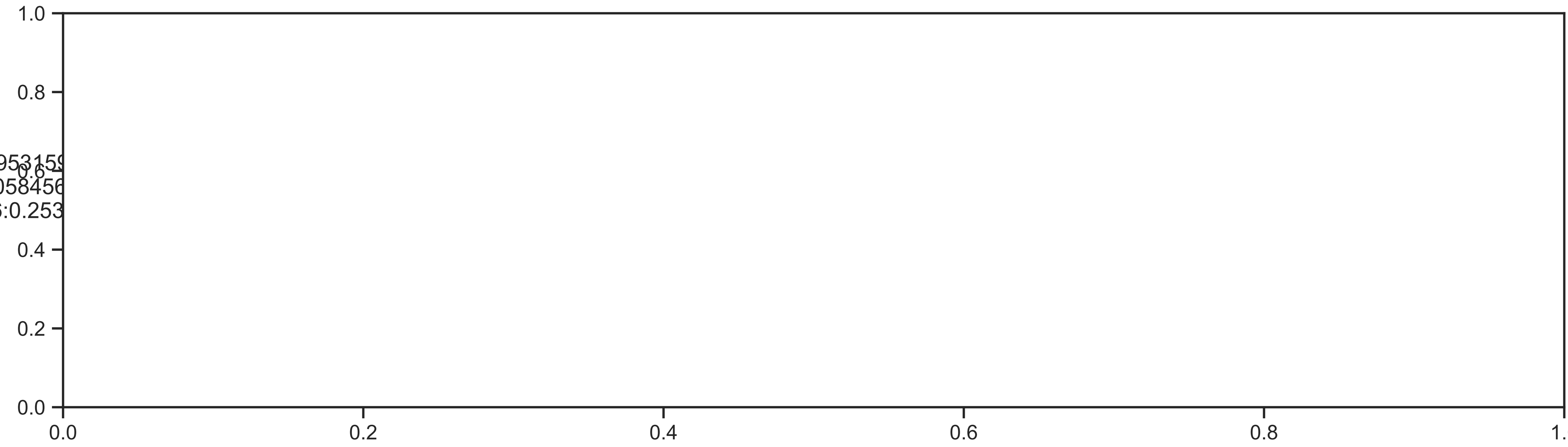
GP plot: case



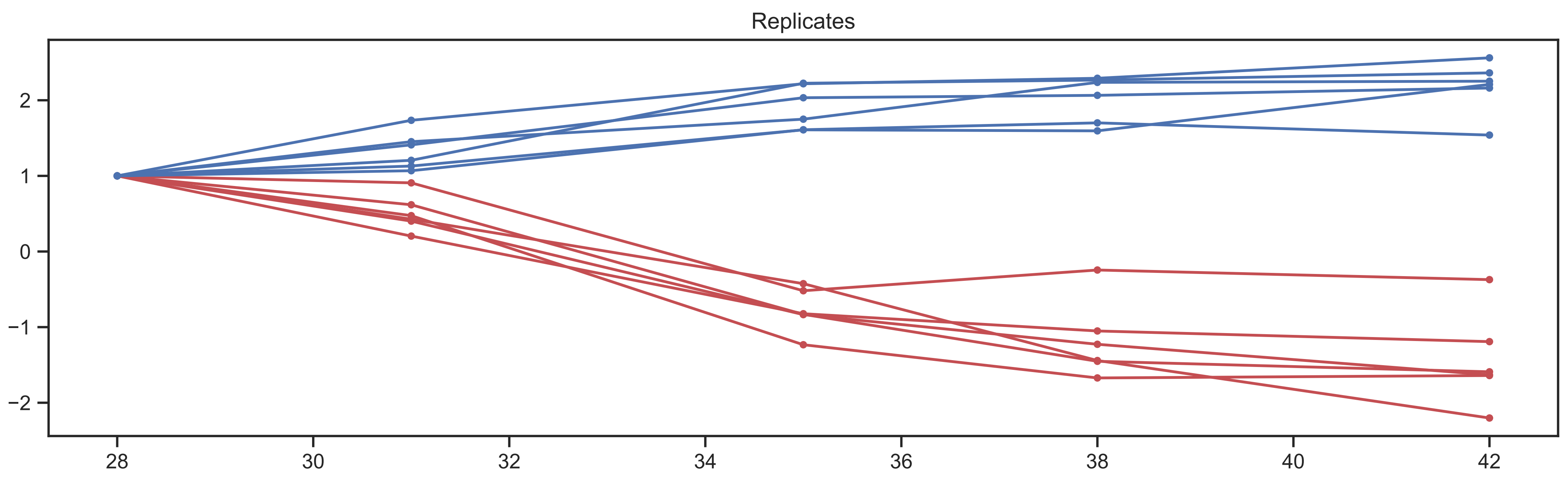
GP plot: control



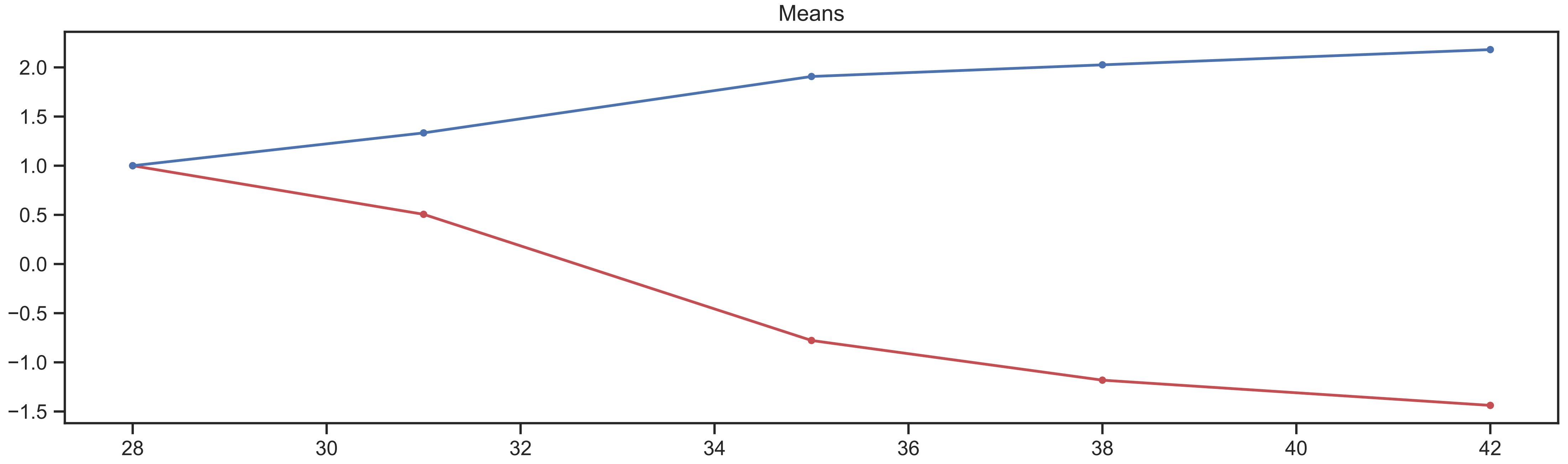
mRECIST: (7,0,0,0
kl: 0.07461641325818323
response_angle_rel: 0:-0.008859537675693351_1:-0.009019473131313 88_2:-0.009425335704375934_3:-0.009311626050036246_4:-0.009630444982787853_5:-0.00953
response_angle_rel_control: 0:0.05827760591380695_1:0.06568671387928716_2:0.05523645628170875_3:0.04437003406504829_4:0.03201562436122497_5:0.0200584
auc_norm: 0:0.33472451770567285_1:0.30622303810158163_2:0.16884488319386962_3:0.21671563566749025_4:0.12402815034462233_5:0.1980755006680503_6:0.253
auc_control_norm: 0:[0.32341603]_1:[0.36576573]_2:[0.22513216]_3:[0.29247045]_4:[0.1630233]_5:[0.15819969]
tgi: 0.055680574918437364
red = treatment, blue=control

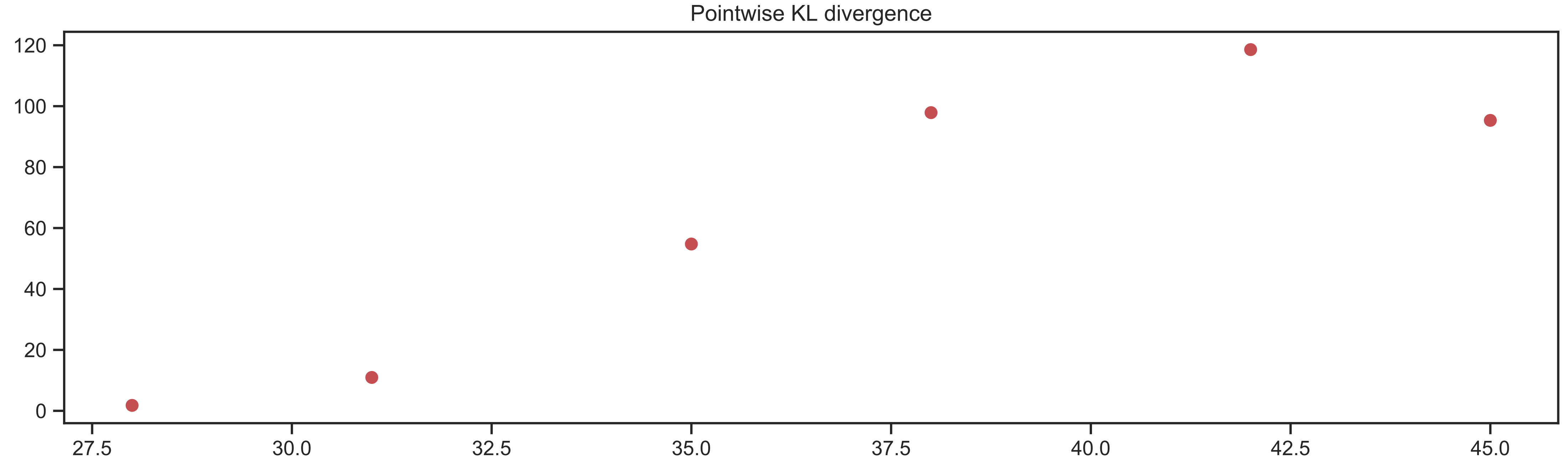


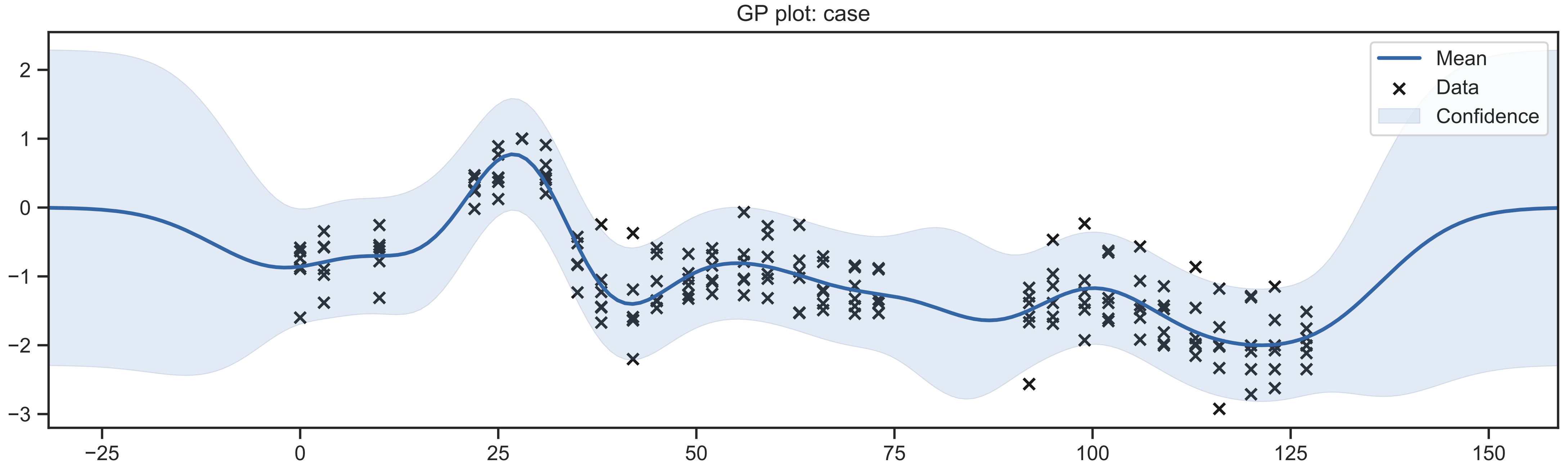
P41*C2

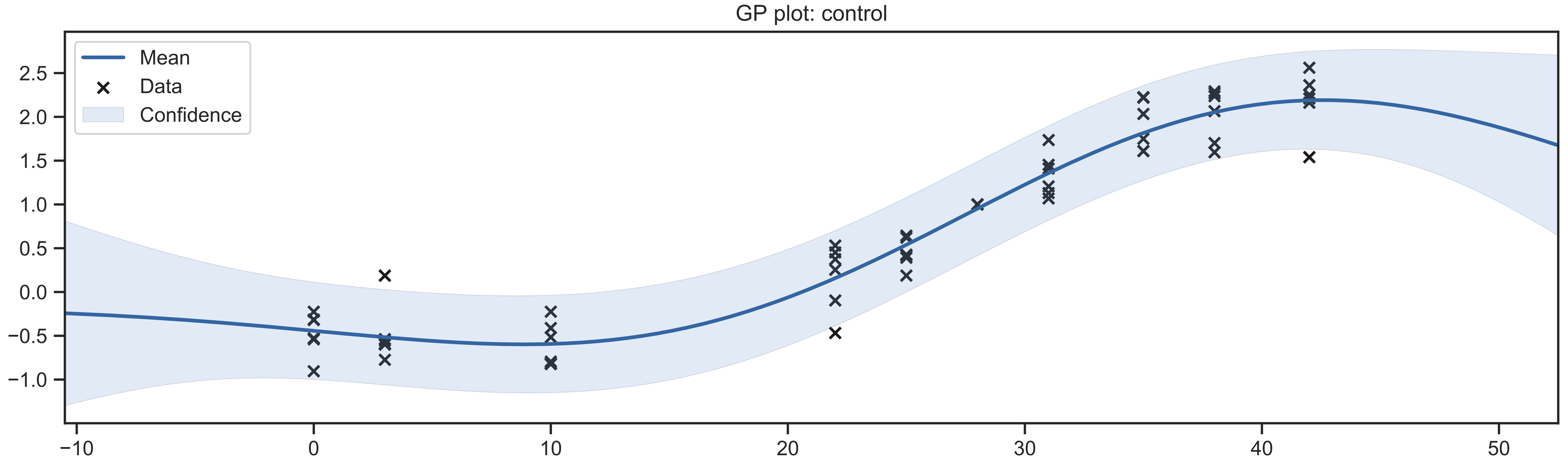


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

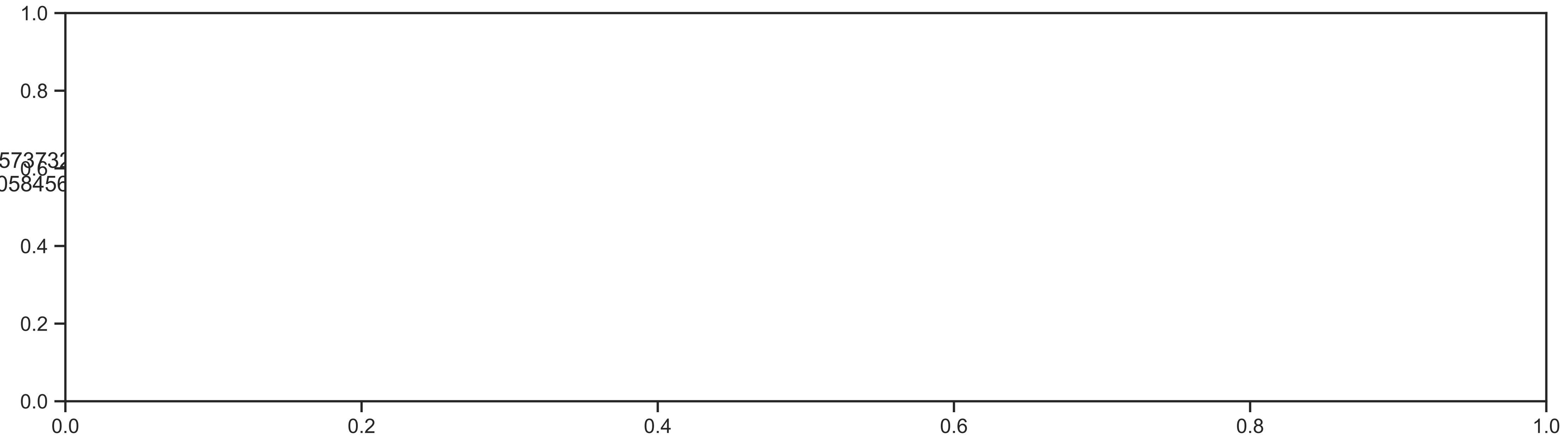




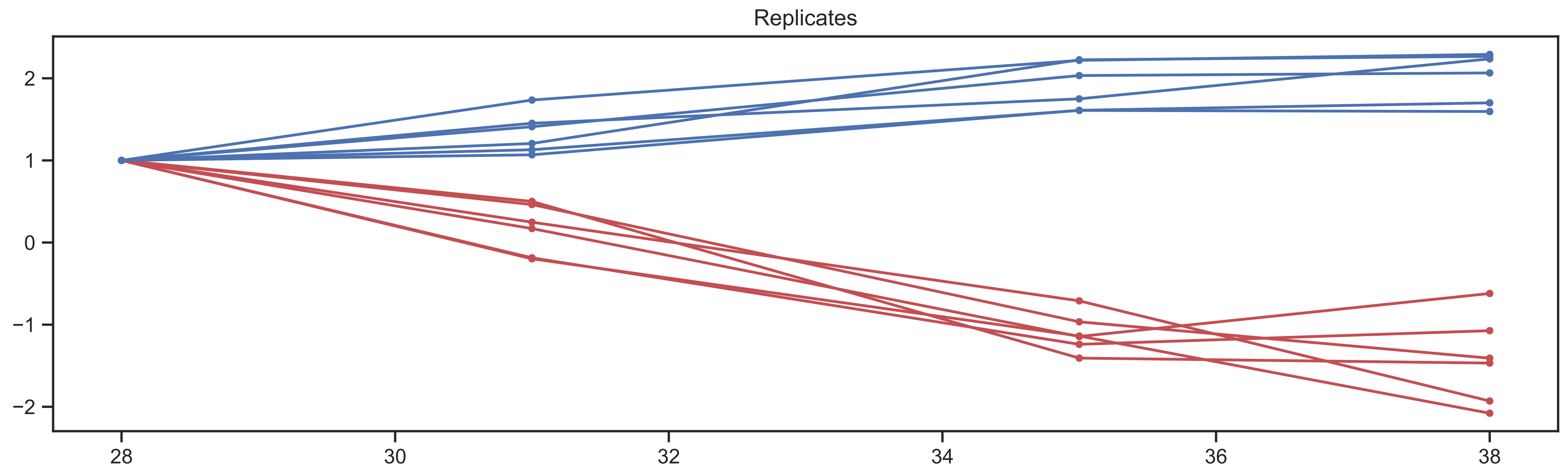




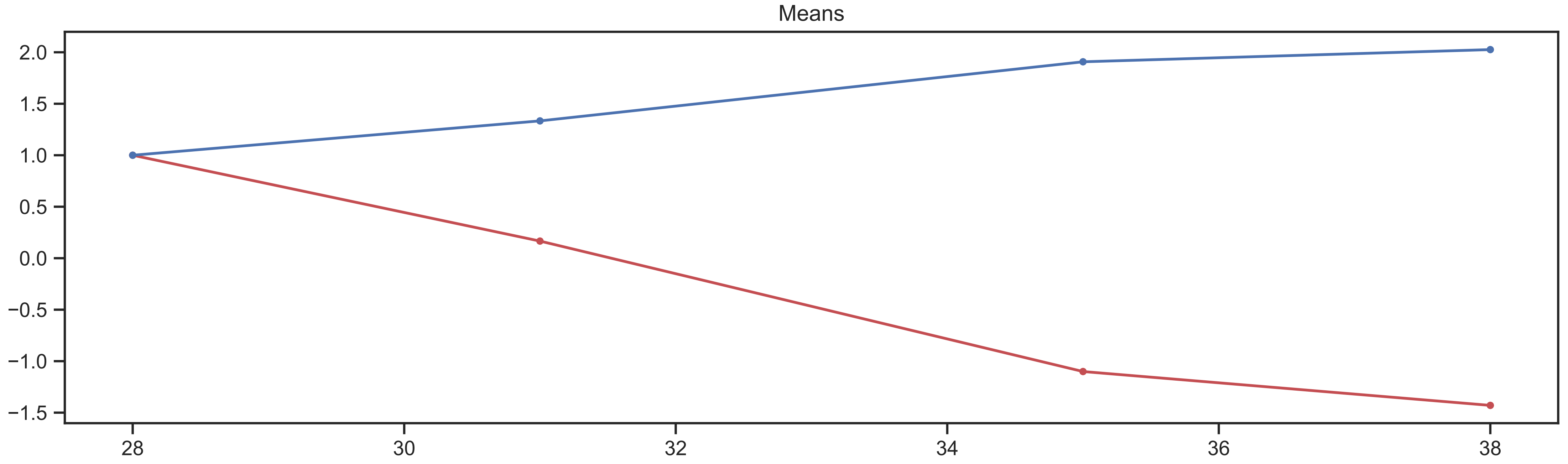
```
mRECIST: (5,1,0,0
kl: 66.41865839360092
response_angle_rel: 0:-0.00868848919272375_1:-0.009196831389537075_2:-0.009535156376079882_3:-0.00971107683933953_4:-0.009441373278867106_5:-0.00957373
response_angle_rel_control: 0:0.05827760591380695_1:0.06568671387928716_2:0.05523645628170875_3:0.04437003406504829_4:0.03201562436122497_5:0.02005845
auc_norm: 0:-0.3278802780623801_1:-0.9328696434577579_2:-0.6333338270823766_3:-0.7403562583987903_4:-0.7404276420202826_5:-0.7312919155364972
auc_control_norm: 0:[0.36112125]_1:[0.45749684]_2:[0.39124678]_3:[0.32720066]_4:[0.31209315]_5:[0.14818923]
tgi: 2.5354675573269816
red = treatment,       blue=control
```

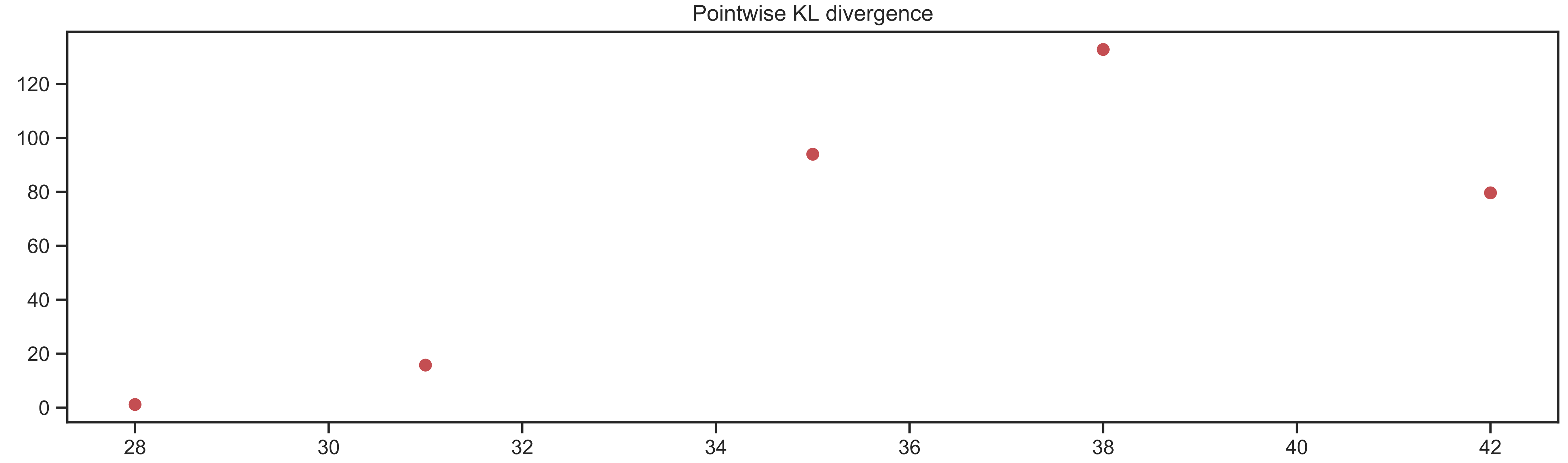


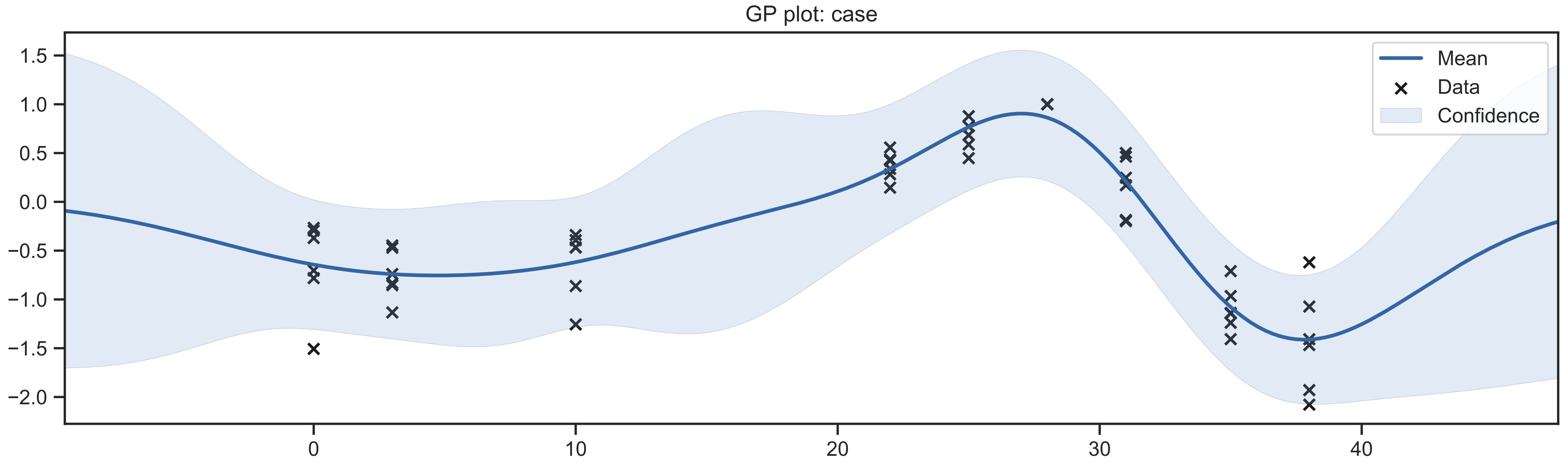
P41*C3

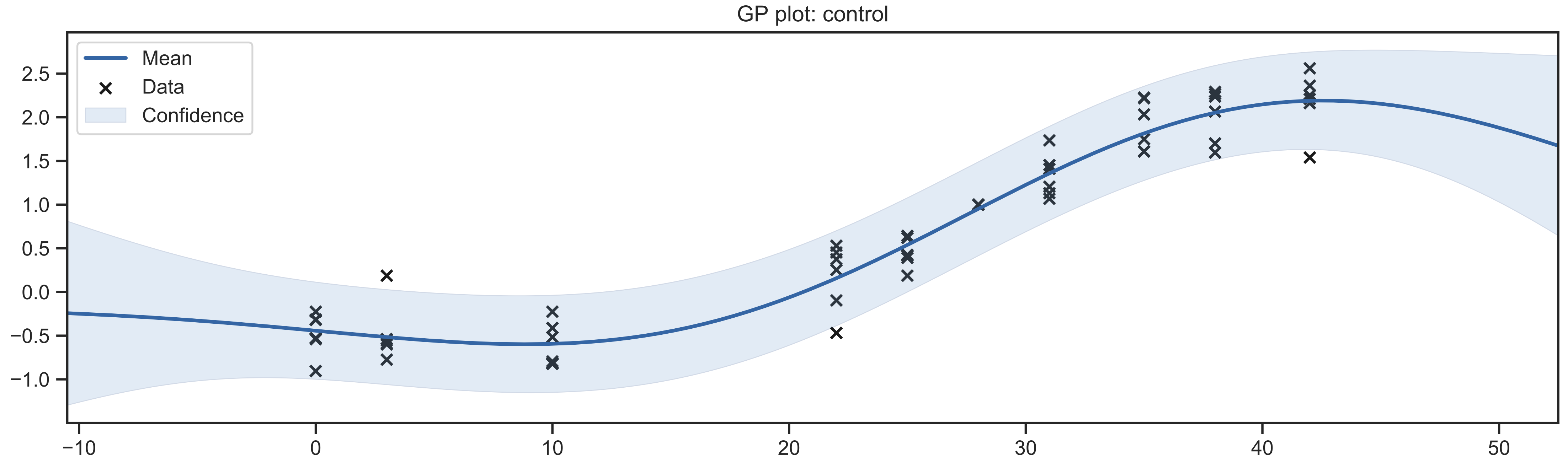


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

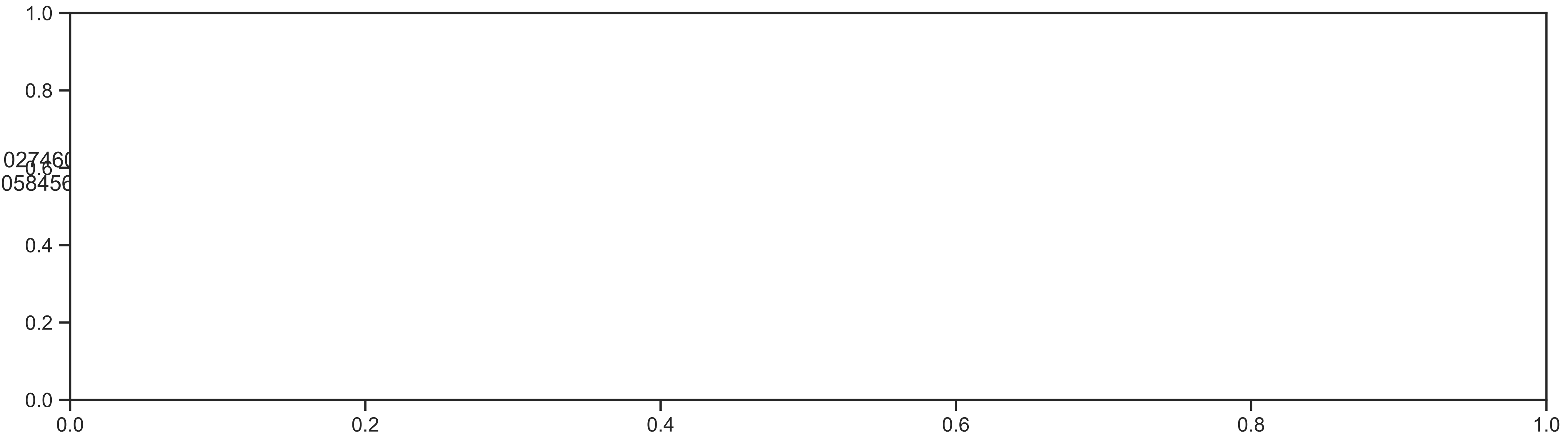




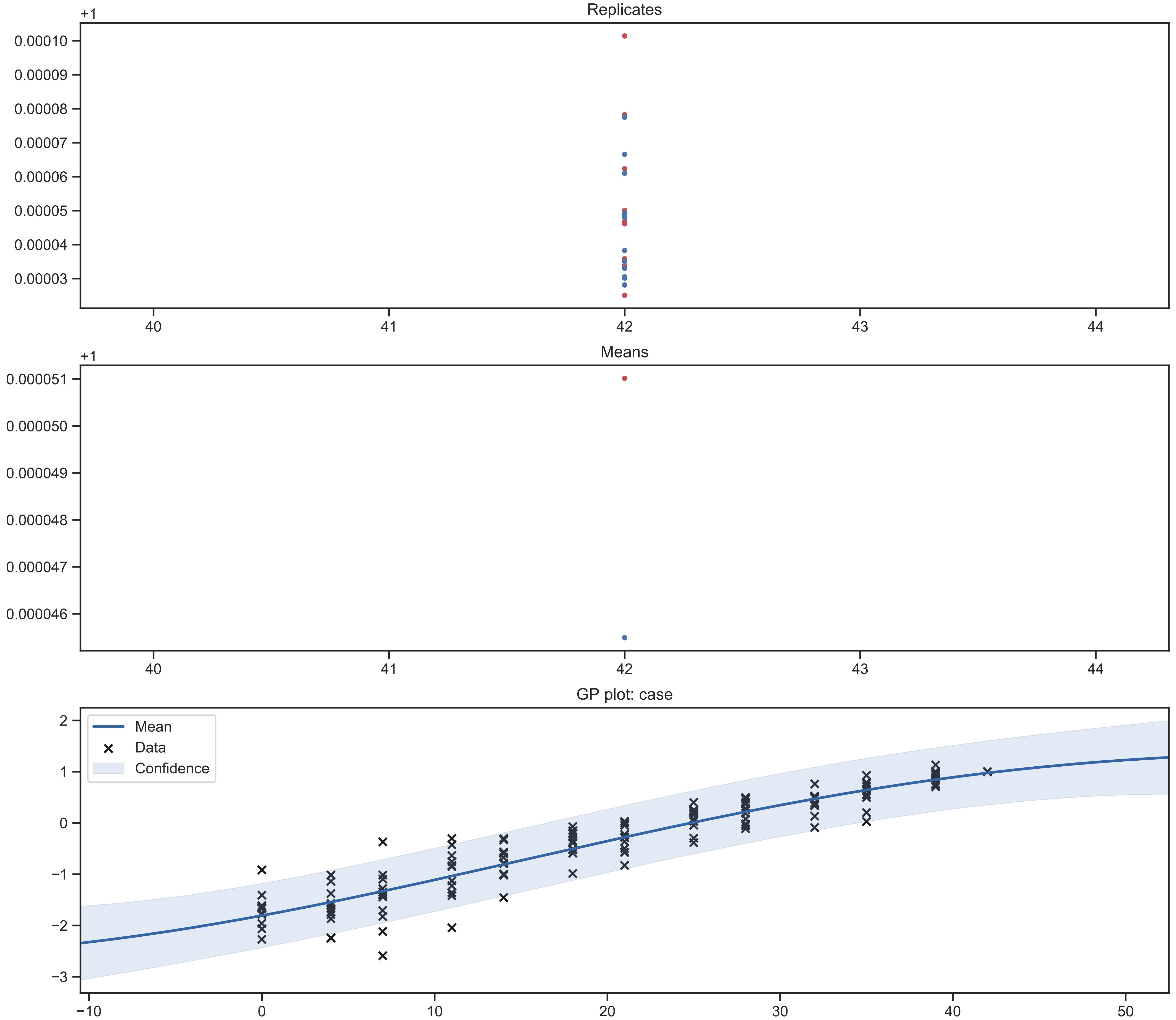




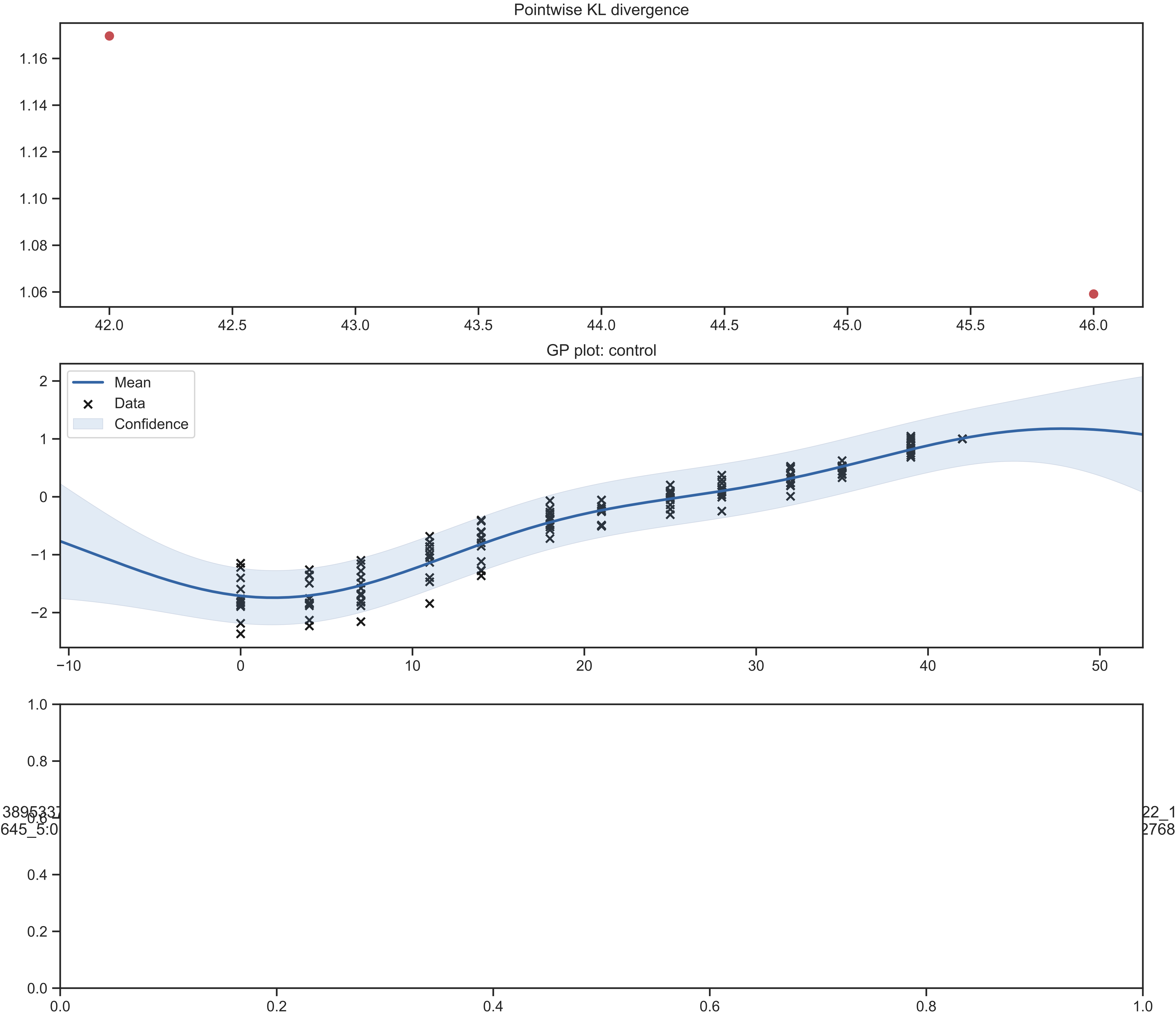
mRECIST: (6,0,0,0
kl: 71.90636348413317
response_angle_rel: 0:-0.00985027585521813_1:-0.009913631905168712_2:-0.010151332823766526_3:-0.010316483675435313_4:-0.010101336114204254_5:-0.0102746
response_angle_rel_control: 0:0.05827760591380695_1:0.06568671387928716_2:0.05523645628170875_3:0.04437003406504829_4:0.03201562436122497_5:0.020058456
auc_norm: 0:-0.4305244582733846_1:-0.6636070873939383_2:-0.6836978141351854_3:-0.6032716882572146_4:-0.9477720913514183_5:-0.8967202131755301
auc_control_norm: 0:[0.33734083]_1:[0.38999203]_2:[0.38731057]_3:[0.30305647]_4:[0.15855317]_5:[0.18854421]
tgi: 3.5569427569791987
red = treatment,   blue=control



P42*C1

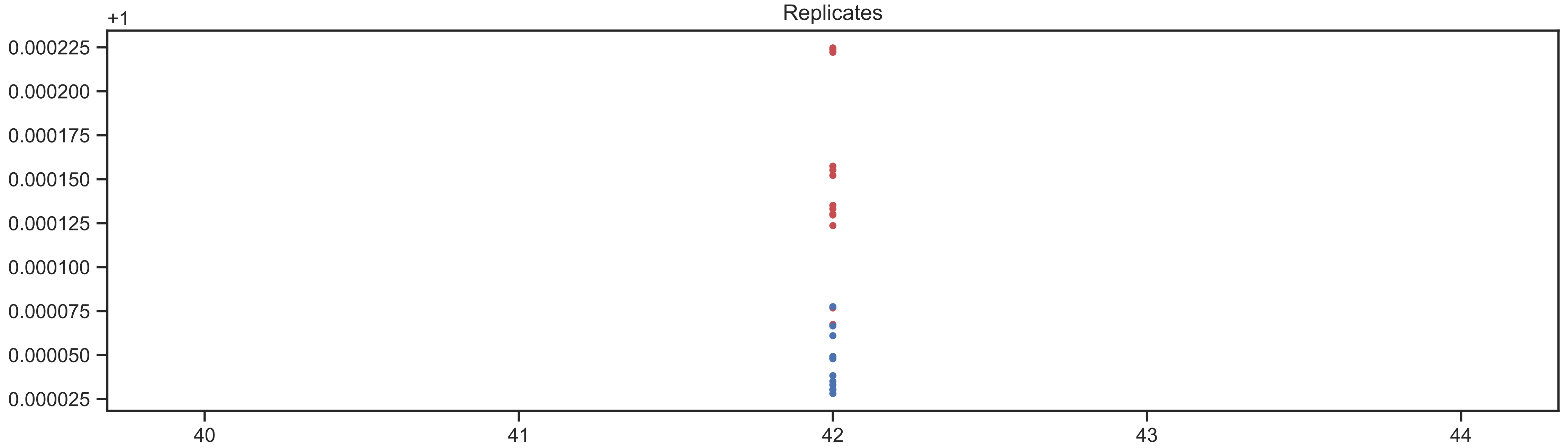


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: N

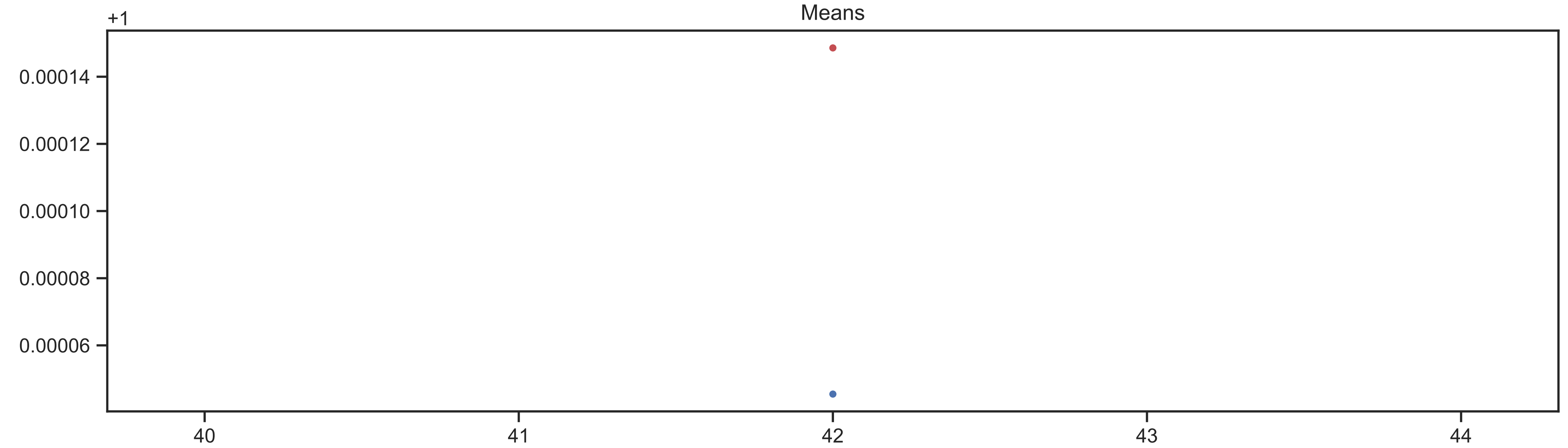


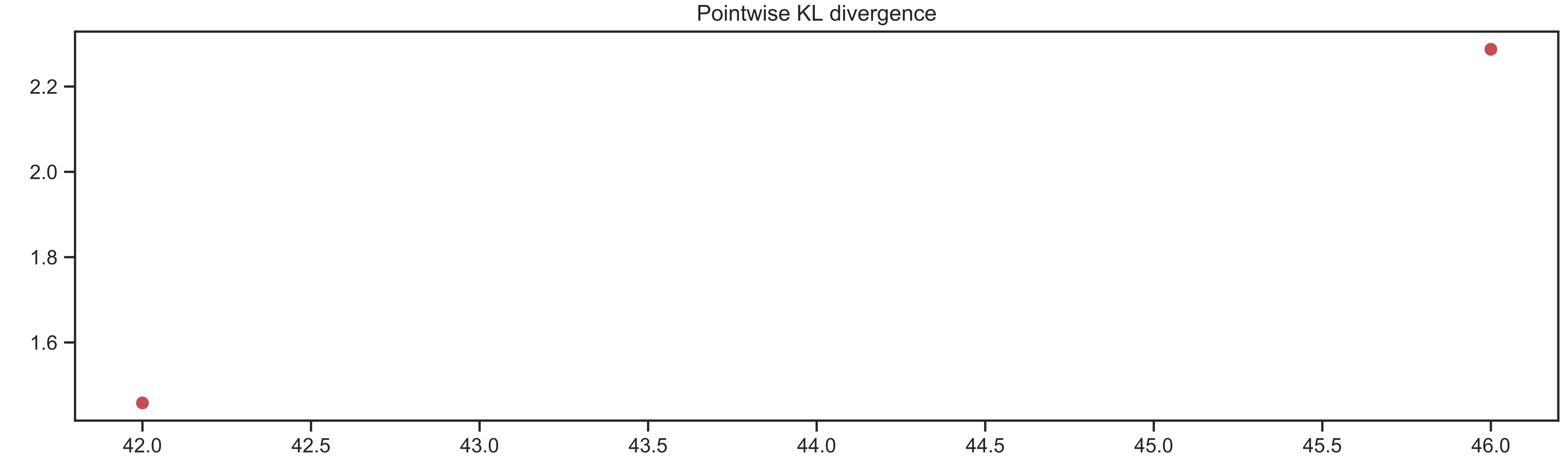
mRECIST: (12,0,0,0
kl: 0.12232524826343699
response_angle_rel: 0:-0.013998567237246995_1:-0.013805955830613809_2:-0.0140458866375349_3:-0.013906001135444766_4:-0.013831580020406771_5:-0.01389533 22_11:-0.014373607122572093
response_angle_rel_control: 0:0.0010488538954043925_1:0.006630237654412536_2:0.0033299095614187963_3:0.0012532222272704492_4:0.0024630334593183645_5:0 276802621237_11:0.002704620255764084
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
tgi: -0.01702558816239441
red = treatment, blue=control

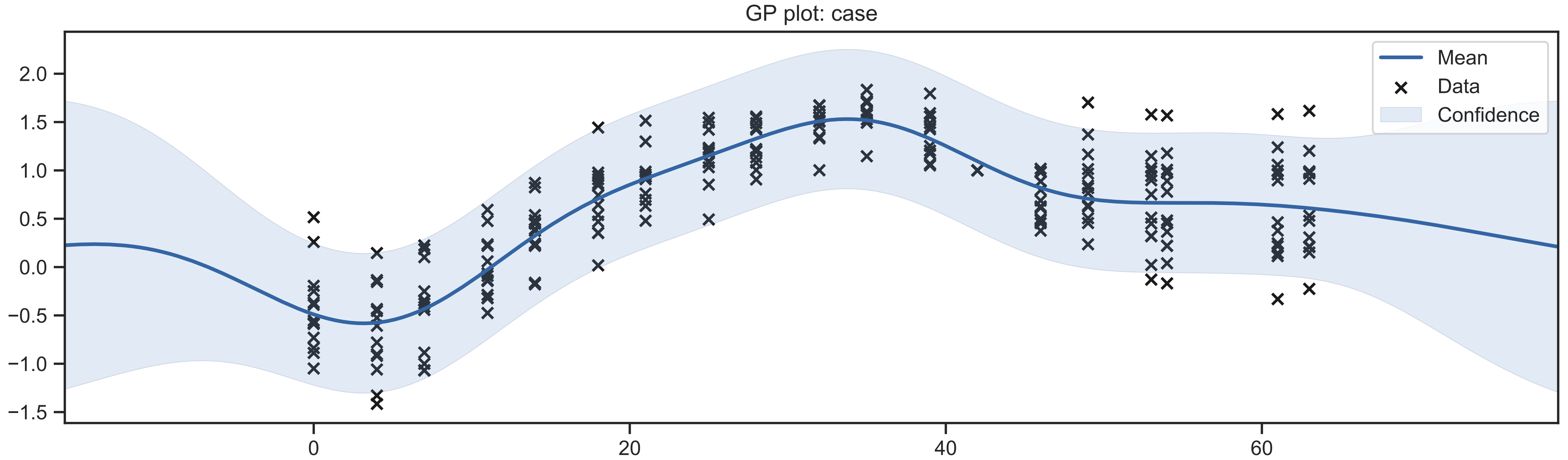
P42*C2

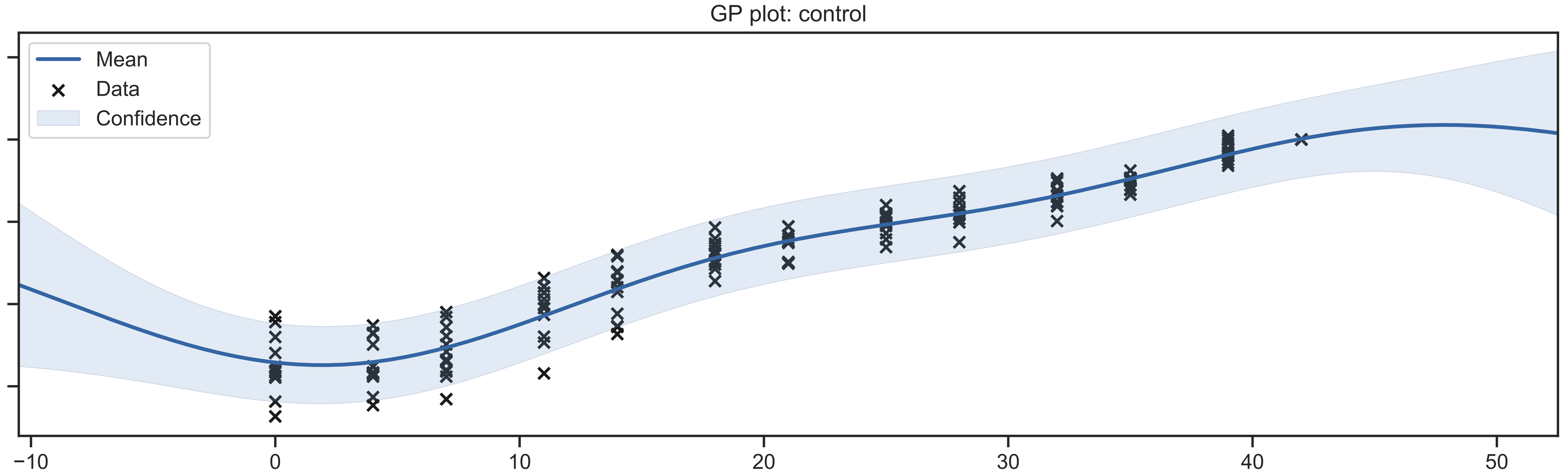


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: Y

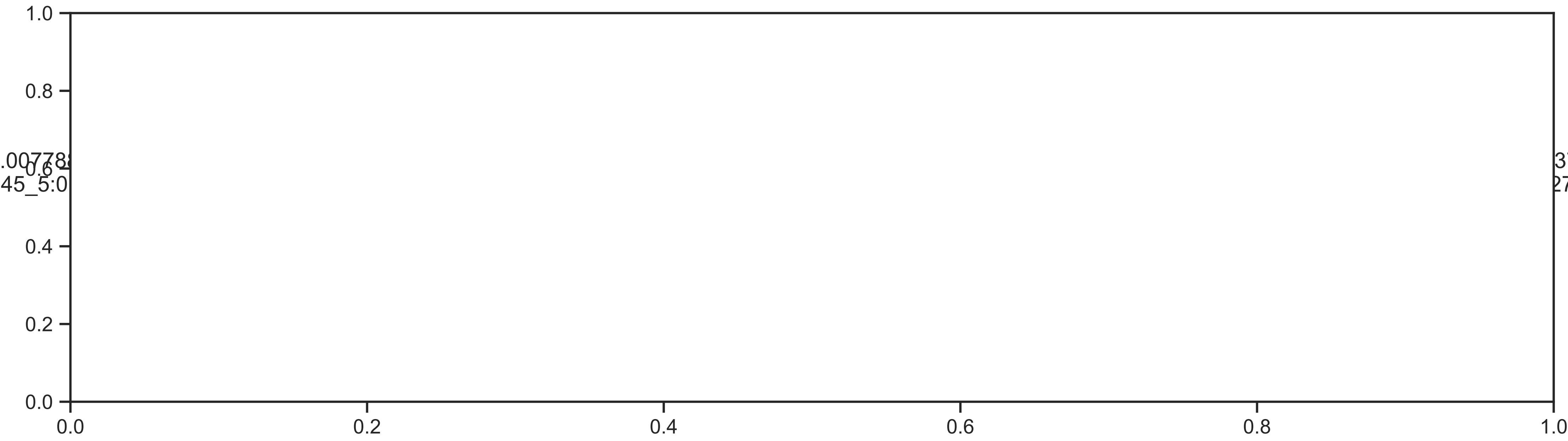




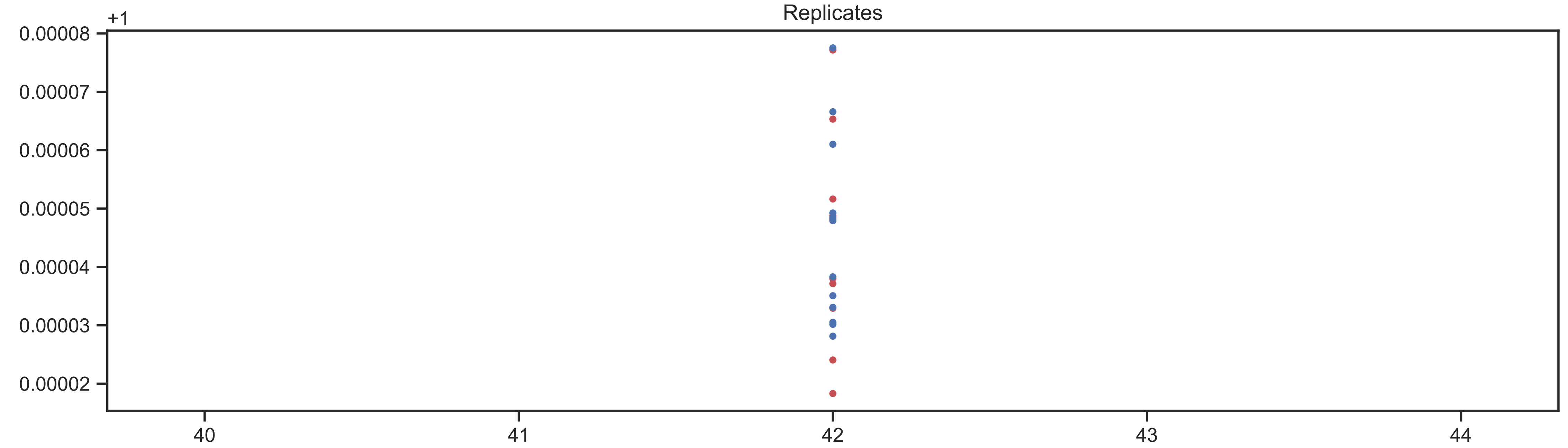




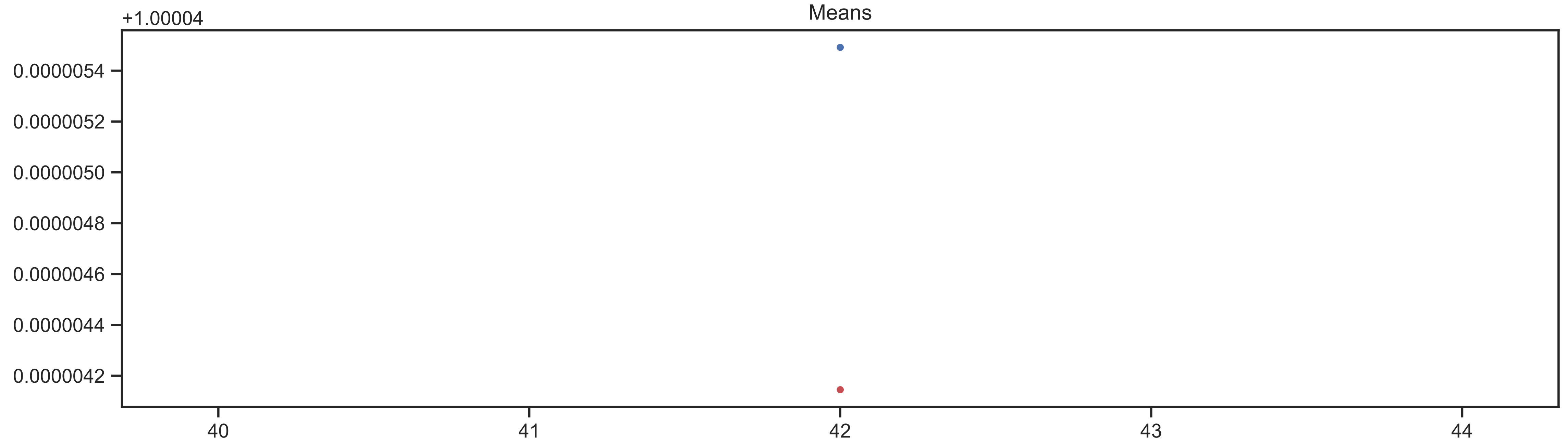
mRECIST: (0,6,7,0
kl: 0.7718971934649896
response_angle_rel: 0:0.0012170226724544965_1:-0.00045879221138859486_2:0.007638027830313731_3:0.007461179241383567_4:-0.008689324386171263_5:-0.0077 374514_11:-0.007842292764909426_12:-0
response_angle_rel_control: 0:0.0010488538954043925_1:0.006630237654412536_2:0.0033299095614187963_3:0.0012532222272704492_4:0.0024630334593183645_5:0 276802621237_11:0.002704620255764084
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0_12:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
tgi: 2.5008448452210885
red = treatment,   blue=control

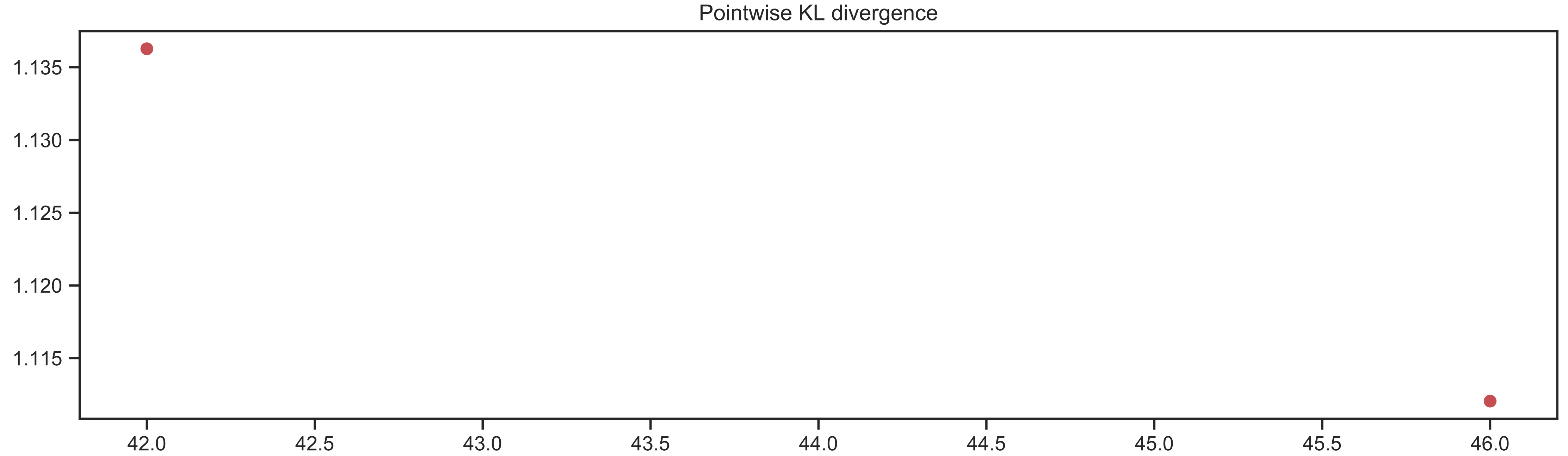


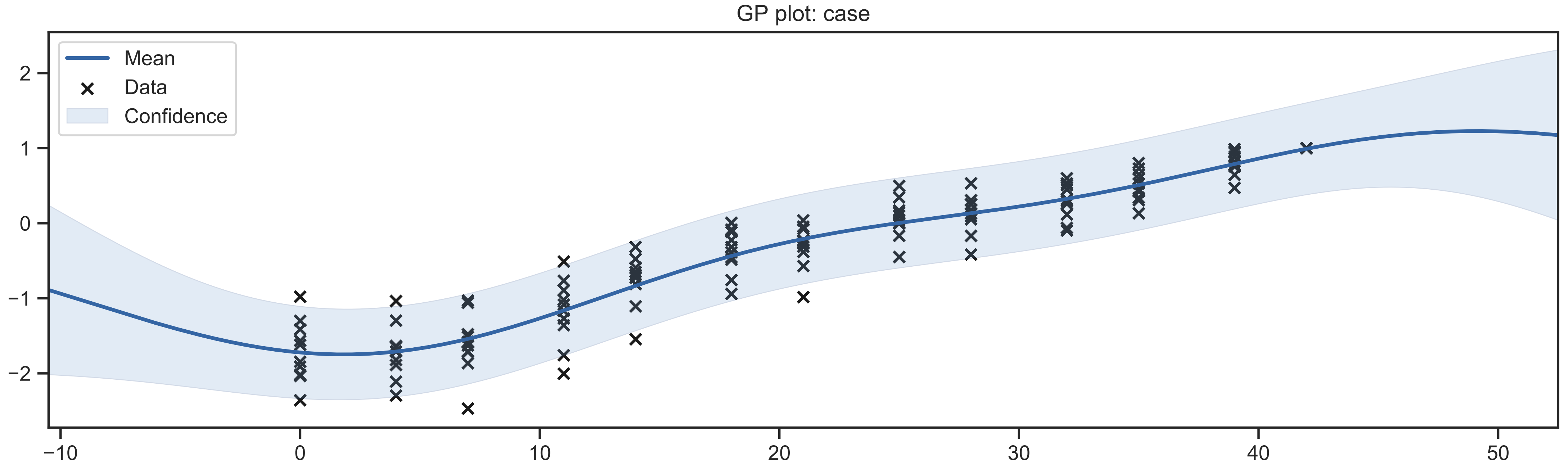
P42*C3

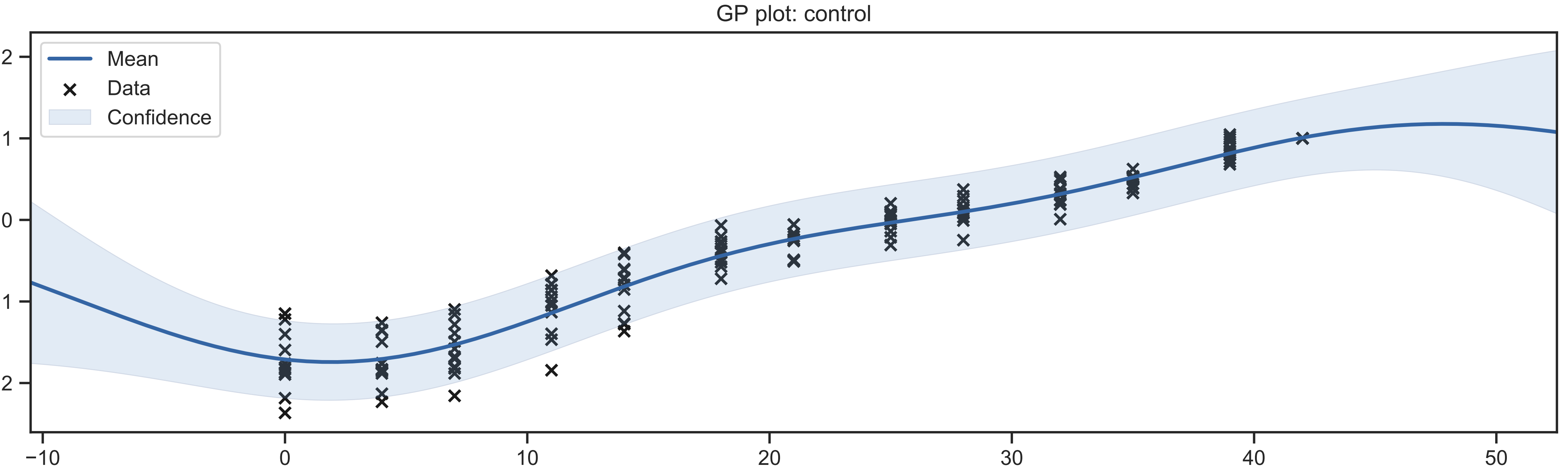


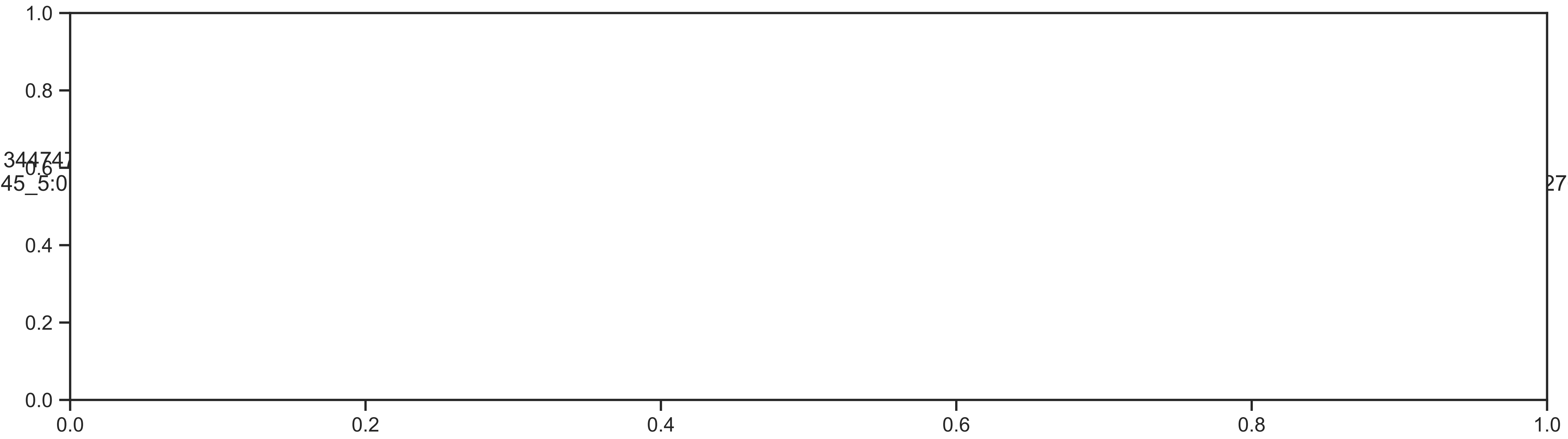
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: N





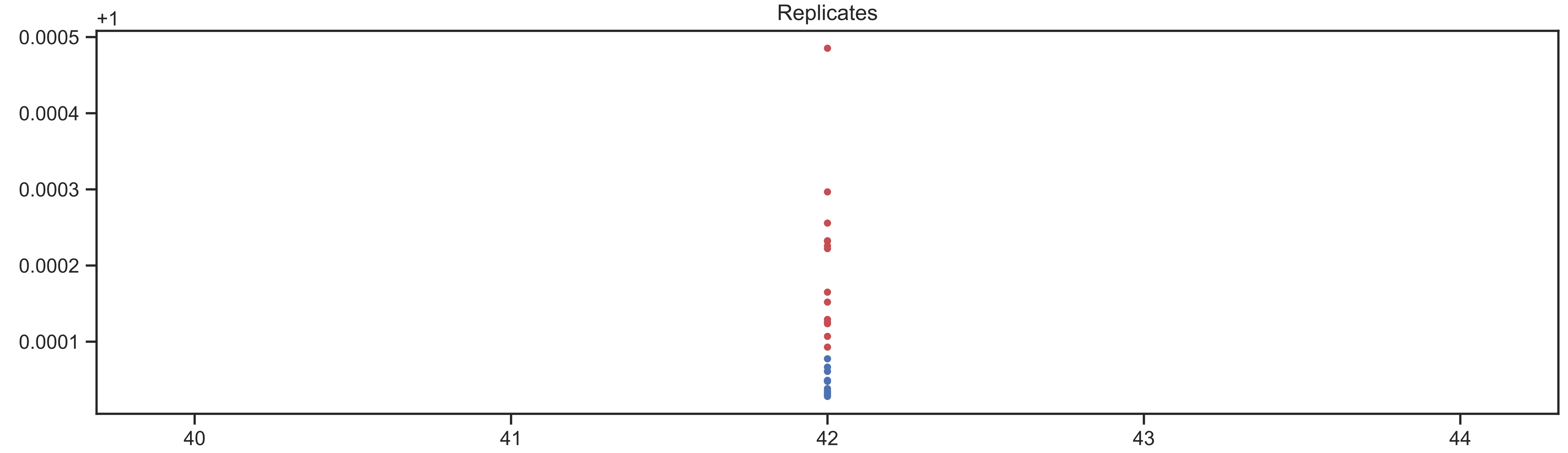




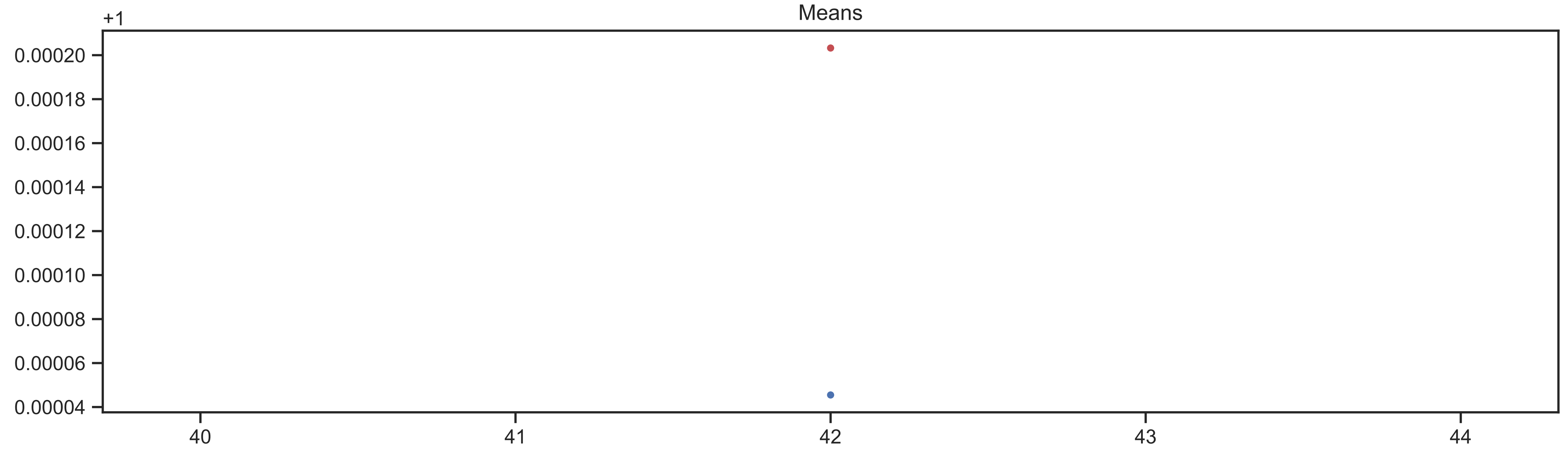


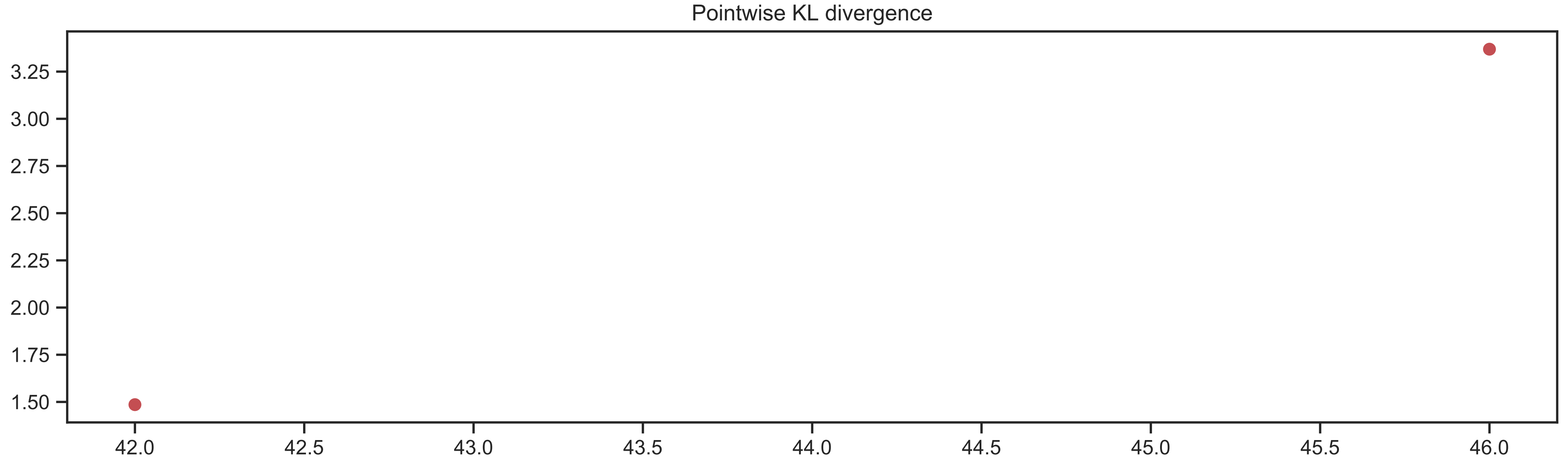
mRECIST: (10,0,0,0
kl: 0.12323302841950559
response_angle_rel: 0:-0.014117964224167022_1:-0.013444609526901036_2:-0.013721983504248868_3:-0.01410309521218827_4:-0.014367720151882563_5:-0.0134474
response_angle_rel_control: 0:0.0010488538954043925_1:0.006630237654412536_2:0.0033299095614187963_3:0.0012532222272704492_4:0.0024630334593183645_5:0
276802621237_11:0.002704620255764084
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
tgi: -0.2836712340915104
red = treatment,   blue=control

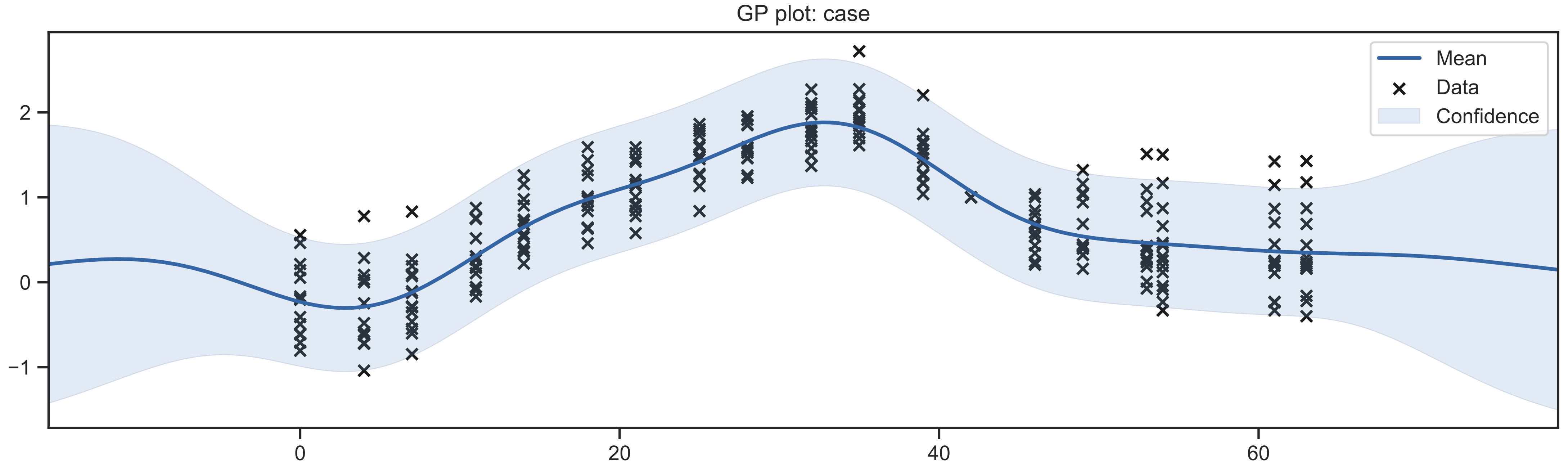
P42*C4

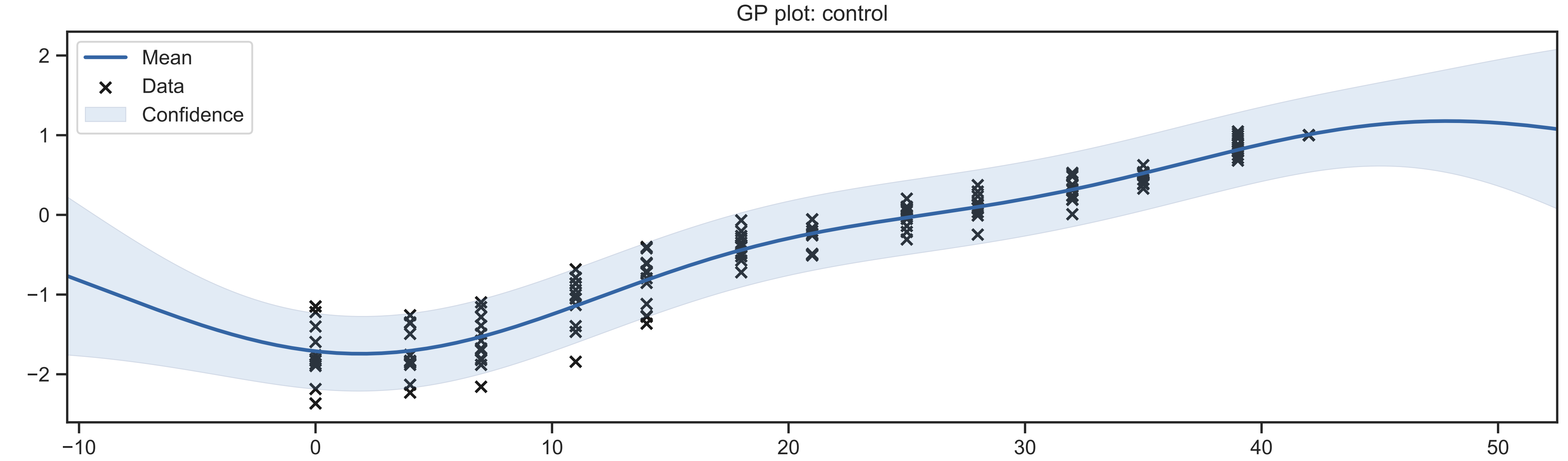


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: Y

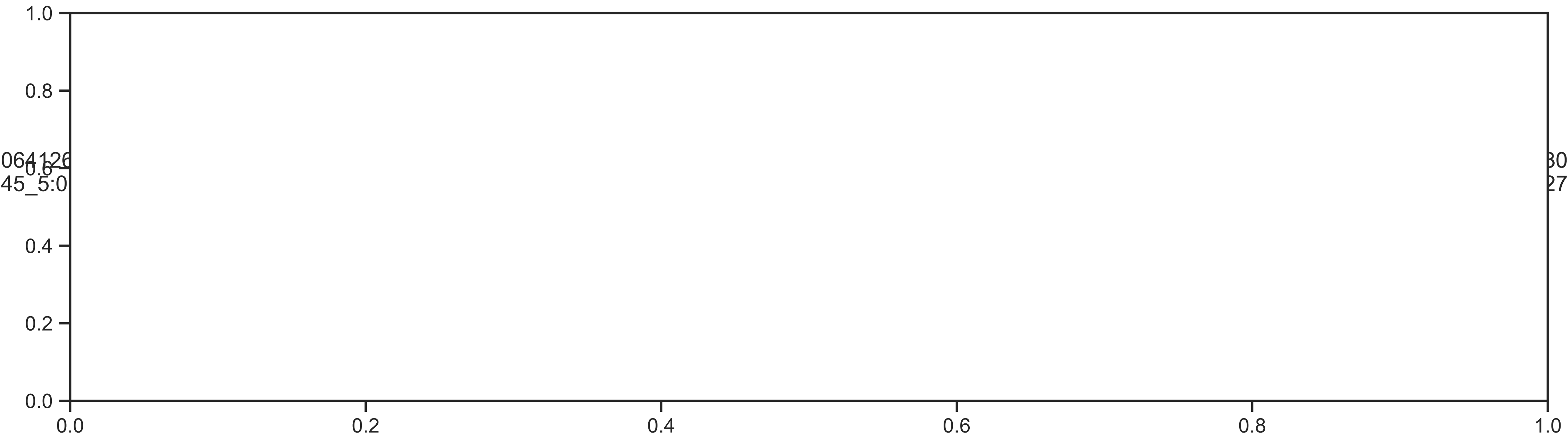




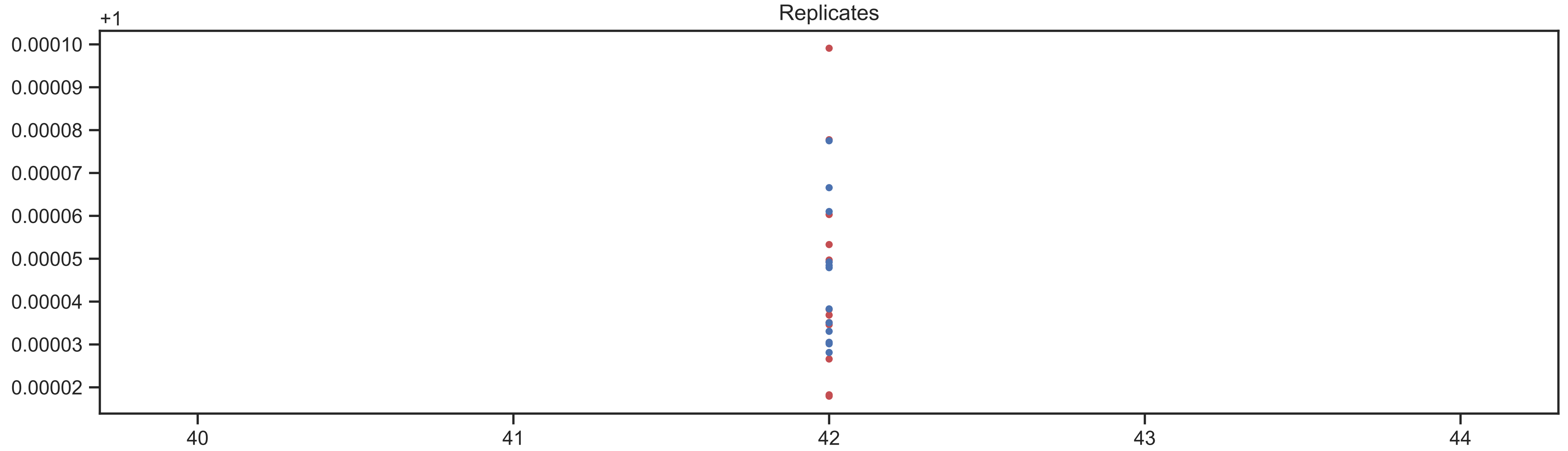




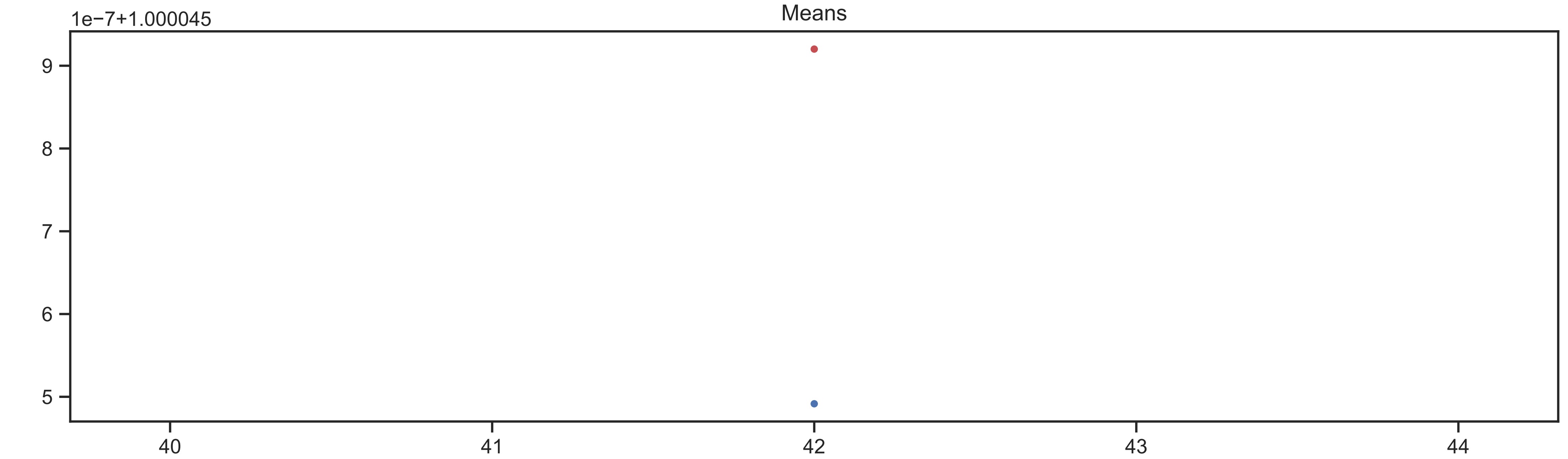
mRECIST: (0,10,4,0
kl: 1.4169346986264628
response_angle_rel: 0:-0.007023062349731919_1:0.0022273901025235557_2:0.006076999494565294 6_3:-0.0101698608850928 92_4:-0.00840221187191125_5:-0.0064126 30468_11:-0.002187021689185202_12:-0.0
response_angle_rel_control: 0:0.0010488538954043925_1:0.006630237654412536_2:0.0033299095614187963_3:0.0012532222272704492_4:0.0024630334593183645_5:0 276802621237_11:0.0027046202557640 84
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0_12:0_13:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
tgi: 3.1608503761846882
red = treatment, blue=control

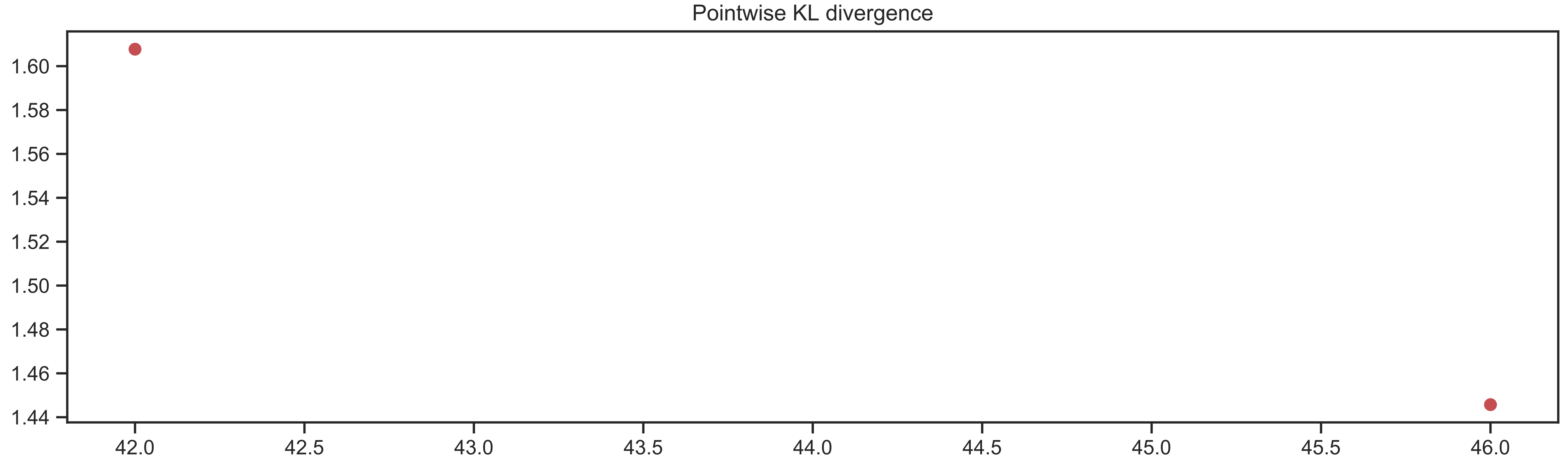


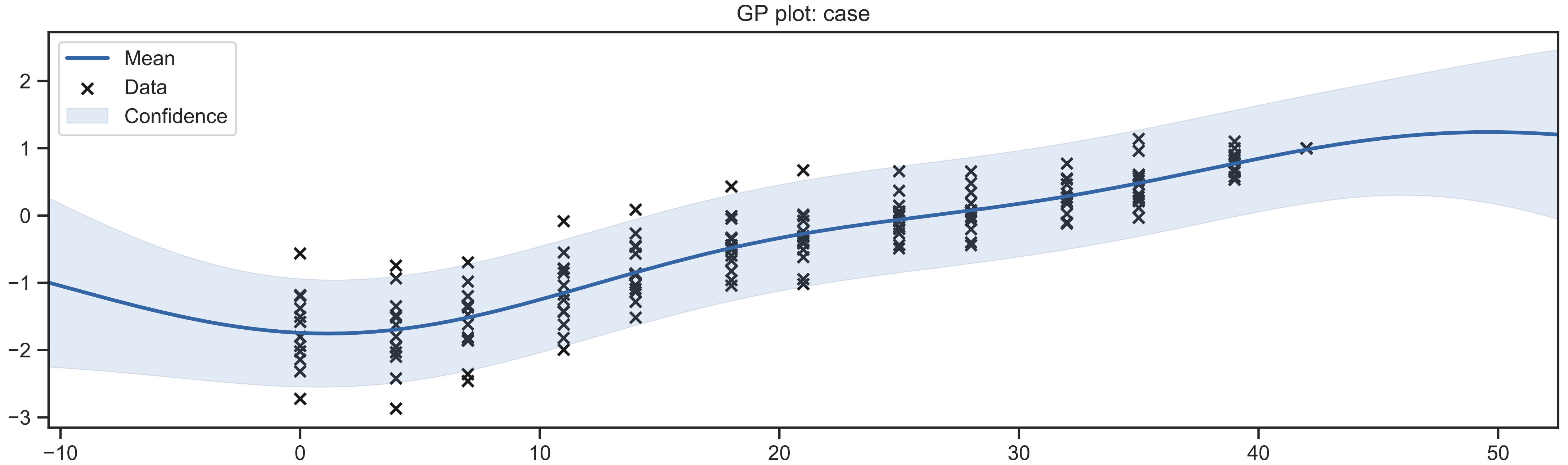
P42*C5

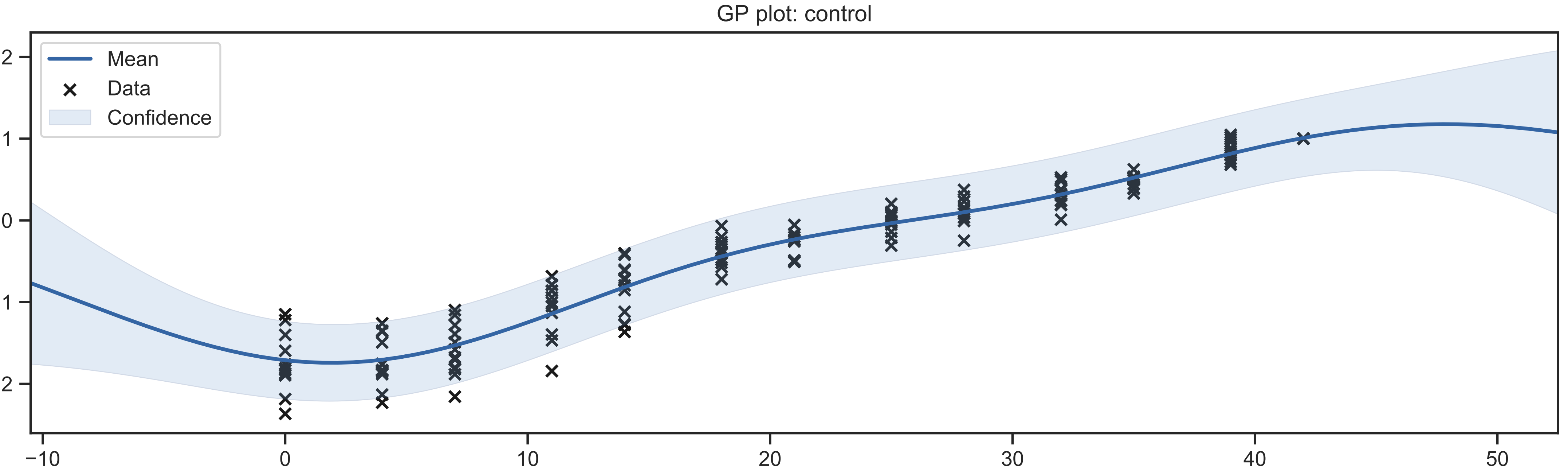


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: N

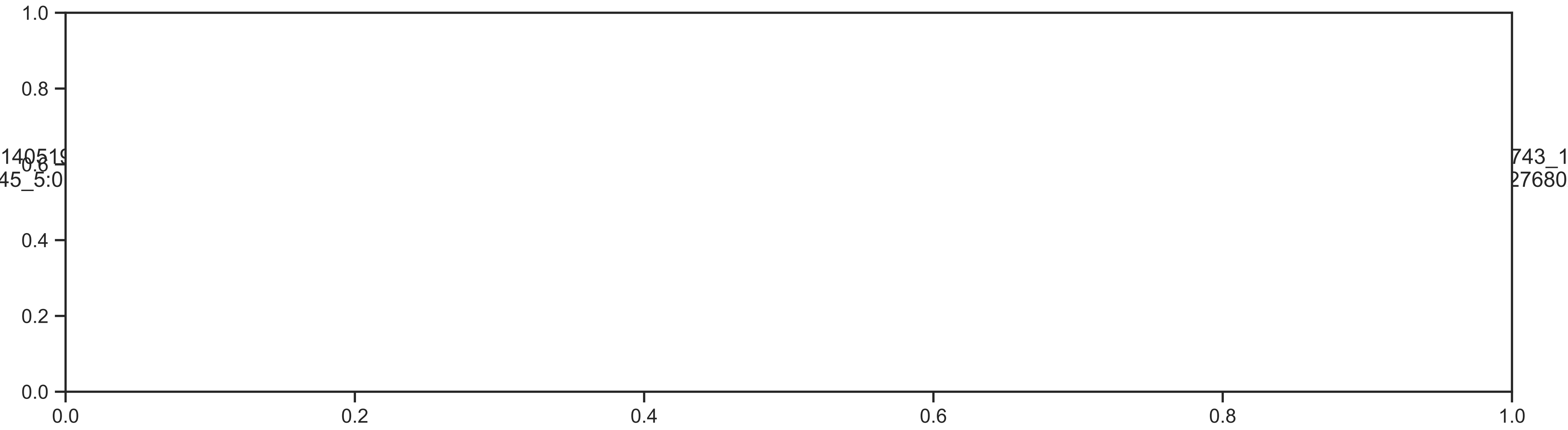




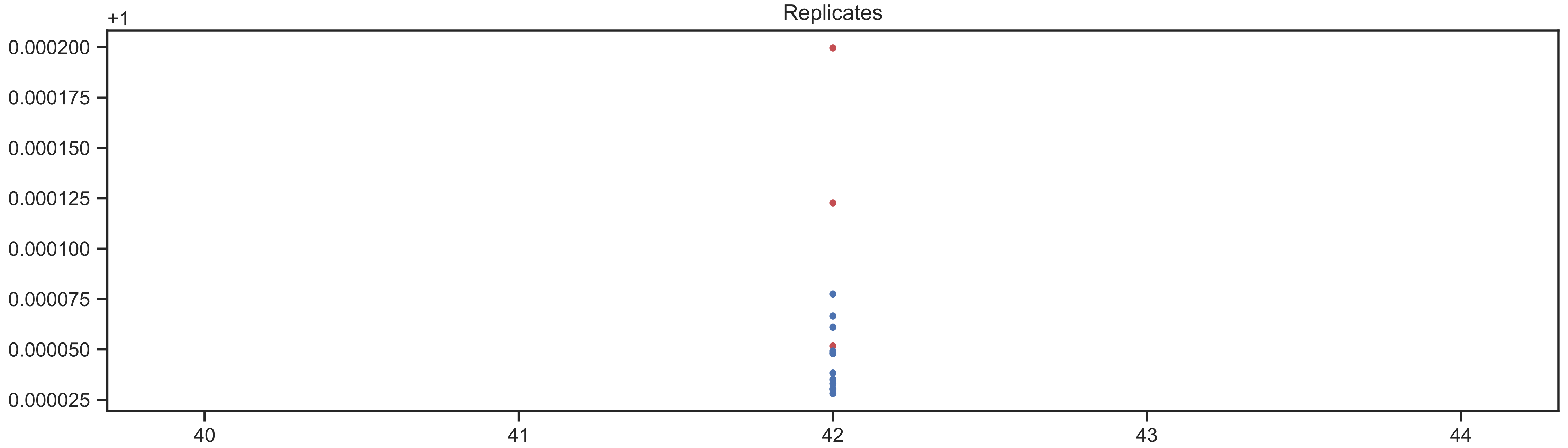




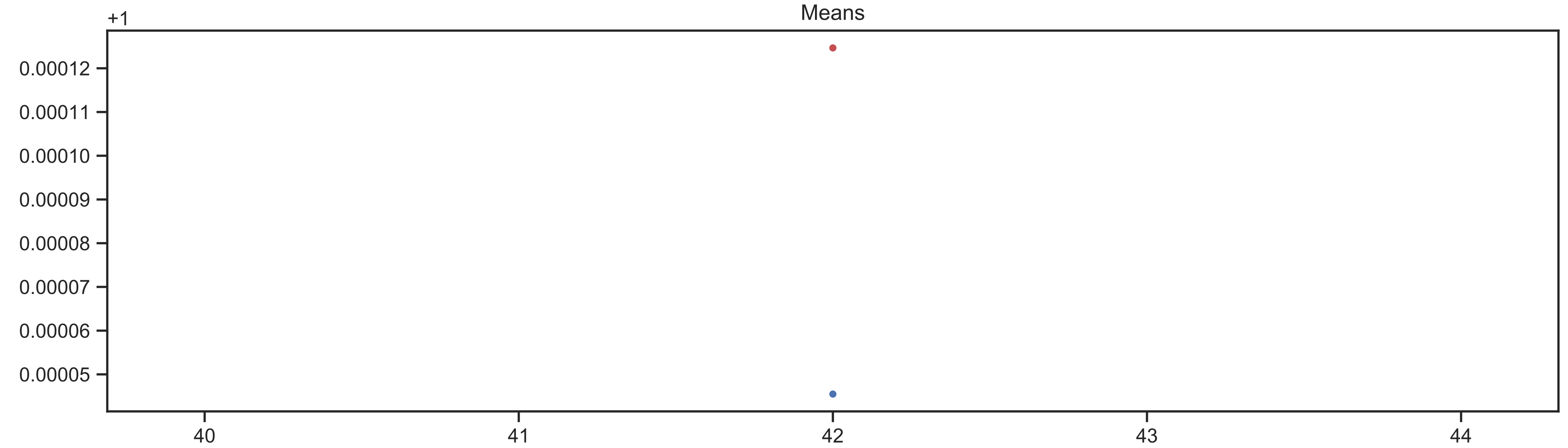
mRECIST: (13,0,0,0
kl: 0.5240524387414454
response_angle_rel: 0:-0.013777582287665657_1:-0.013243621265388137_2:-0.014269837041103925_3:-0.014105187005721302_4:-0.013430903093823441_5:-0.014051 743_11:-0.013928110417742291_12:-0.013
response_angle_rel_control: 0:0.0010488538954043925_1:0.006630237654412536_2:0.0033299095614187963_3:0.0012532222272704492_4:0.0024630334593183645_5:0 276802621237_11:0.002704620255764084
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0_12:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
tgi: -0.3333966808242803
red = treatment,   blue=control

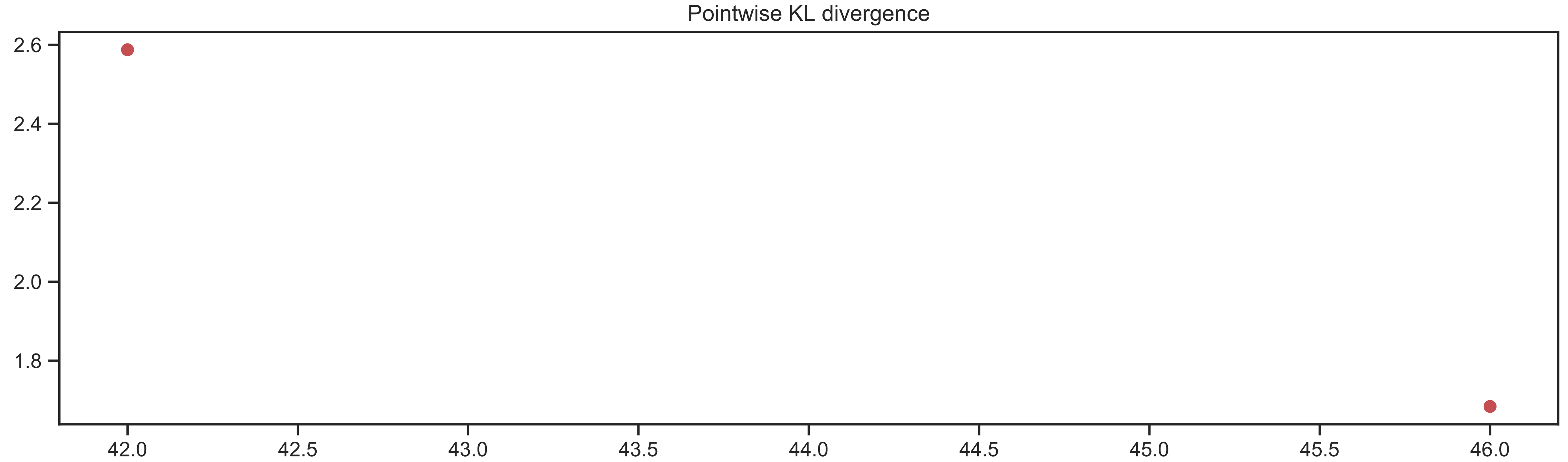


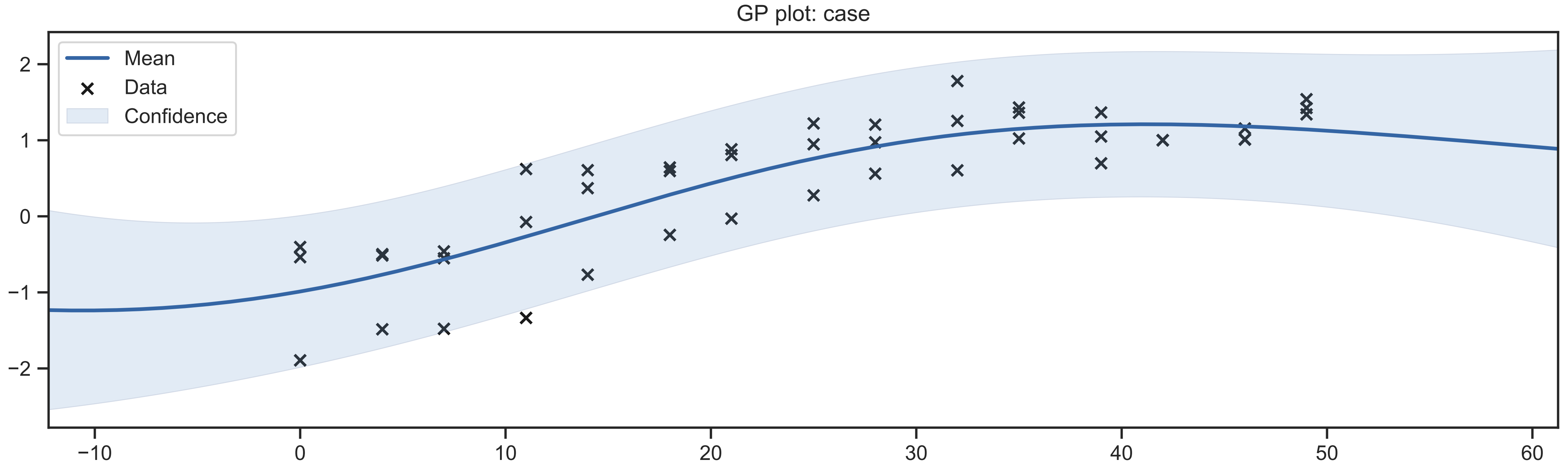
P42*C6

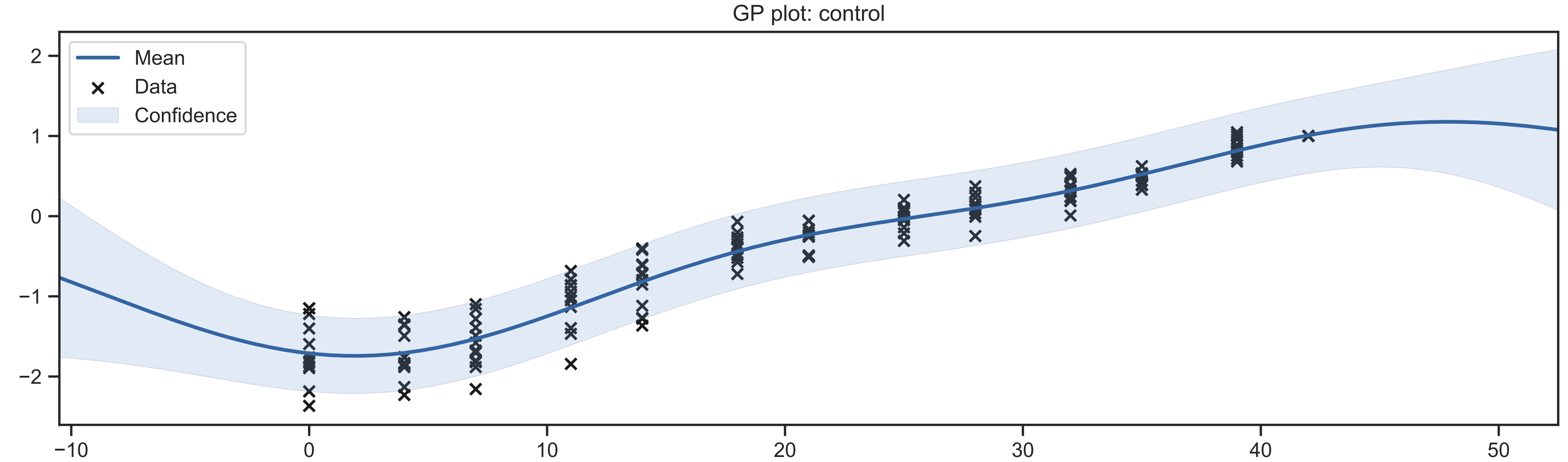


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: Y

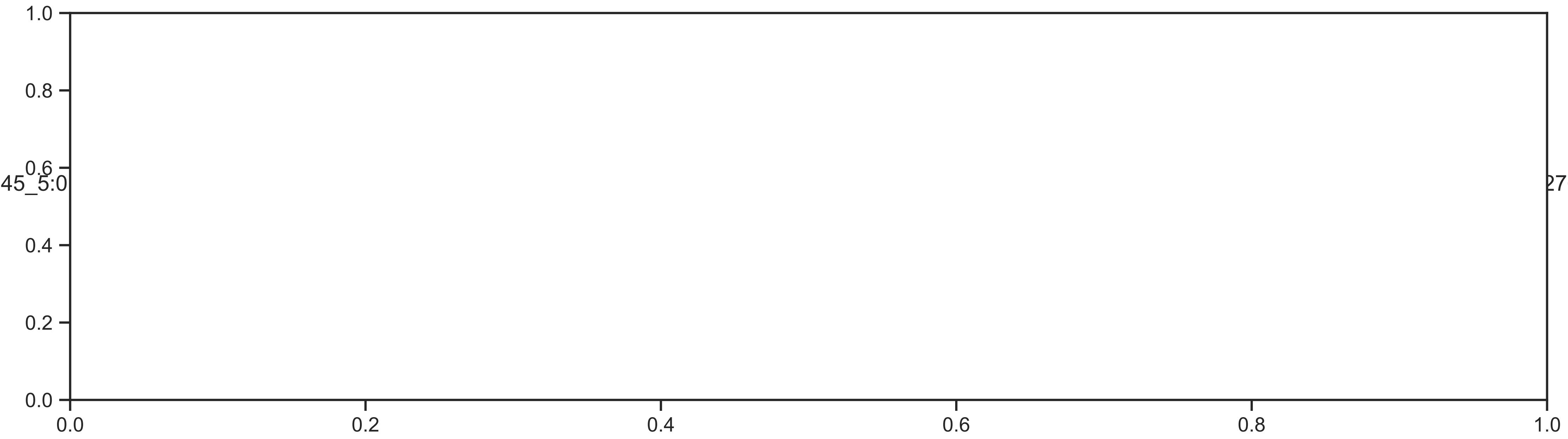




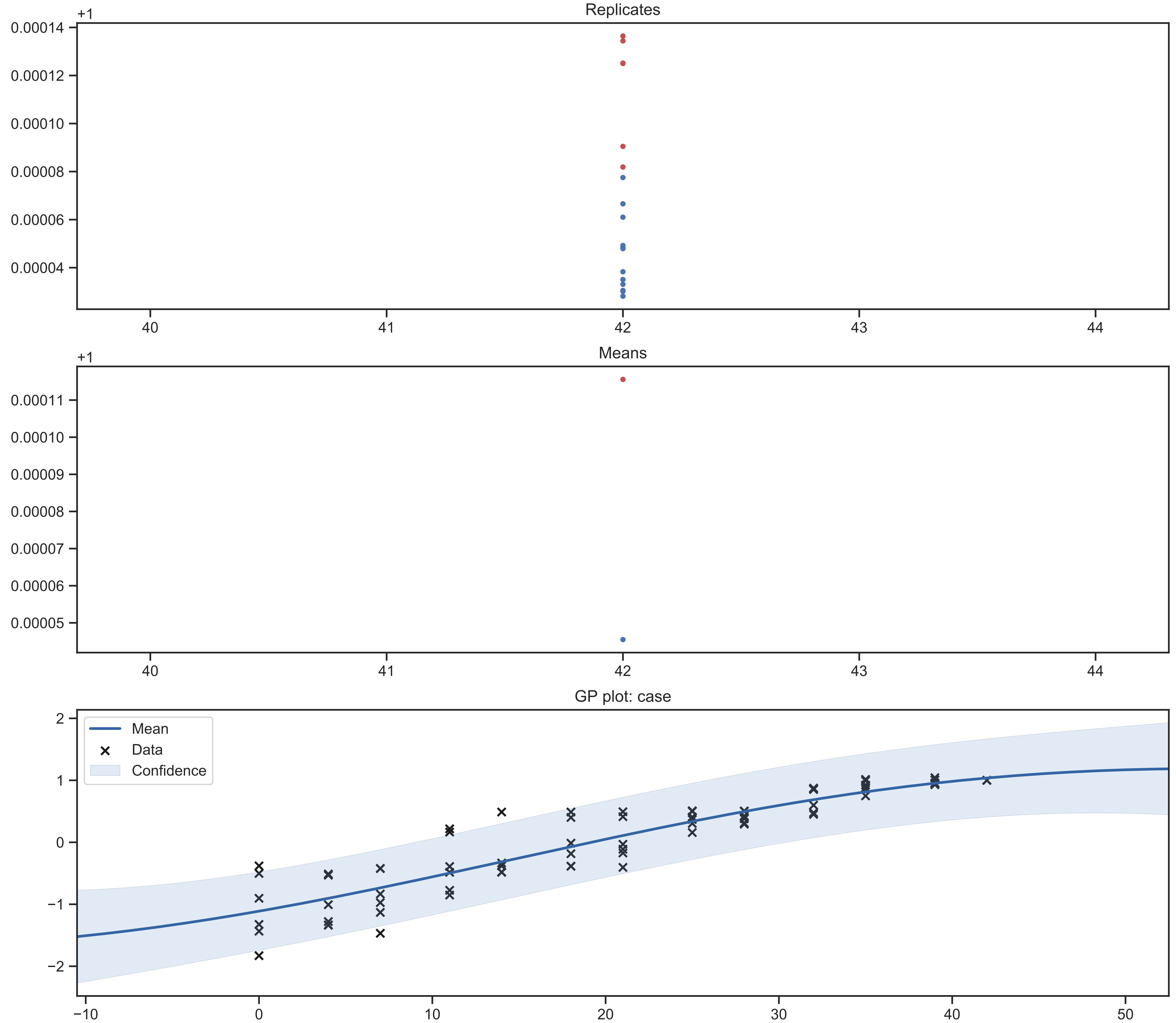




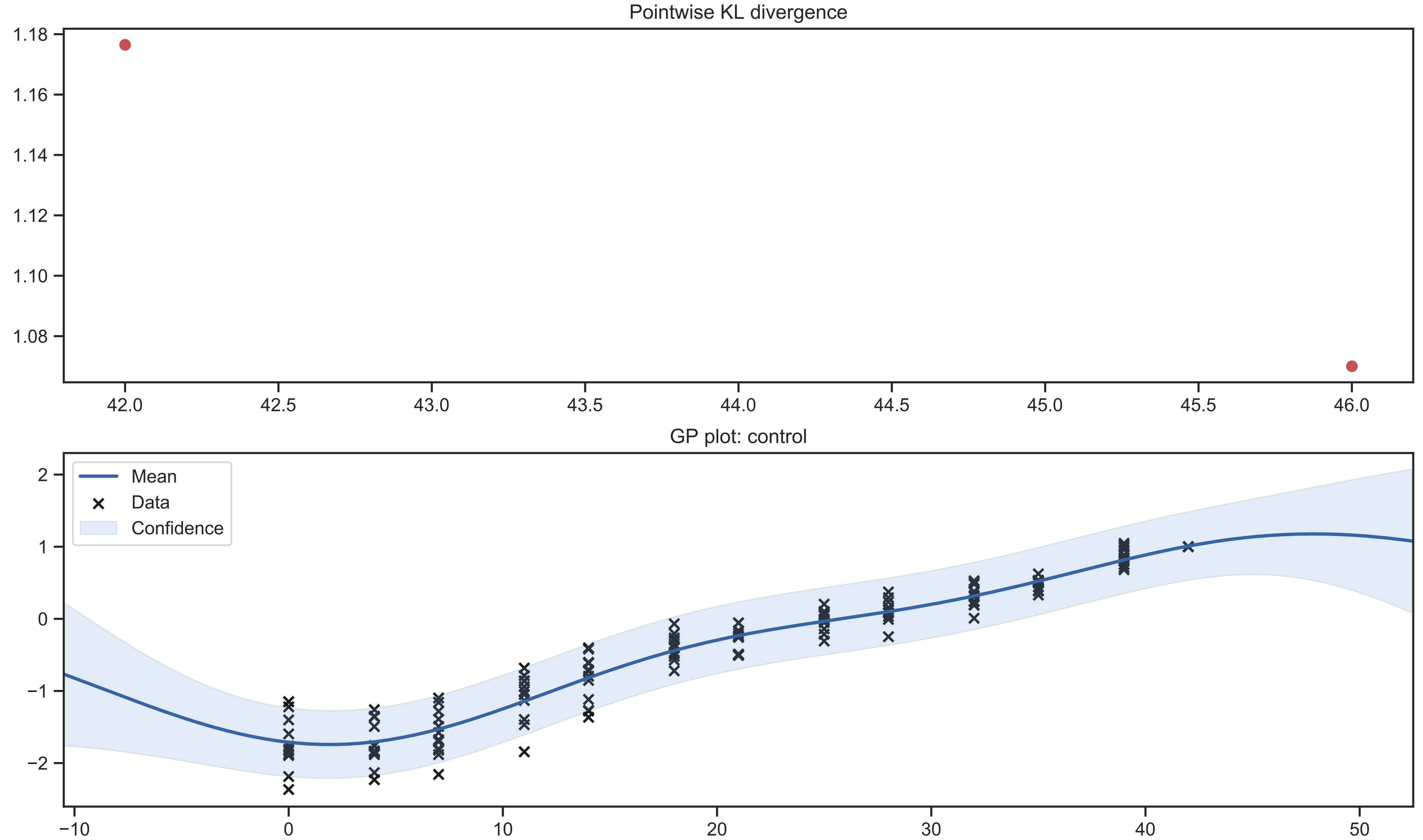
mRECIST: (1,2,0,0
kl: 0.983630010622176
response_angle_rel: 0:-0.0046878077165923016_1:-0.008096592113885536_2:-0.006654034374716923
response_angle_rel_control: 0:0.0010488538954043925_1:0.006630237654412536_2:0.0033299095614187963_3:0.0012532222272704492_4:0.0024630334593183645_5:0 276802621237_11:0.002704620255764084
auc_norm: 0:0_1:0_2:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
tgi: 0.6934861878990859
red = treatment,   blue=control

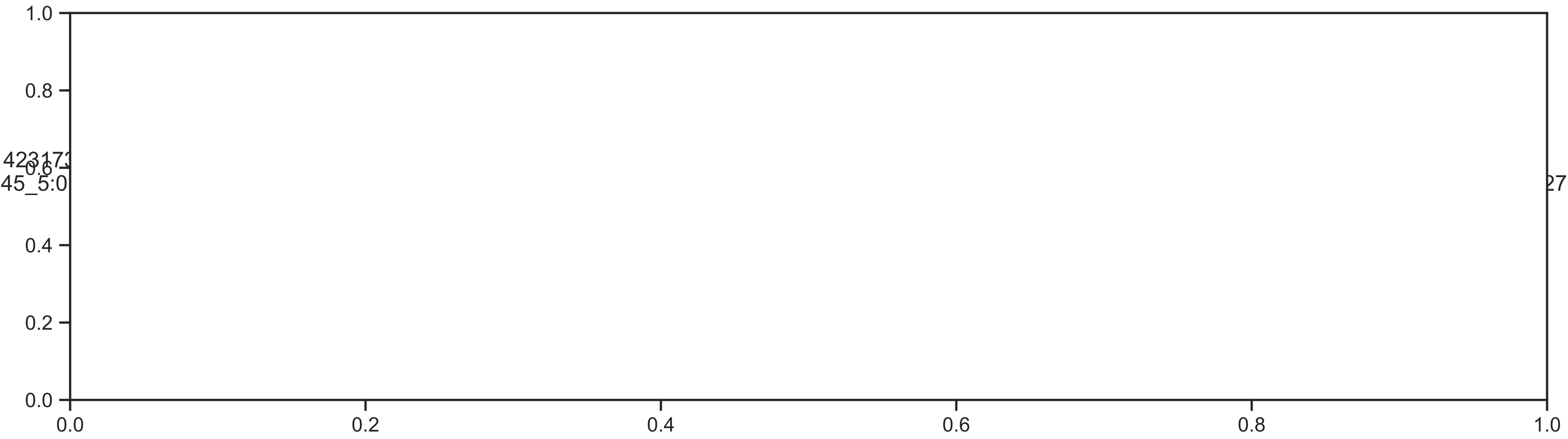


P42*C7



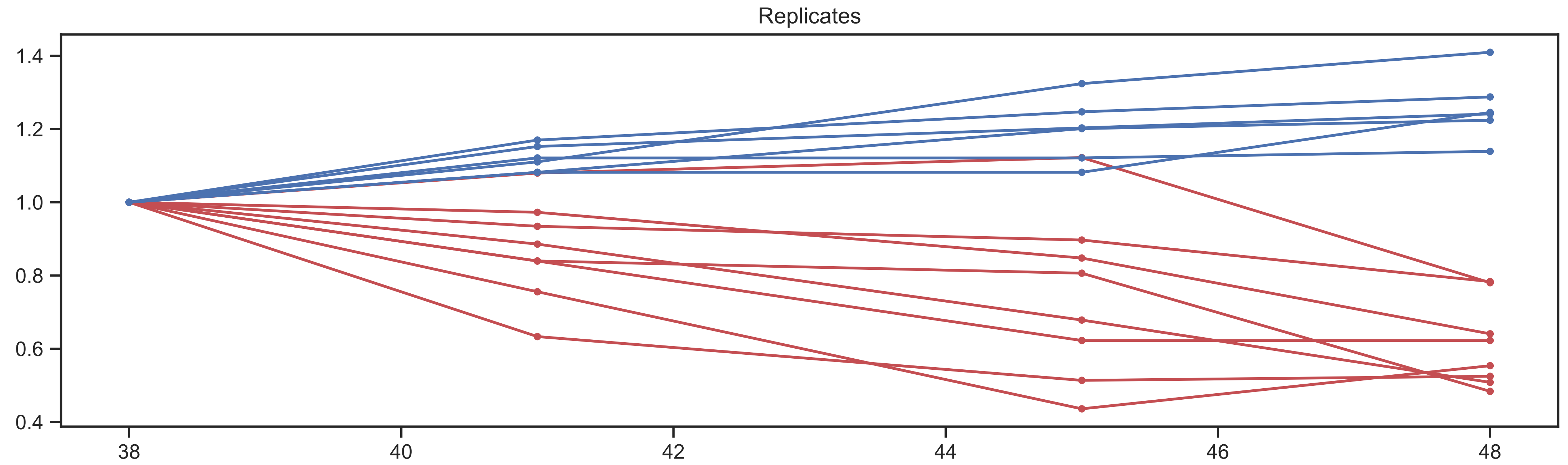
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: Y



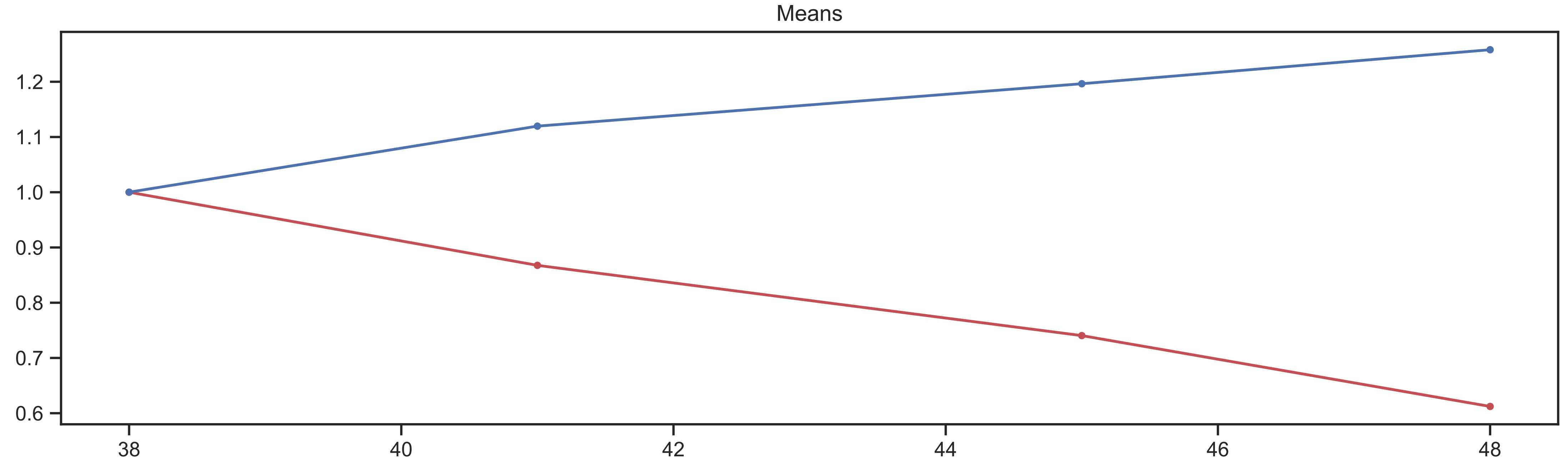


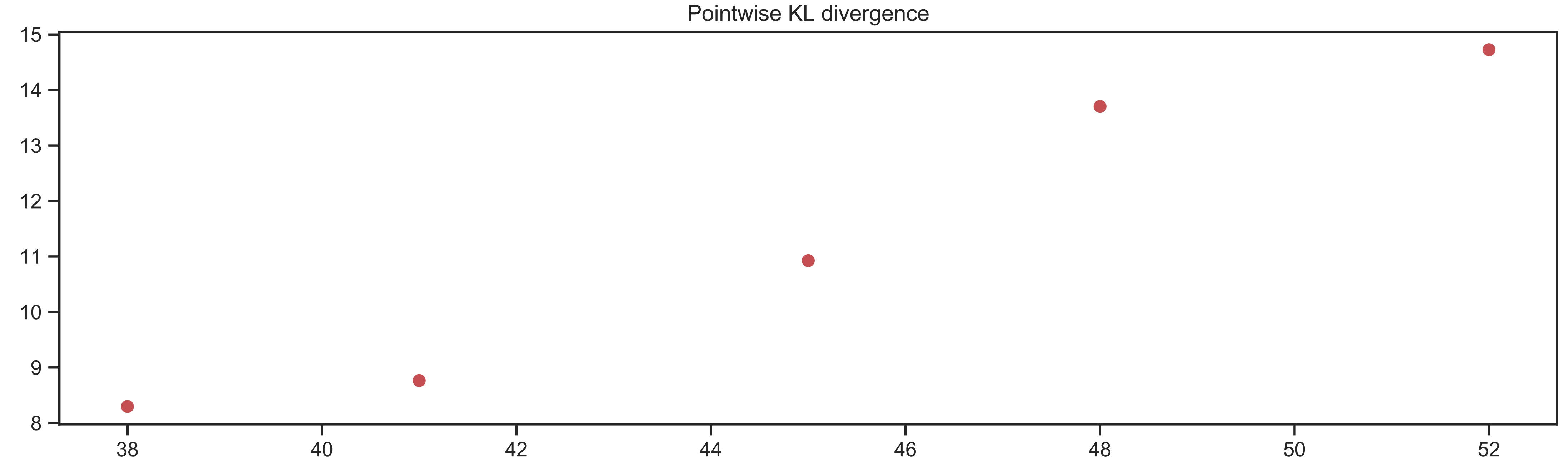
mRECIST: (6,0,0,0
kl: 0.1160490977239847
response_angle_rel: 0:-0.01409600573522076_1:-0.014209254198915484_2:-0.014038706195267594_3:-0.014358636876778614_4:-0.014408631538774452_5:-0.0142317
response_angle_rel_control: 0:0.0010488538954043925_1:0.006630237654412536_2:0.0033299095614187963_3:0.0012532222272704492_4:0.0024630334593183645_5:0 276802621237_11:0.00270462025576408
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0
tgi: 0.6809688527790757
red = treatment, blue=control

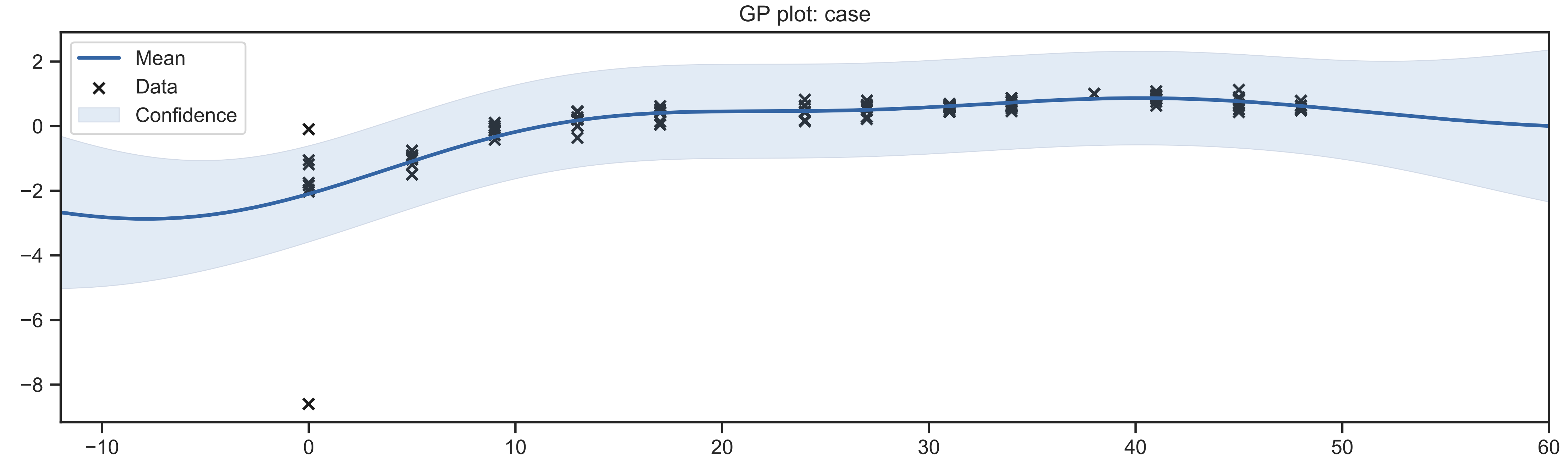
P43*C1

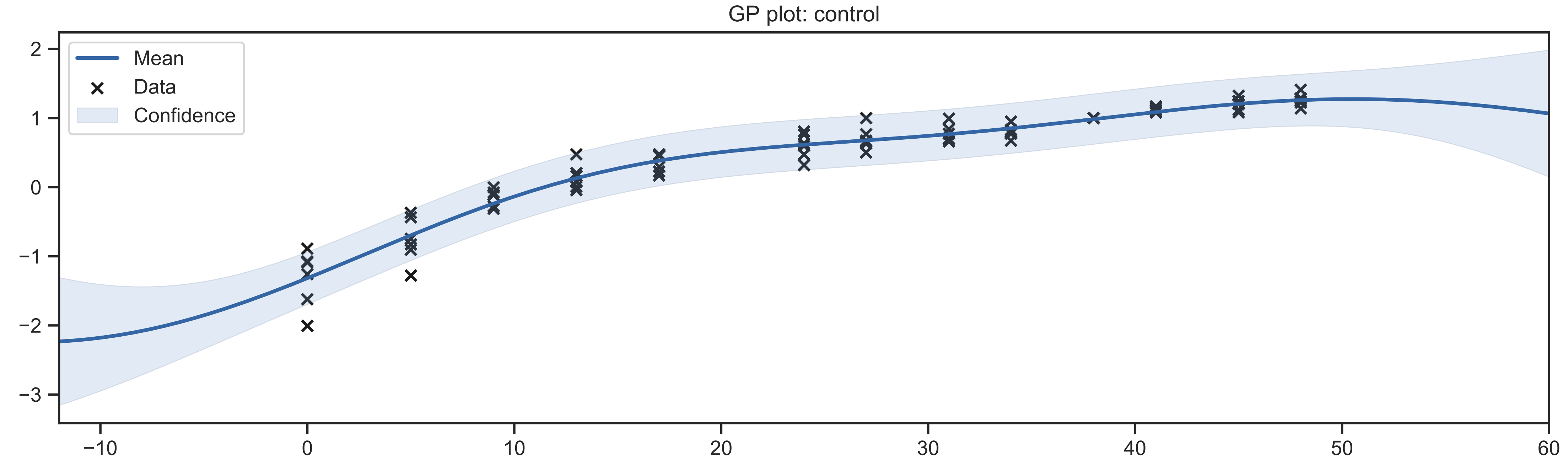


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

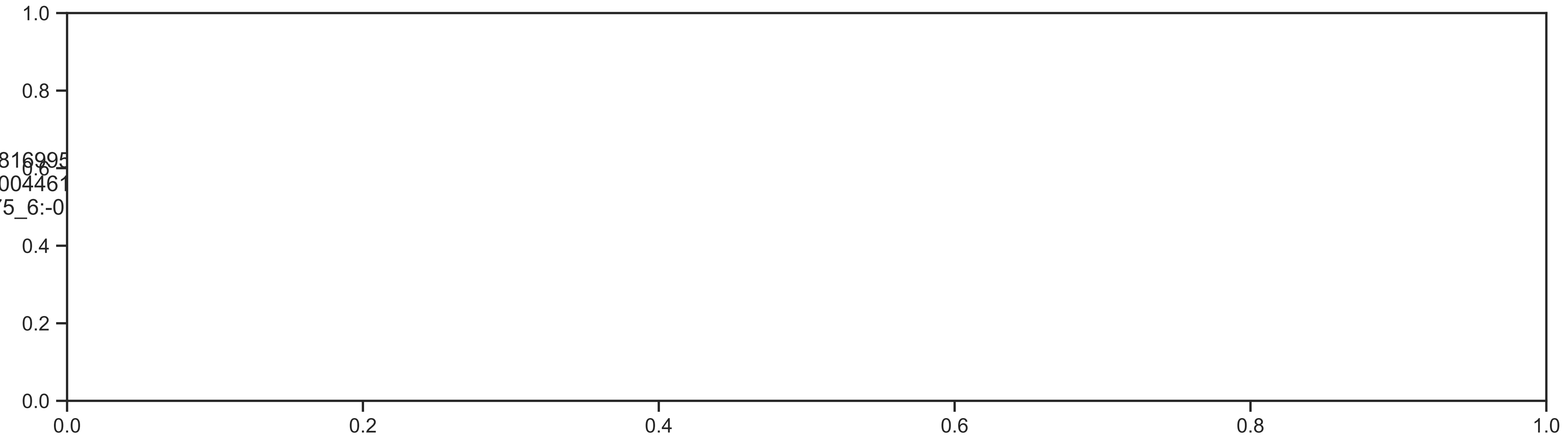




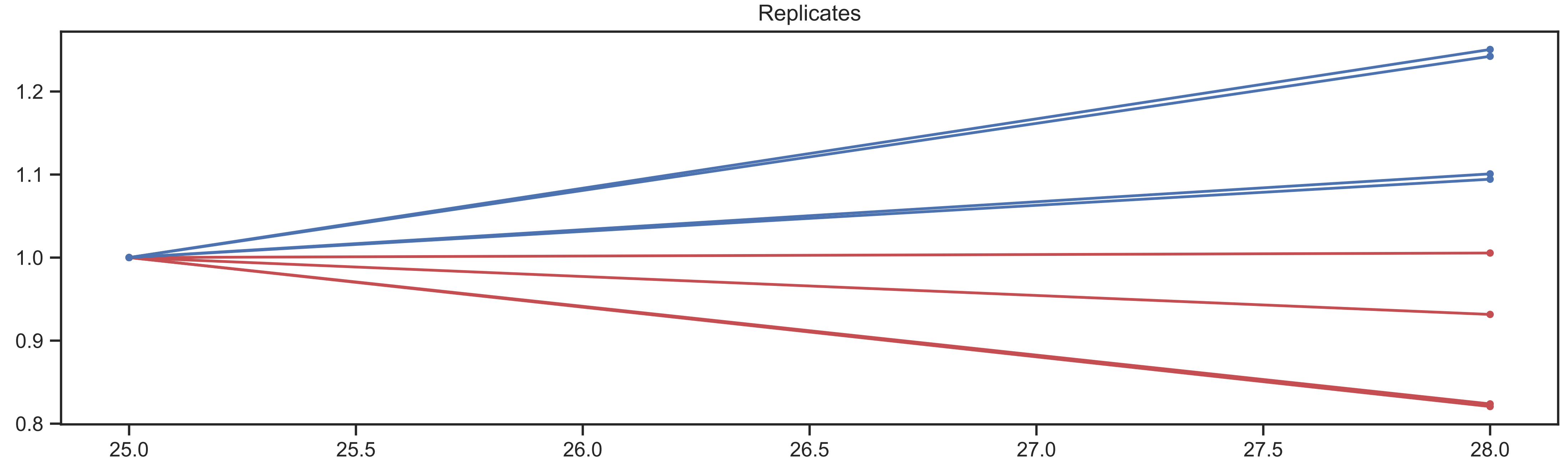




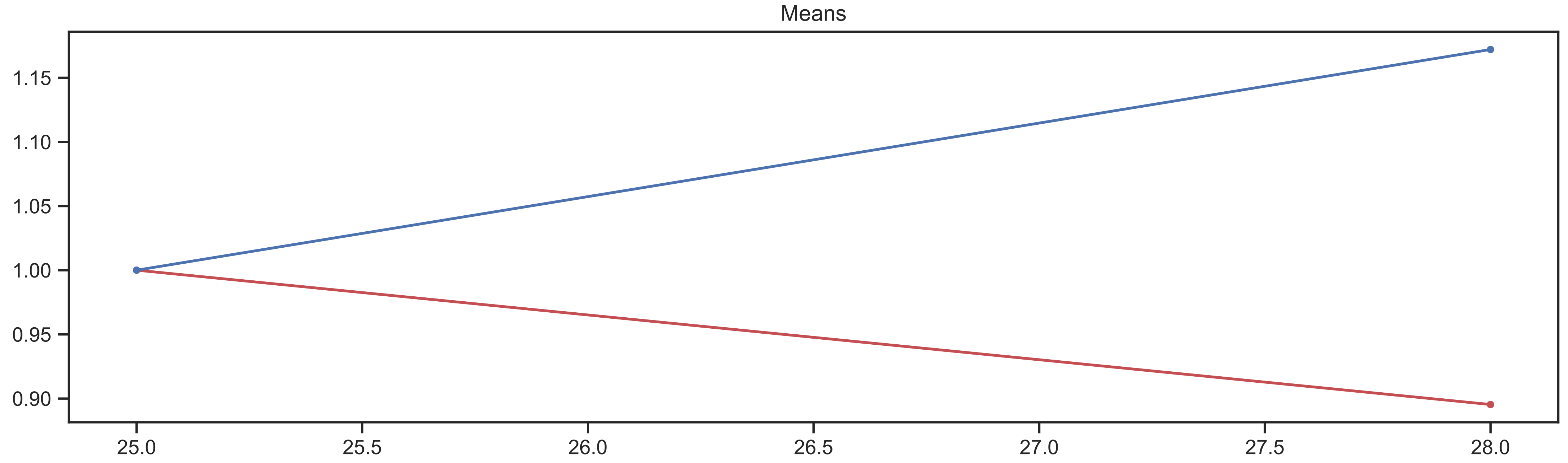
mRECIST: (5,1,2,0
kl: 10.416054548702816
response_angle_rel: 0:-0.01178397713455159_1:-0.009687225010878832_2:-0.006130665697669911_3:0.004893089115322713_4:-0.010353516772113651_5:0.00181699
response_angle_rel_control: 0:0.002627647165366722_1:0.006618634278009529_2:0.00572444205750746_3:0.007722073085760614_4:0.00569159327614063_5:0.004461
auc_norm: 0:-0.076757657419019_1:-0.10775075122785663_2:-0.06904617791852892_3:-0.14662428366723929_4:-0.16933734838603273_5:-0.14844483743587475_6:-0
auc_control_norm: 0:[0.04632065]_1:[0.07623645]_2:[0.08945472]_3:[0.11875315]_4:[0.0647659]_5:[0.08182478]
tgi: 1.8645366702196942
red = treatment,   blue=control

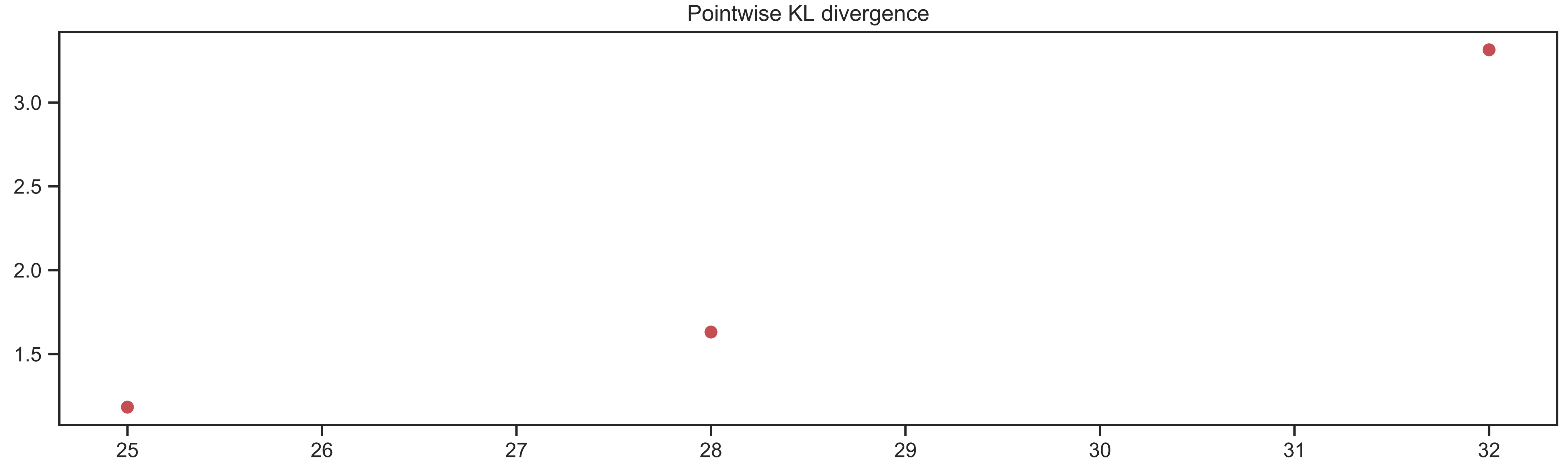


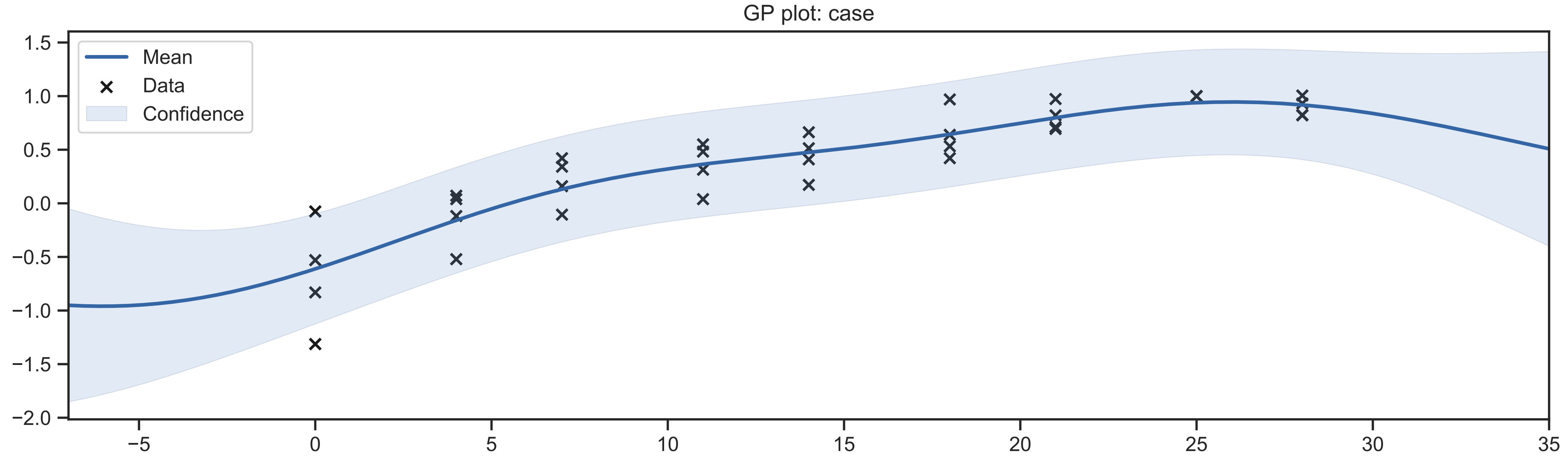
P44*C1

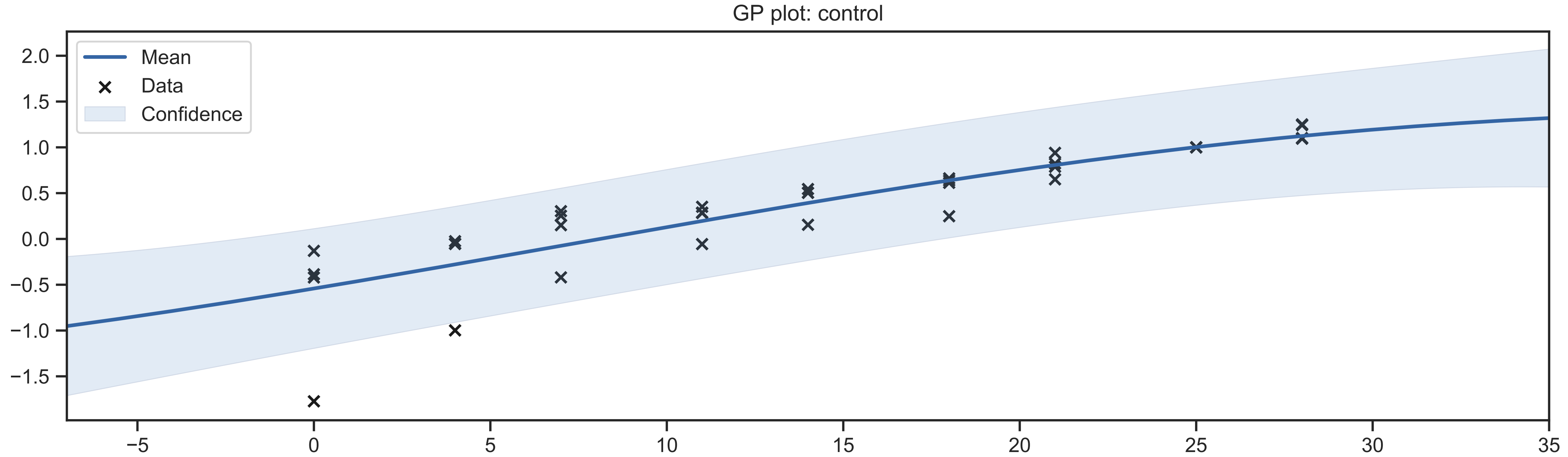

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: Y
TGI: Y

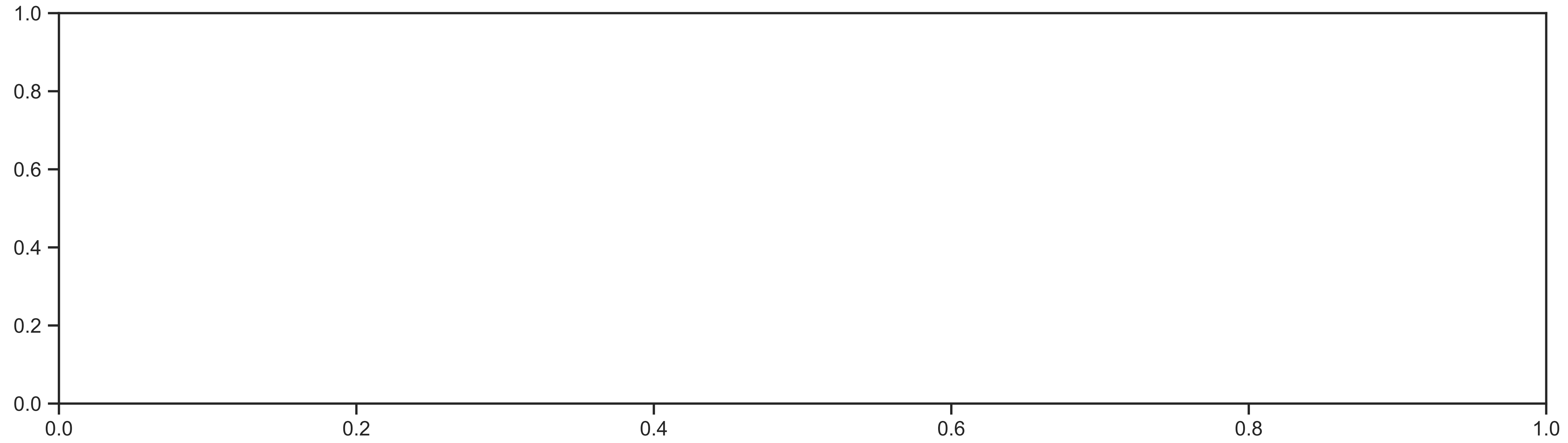

Means


Pointwise KL divergence

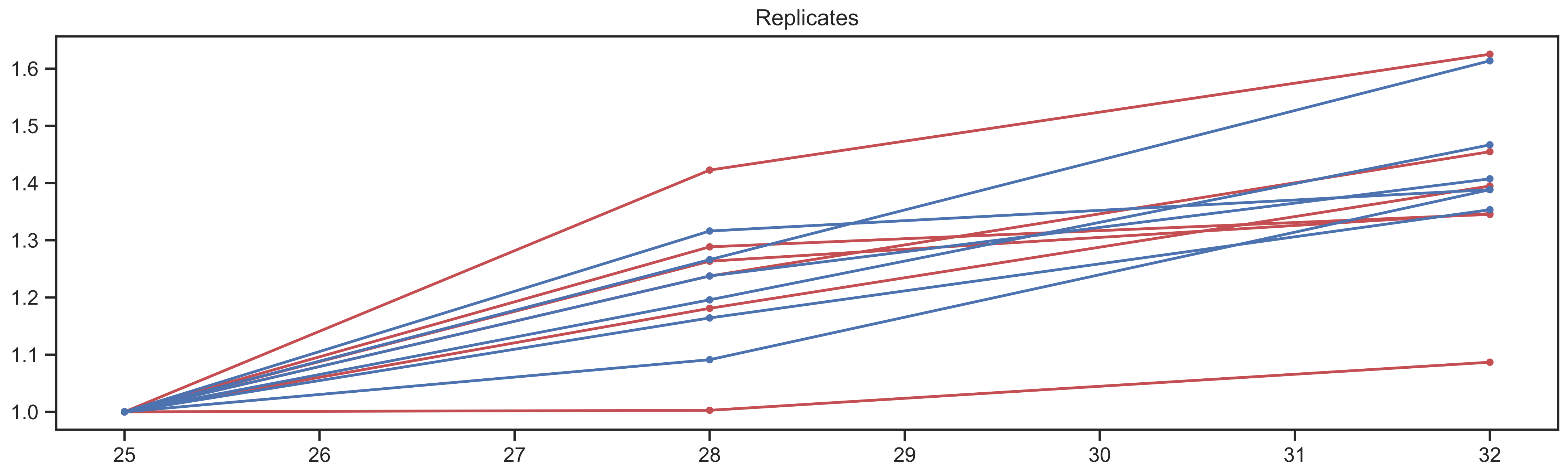

GP plot: case


GP plot: control

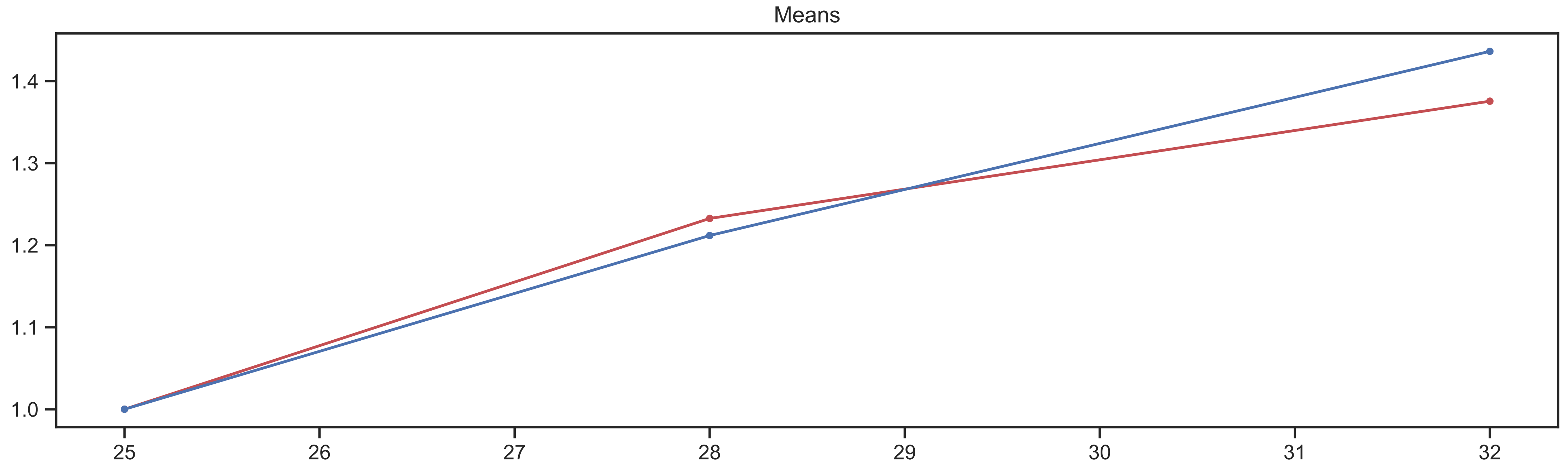
mRECIST: (2,0,2,0
kl: 0.946036380149153
response_angle_rel: 0:-0.018116465420693374_1:-0.017831408798984618_2:0.017505534557177384_3:0.008885367810353009
response_angle_rel_control: 0:0.008706189924208194_1:0.006621536570899028_2:0.014434361835004933_3:0.008381593800156621
auc_norm: 0:-0.02283700027331174_1:0.0018163188707701246_2:-0.05874934683771801_3:-0.059812994157874444
auc_control_norm: 0:[0.0807749]_1:[0.03359578]_2:[0.08351619]_3:[0.03143219]
tgi: 1.212039181125666
red = treatment,   blue=control

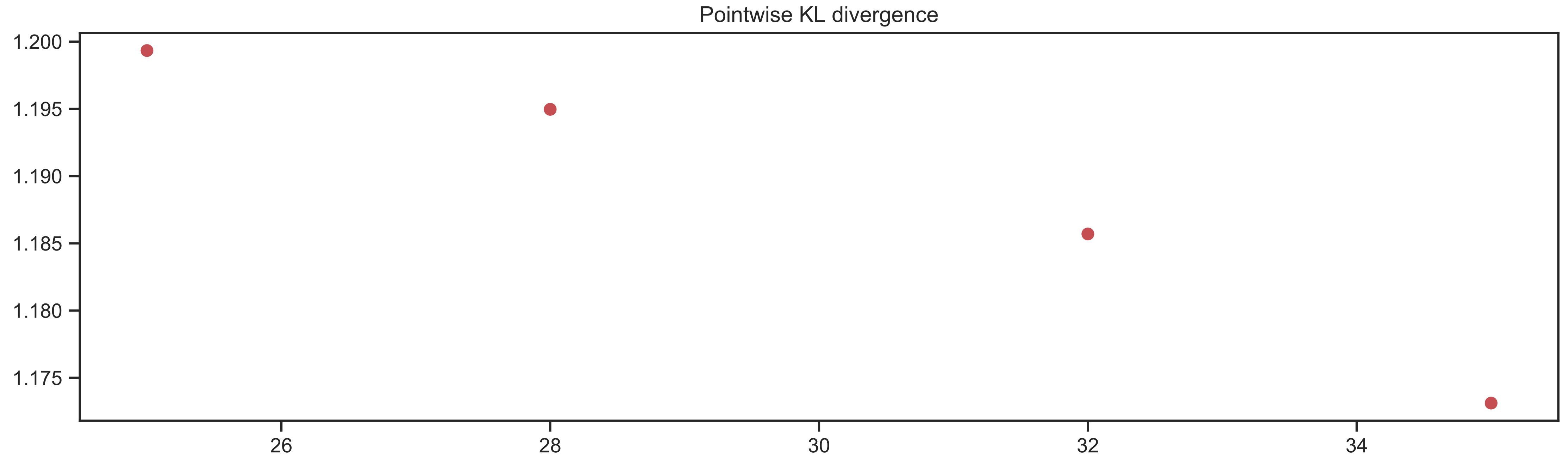


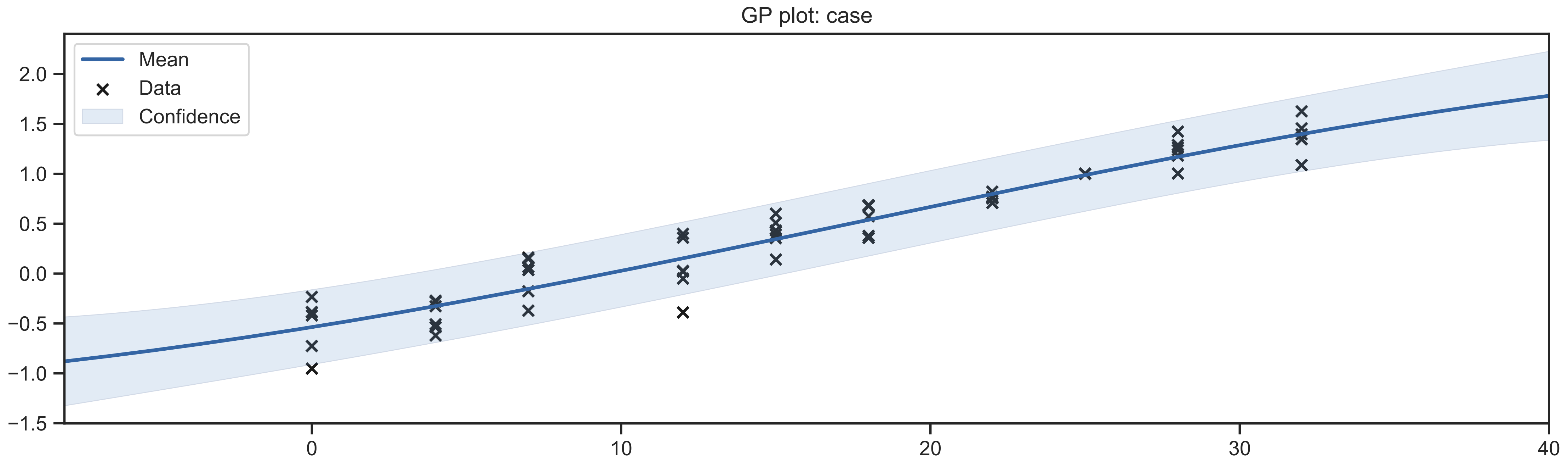
P45*C1

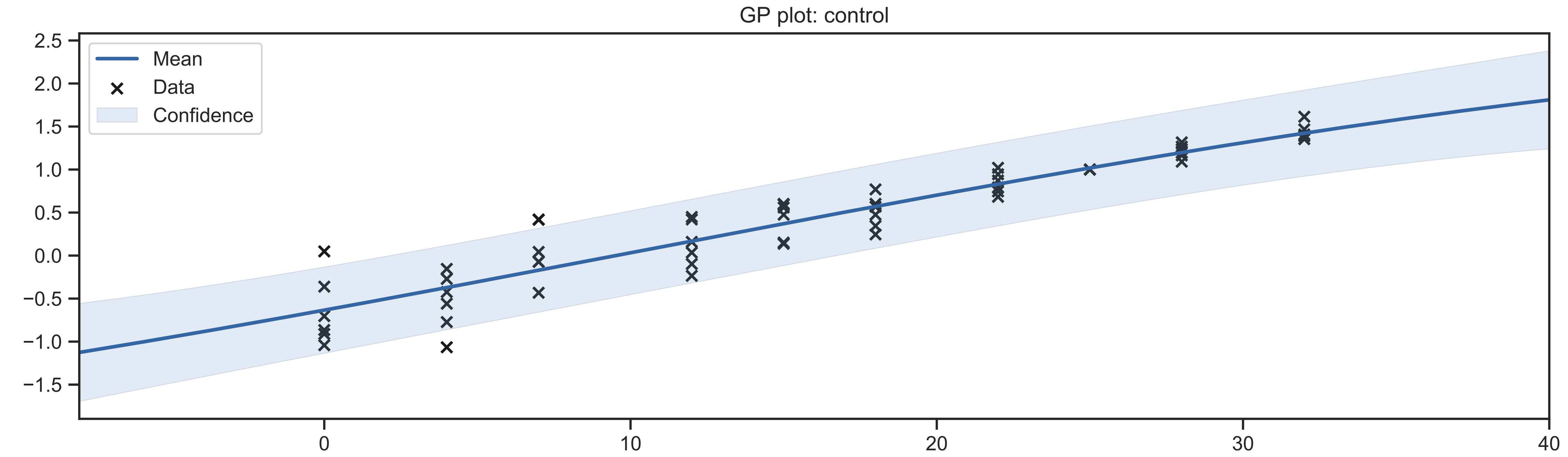


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

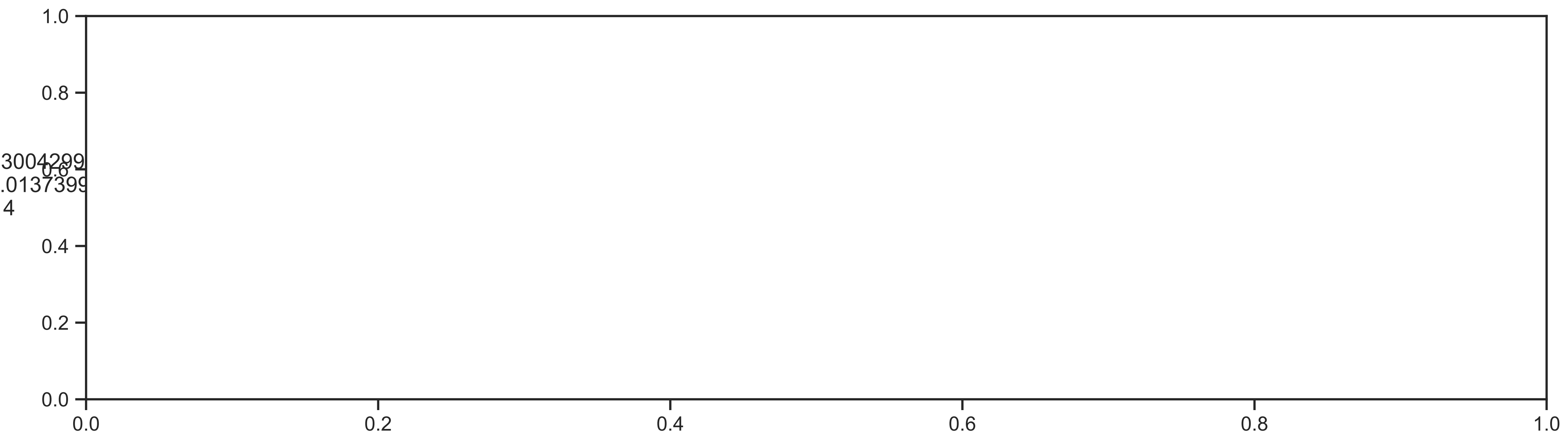




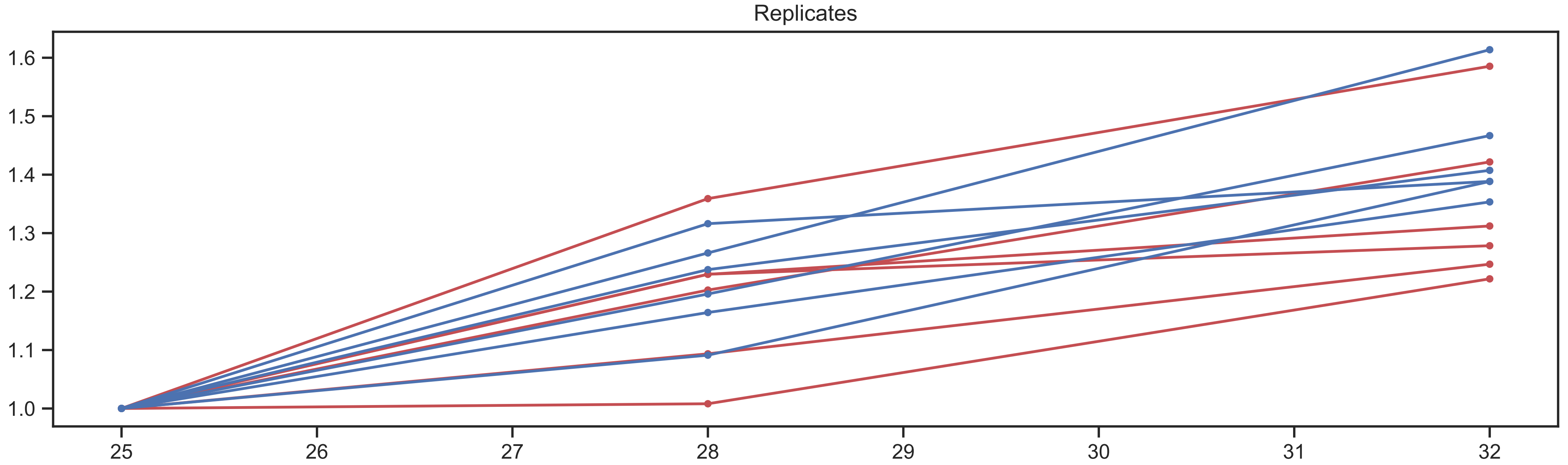




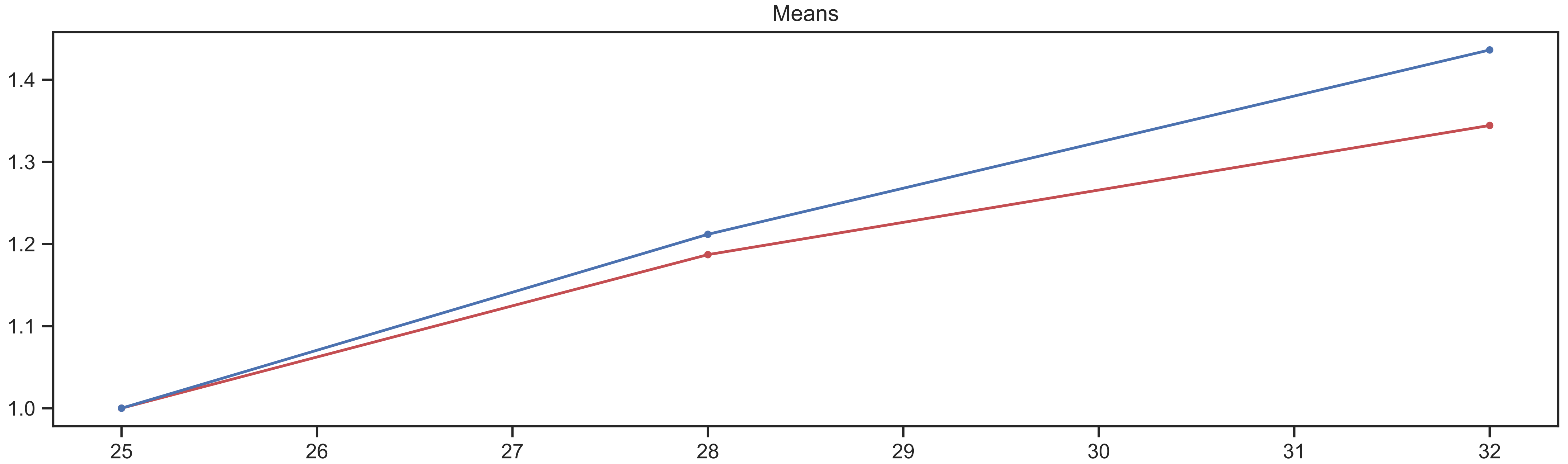
mRECIST: (0,0,3,3
kl: 0.18949351697883
response_angle_rel: 0:0.01165886982599911_1:0.024018879155641562_2:0.011281317321414333_3:0.012837773182361883_4:0.0020250343901989268_5:0.0143004299
response_angle_rel_control: 0:0.02068885953557578_1:0.014525358513016982_2:0.015716822636300642_3:0.01180698946323919_4:0.02104583754085303_5:0.0137399
auc_norm: 0:0.11030652896235182_1:0.19150753319842975_2:0.10859597683729881_3:0.11377170097111444_4:0.021911607129223427_5:0.1334696180504814
auc_control_norm: 0:[0.13300149]_1:[0.1234281]_2:[0.12161309]_3:[0.10201524]_4:[0.17558934]_5:[0.1046738]
tgi: 0.2805690391155714
red = treatment, blue=control

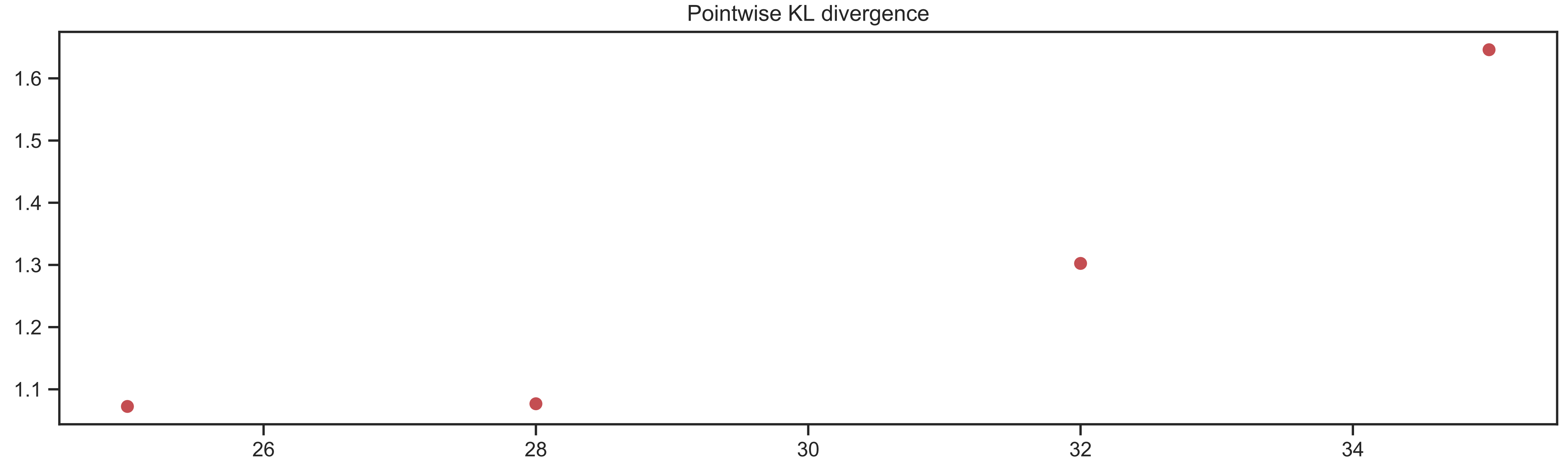


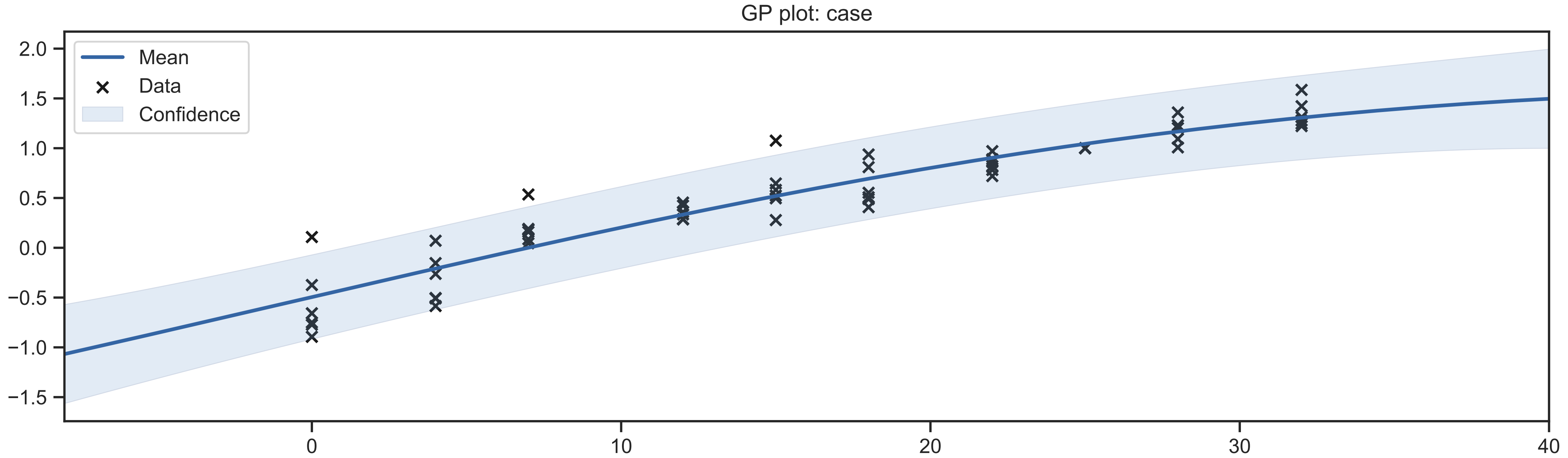
P45*C2

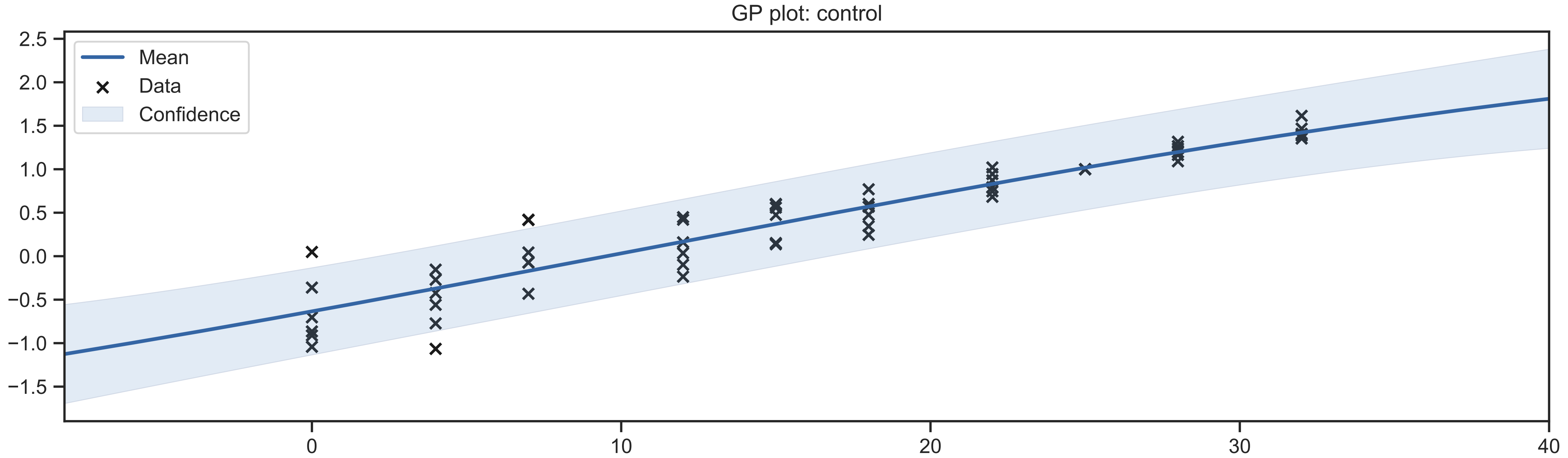


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N

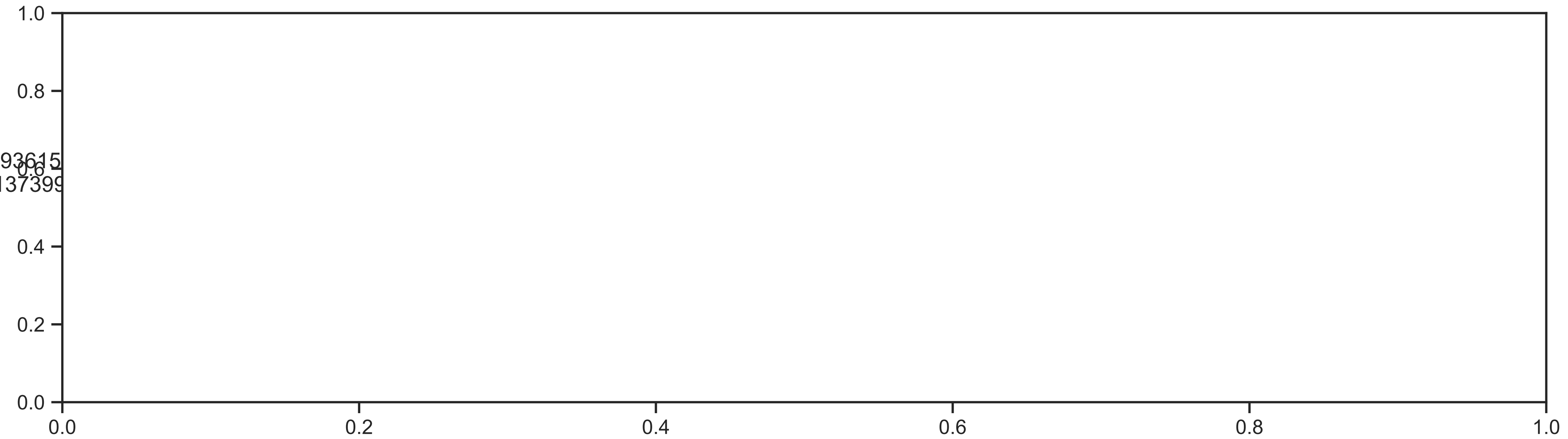




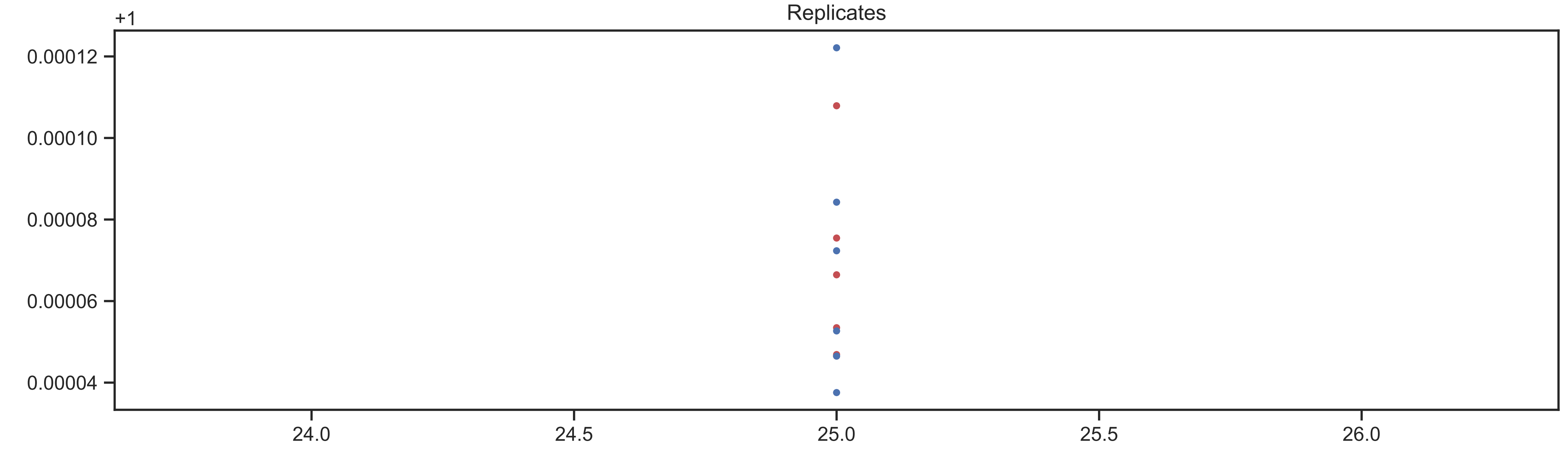




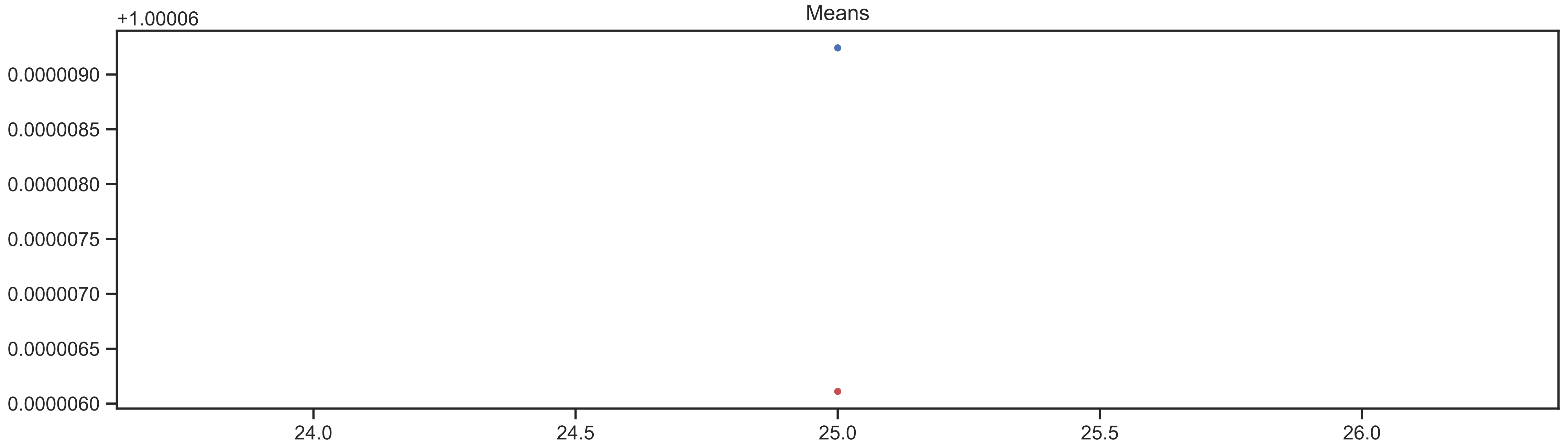
mRECIST: (0,0,5,1
kl: 0.2249688641522842
response_angle_rel: 0:0.010996407124584225_1:0.010263367228293704_2:0.007963992883185174_3:0.013287317546999243_4:0.02191343064715037_5:0.00525093615
response_angle_rel_control: 0:0.02068885953557578_1:0.014525358513016982_2:0.015716822636300642_3:0.01180698946323919_4:0.02104583754085303_5:0.013739
auc_norm: 0:0.09715773899080053_1:0.08871679021507718_2:0.06948620044876325_3:0.12230918536289515_4:0.17624140031292634_5:0.05610637345903421
auc_control_norm: 0:[0.13300149]_1:[0.1234281]_2:[0.12161309]_3:[0.10201524]_4:[0.17558934]_5:[0.1046738]
tgi: 0.28395260841833325
red = treatment,   blue=control

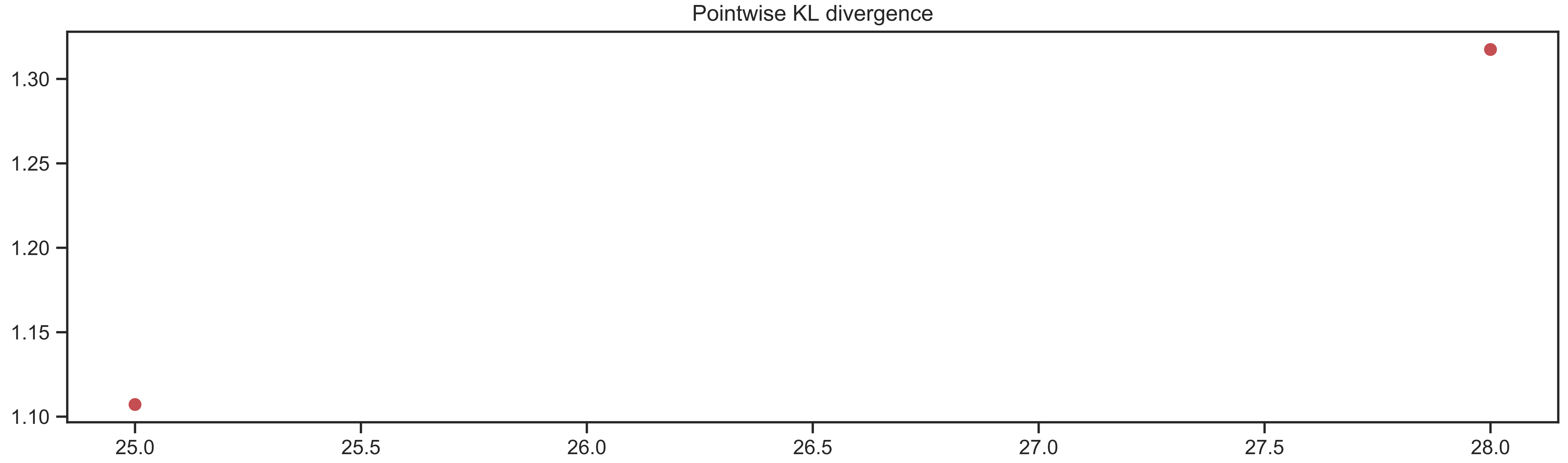


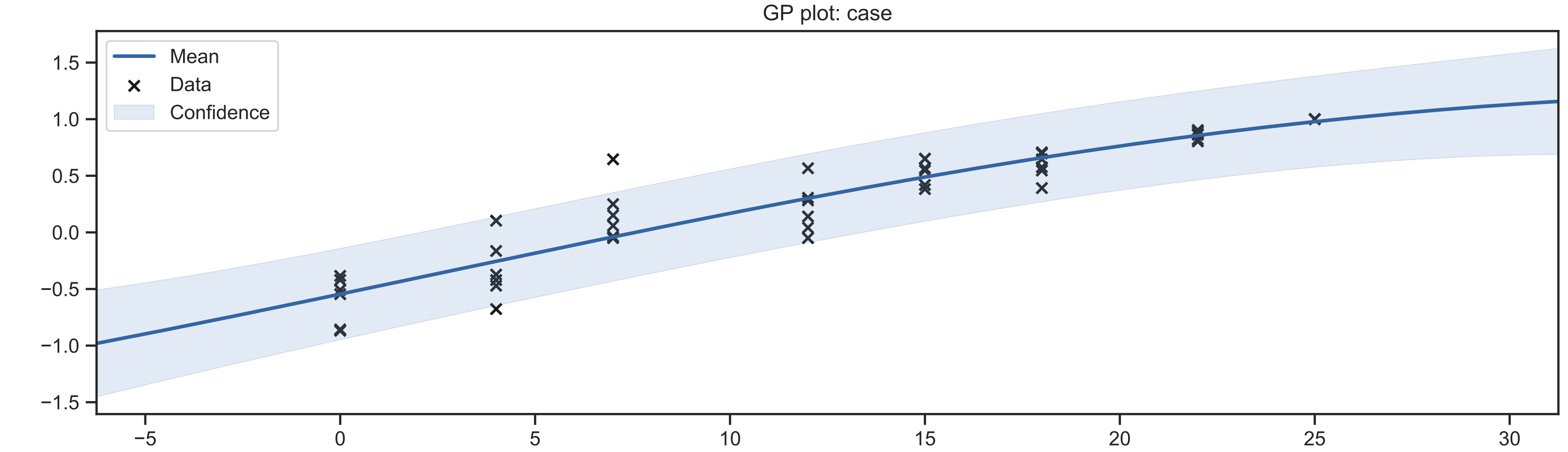
P45*C3

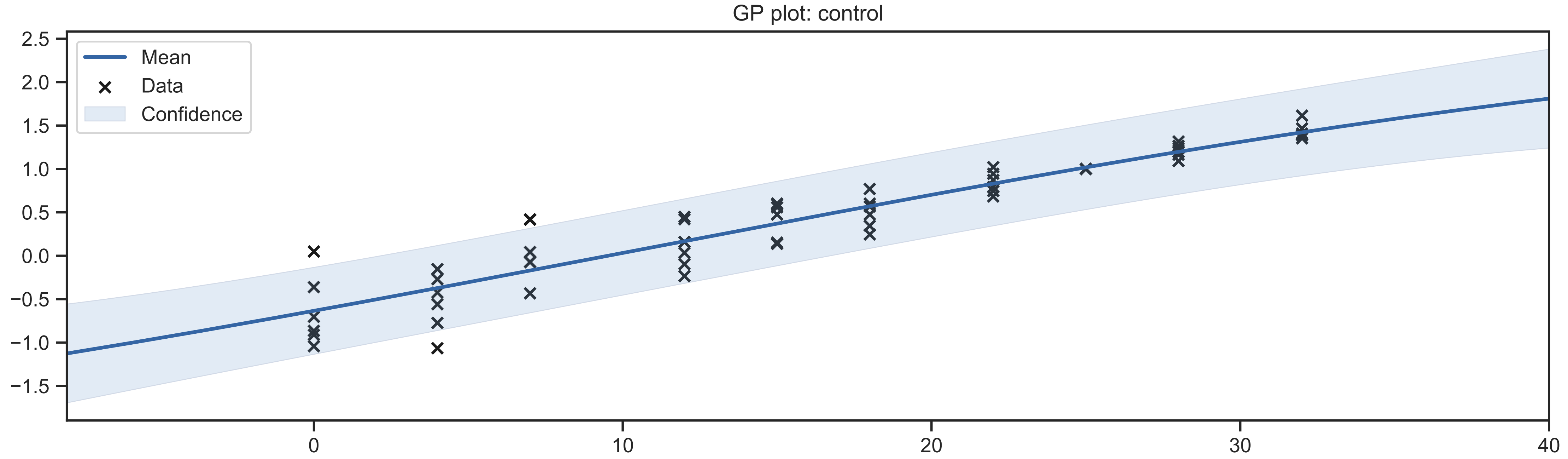


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: N

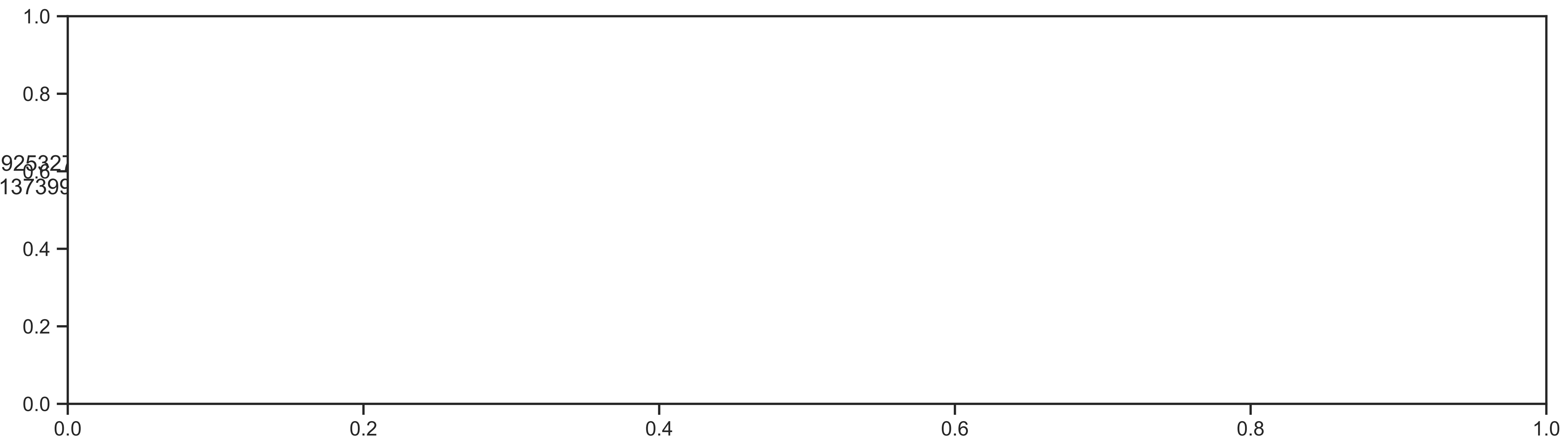




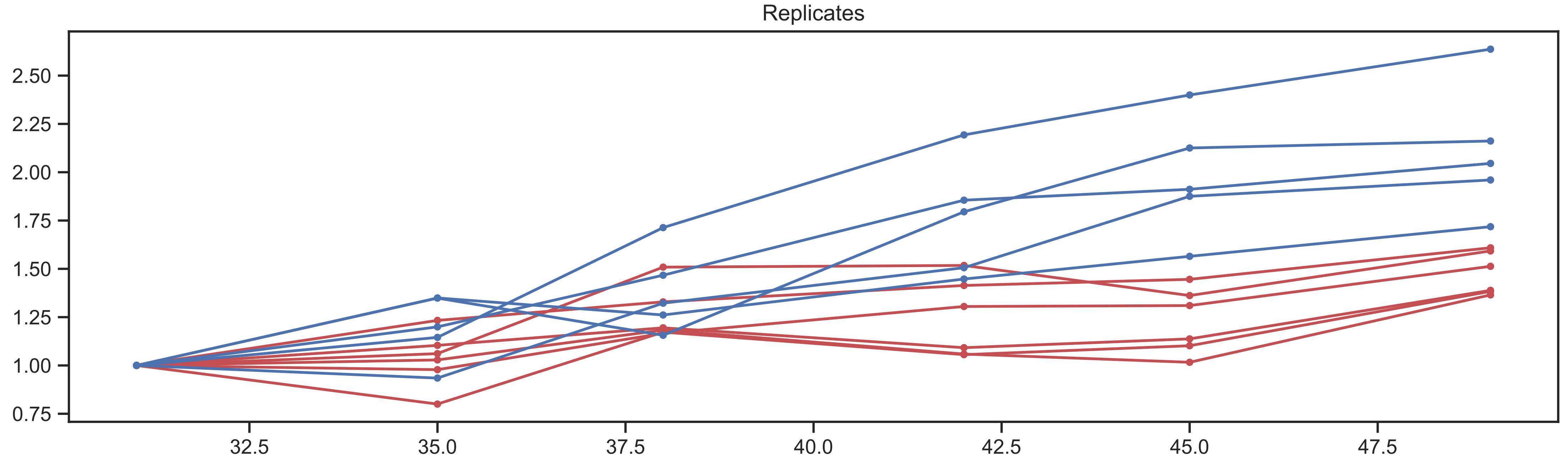




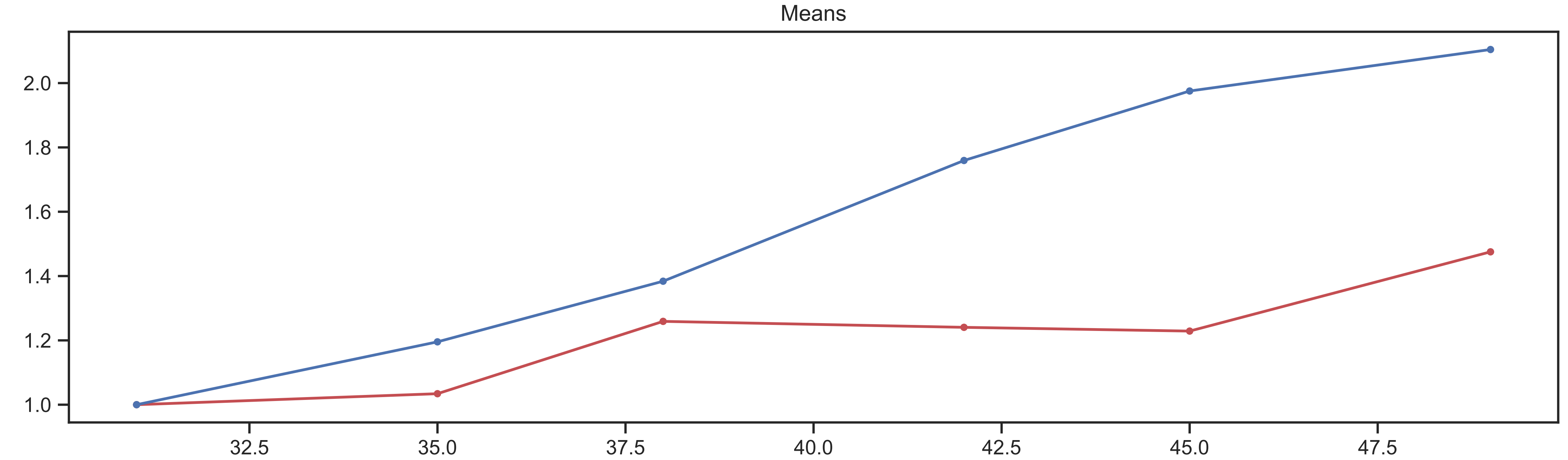
mRECIST: (1,0,4,1
kl: 0.19142456329802698
response_angle_rel: 0:0.005349753834193317_1:0.008783072609496068_2:0.010081319064853543_3:-0.01595801250372129_4:0.007763380983216324_5:0.0100992532
response_angle_rel_control: 0:0.02068885953557578_1:0.014525358513016982_2:0.015716822636300642_3:0.01180698946323919_4:0.02104583754085303_5:0.013739
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0
tgi: 0.0880125797627882
red = treatment,   blue=control

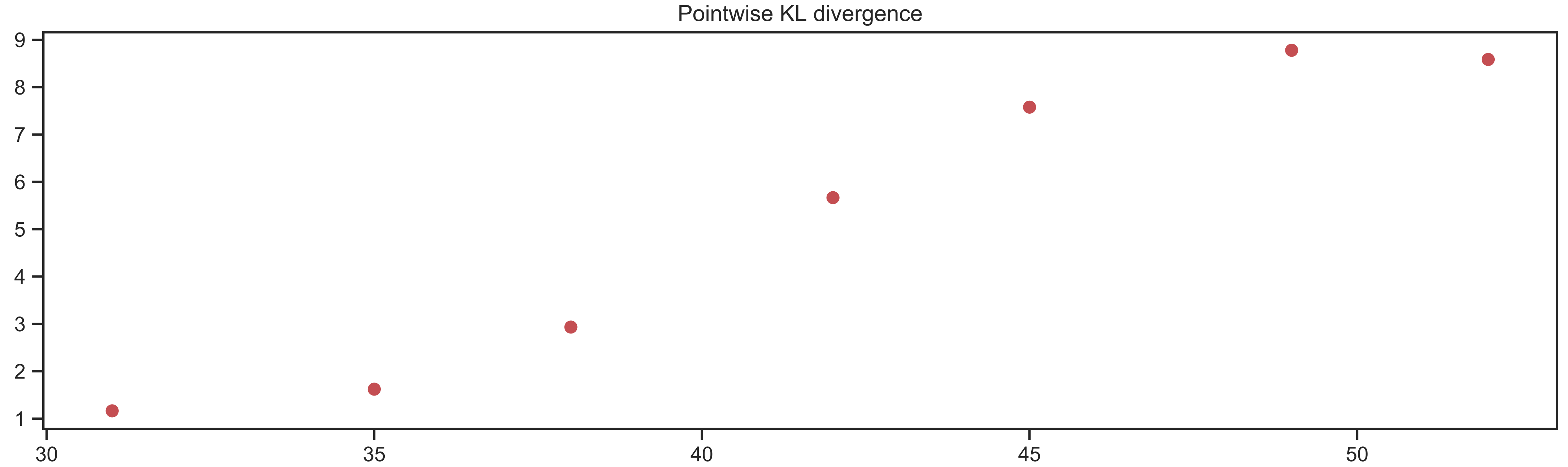


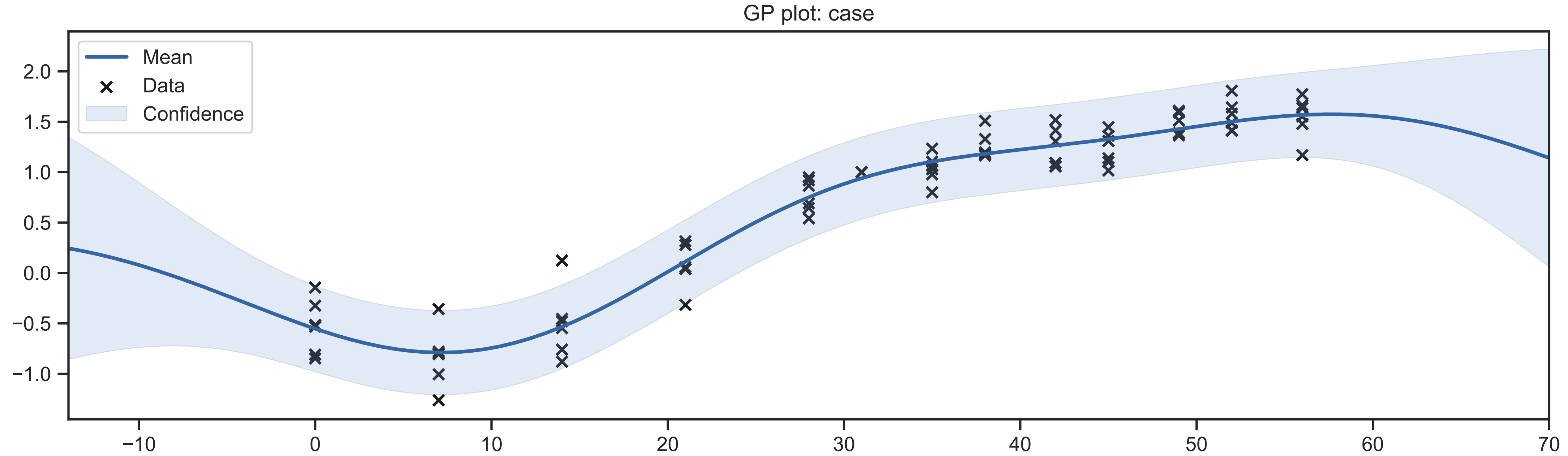
P46*C0

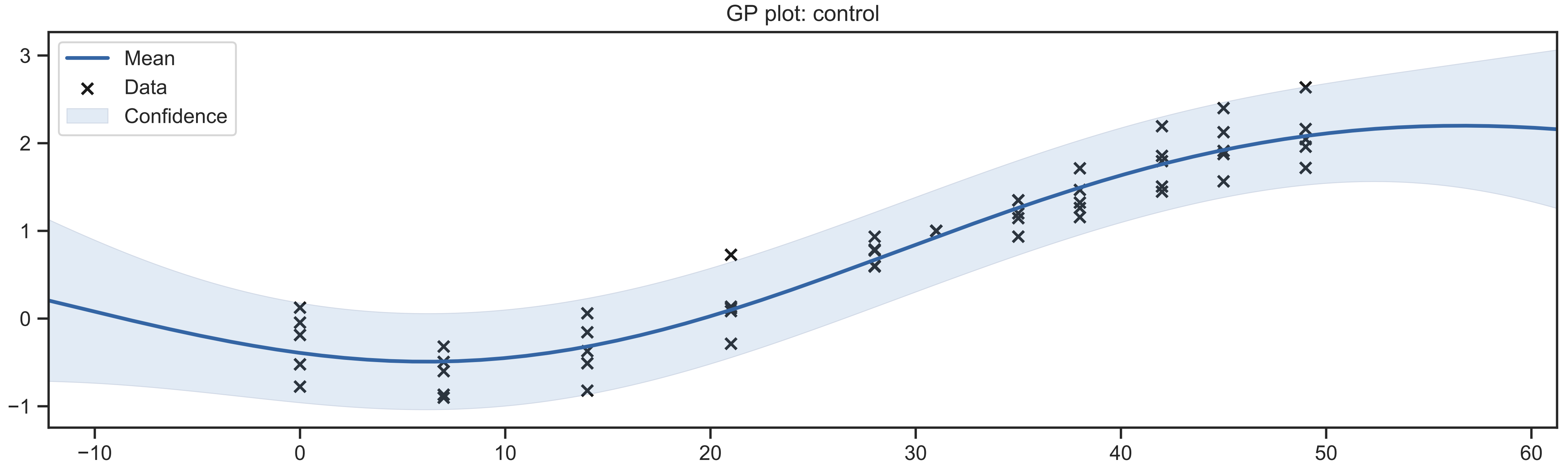

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

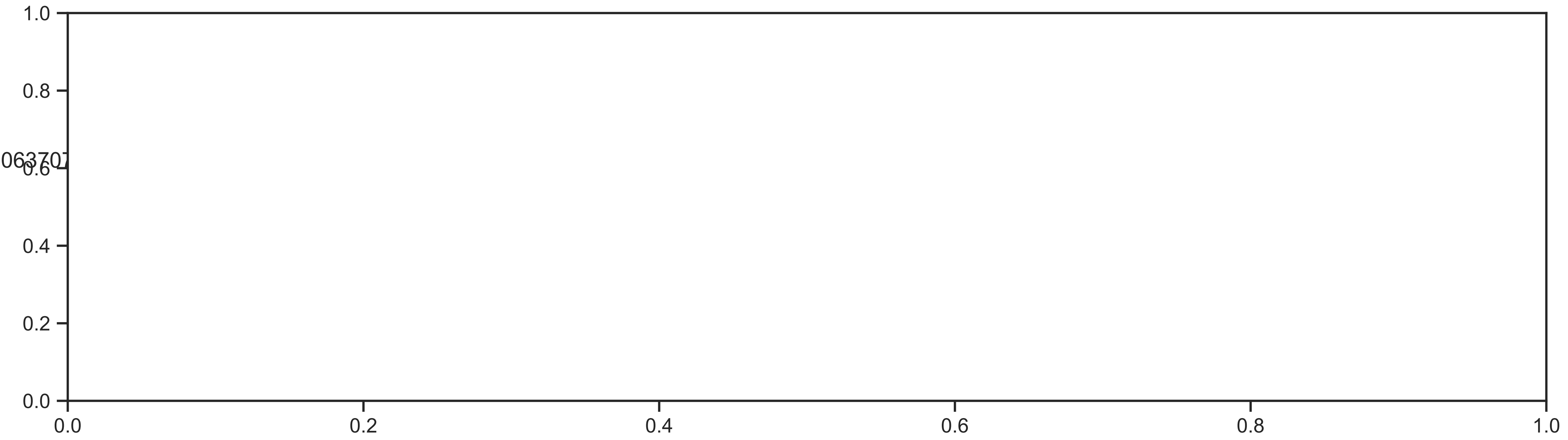

Means


Pointwise KL divergence

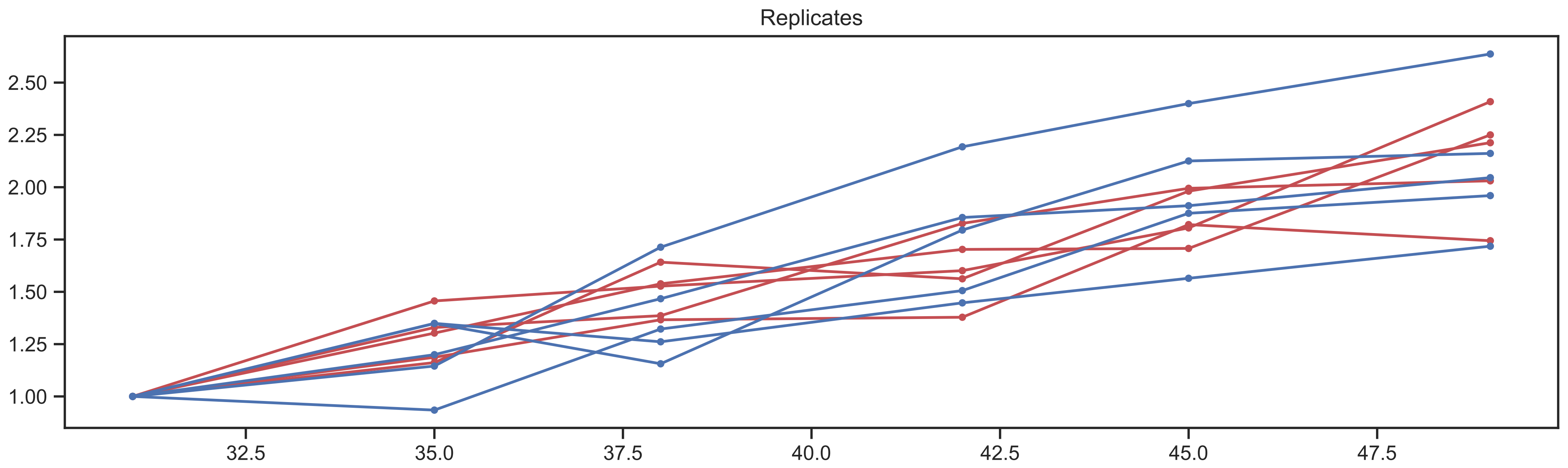

GP plot: case


GP plot: control

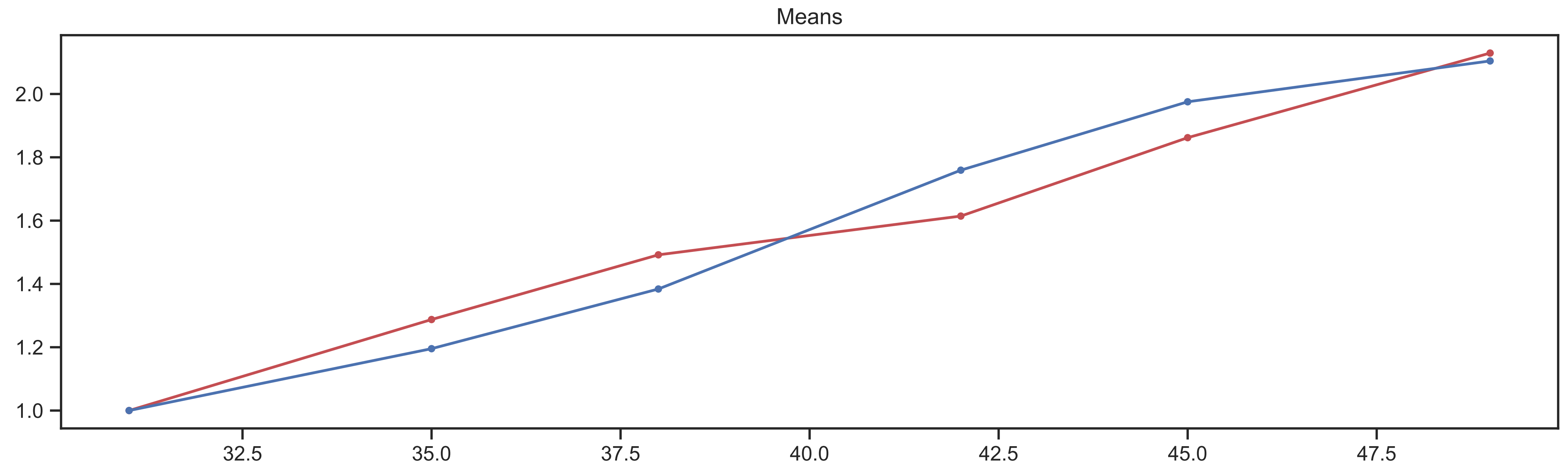
mRECIST: (0,0,6,0
kl: 4.160092789707525
response_angle_rel: 0:0.01091345910442345_1:0.00979280745595587_2:0.022725933450236_3:0.019107833433848483_4:0.010793983837369788_5:-0.00215445406370
response_angle_rel_control: 0:0.01526625324868939_1:0.057279608044381404_2:0.027789519686826206_3:0.03469479376022234_4:0.031118913207713154
auc_norm: 0:0.1005788224626072_1:0.13073336643274766_2:0.14432316626928787_3:0.16285918447998507_4:0.10853676394052683_5:0.17247210633505808
auc_control_norm: 0:[0.18194233]_1:[0.47373059]_2:[0.30305196]_3:[0.30186655]_4:[0.28838049]
tgi: 0.5790945478909155
red = treatment,   blue=control

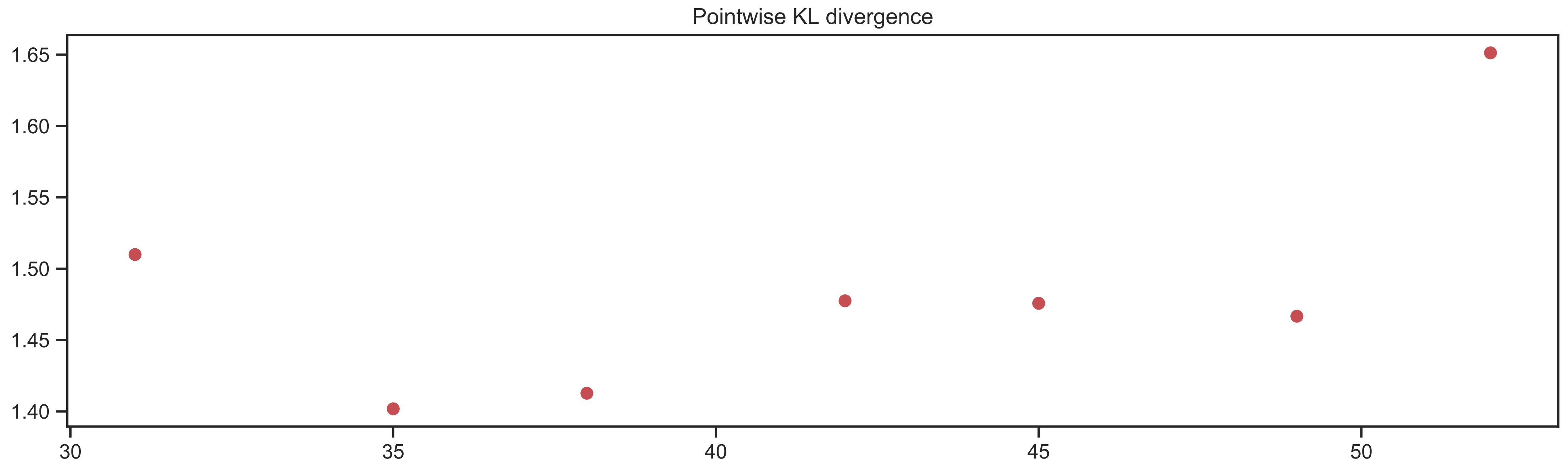


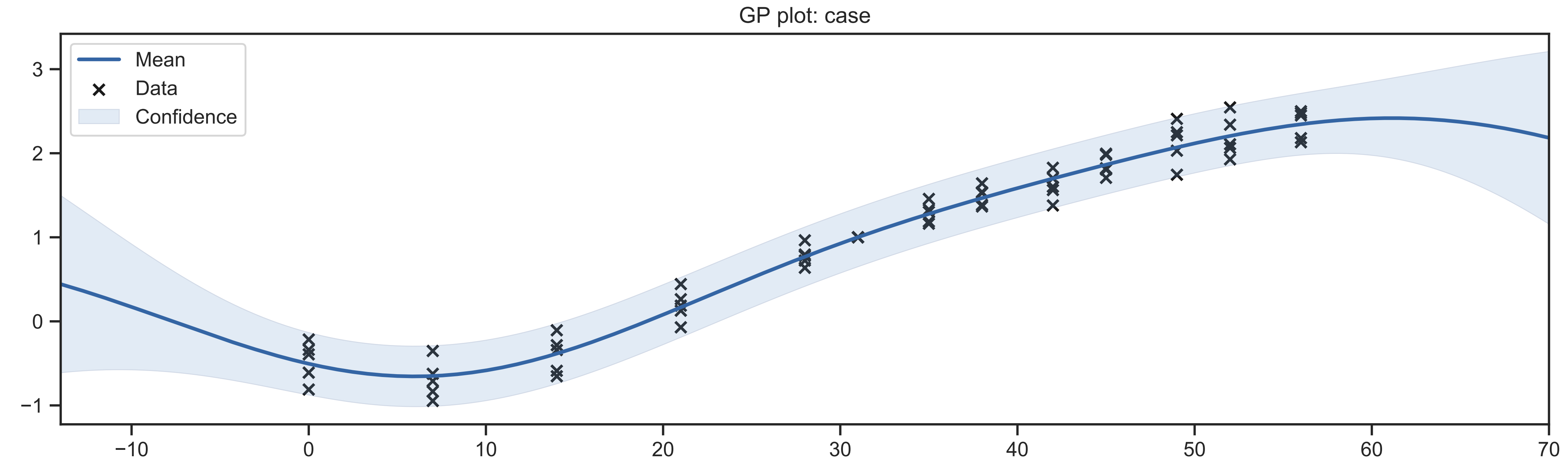
P46*C1

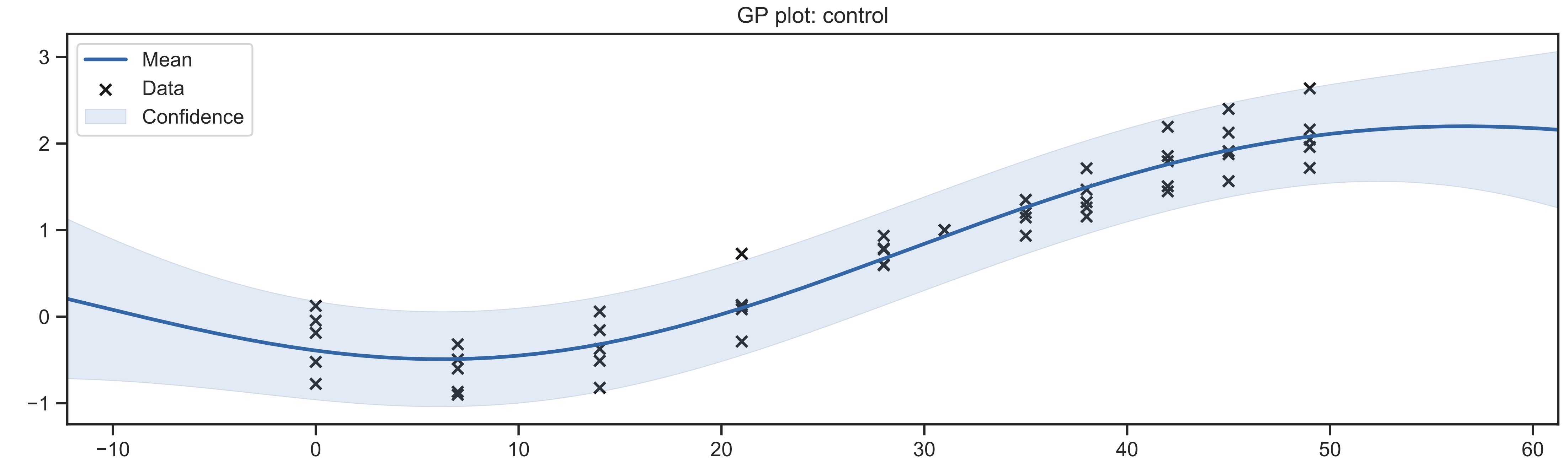

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N

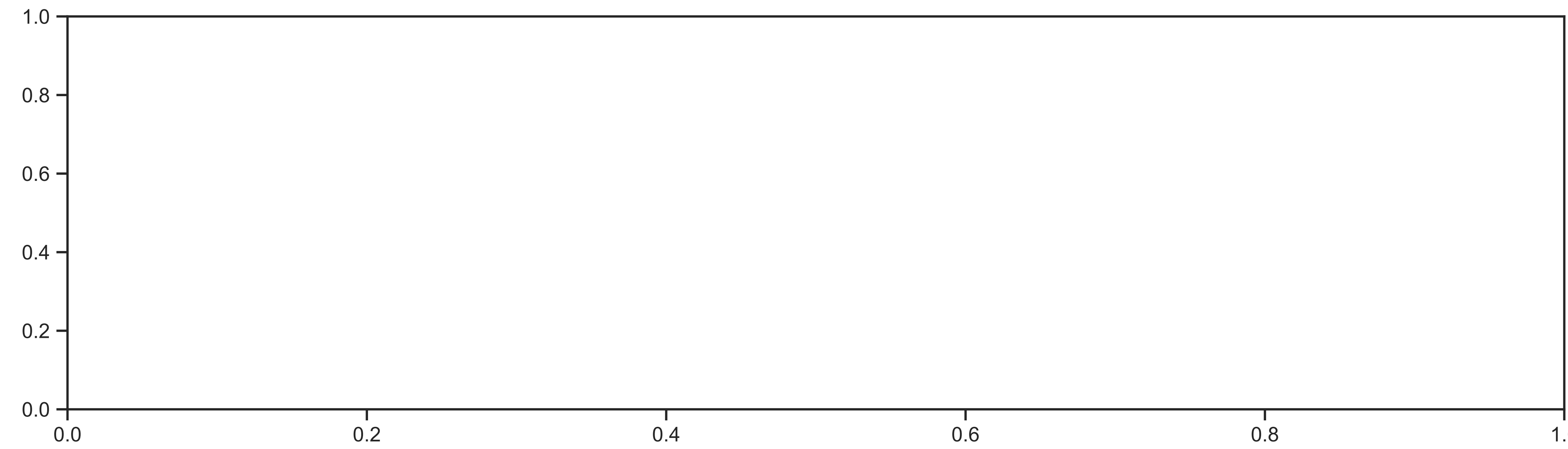

Means


Pointwise KL divergence

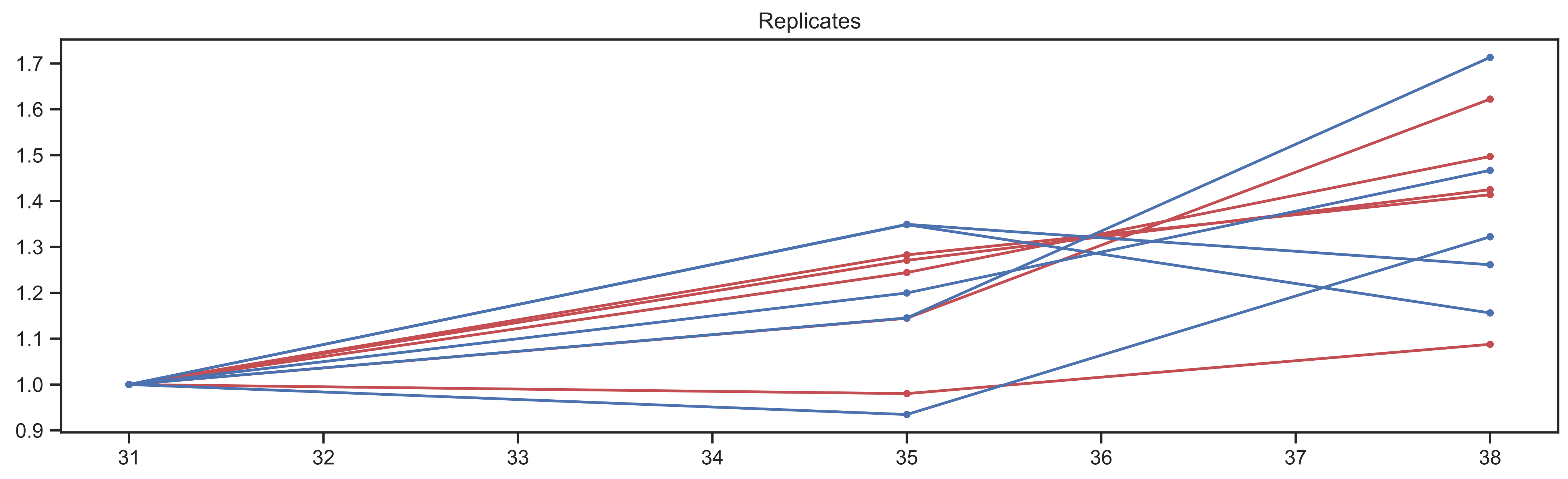

GP plot: case


GP plot: control

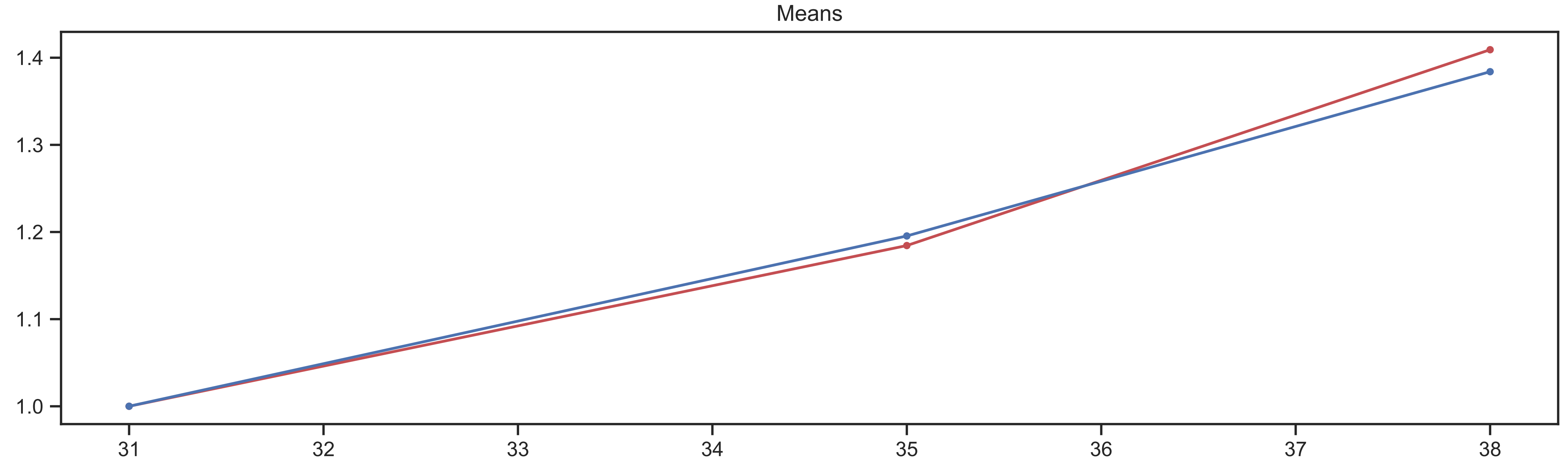
```
mRECIST: (0,0,2,3
kl: 0.460844145369943
response_angle_rel: 0:0.009514396095899392_1:0.0065382433735676065_2:0.0009843576116657503_3:0.0029802472602007994_4:0.0081101370627734
response_angle_rel_control: 0:0.01526625324868939_1:0.057279608044381404_2:0.027789519686826206_3:0.03469479376022234_4:0.031118913207713154
auc_norm: 0:0.37511699889810796_1:0.2762969205615172_2:0.23790456639008856_3:0.33251896495510835_4:0.37807790381703843
auc_control_norm: 0:[0.18194233]_1:[0.47373059]_2:[0.30305196]_3:[0.30186655]_4:[0.28838049]
tgi: 0.09719381638640812
red = treatment,       blue=control
```

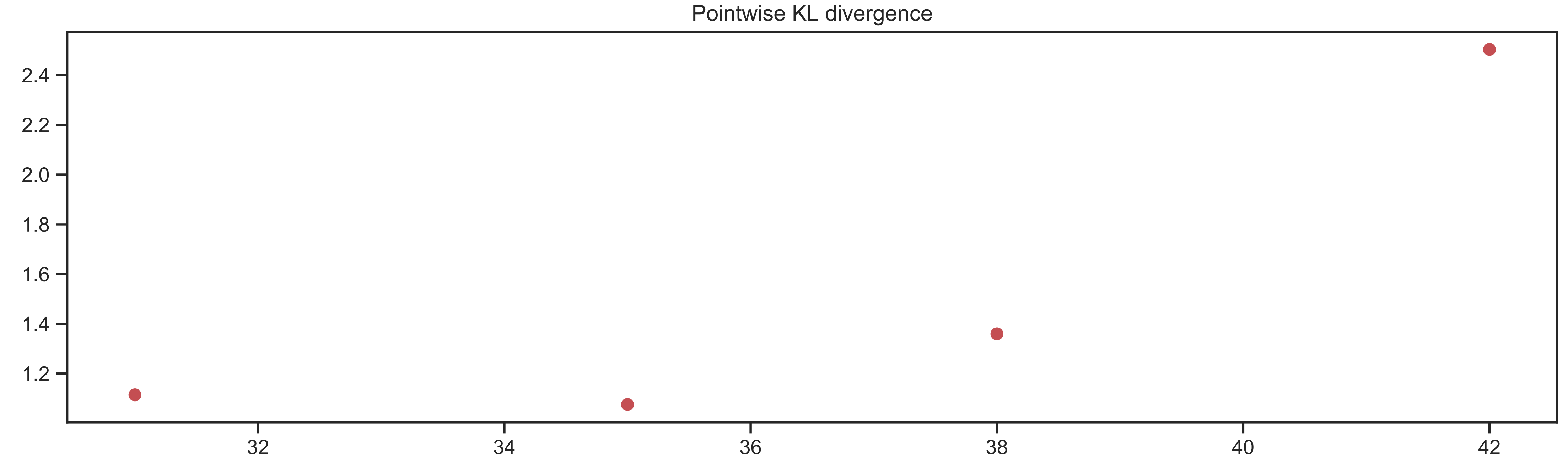


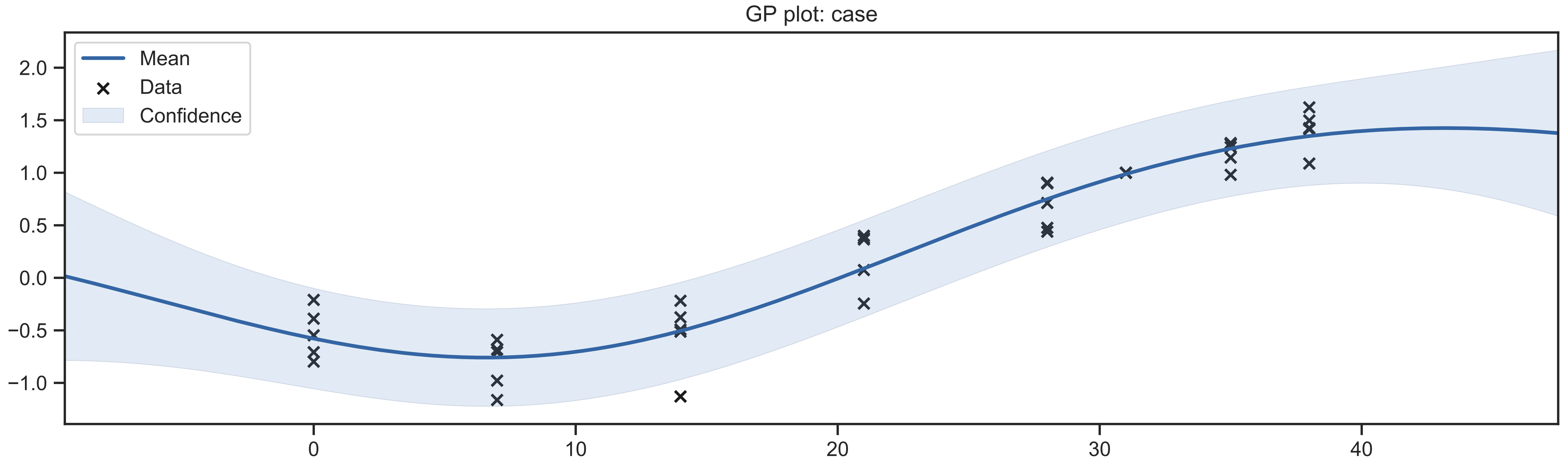
P46*C3

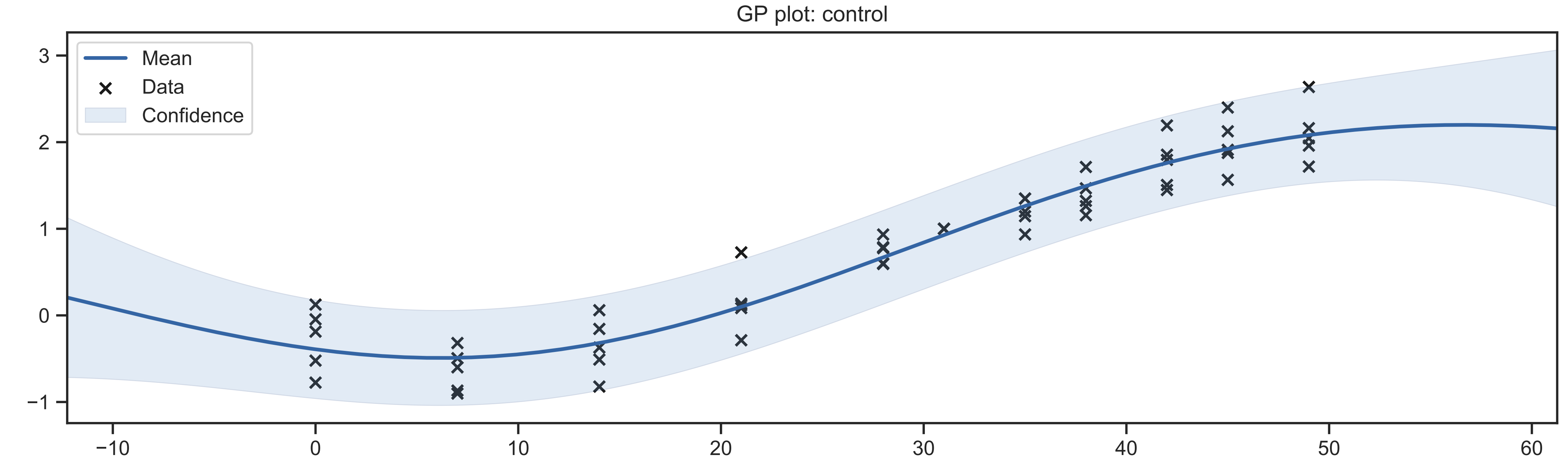


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: N
TGI: N

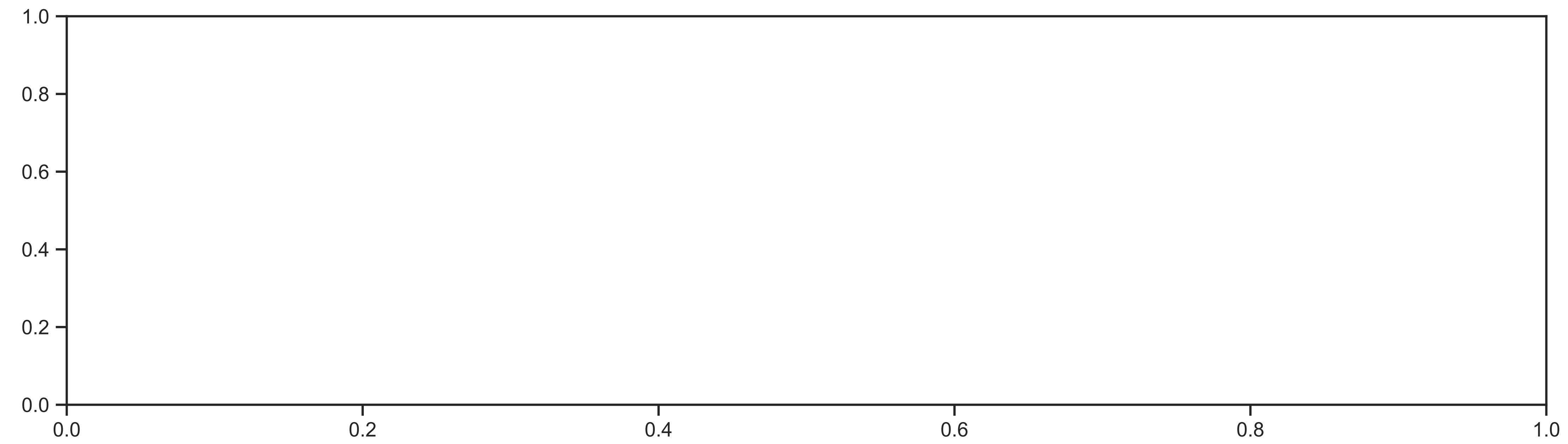




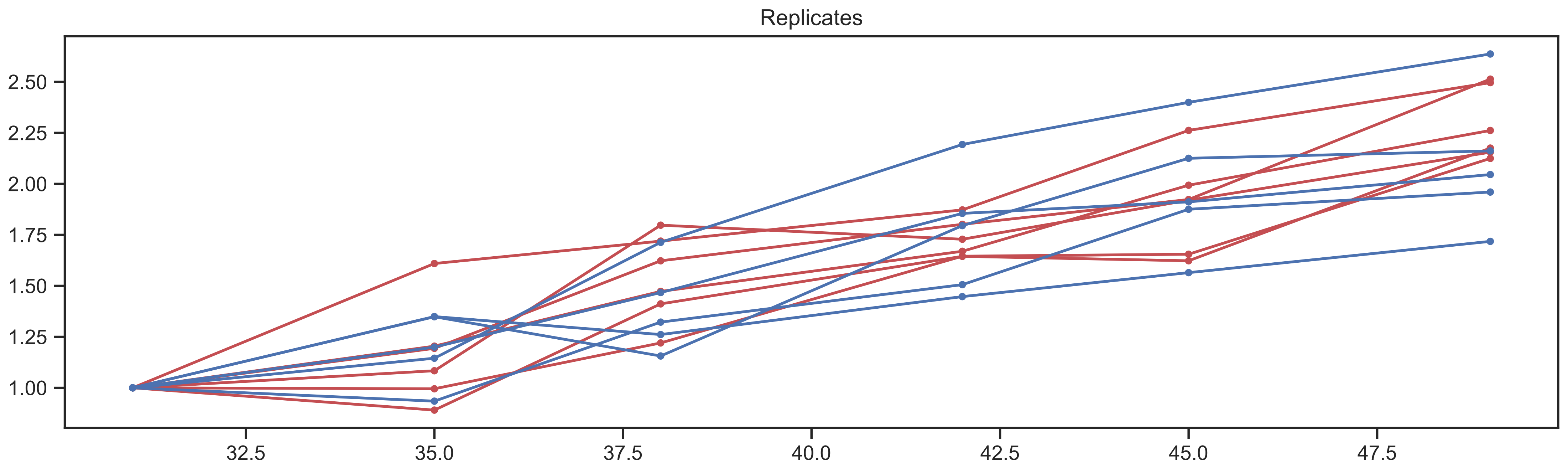




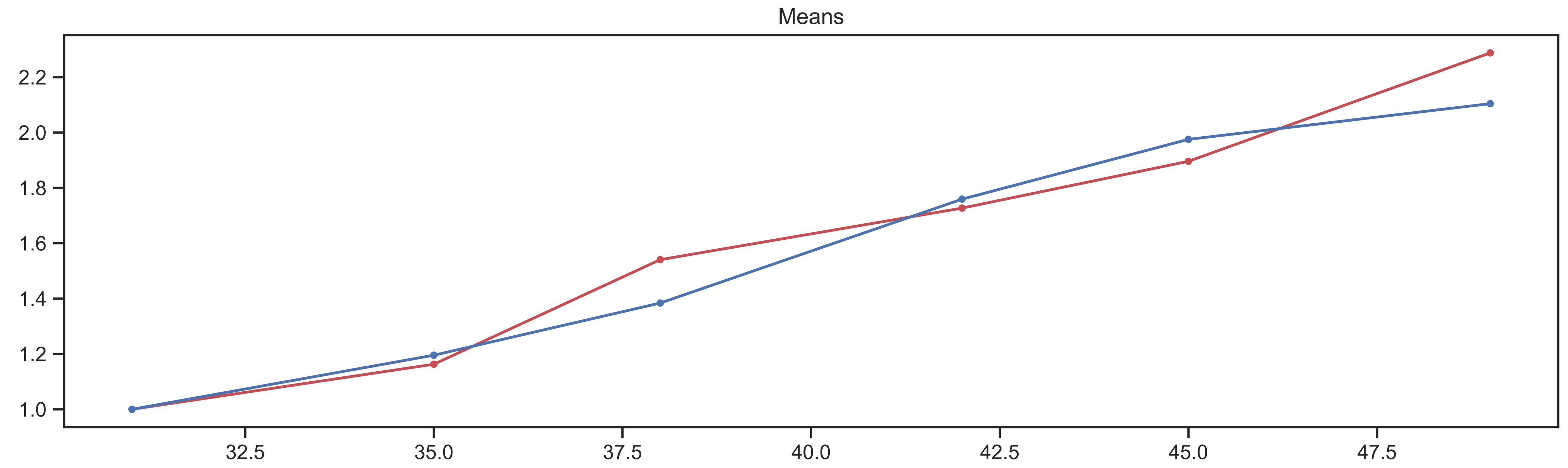
```
mRECIST: (4,0,1,0
kl: 0.3890327986171273
response_angle_rel: 0:-0.0005014199880591748_1:-0.01306316287992413_2:-0.011435090075236146_3:-0.012740107586575846_4:-0.01086103501390211
response_angle_rel_control: 0:0.01526625324868939_1:0.057279608044381404_2:0.027789519686826206_3:0.03469479376022234_4:0.031118913207713154
auc_norm: 0:0.1453911878465723_1:0.030879704089114994_2:0.1143962262916551_3:0.19536701310754842_4:0.11905012958333547
auc_control_norm: 0:[0.05793831]_1:[0.22565771]_2:[0.11282613]_3:[0.02298446]_4:[0.13903951]
tgi: 0.4163881688168408
red = treatment,       blue=control
```

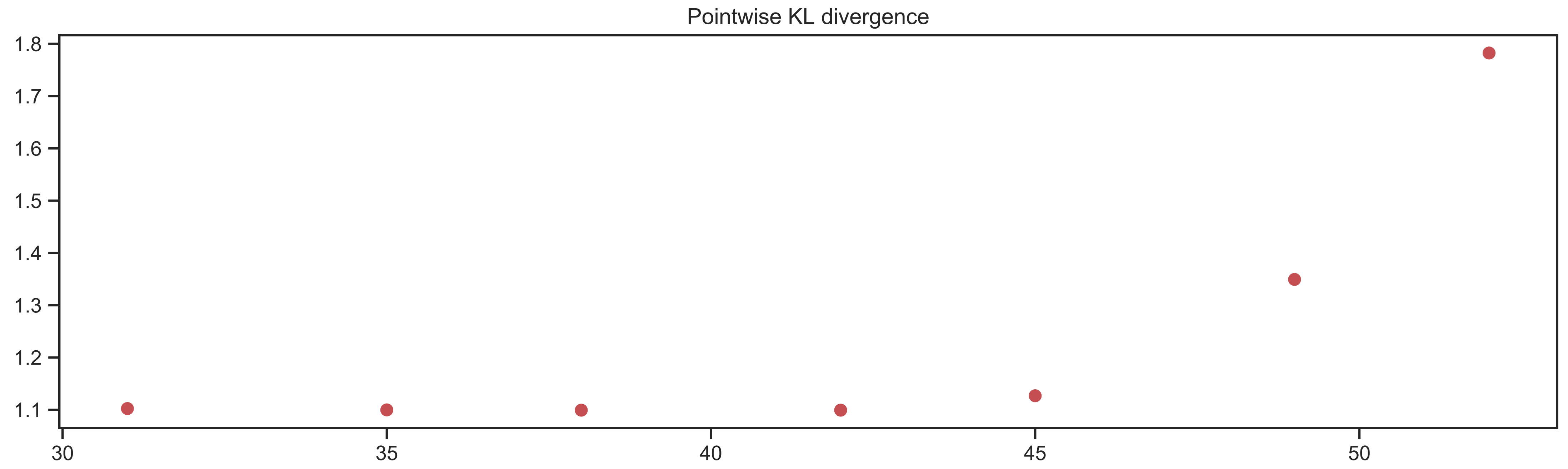


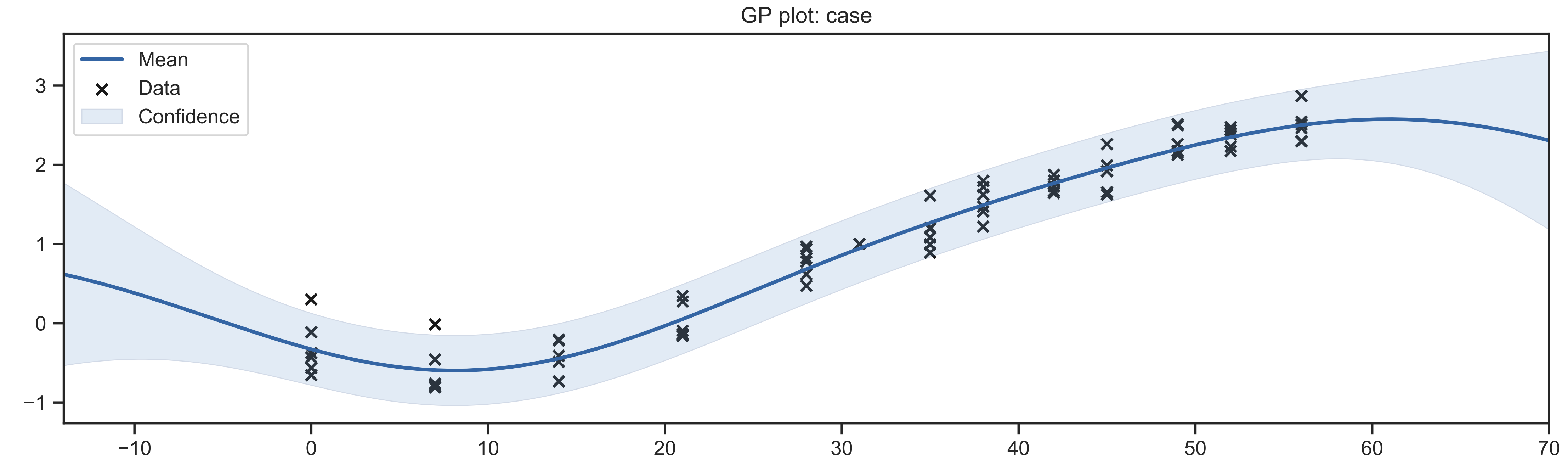
P46*C4

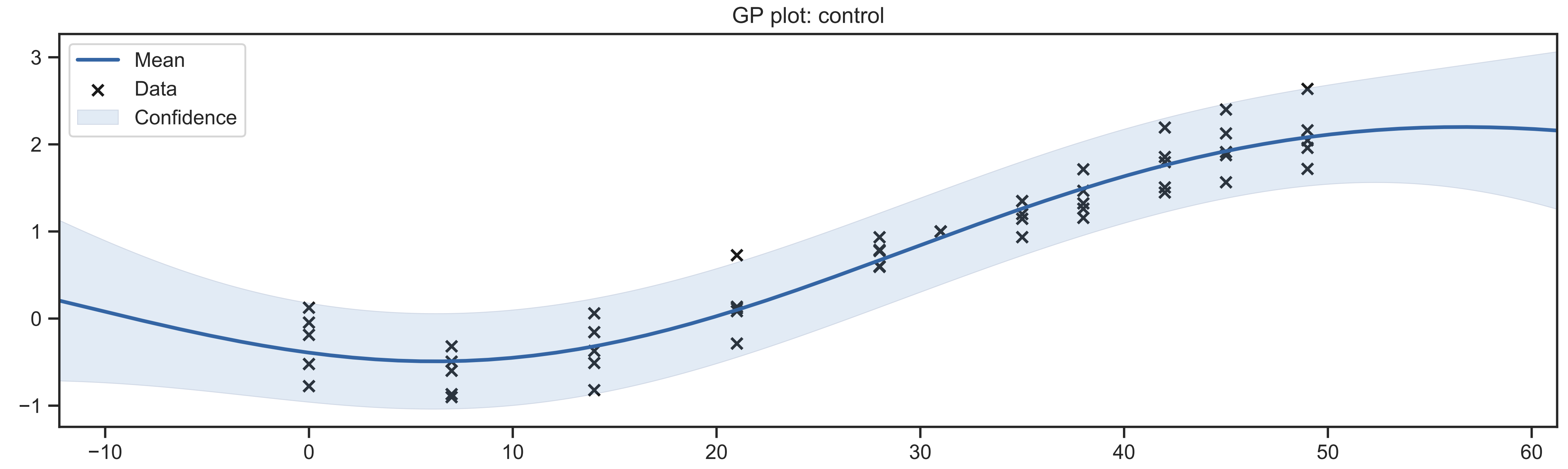

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N

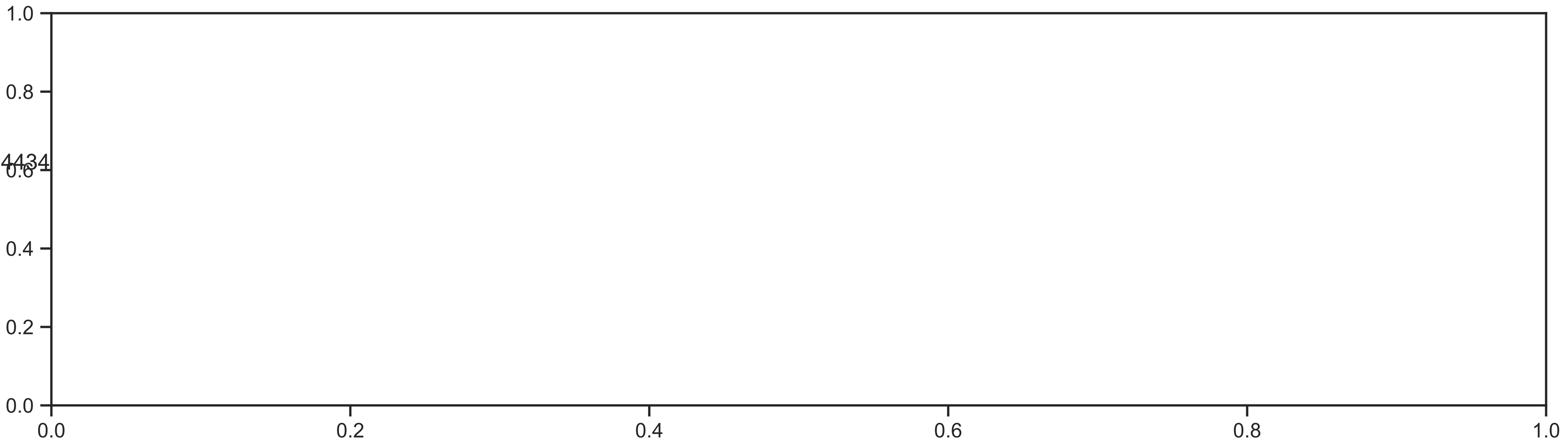

Means


Pointwise KL divergence

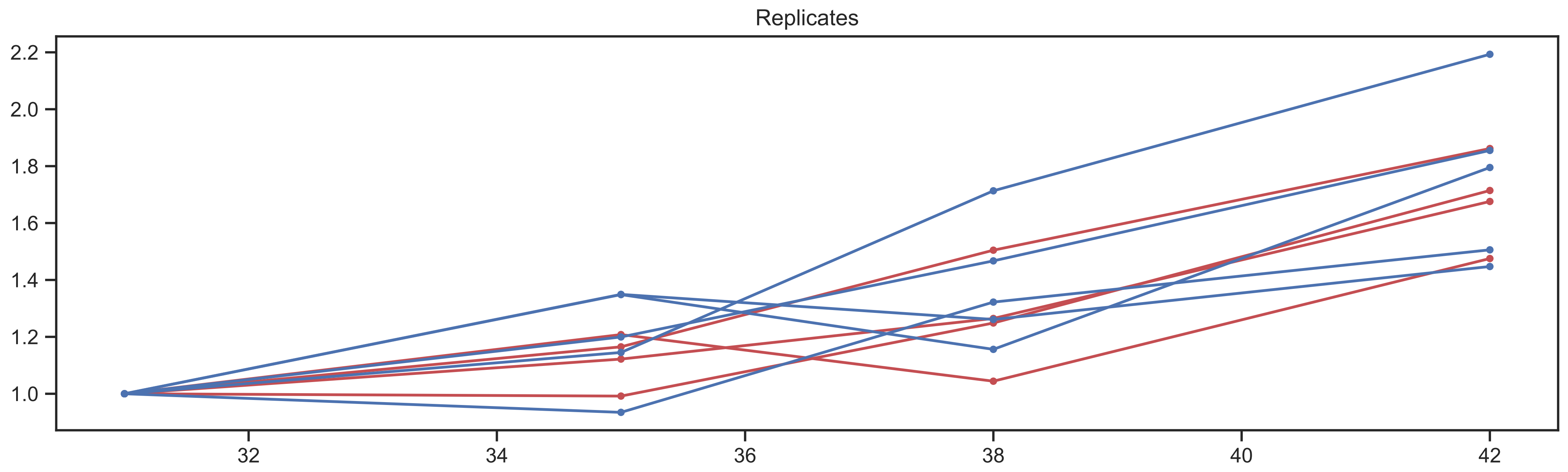

GP plot: case


GP plot: control

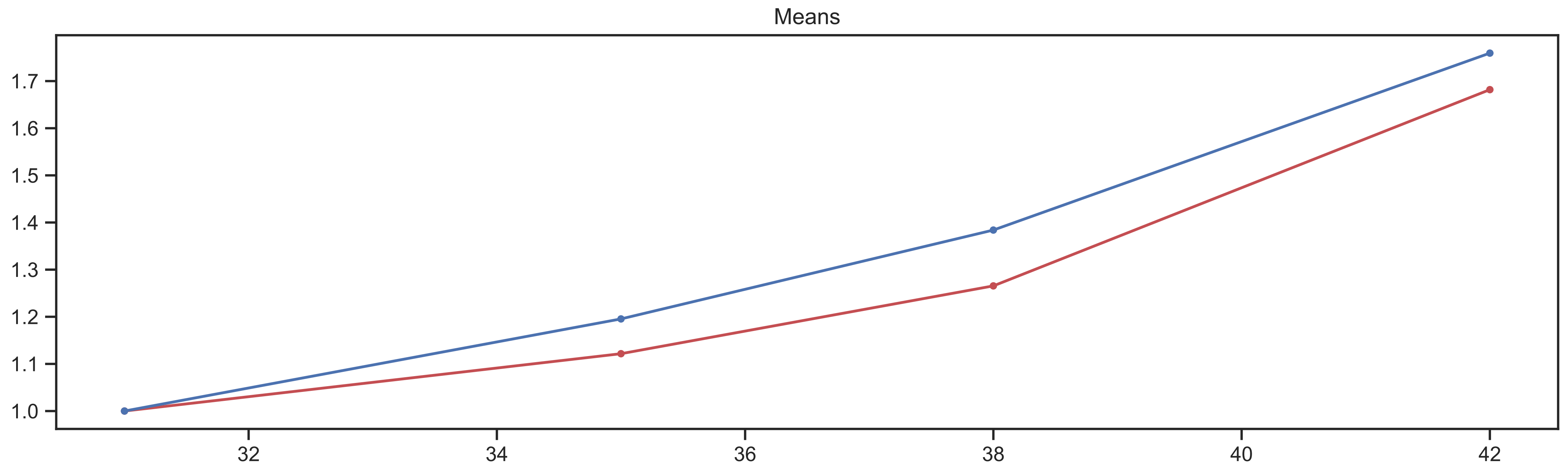
mRECIST: (0,0,5,1
kl: 0.185828014301451
response_angle_rel: 0:0.005834315731811902_1:0.010497957310032278_2:0.012505102905426077_3:0.007418151885302664_4:0.0049002756563614695_5:0.004494434
response_angle_rel_control: 0:0.01526625324868939_1:0.057279608044381404_2:0.027789519686826206_3:0.03469479376022234_4:0.031118913207713154
auc_norm: 0:0.3642221907083032_1:0.4156590712850792_2:0.42425295287750076_3:0.3647918253443727_4:0.30069470610822546_5:0.3354305950080815
auc_control_norm: 0:[0.18194233]_1:[0.47373059]_2:[0.30305196]_3:[0.30186655]_4:[0.28838049]
tgi: -0.019355940023118468
red = treatment,   blue=control

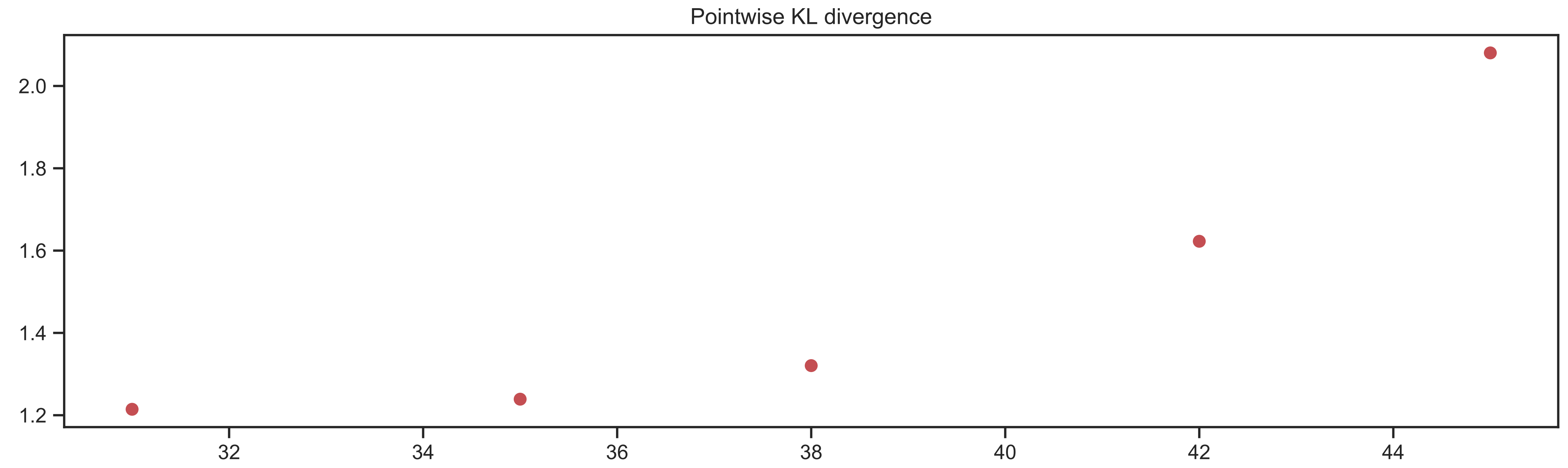


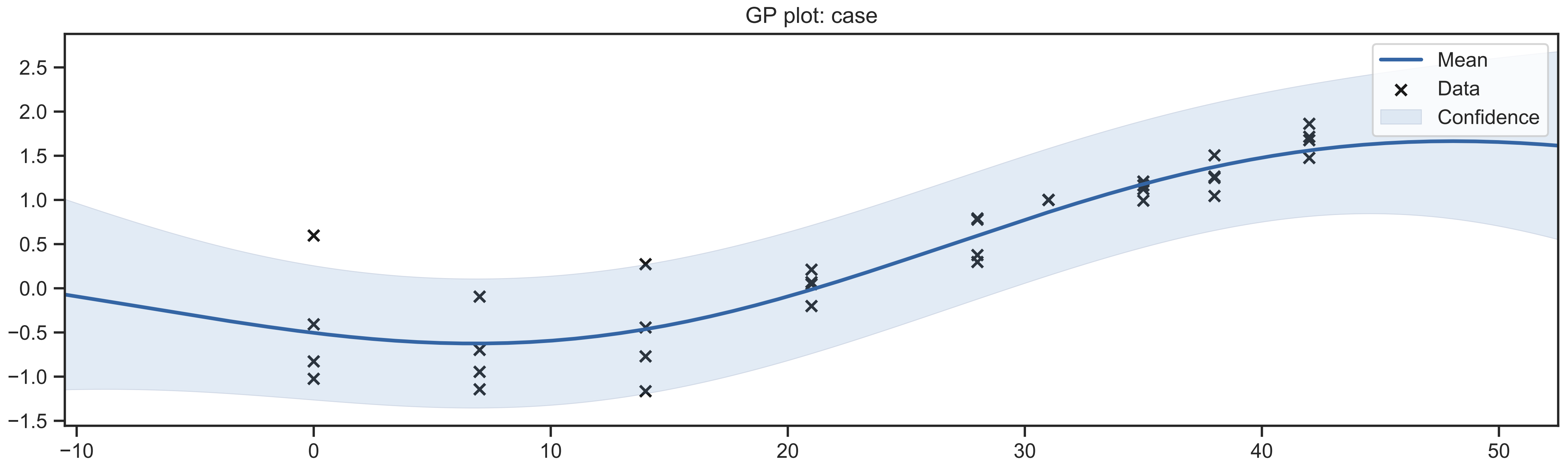
P46*C5

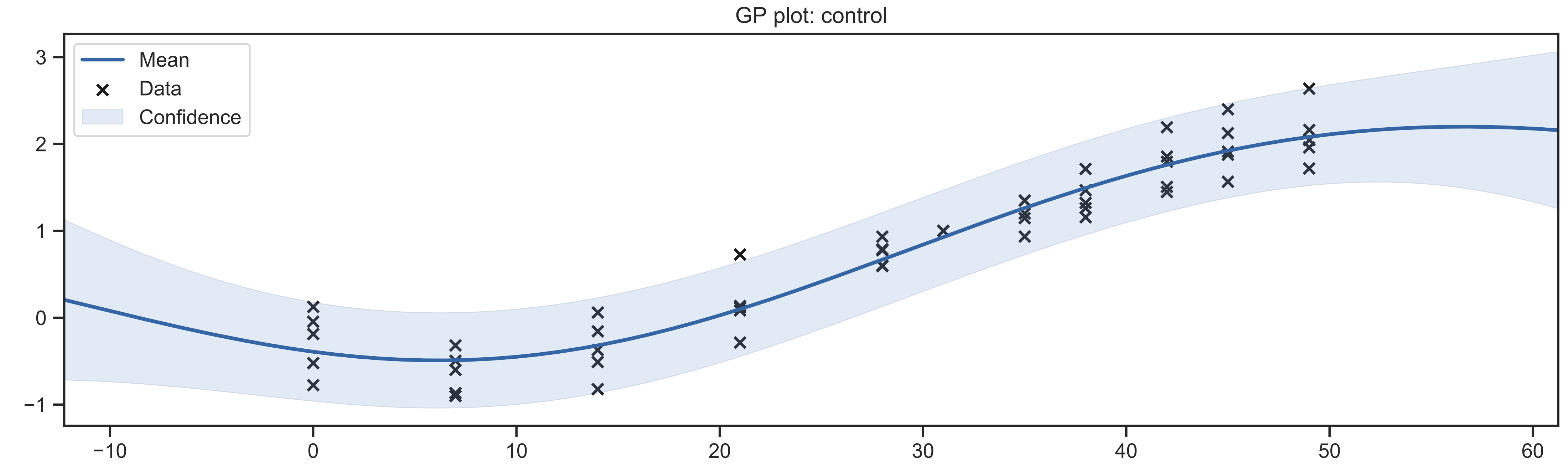


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: N
TGI: N

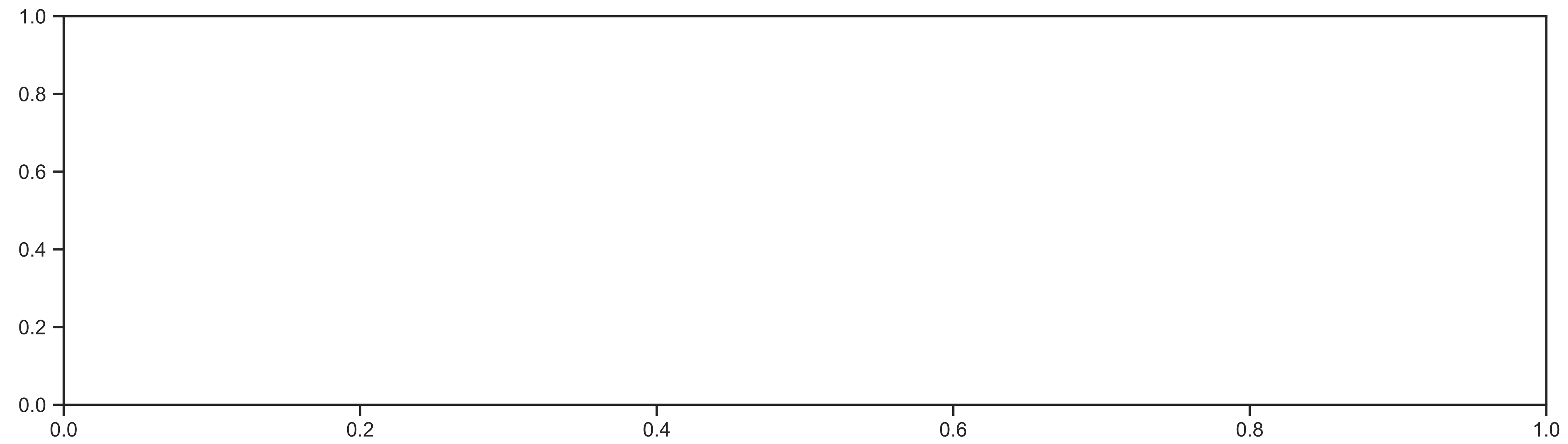




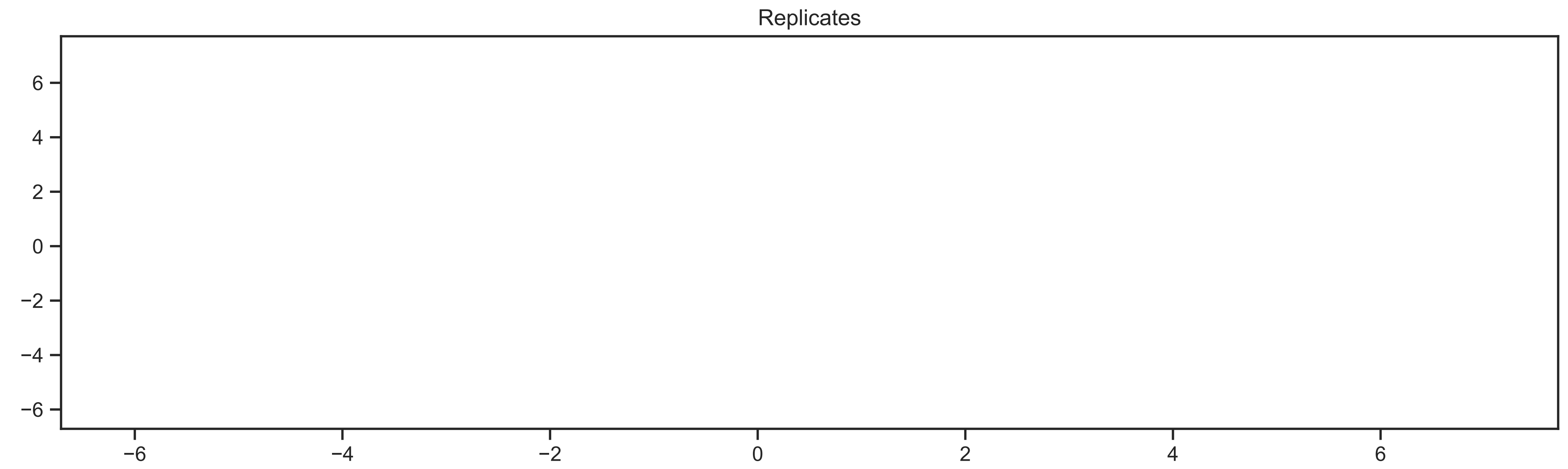




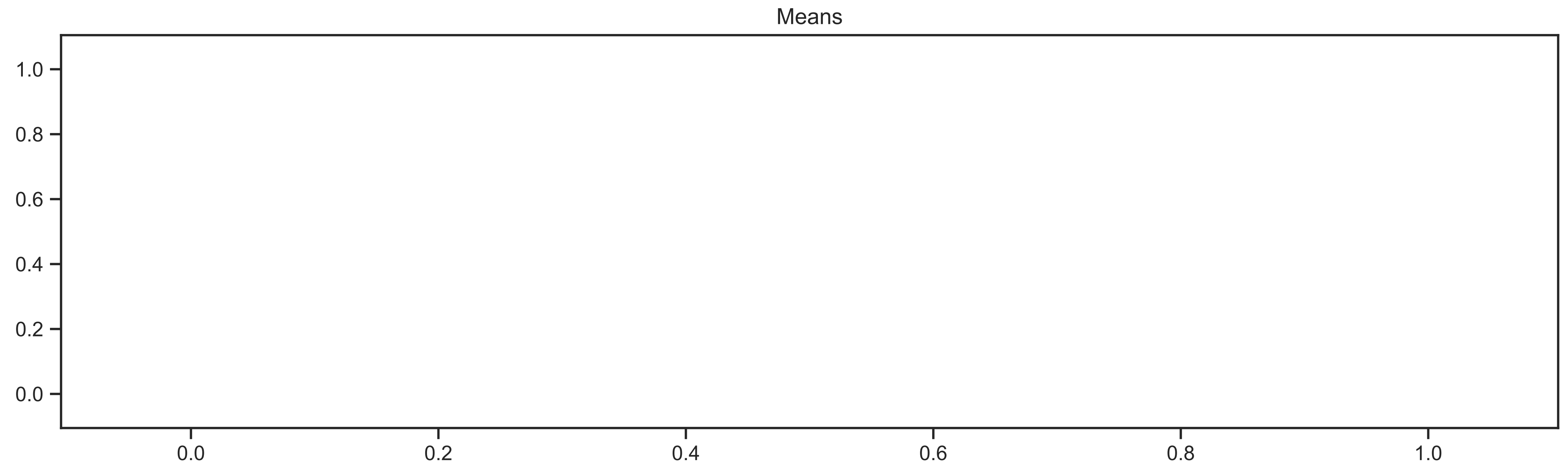
```
mRECIST: (3,0,1,0
kl: 0.4280395078404714
response_angle_rel: 0:-0.009291872396753328_1:-0.010797481445652252_2:-0.011385857848749457_3:-0.000979157033706479
response_angle_rel_control: 0:0.01526625324868939_1:0.057279608044381404_2:0.02778951968682620 6_3:0.03469479376022234_4:0.031118913207713154
auc_norm: 0:0.2437601752264026_1:0.1808458653329772_2:0.1051682772126564_3:0.19996789365942697
auc_control_norm: 0:[0.10445682]_1:[0.34560658]_2:[0.15873968]_3:[0.18275447]_4:[0.23608183]
tgi: 0.2616605418766539
red = treatment,       blue=control
```

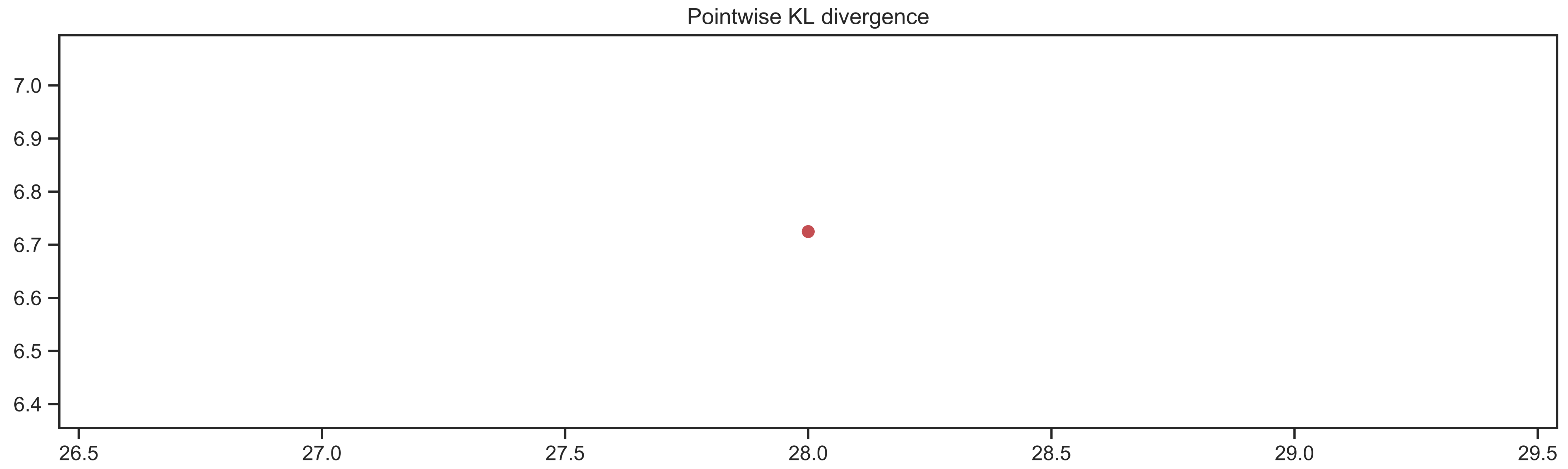


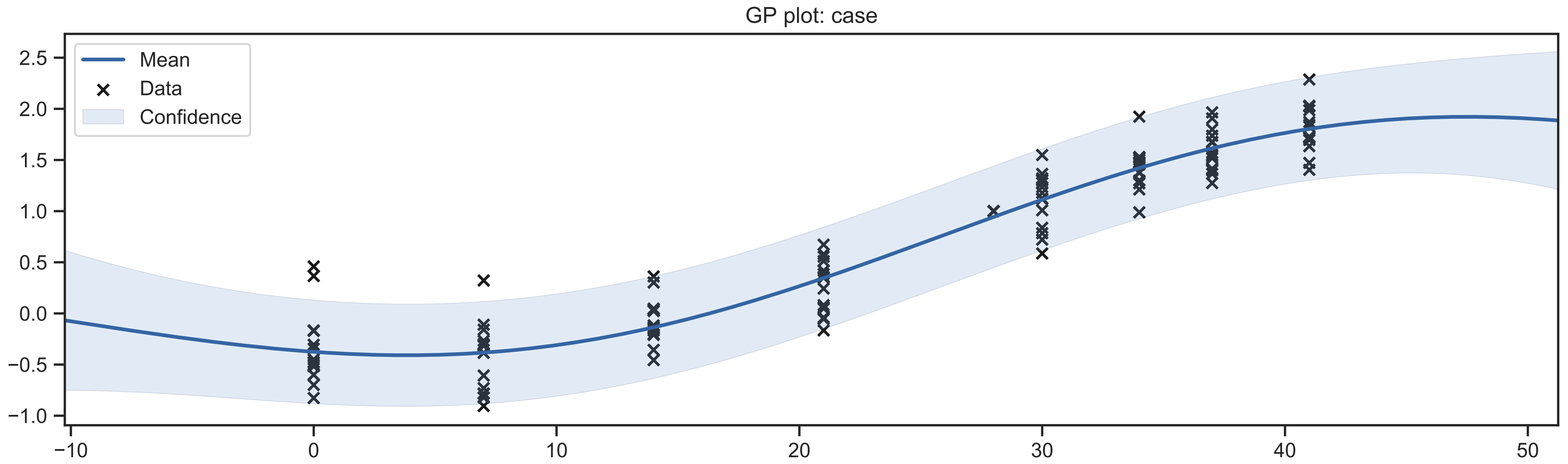
P47*C1

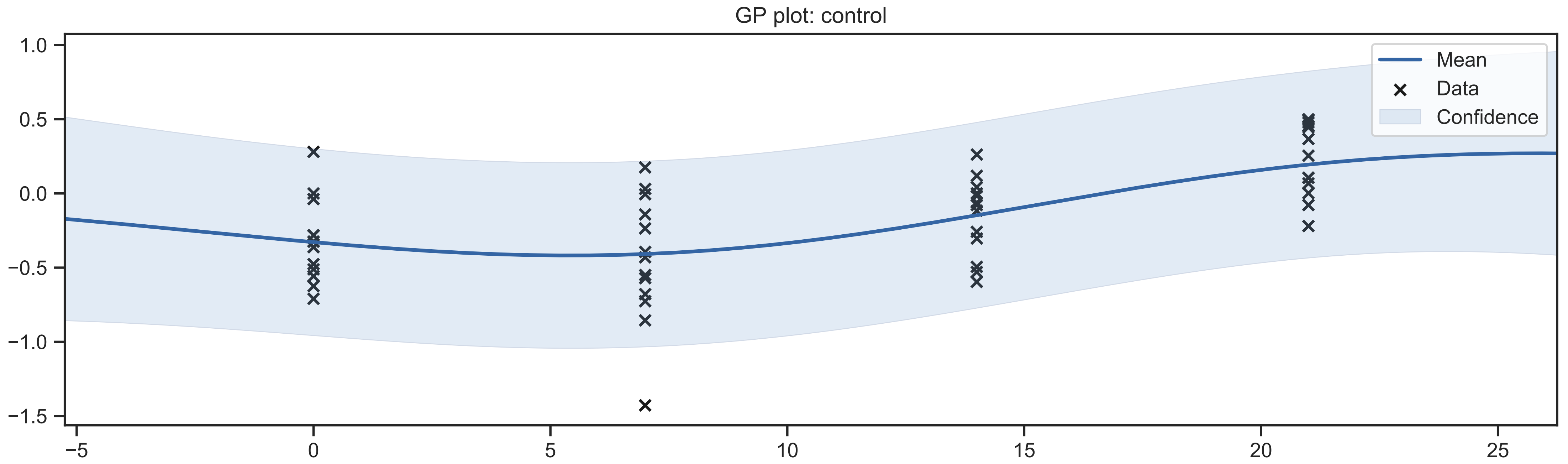

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: N

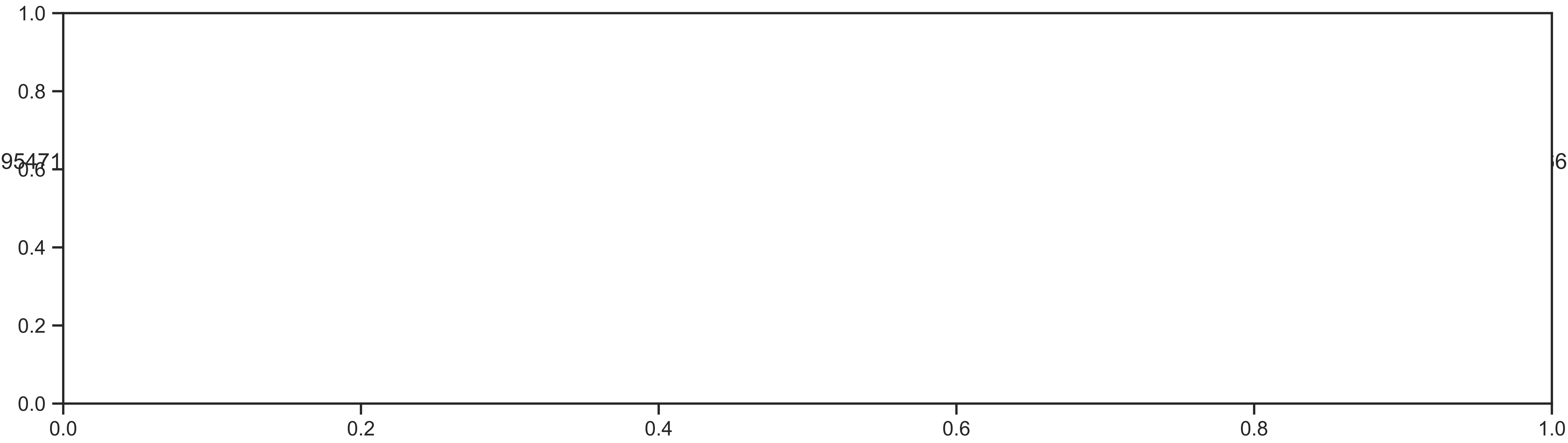

Means


Pointwise KL divergence

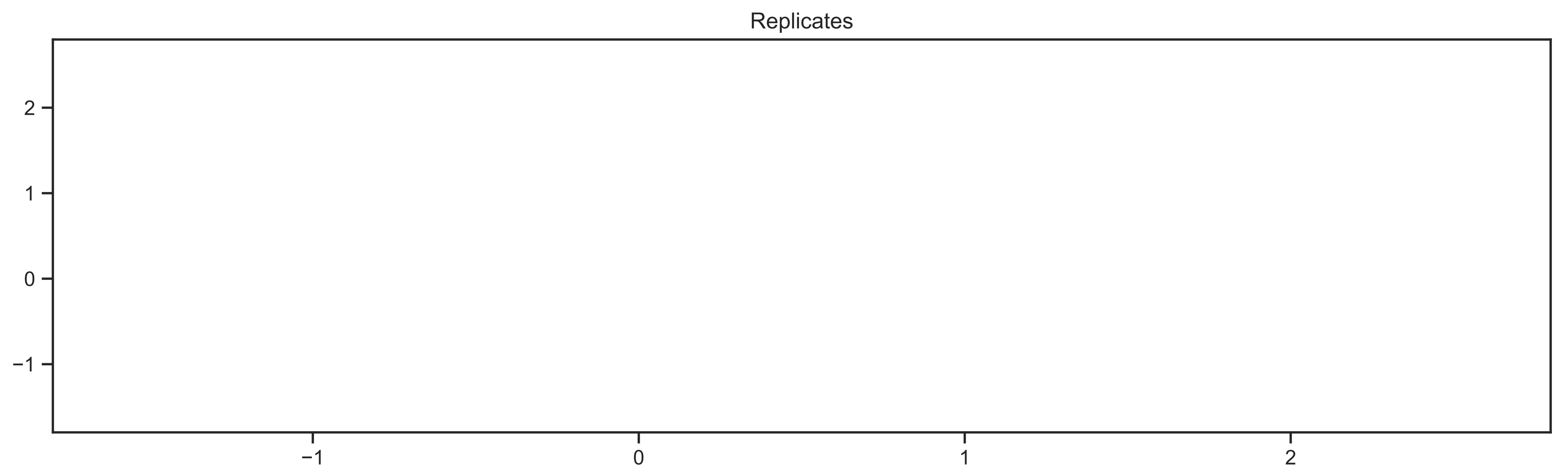

GP plot: case


GP plot: control

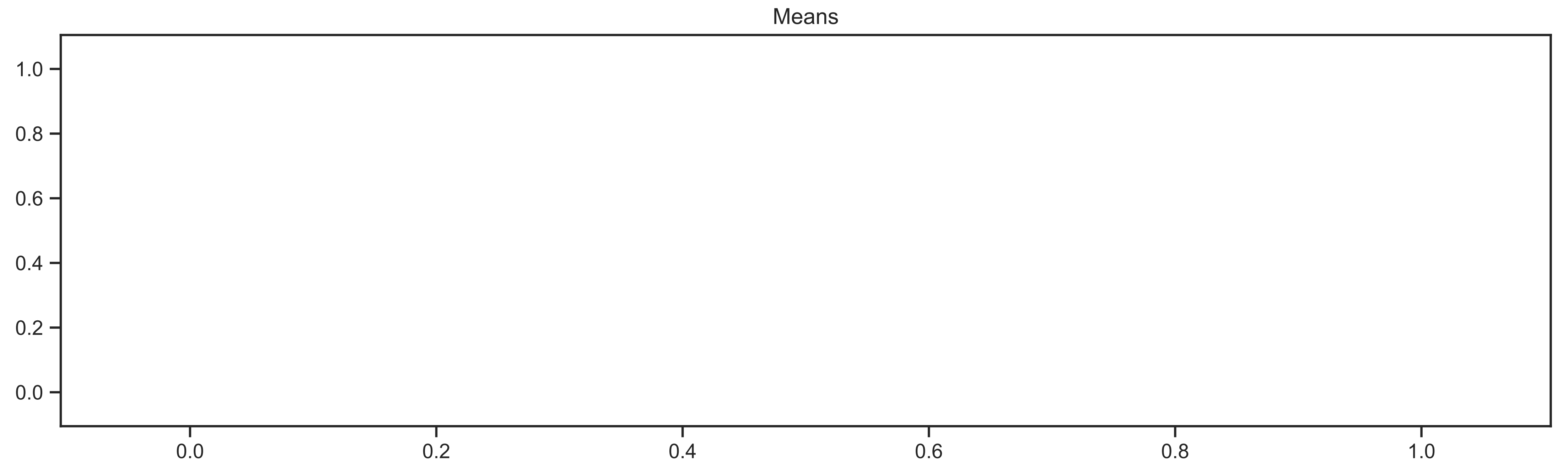
mRECIST: (0,0,3,12
kl: 6.505368733092888
response_angle_rel: 0:0.04181070638272235_1:0.021481984254522826_2:0.034470388895260676_3:0.032335760952076895_4:0.04882216183788544_5:0.028031895471 638454859926178_12:0.02991482167744
response_angle_rel_control: 0:0.0_1:0.0_2:0.0_3:0.0_4:0.0_5:0.0_6:0.0_7:0.0_8:0.0_9:0.0_10:0.0_11:0.0_12:0.0
auc_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0_12:0_13:0_14:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0_12:0
tgi: nan
red = treatment, blue=control

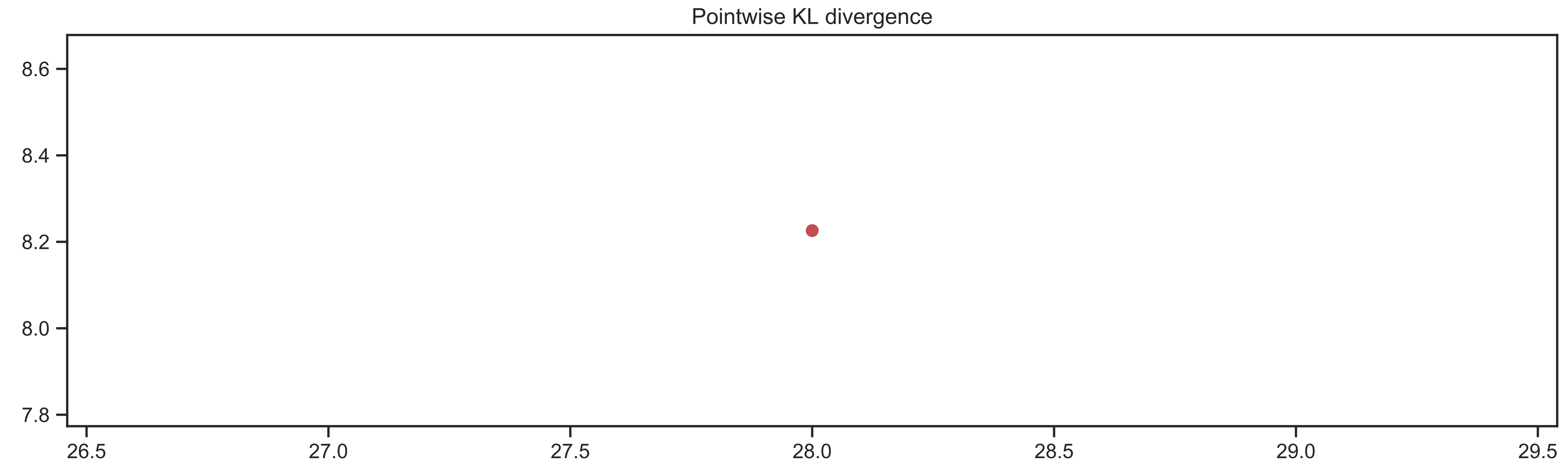


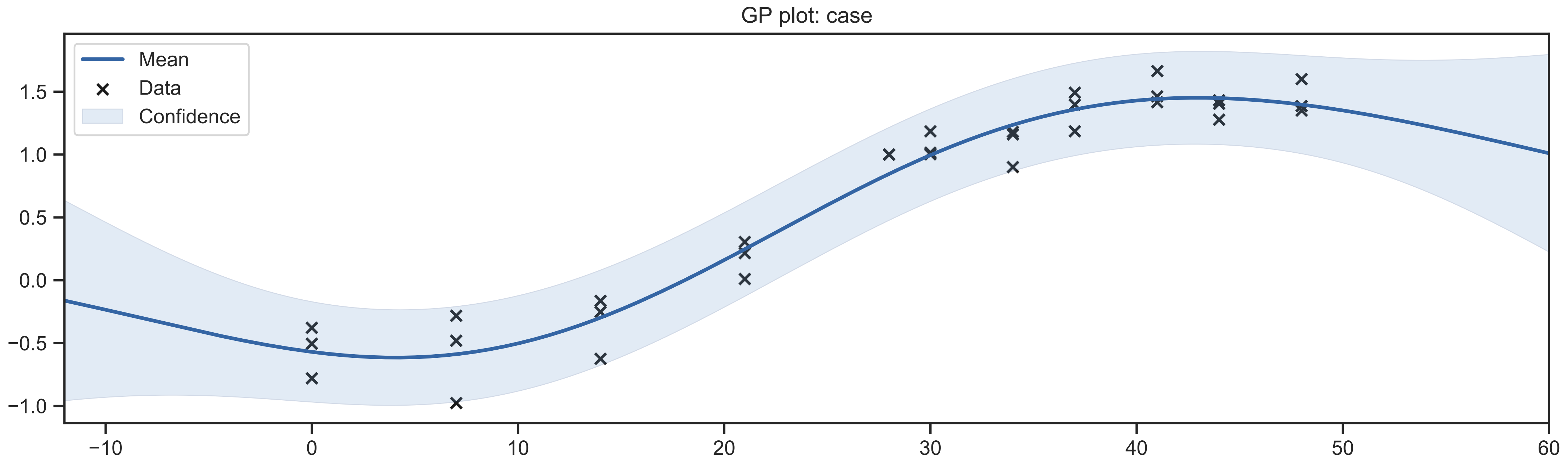
P47*C2

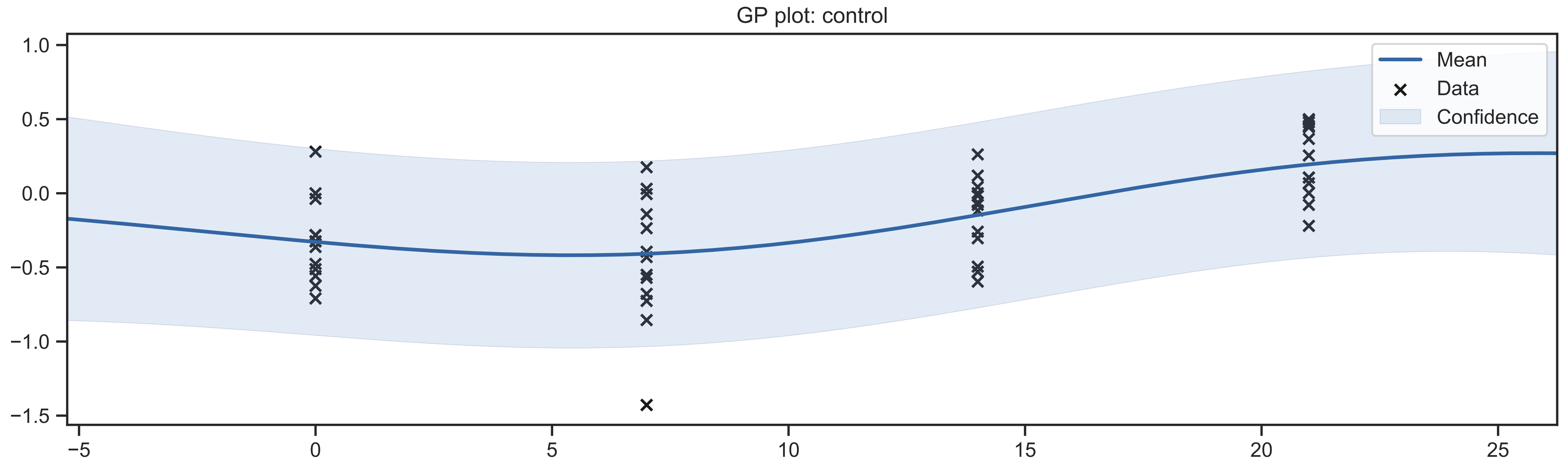


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: All numbers are identical in mannwhitneyu
TGI: N

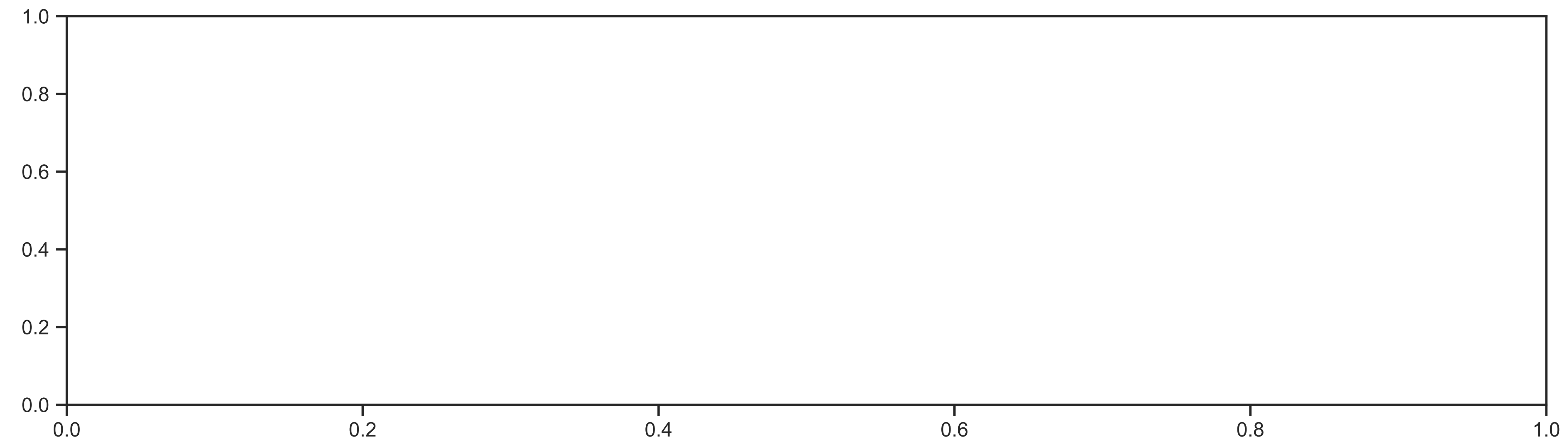




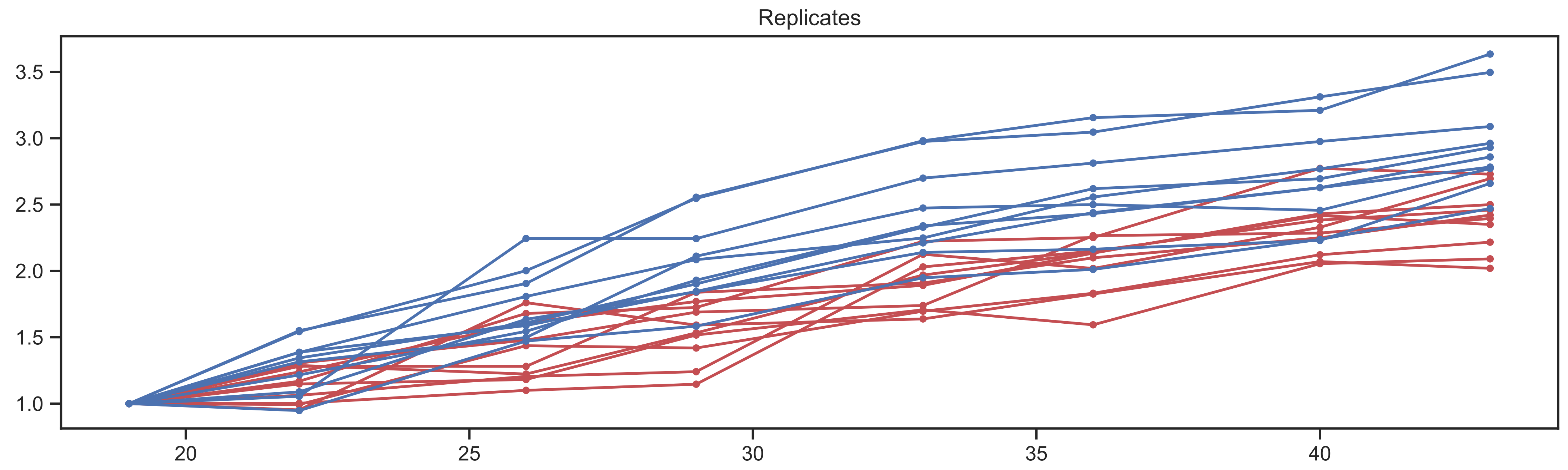




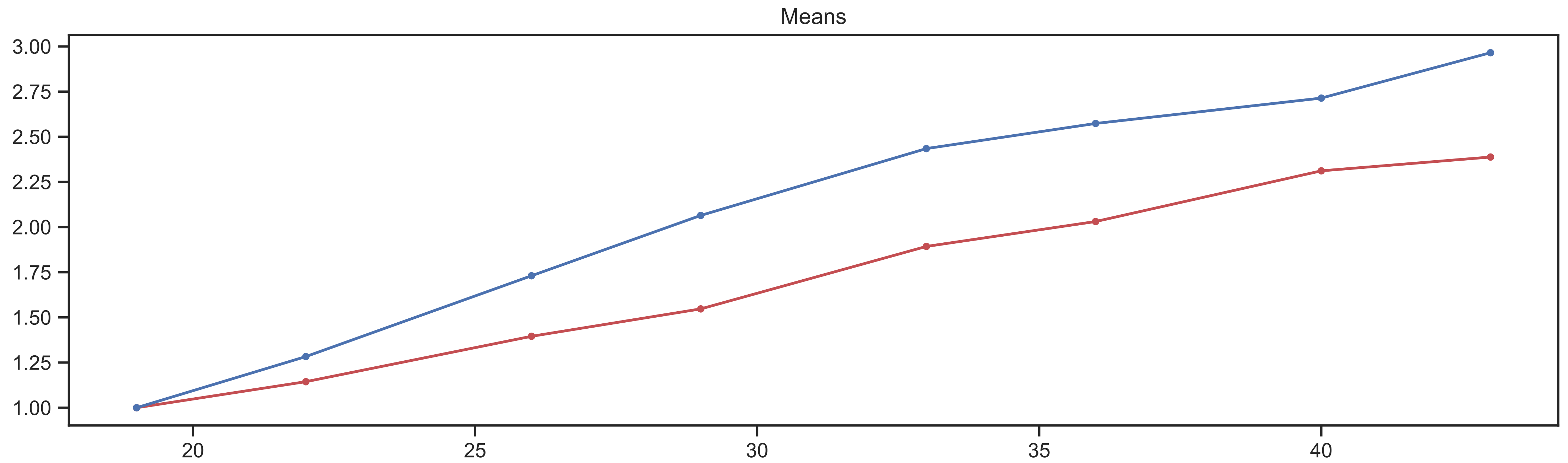
mRECIST: (0,0,3,0
kl: 8.236158793956925
response_angle_rel: 0:0.009071381116073453_1:0.009225665816093642_2:0.017557192008501876
response_angle_rel_control: 0:0.0_1:0.0_2:0.0_3:0.0_4:0.0_5:0.0_6:0.0_7:0.0_8:0.0_9:0.0_10:0.0_11:0.0_12:0.0
auc_norm: 0:0_1:0_2:0
auc_control_norm: 0:0_1:0_2:0_3:0_4:0_5:0_6:0_7:0_8:0_9:0_10:0_11:0_12:0
tgi: nan
red = treatment,   blue=control

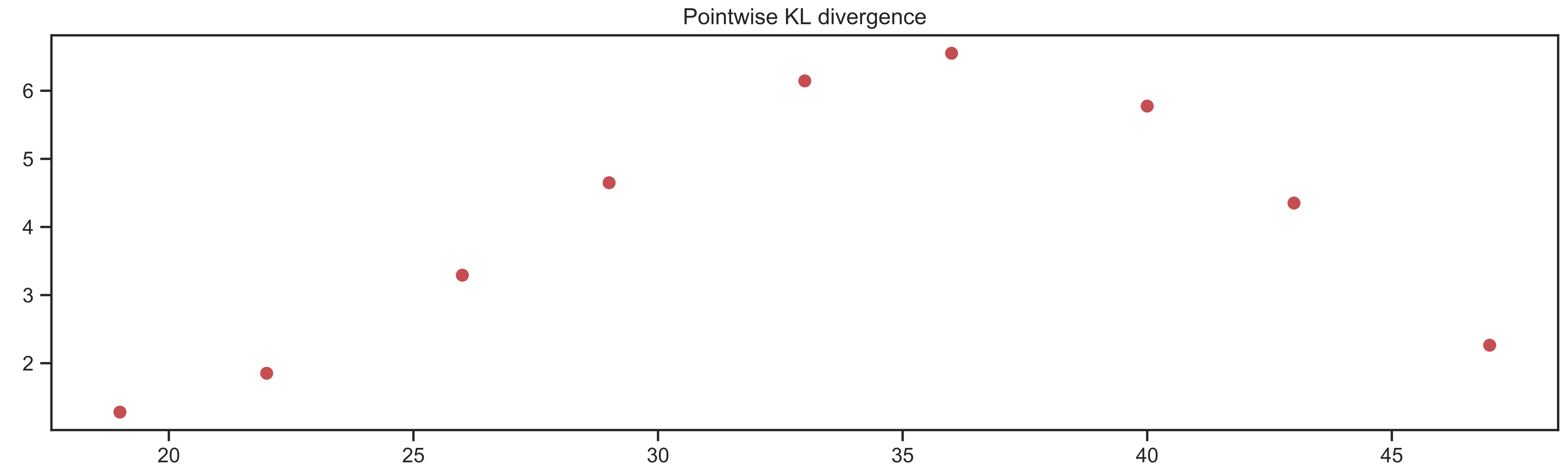


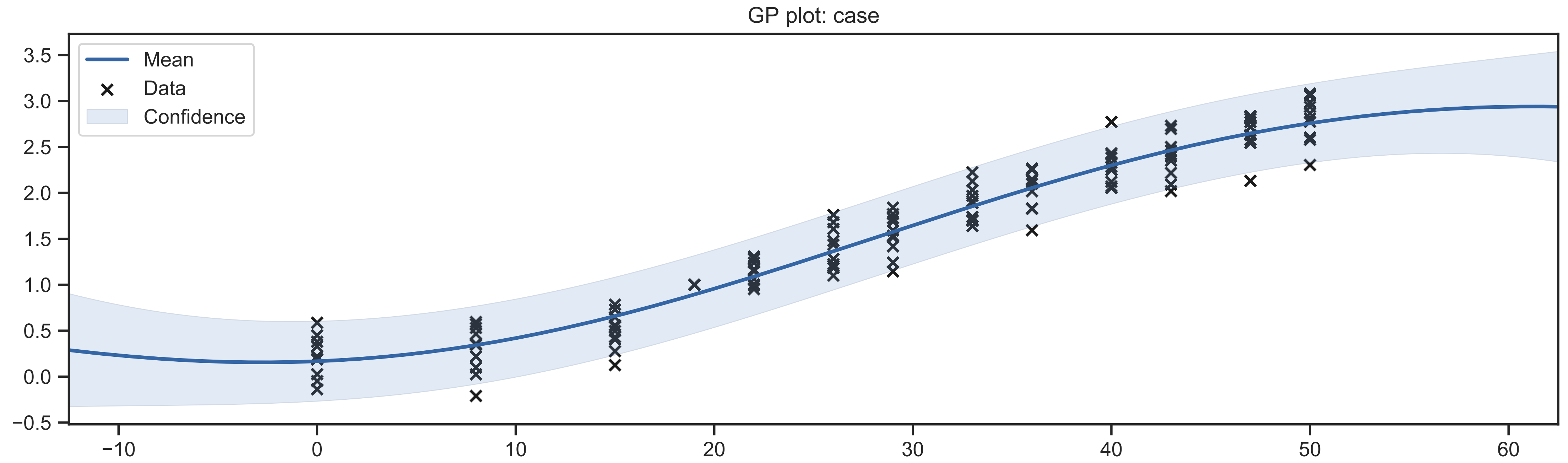
P48*C1

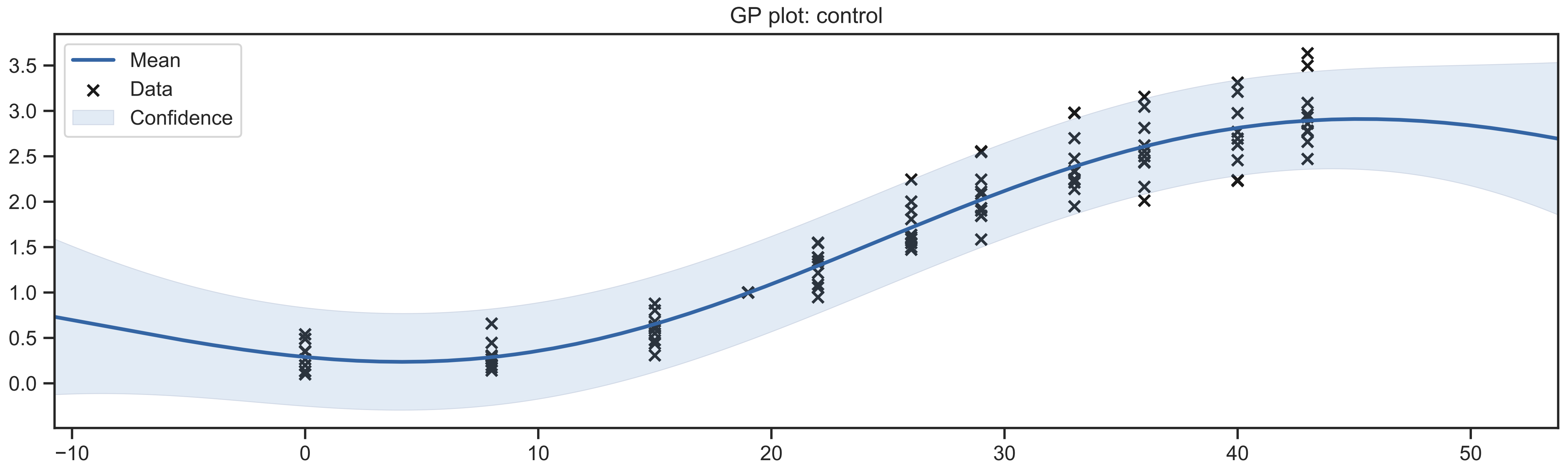


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

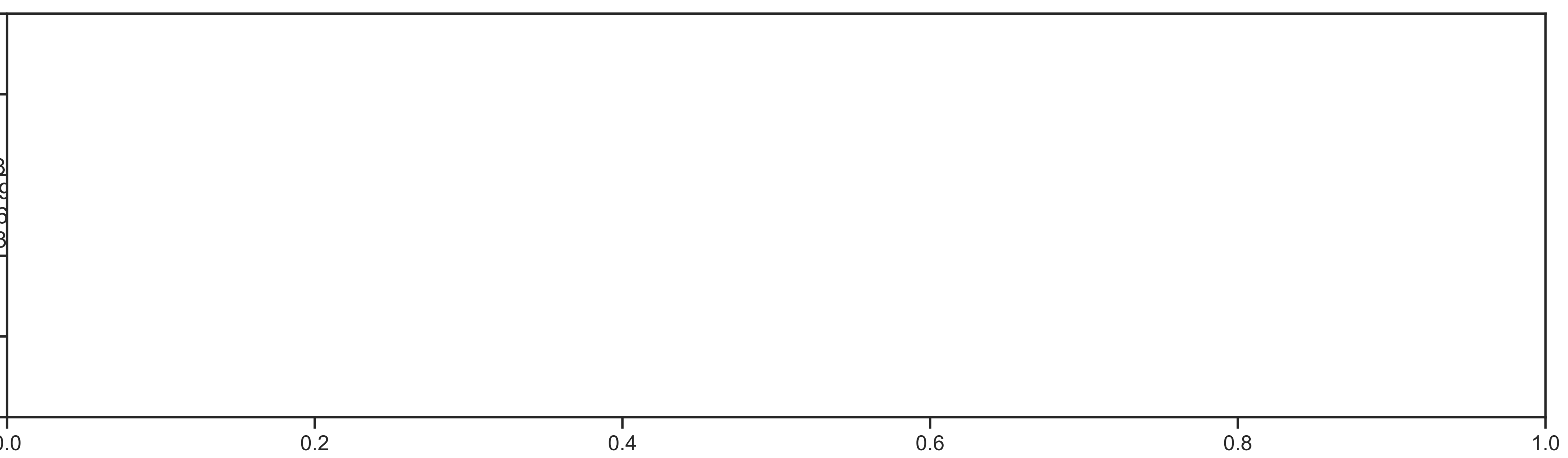




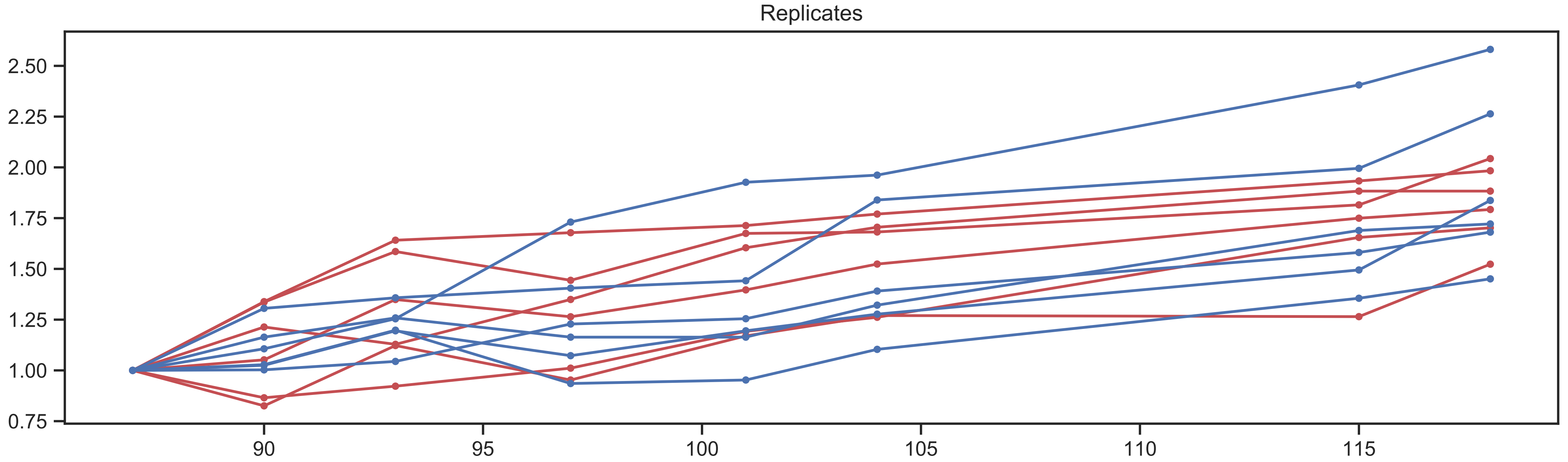




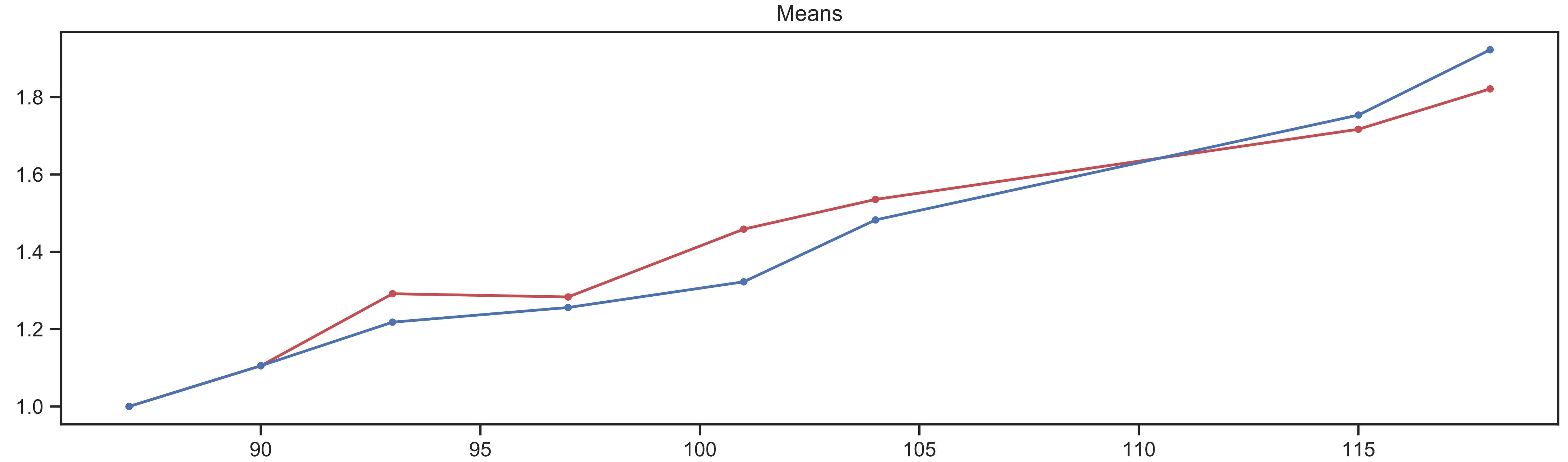
mRECIST: (0,0,8,2
kl: 3.3273282943773106
response_angle_rel: 0:0.02732553132807383_1:0.013072088657257907_2:0.015627392168245168_3:0.025511079162409266_4:0.018511102733925883_5:0.01083846238
response_angle_rel_control: 0:0.1480855689854909_1:0.09535933103140763_2:0.10352066511716339_3:0.09693907292004277_4:0.08715039139962344_5:0.2087548189
auc_norm: 0:0.4537172266896257_1:0.3066505673610867_2:0.3850453493423596_3:0.395774652092551_4:0.4552068578580184_5:0.44499816574509593_6:0.3212636
auc_control_norm: 0:[0.54541407]_1:[0.54862035]_2:[0.58739033]_3:[0.55665429]_4:[0.51630603]_5:[0.79903897]_6:[0.74526974]_7:[0.39714435]_8:[0.47738934]_9:[0.5793
tgi: 0.22356319802558466
red = treatment,   blue=control

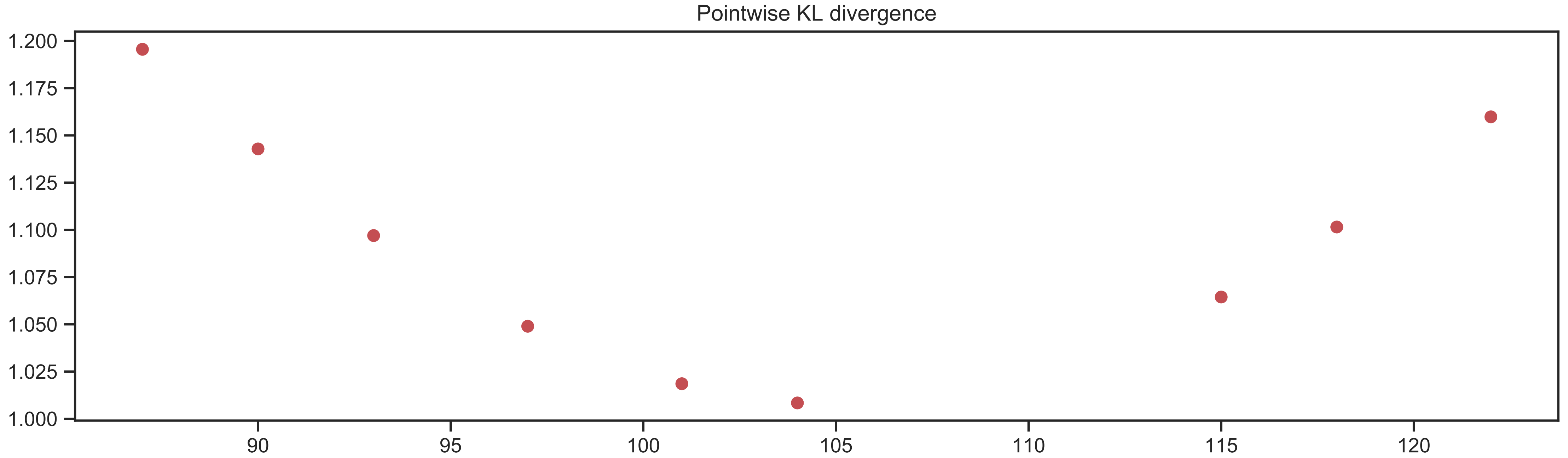


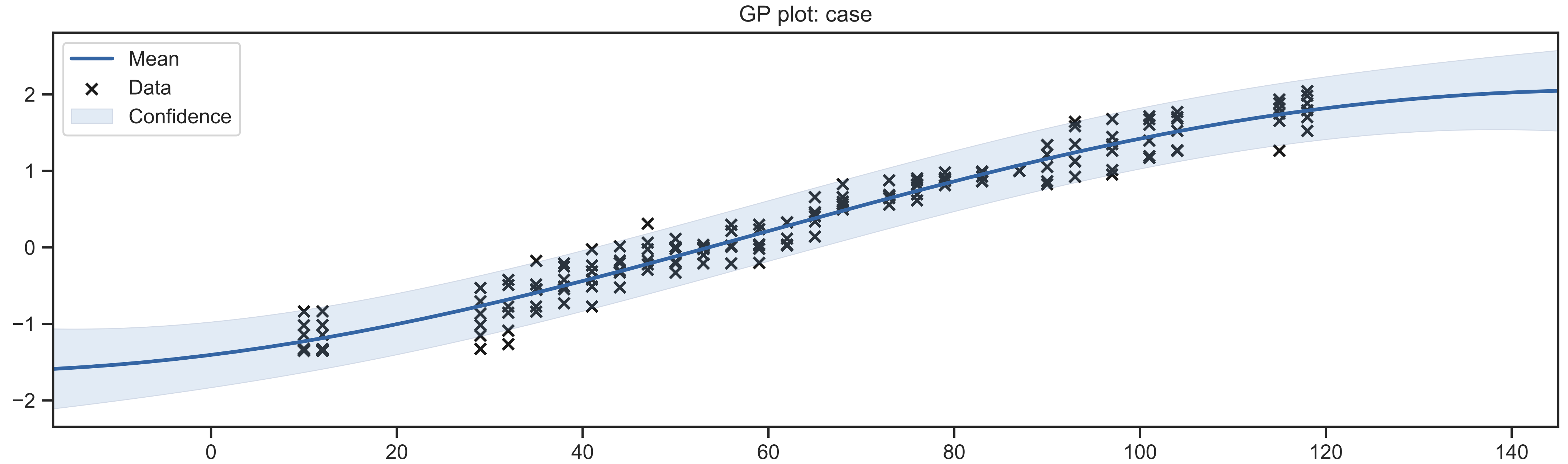
P49*C1

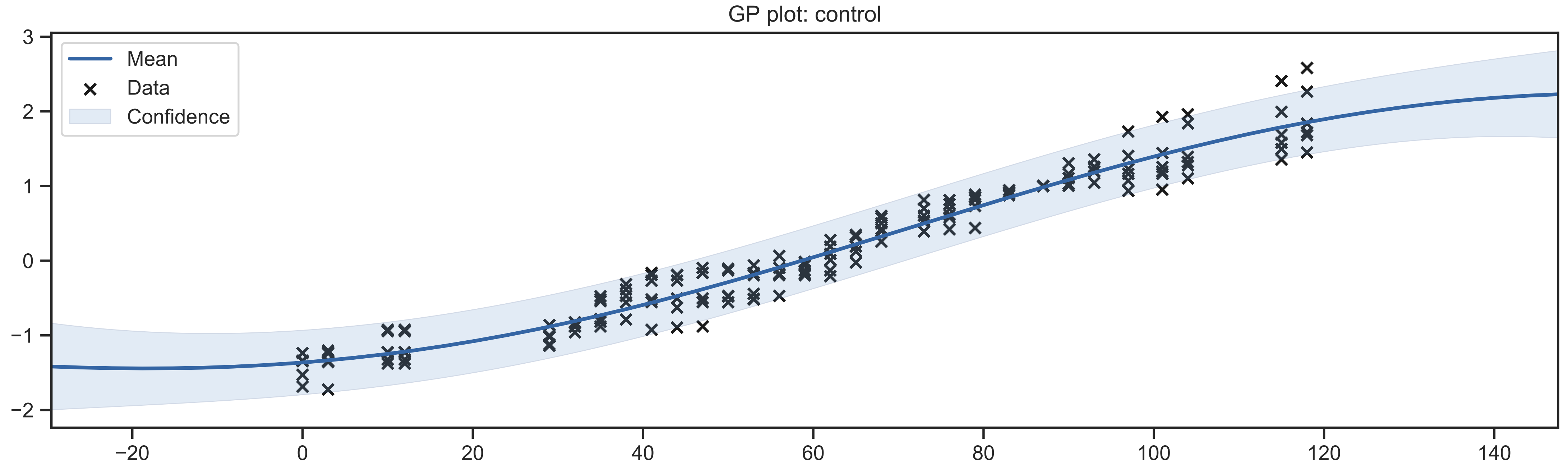


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

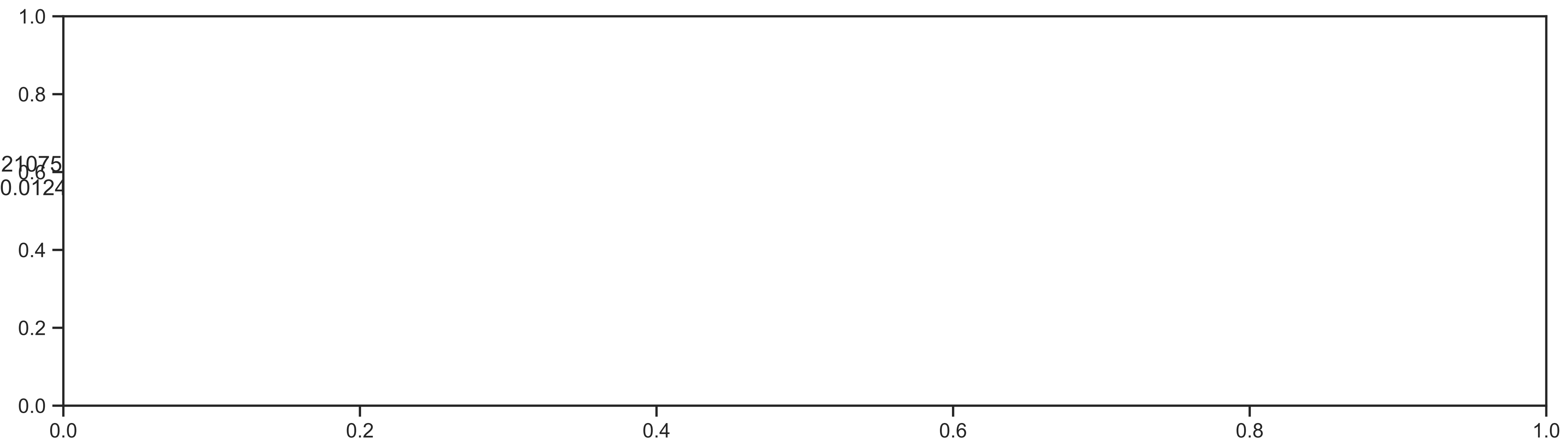




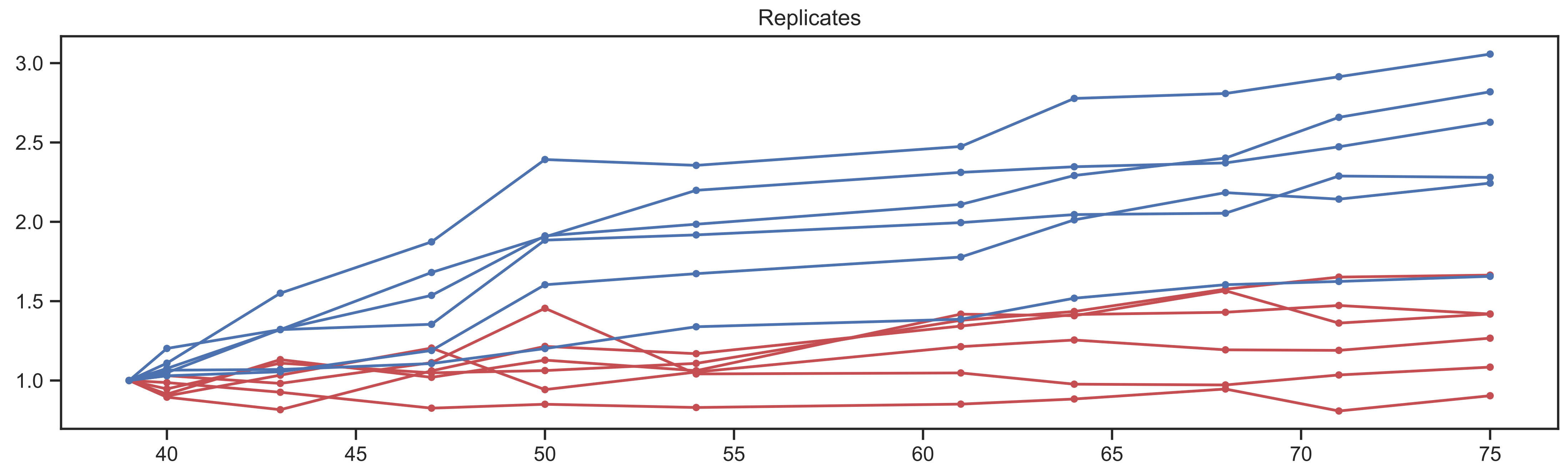




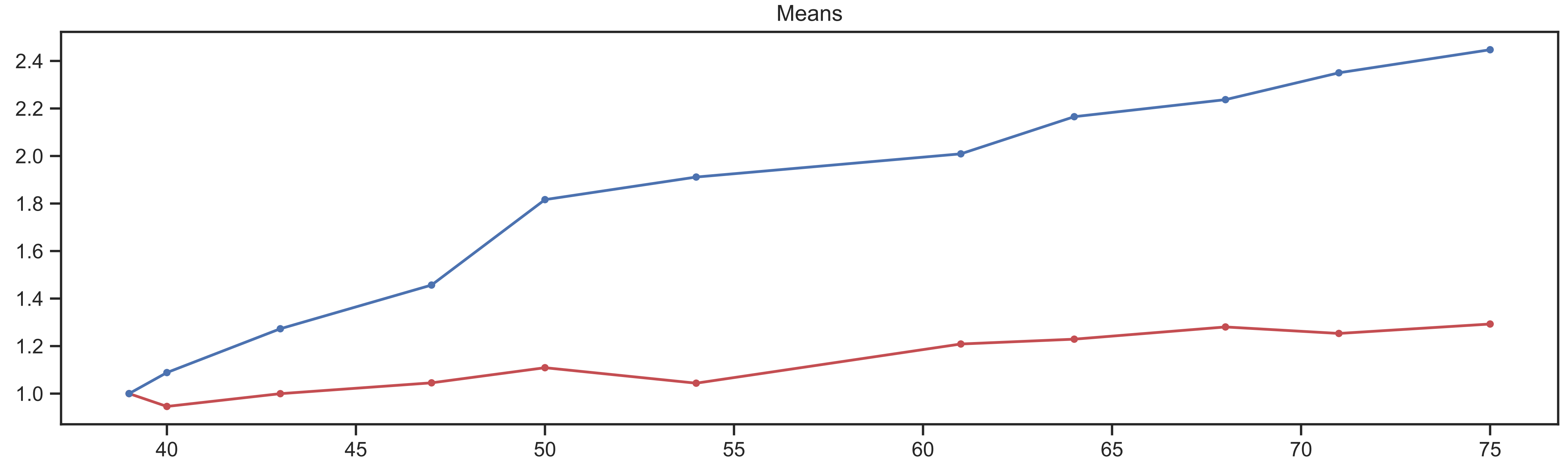
mRECIST: (0,0,4,2
kl: 0.06730581849885232
response_angle_rel: 0:0.010039693514720865_1:0.008289012528509849_2:0.01032706243270948_3:0.006574664200127048_4:0.004240877732010103_5:0.00288221075
response_angle_rel_control: 0:0.01845883430366438_1:0.0059582814014330215_2:0.0024779469567965374_3:0.004563982802721766_4:0.0062032468291882 6_5:0.0124
auc_norm: 0:0.3079082516504321_1:0.21154959821403033_2:0.2822098335647141_3:0.20540995431549627_4:0.11620502202804334_5:0.17170402795709228
auc_control_norm: 0:[0.36331021]_1:[0.22623894]_2:[0.10970704]_3:[0.16335044]_4:[0.15918514]_5:[0.37639766]
tgi: 0.19347206931517547
red = treatment, blue=control

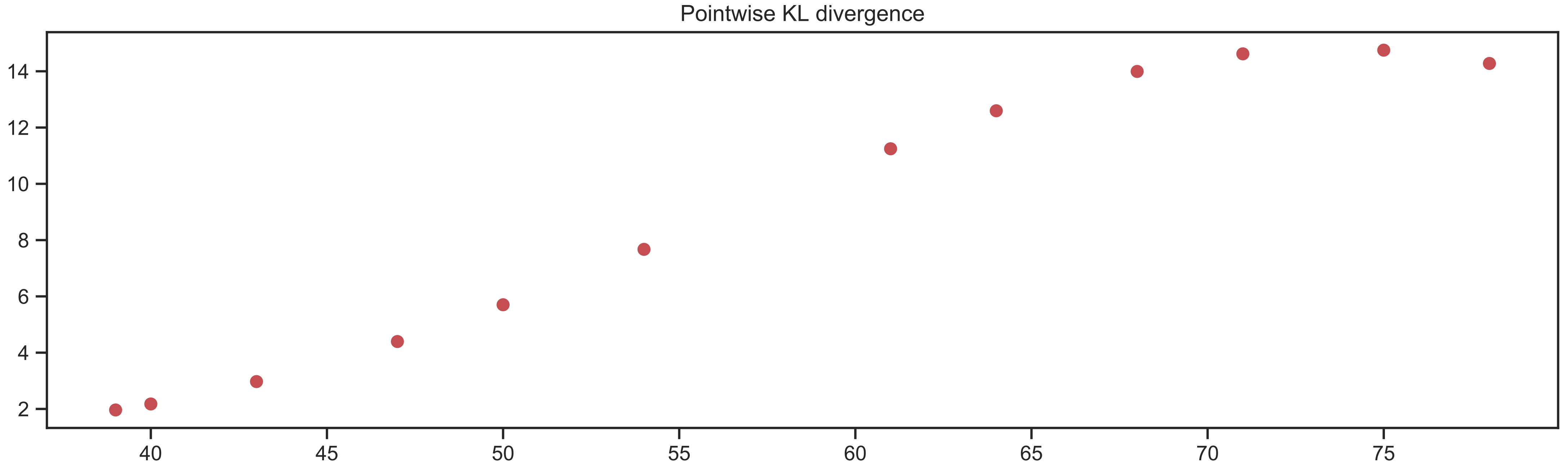


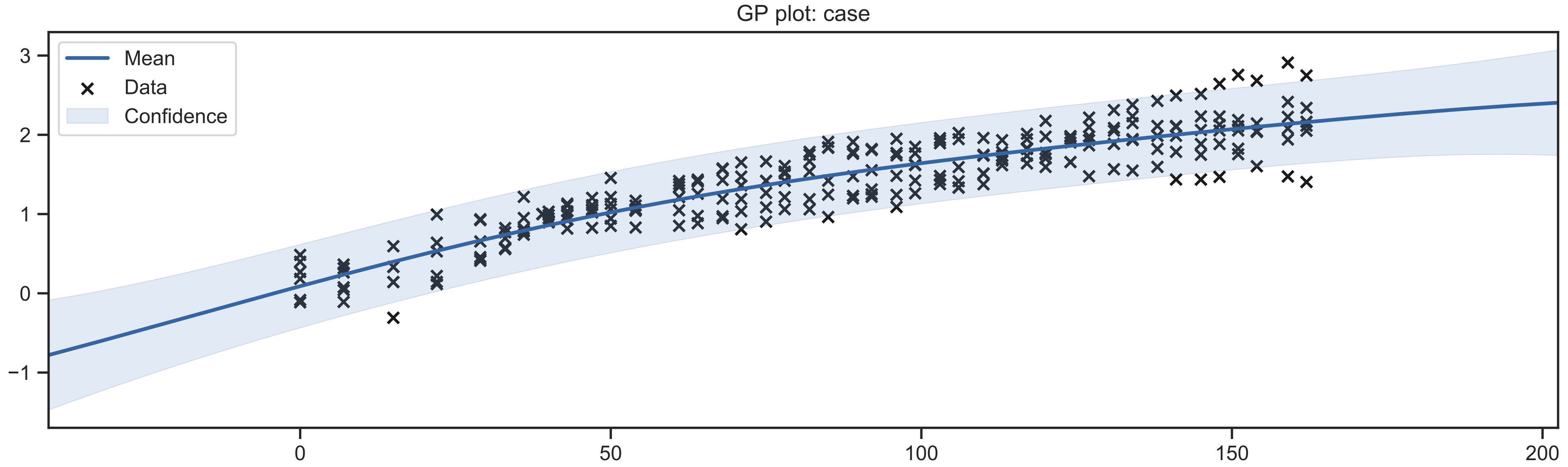
P50*C1

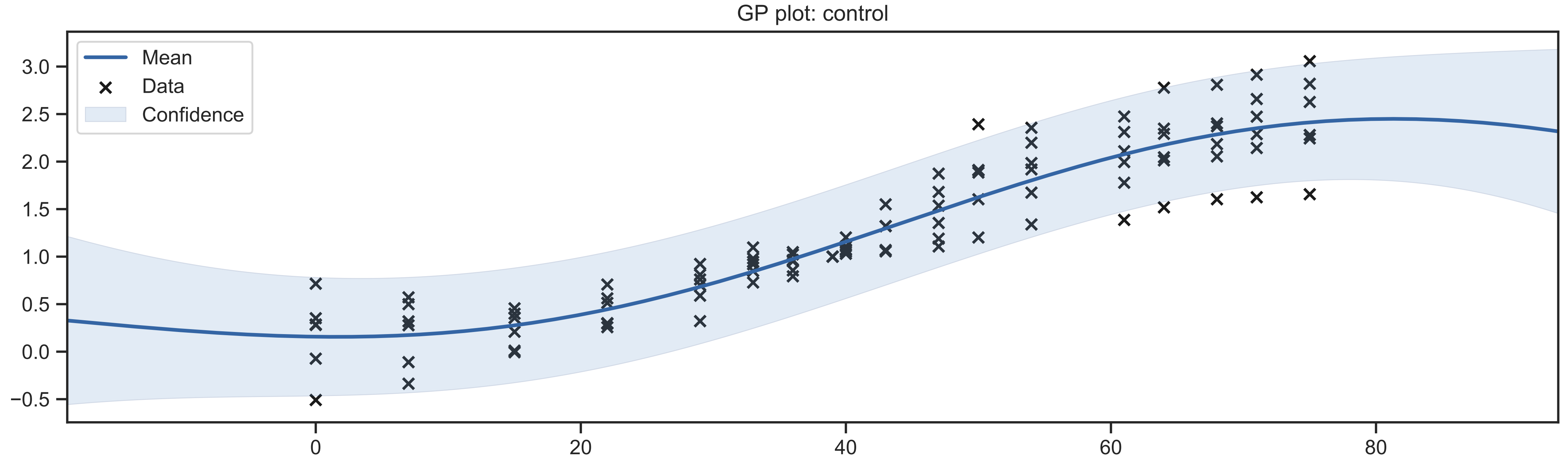

Replicates

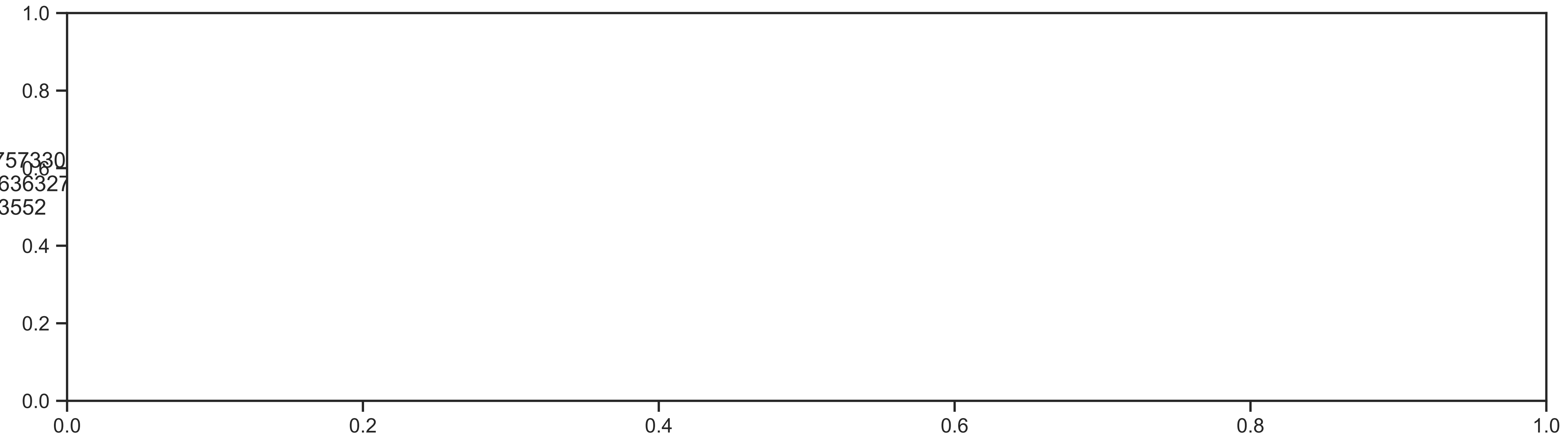
KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y


Means


Pointwise KL divergence

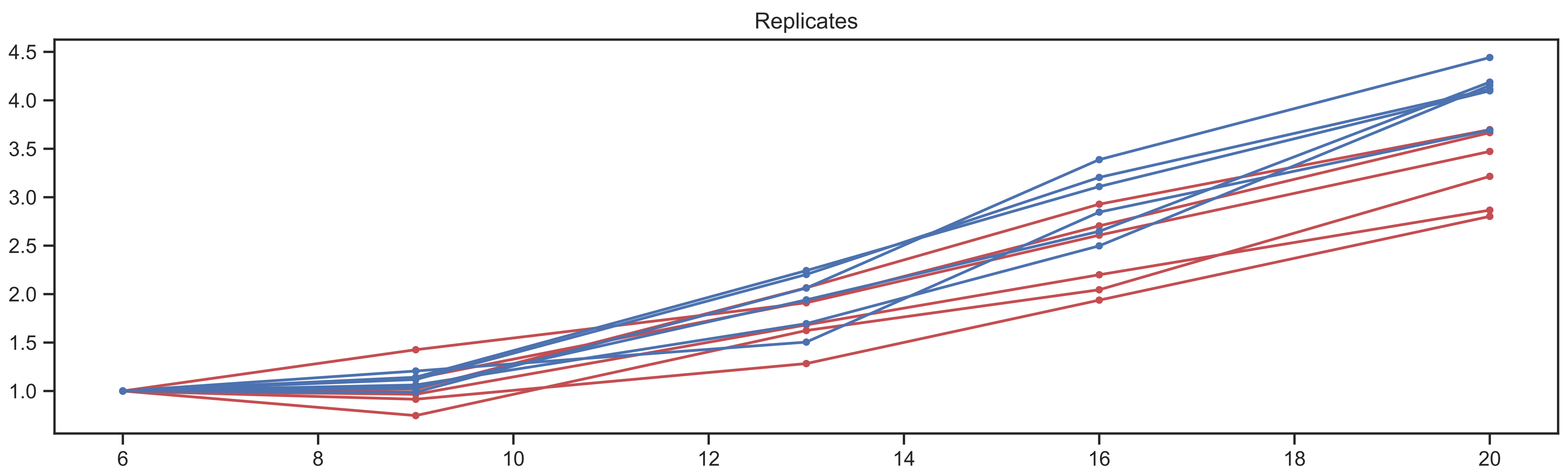

GP plot: case


GP plot: control

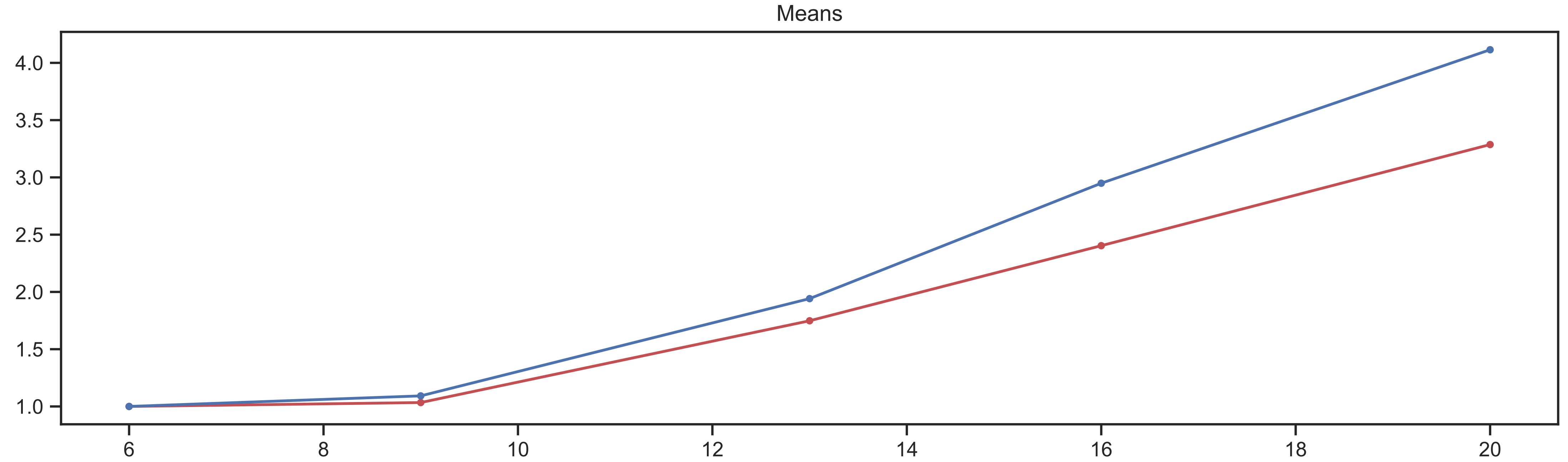


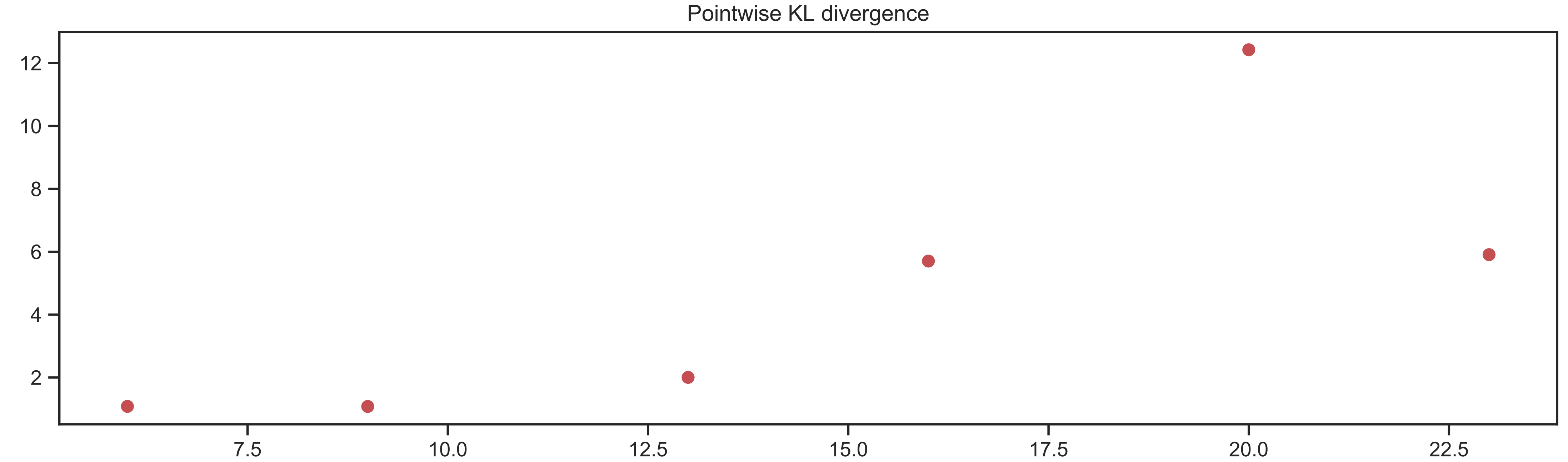
mRECIST: (0,0,6,0
kl: 8.419359139214617
response_angle_rel: 0:0.012200743818049219_1:0.014965554269610421_2:0.005600916378141826_3:0.02892765710157469_4:0.00837101413209953_5:0.016164757330
response_angle_rel_control: 0:0.009441453555348249_1:0.0274164362328503_2:0.06570241326932062_3:0.023588052031871483_4:0.04121973150962009_5:0.04636327
auc_norm: 0:0.06707660125428622_1:0.12288784375516598_2:-0.048006950478840266_3:0.023097347174830037_4:-0.03134903293504986_5:0.011303292181593552
auc_control_norm: 0:[0.22869572]_1:[0.54098035]_2:[0.69728096]_3:[0.37473535]_4:[0.50210676]_5:[0.56883355]
tgi: 0.7468188633239956
red = treatment, blue=control

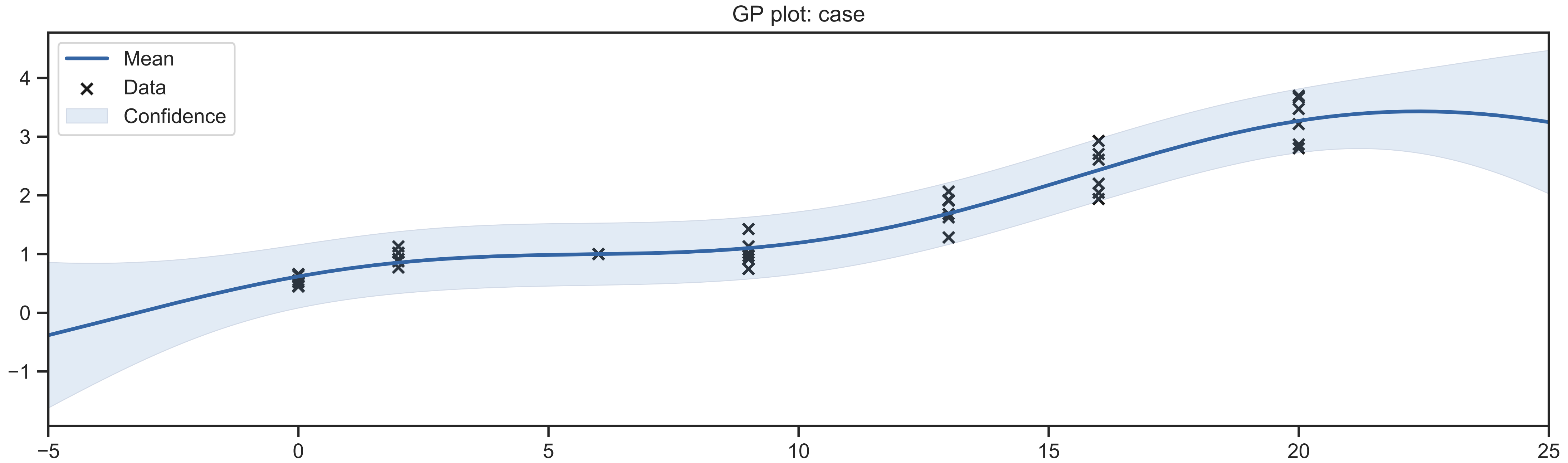
P51*C1

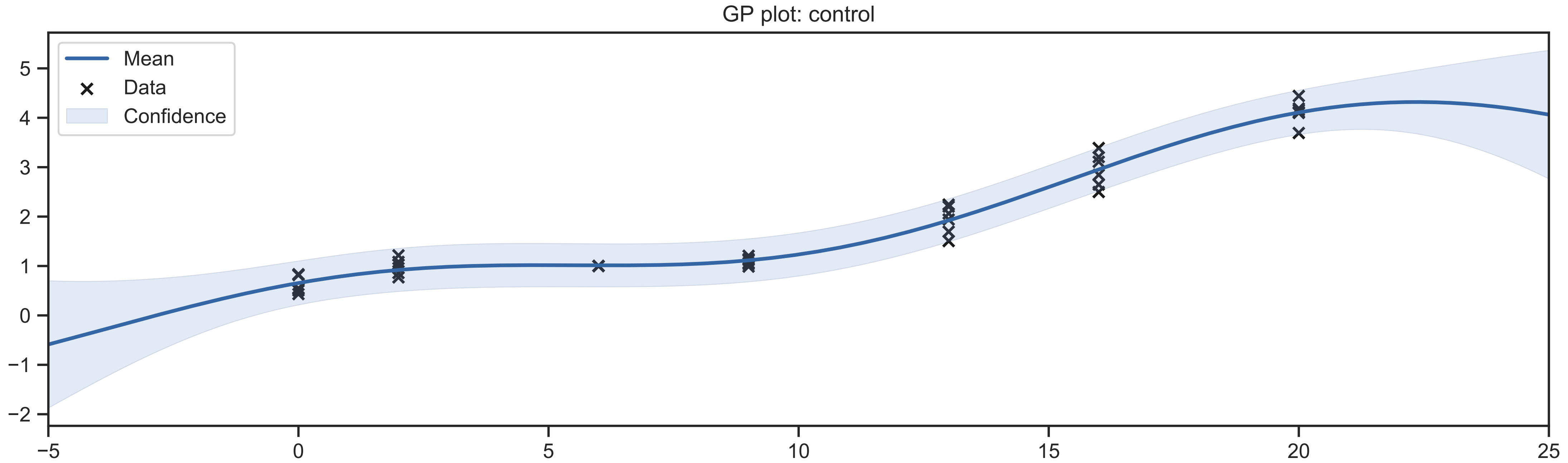


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N



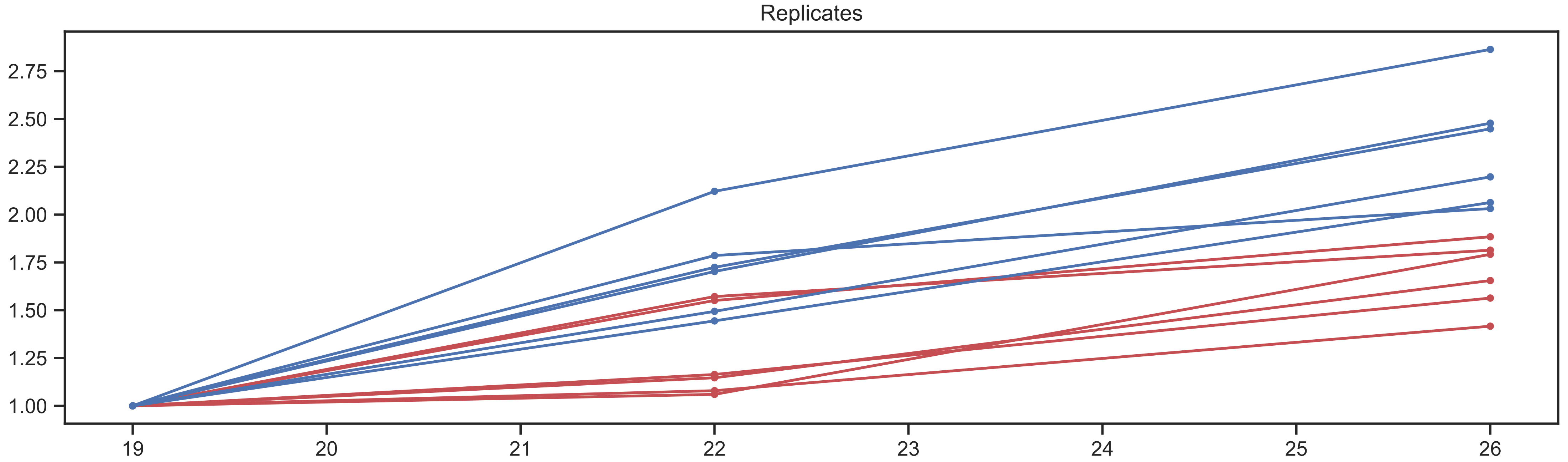




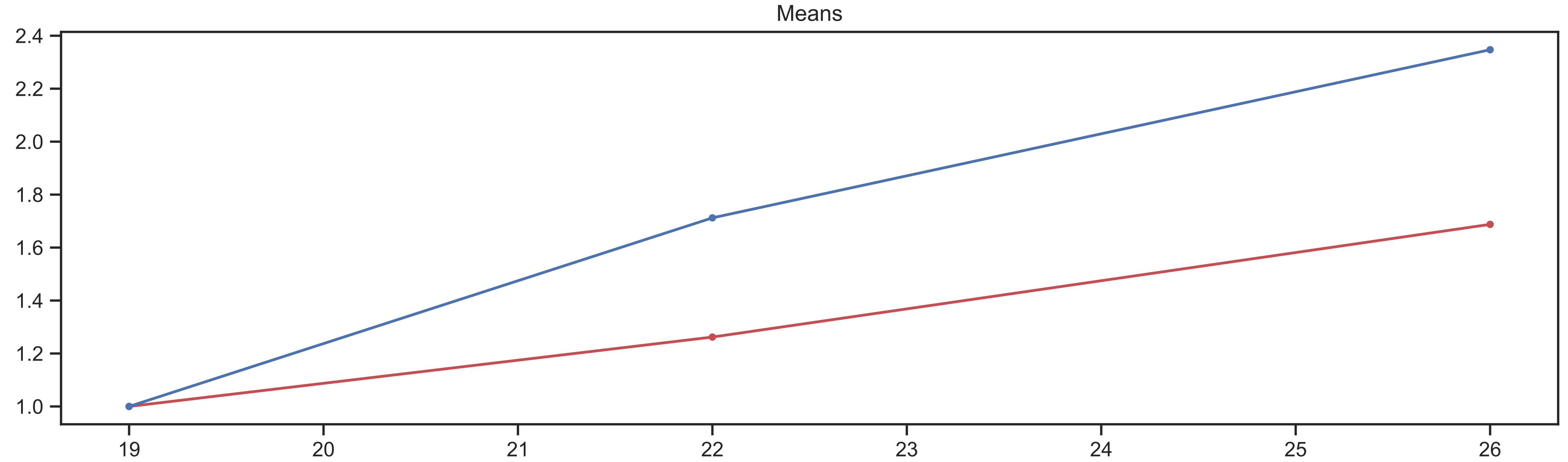


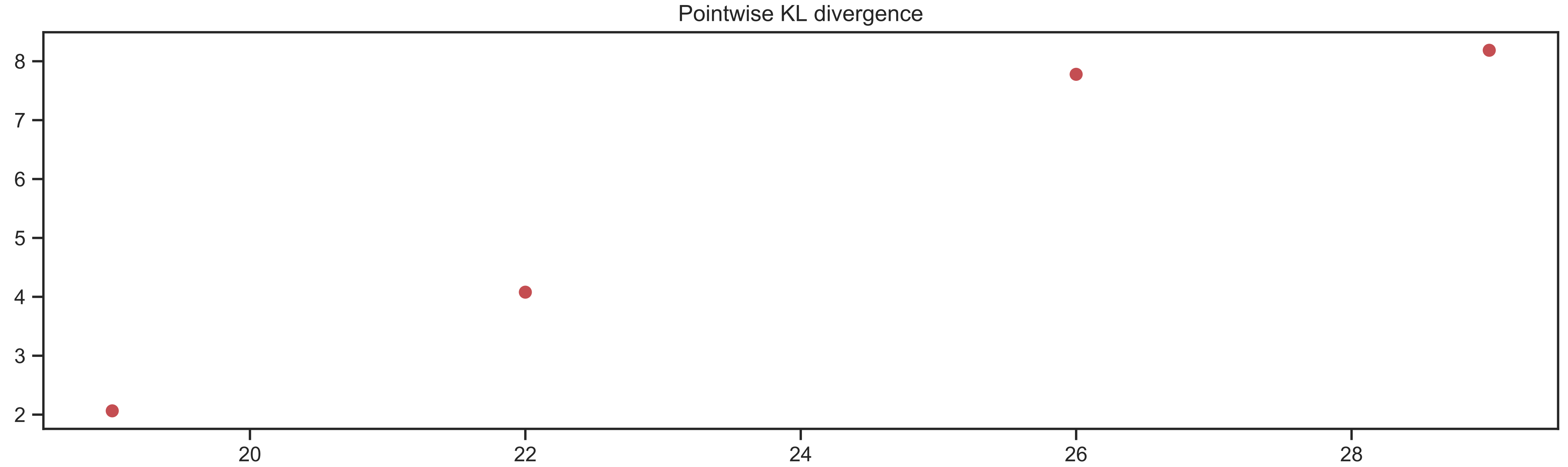
mRECIST: (0,0,5,1
kl: 4.095285289472177
response_angle_rel: 0:0.4504317118014565_1:0.5405494903369416_2:0.4882545585776076_3:0.2836530548329413_4:0.2991025652222636_5:0.28221541879300766
response_angle_rel_control: 0:0.9086603442831266_1:0.7126432697515781_2:0.7609223902452609_3:0.7502591896871466_4:0.8749280195548701_5:0.5565468100489
auc_norm: 0:0.71170744224248_1:0.7478592706682289_2:0.742535037840026_3:0.4980269740189347_4:0.5068832733969019_5:0.5676617713824904
auc_control_norm: 0:[0.85856678]_1:[0.87181266]_2:[0.86067268]_3:[0.85885337]_4:[0.96987844]_5:[0.80187611]
tgi: 0.23486432528127965
red = treatment,   blue=control

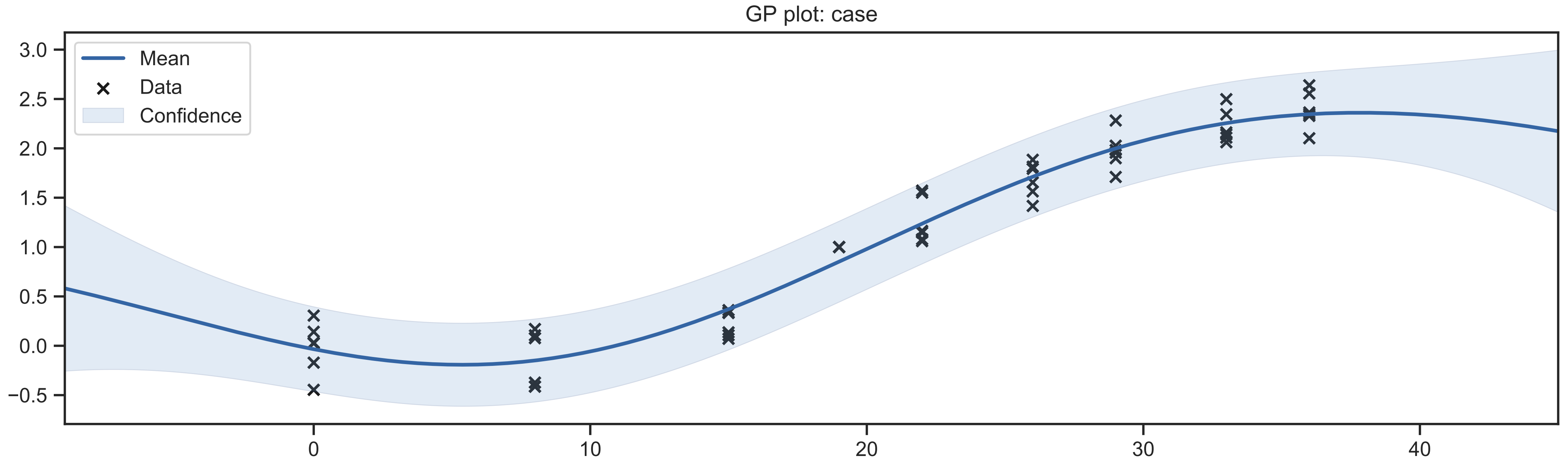
P52*C1

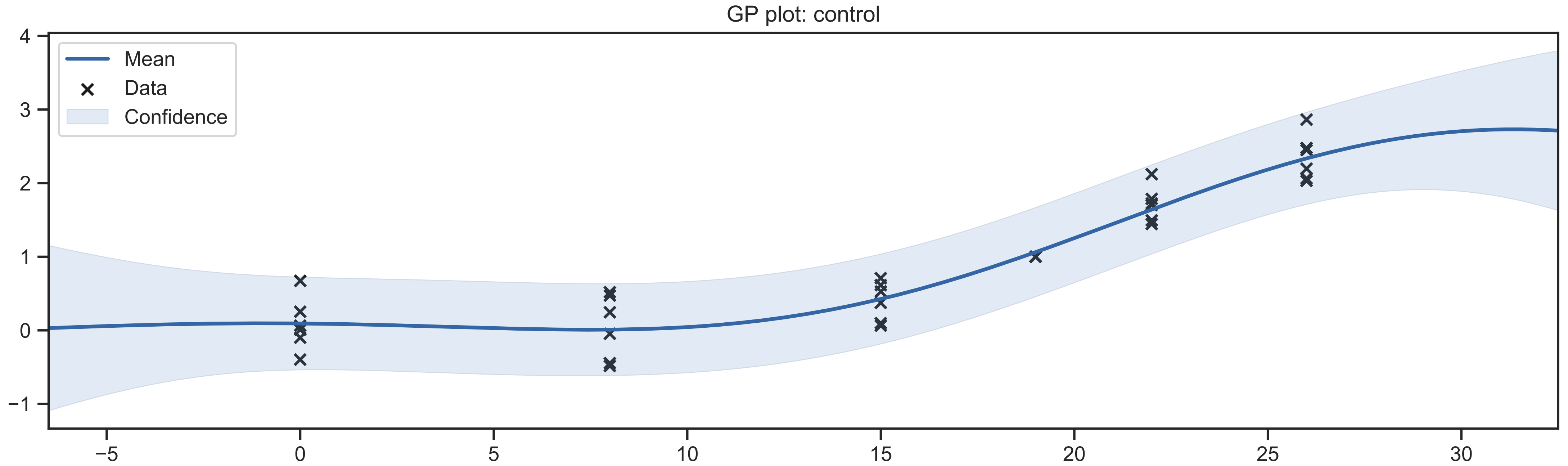


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

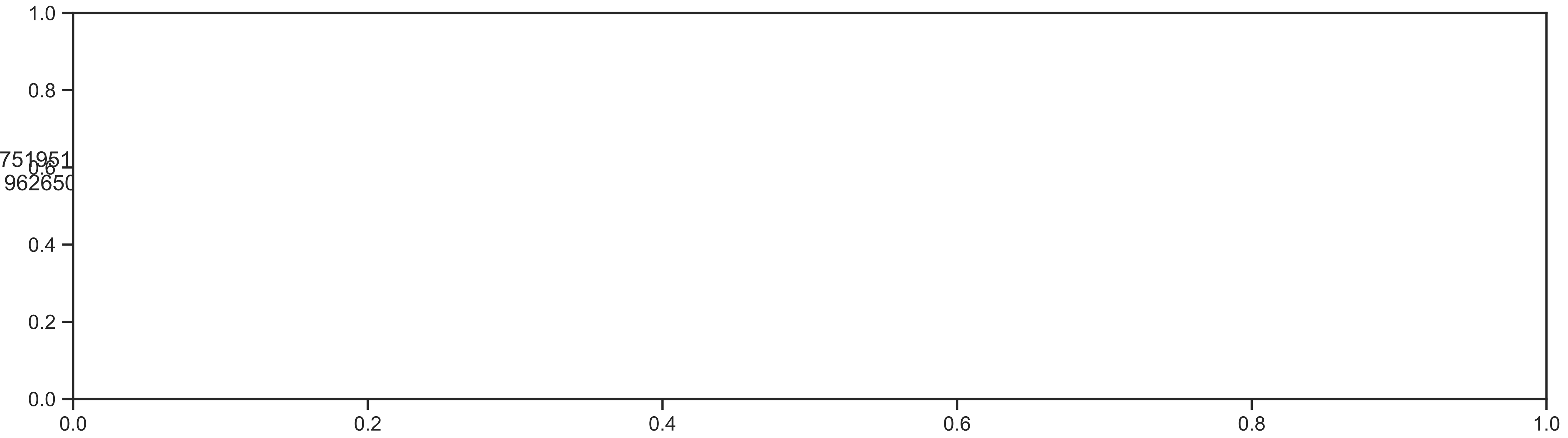




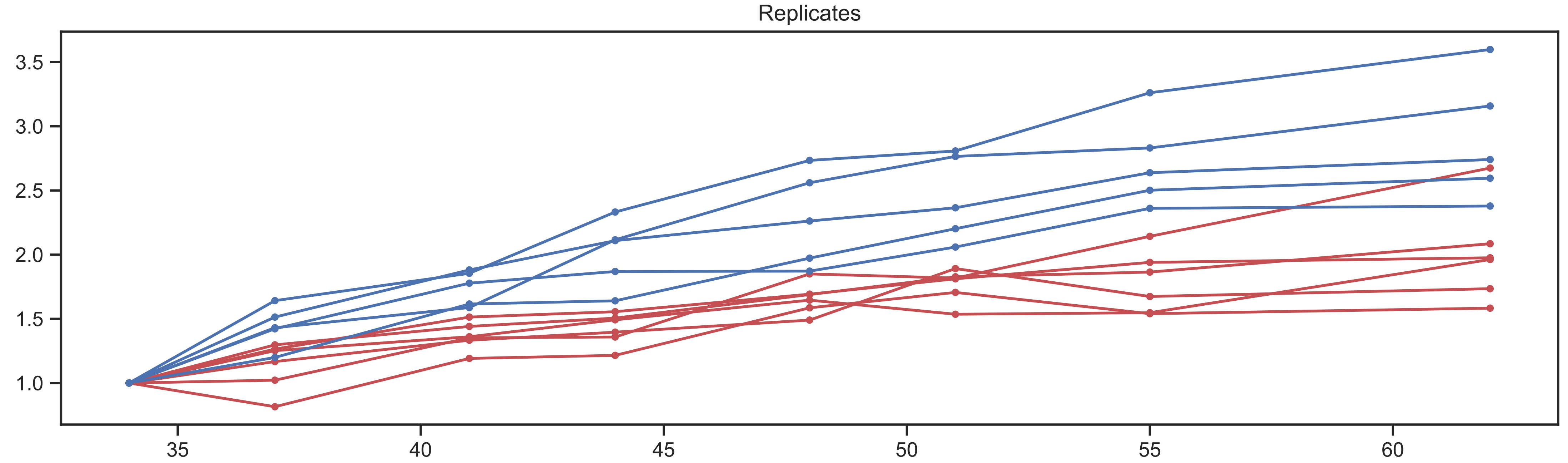




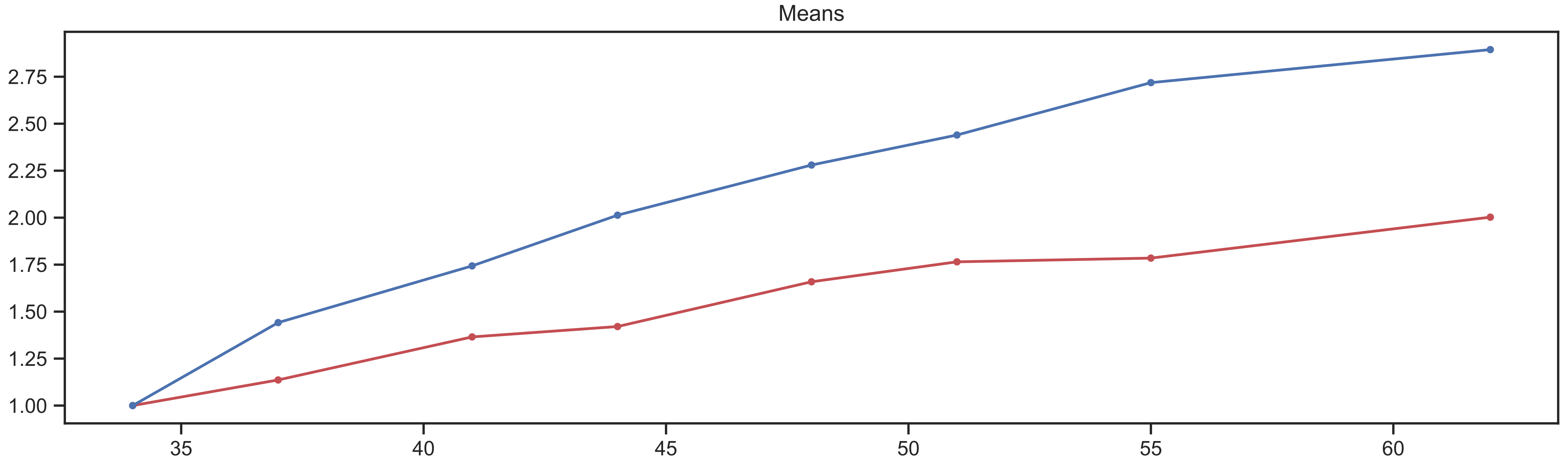
```
mRECIST: (0,0,4,2
kl: 4.758716797183912
response_angle_rel: 0:0.05872479232254475_1:0.002838922861163861_2:0.0017451995950601793_3:0.006917941698929197_4:0.009225973545445436_5:0.108575195
response_angle_rel_control: 0:0.07315397966359771_1:0.08666539644465263_2:0.1822432765944858_3:0.11579026872535192_4:0.10038000783546741_5:0.102196265
auc_norm: 0:0.15454276803190567_1:0.1107228900883091_2:0.26697239682581797_3:0.2030364218302438_4:0.25109272336275335_5:0.1760276348058527
auc_control_norm: 0:[0.30282329]_1:[0.32338354]_2:[0.5594423]_3:[0.4280672]_4:[0.42246521]_5:[0.34047465]
tgi: 0.4705304751177082
red = treatment,       blue=control
```

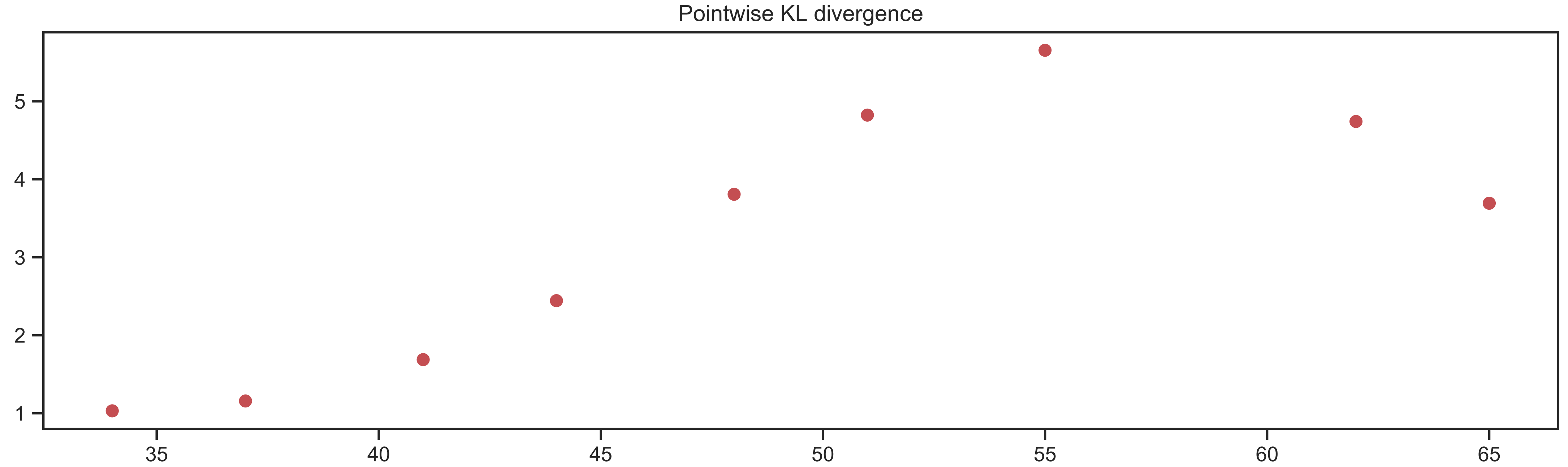


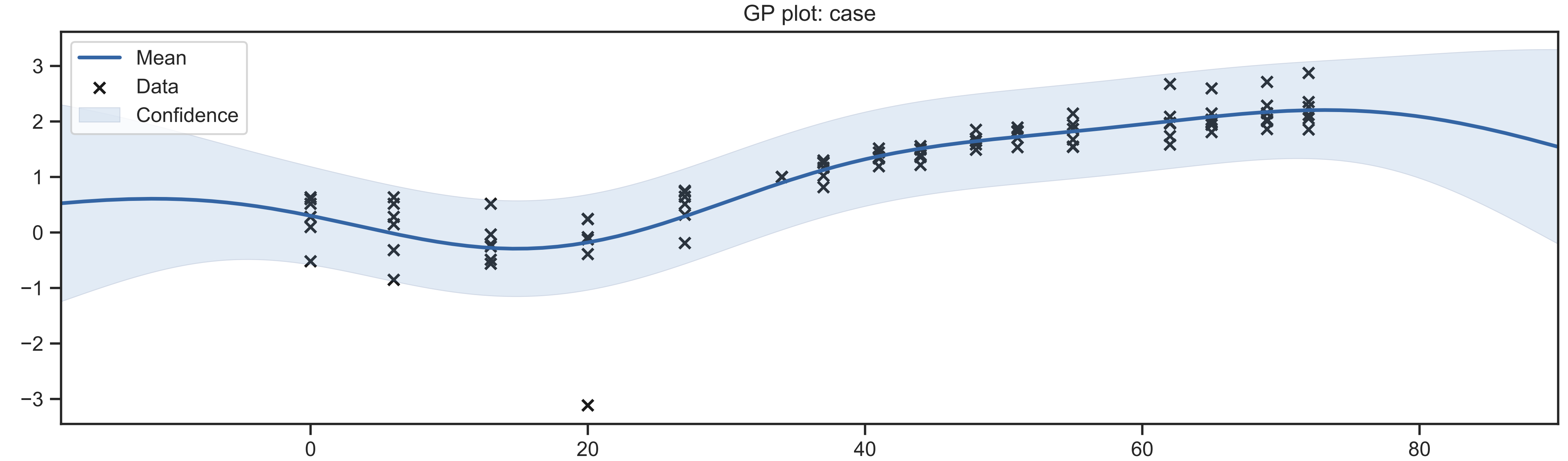
P53*C1

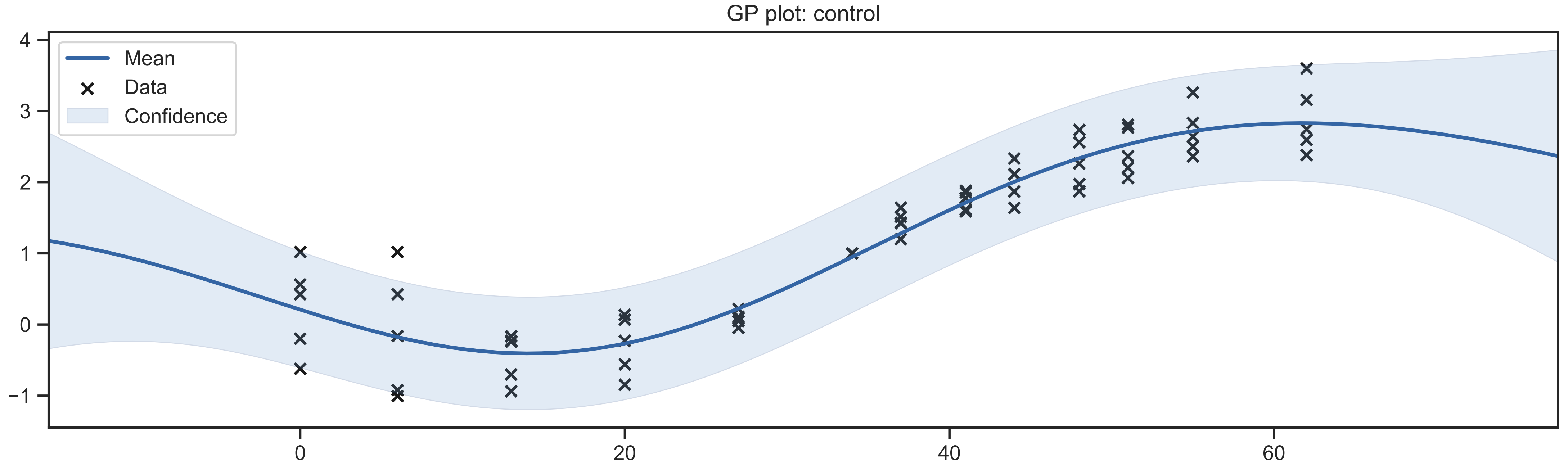

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

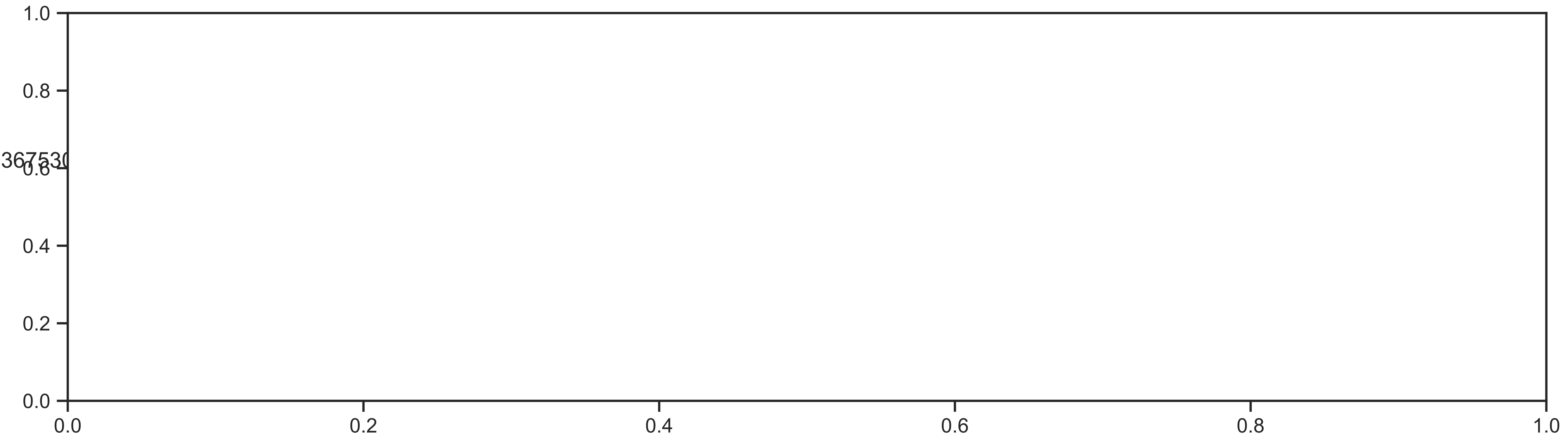

Means


Pointwise KL divergence

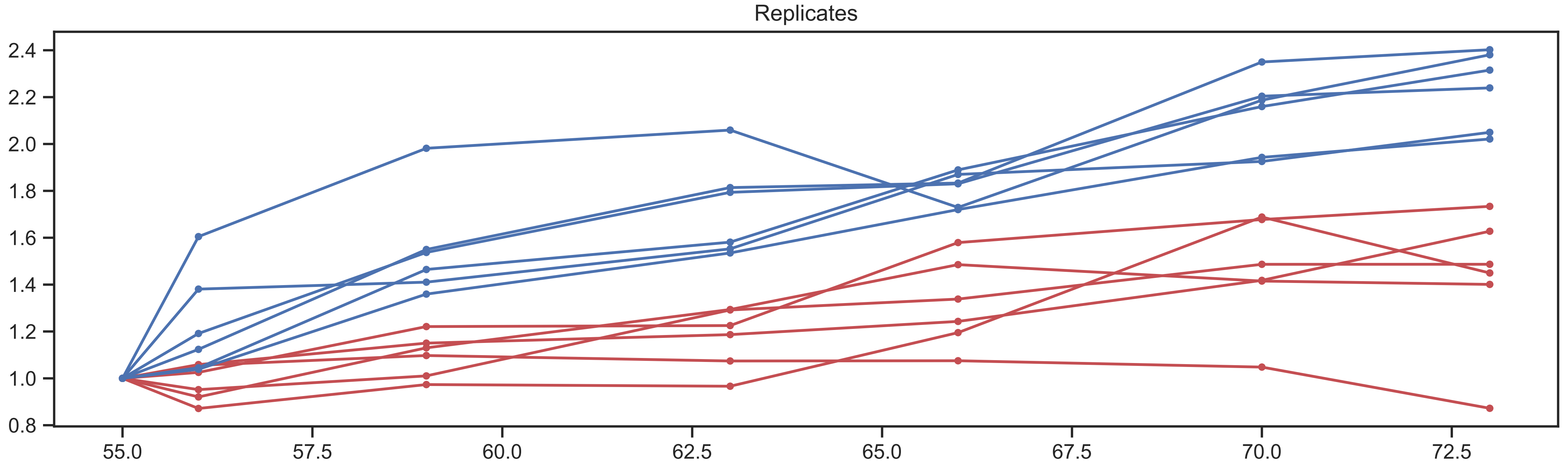

GP plot: case


GP plot: control

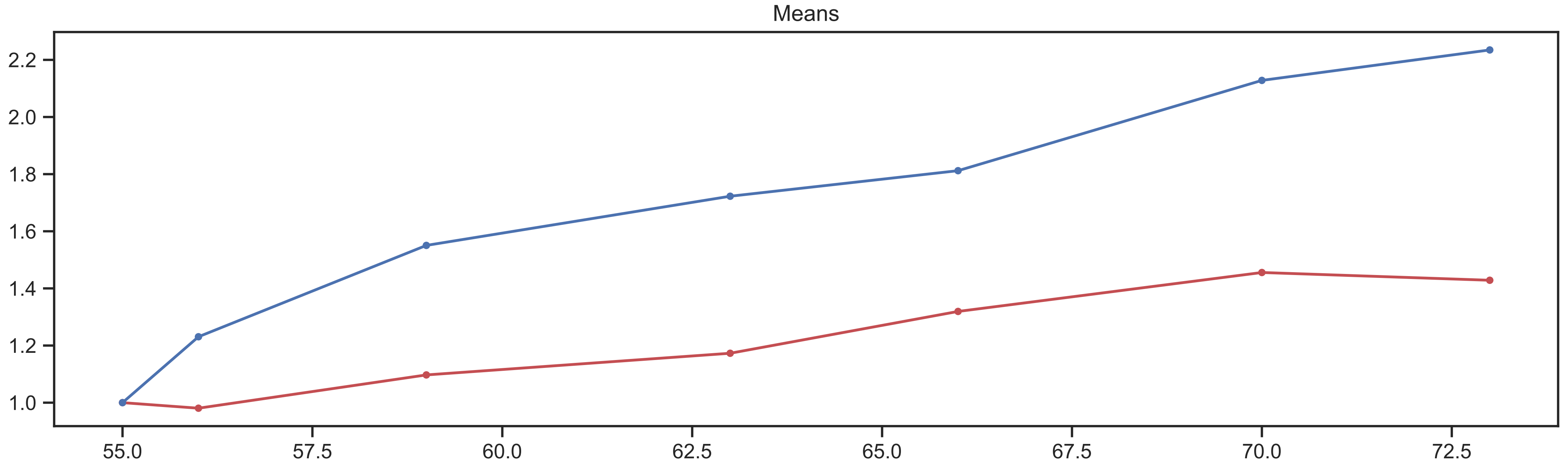
mRECIST: (0,0,2,4
kl: 2.710272201793093
response_angle_rel: 0:0.02198682338439456_1:0.026672700638719706_2:0.05518364632548626_3:0.004251628509284458_4:0.03911312604682691 5_5:-0.0022093675
response_angle_rel_control: 0:0.05811222550234025_1:0.08548055980785936_2:0.04367305581330011_3:0.037454833357993_4:0.13222336496671194
auc_norm: 0:0.22980475204565973_1:0.13770389872561628_2:0.2892981369298363_3:0.36133086841718237_4:0.2189381744676285_5:0.2755538745451173
auc_control_norm: 0:[0.4946171]_1:[0.60143035]_2:[0.42655479]_3:[0.4011591]_4:[0.71275084]
tgi: 0.4482209691553498
red = treatment,   blue=control

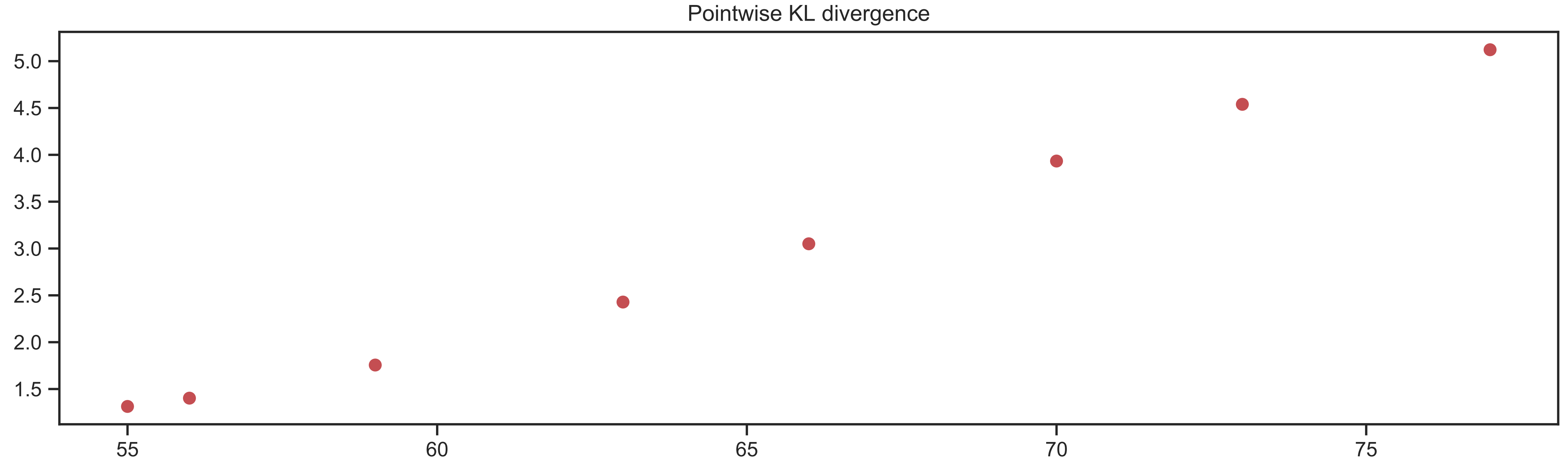


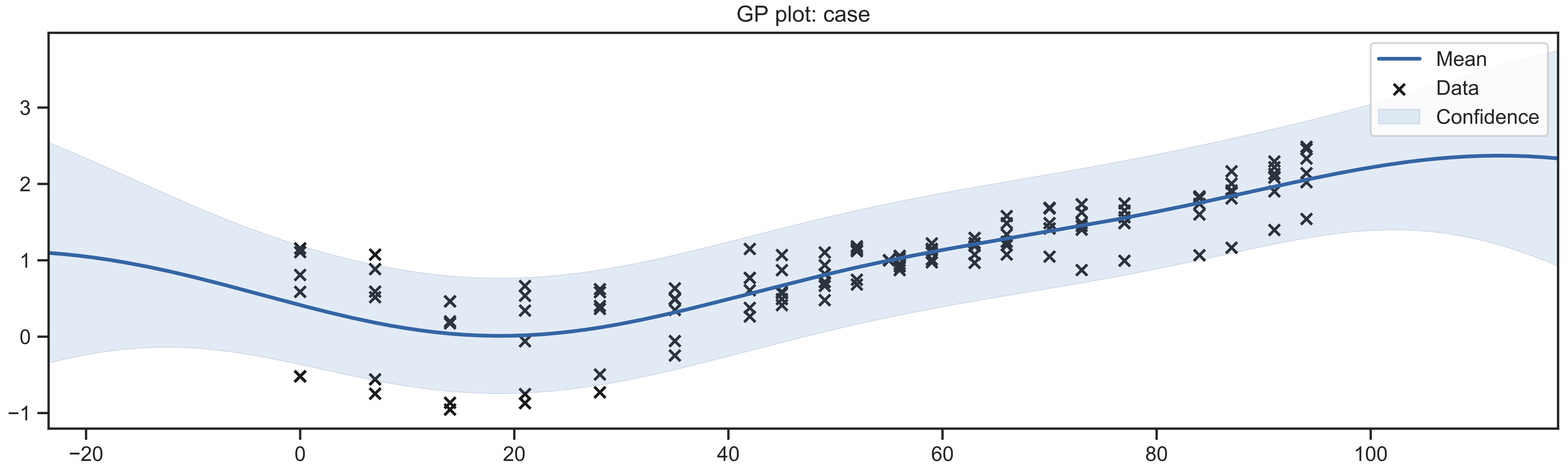
P54*C1

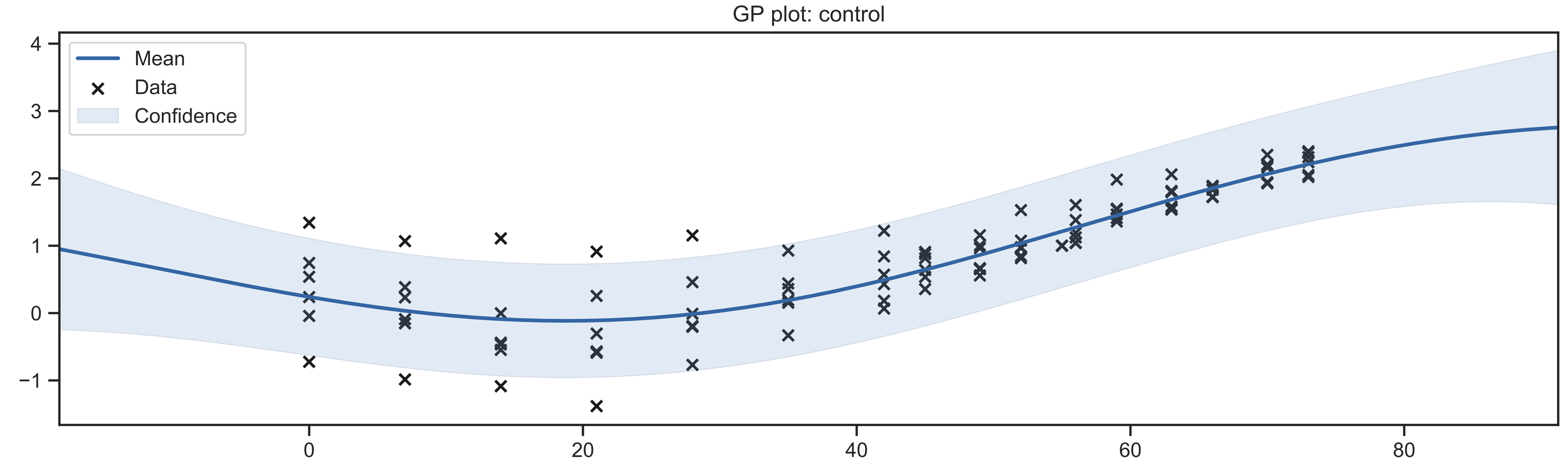

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: Y
TGI: Y

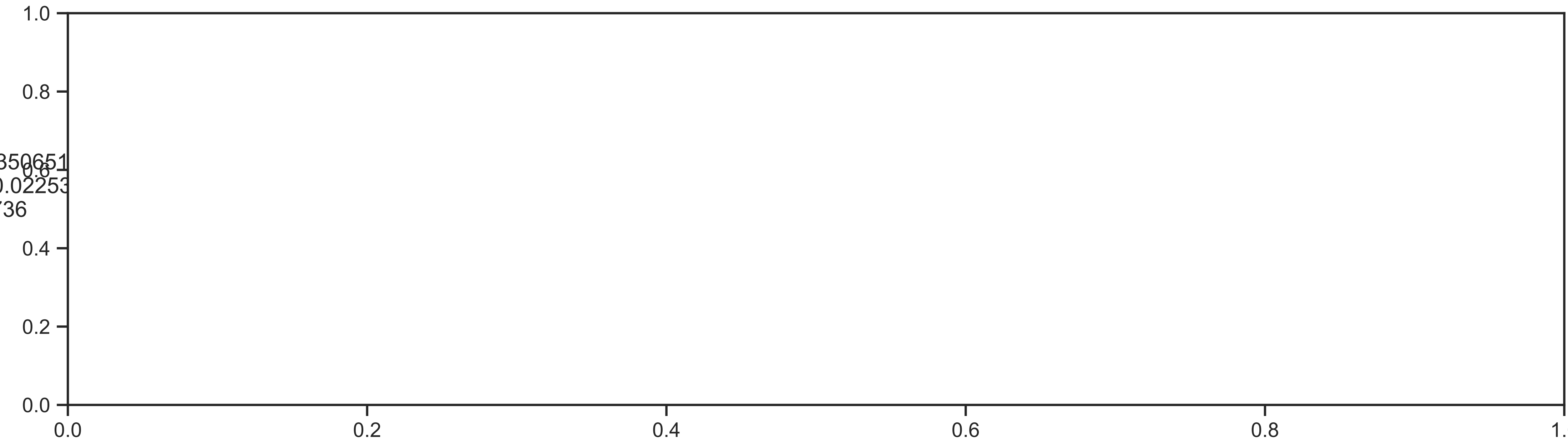

Means


Pointwise KL divergence

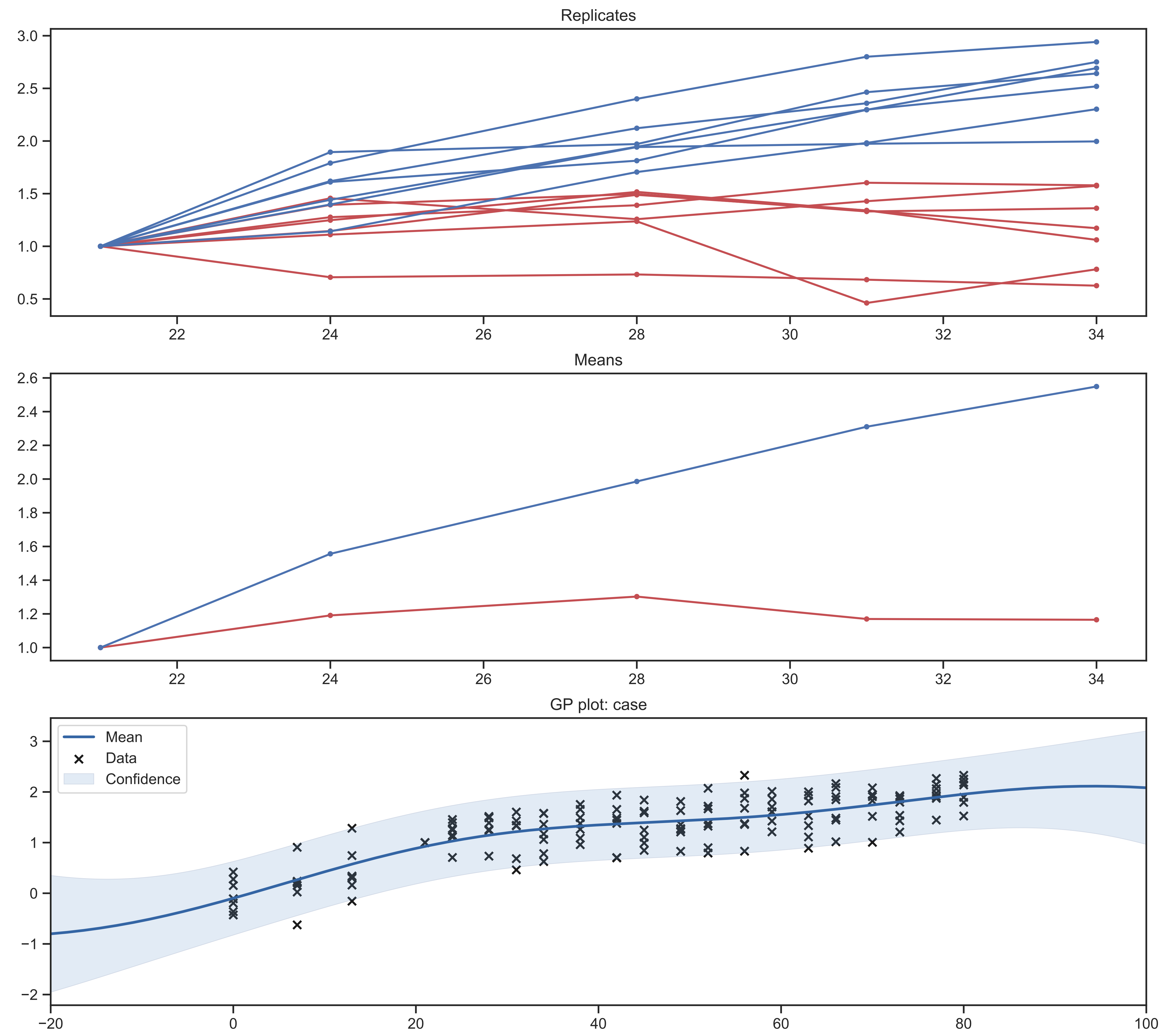

GP plot: case


GP plot: control

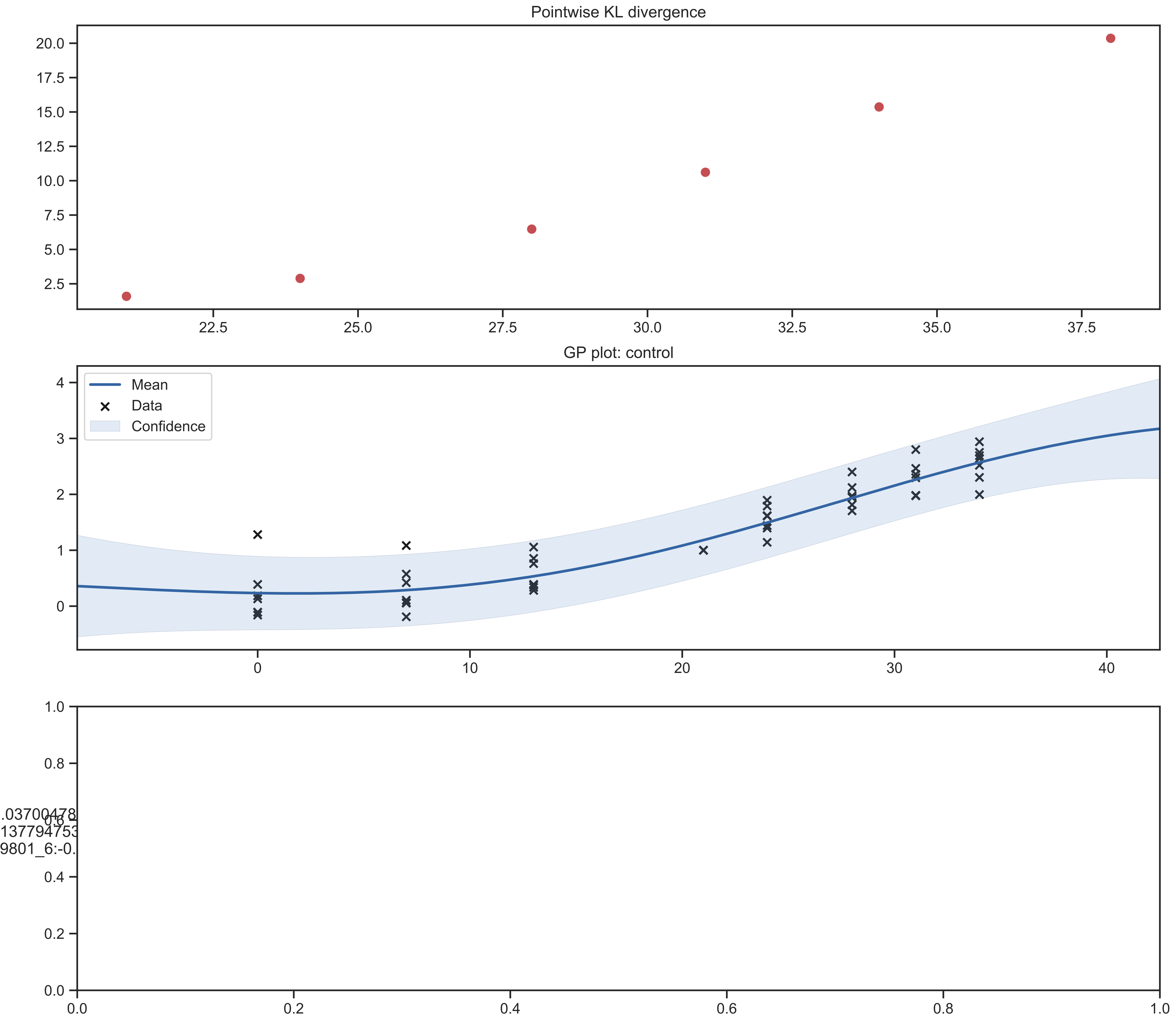
mRECIST: (0,0,6,0
kl: 2.1223923758659504
response_angle_rel: 0:-0.002447297398420464_1:-0.0010692311357138144_2:0.013965315051505126_3:0.026731416711030444_4:0.01011869096781783_5:0.028350651
response_angle_rel_control: 0:0.018292754562926842_1:0.023489854695604412_2:0.02629064287569943_3:0.029420747157658883_4:0.016461491117959408_5:0.02253
auc_norm: 0:0.09435167354545017_1:0.07292860378940737_2:0.2529273629722817_3:-0.0014760044515213996_4:0.23065858620973062_5:0.023530155901200736
auc_control_norm: 0:[0.58725142]_1:[0.48812456]_2:[0.48479809]_3:[0.81858566]_4:[0.33298874]_5:[0.43616081]
tgi: 0.6478959285832453
red = treatment,   blue=control



P55*C1

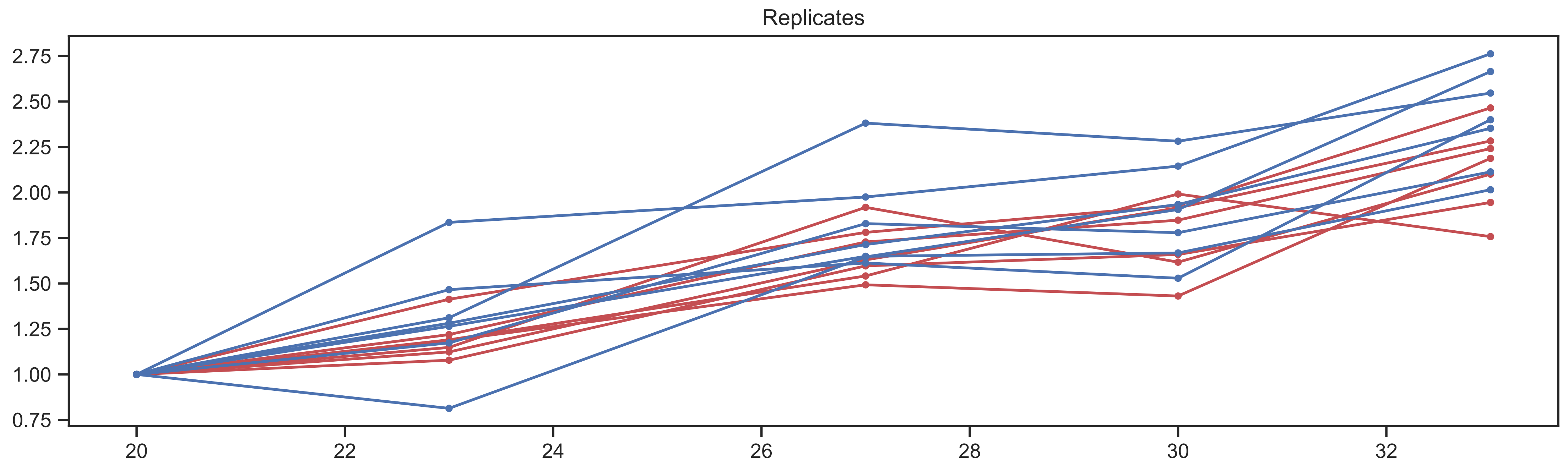


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

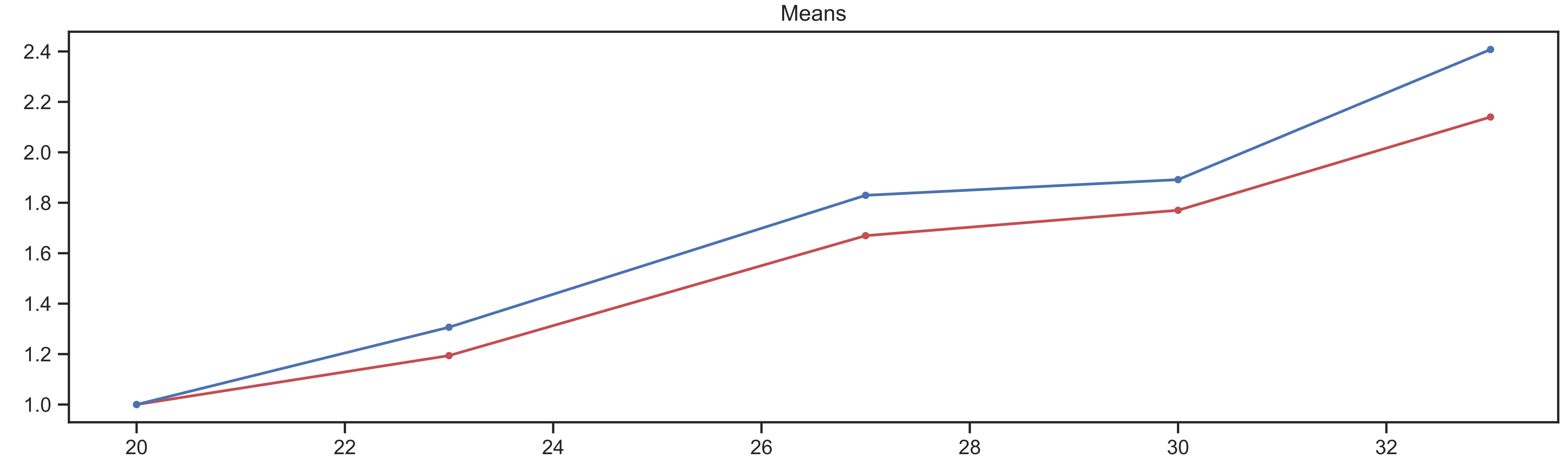


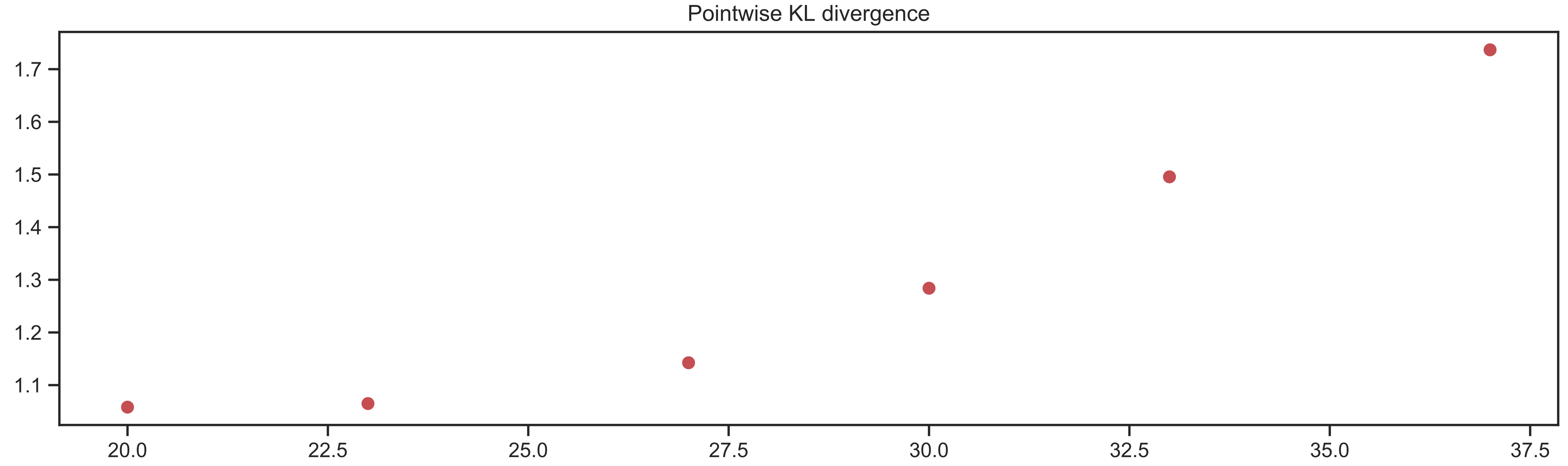
mRECIST: (0,0,3,4
kl: 8.966742455153266
response_angle_rel: 0:0.04656662364947692_1:0.004496646656113043_2:0.00017781062301852843_3:0.0020558889644910947_4:0.023071539215082492_5:0.03700478
response_angle_rel_control: 0:0.06671887128784096_1:0.10497882437960265_2:0.10819631815056556_3:0.09710886330500369_4:0.06221577653452079_5:0.137794753
auc_norm: 0:0.18355167488167676_1:0.0349257995292575_2:0.20786619411465496_3:0.11196183875394636_4:-0.008294748322046935_5:-0.08330270787499801_6:-0.
auc_control_norm: 0:[0.38724972]_1:[0.54710904]_2:[0.54070341]_3:[0.46430216]_4:[0.28661489]_5:[0.54170283]_6:[0.5961753]
tgi: 0.8240533358989662
red = treatment,   blue=control

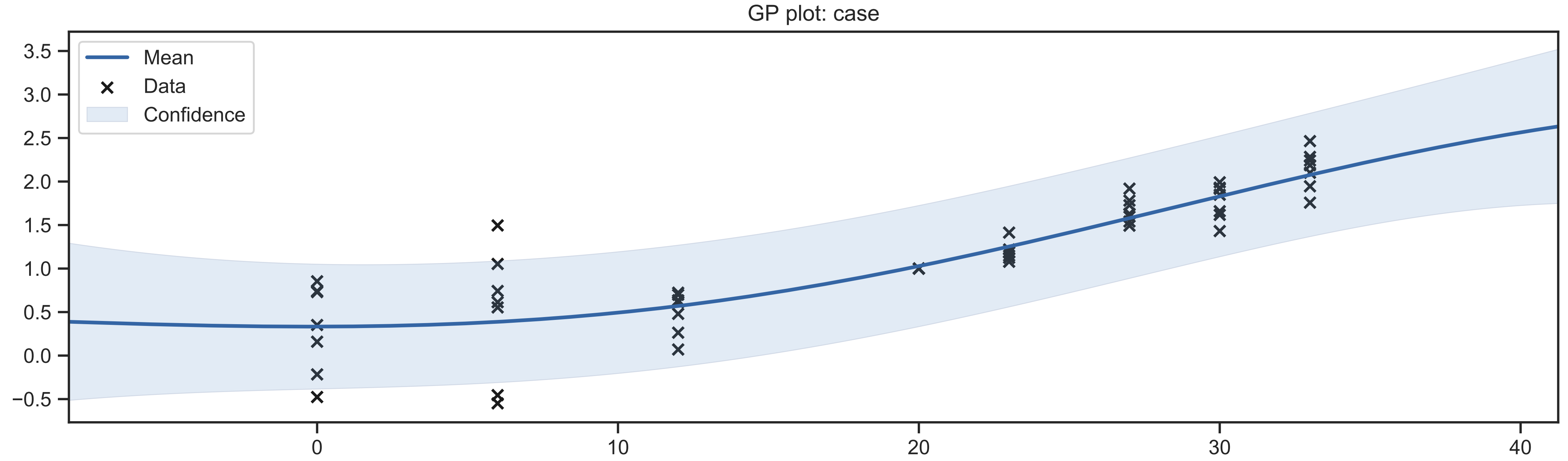
P56*C1

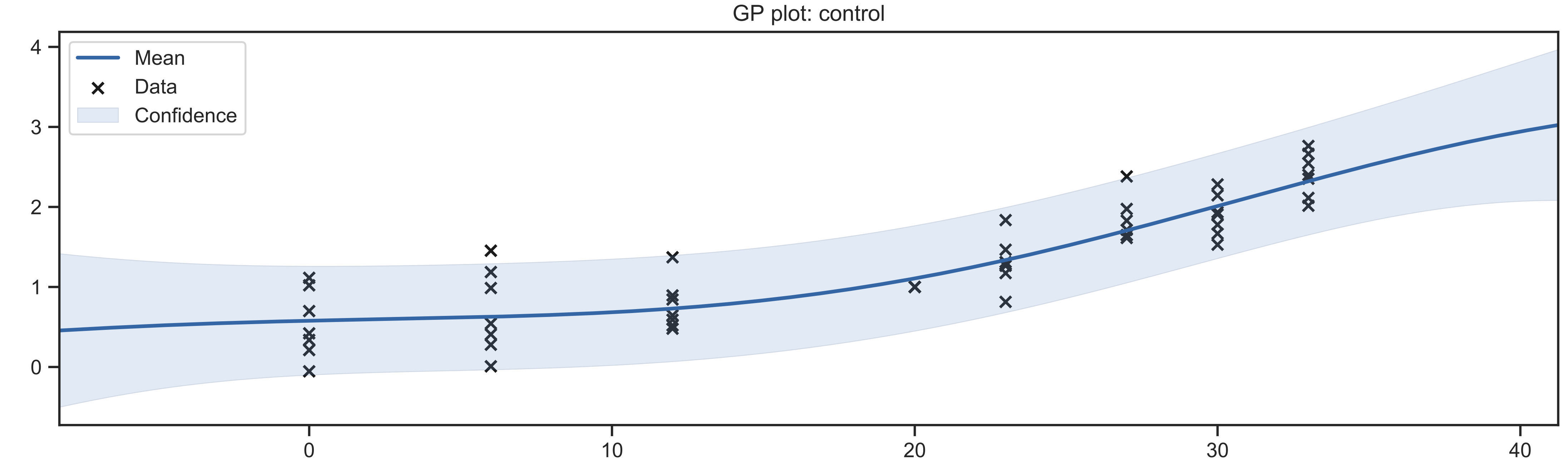


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N



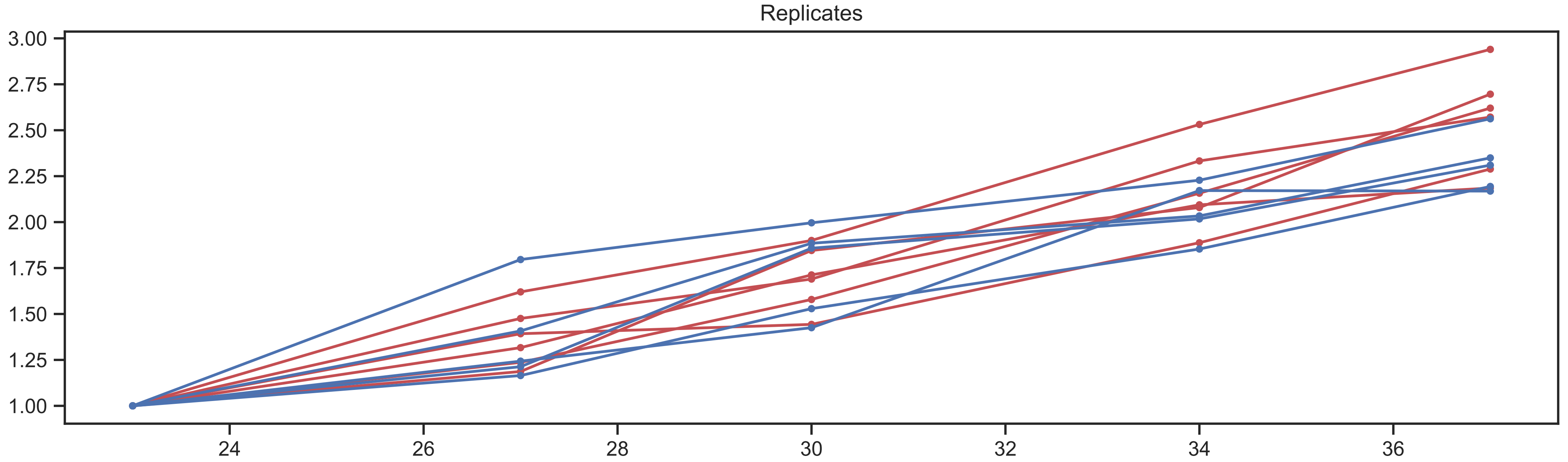




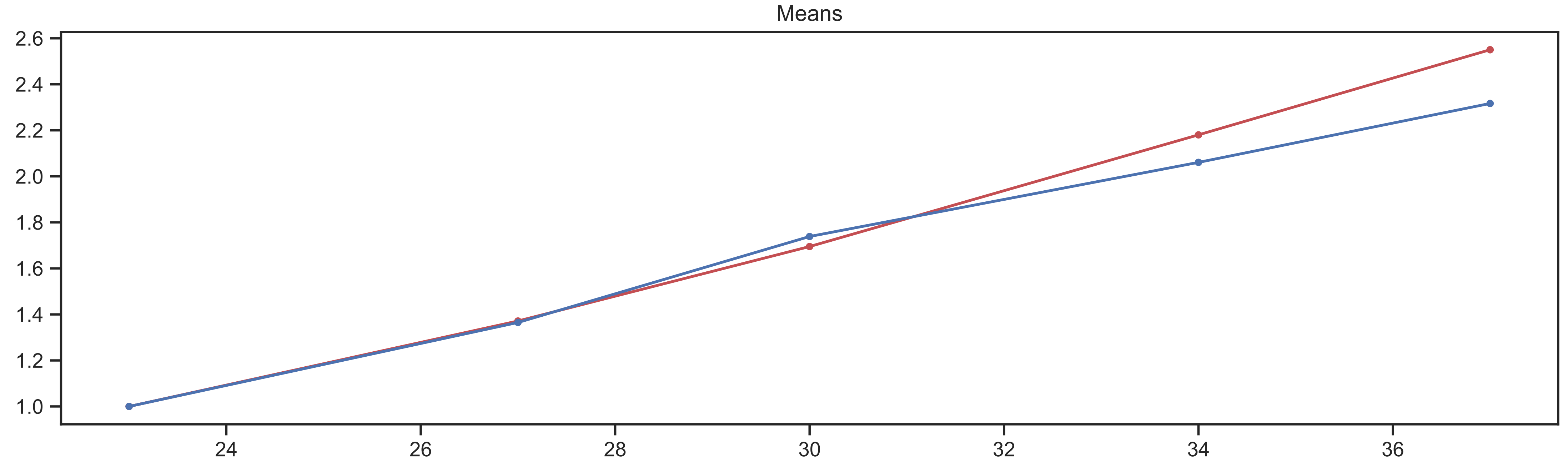


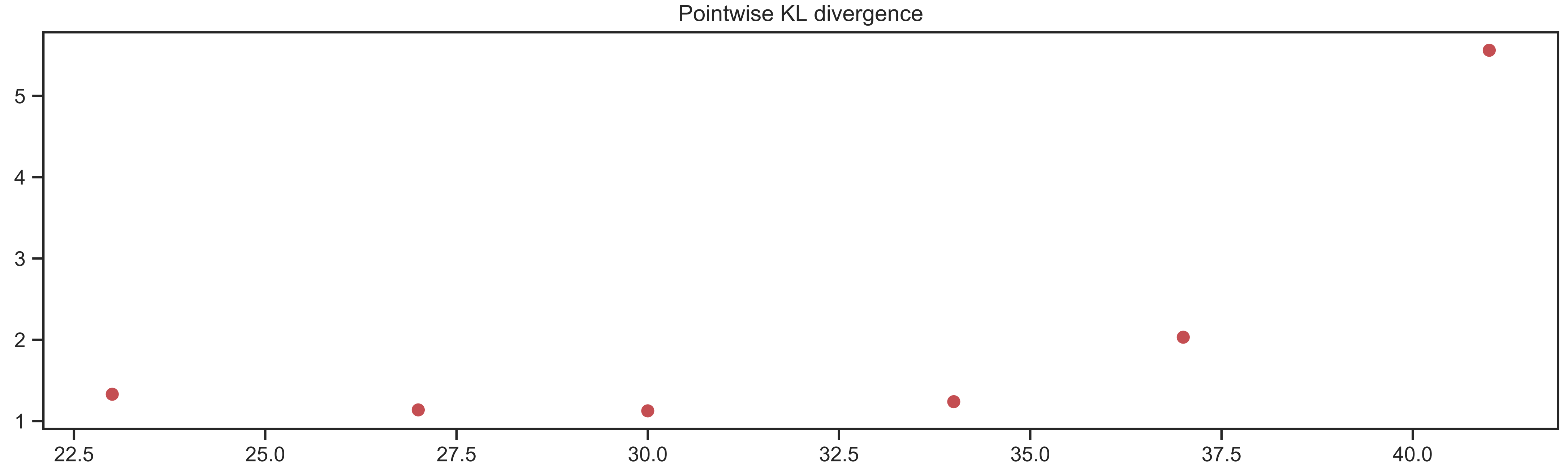
mRECIST: (0,0,1,6
kl: 0.2999631312483072
response_angle_rel: 0:0.06469247589006681_1:0.19215970062704185_2:0.0627532994187459_3:0.07190085597493602_4:0.13599259624125212_5:0.0995162713260415
response_angle_rel_control: 0:0.11272348573993926_1:0.07161214827167936_2:0.07345391592390553_3:0.05415488483247165_4:0.10118309059077668_5:0.089227232
auc_norm: 0:0.27185018629105684_1:0.45752153348194646_2:0.3702239622146857_3:0.37140330942625255_4:0.3027171478866544_5:0.3855207697555046_6:0.22319
auc_control_norm: 0:[0.57576599]_1:[0.31636763]_2:[0.41479229]_3:[0.30626947]_4:[0.42624497]_5:[0.48543286]_6:[0.45442326]
tgi: 0.22422036821426206
red = treatment,   blue=control

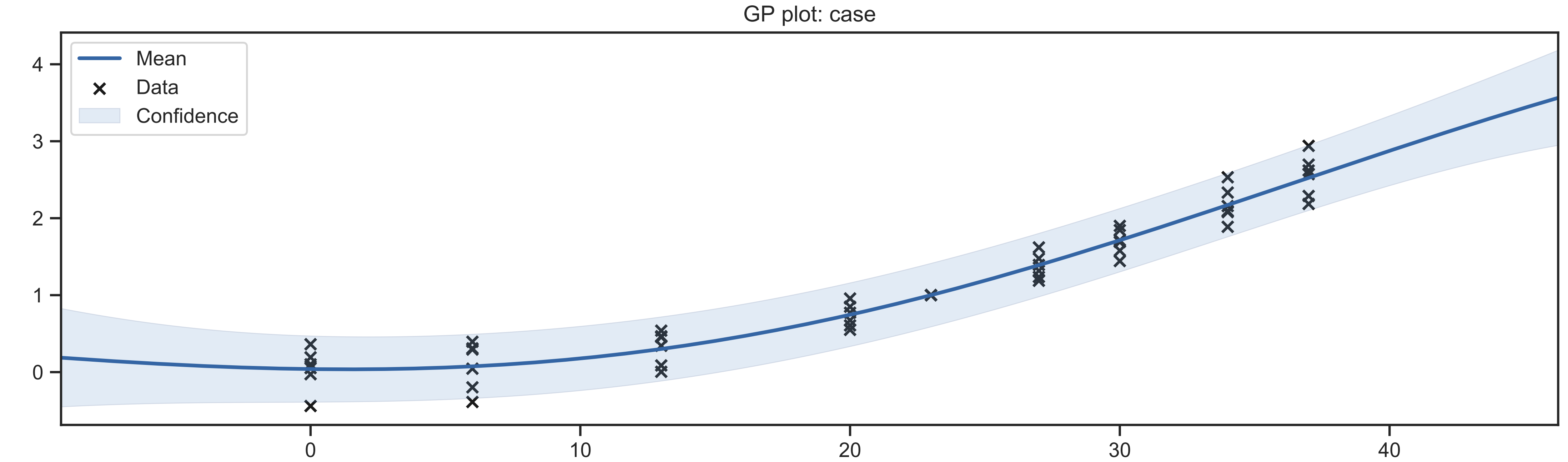
P57*C1

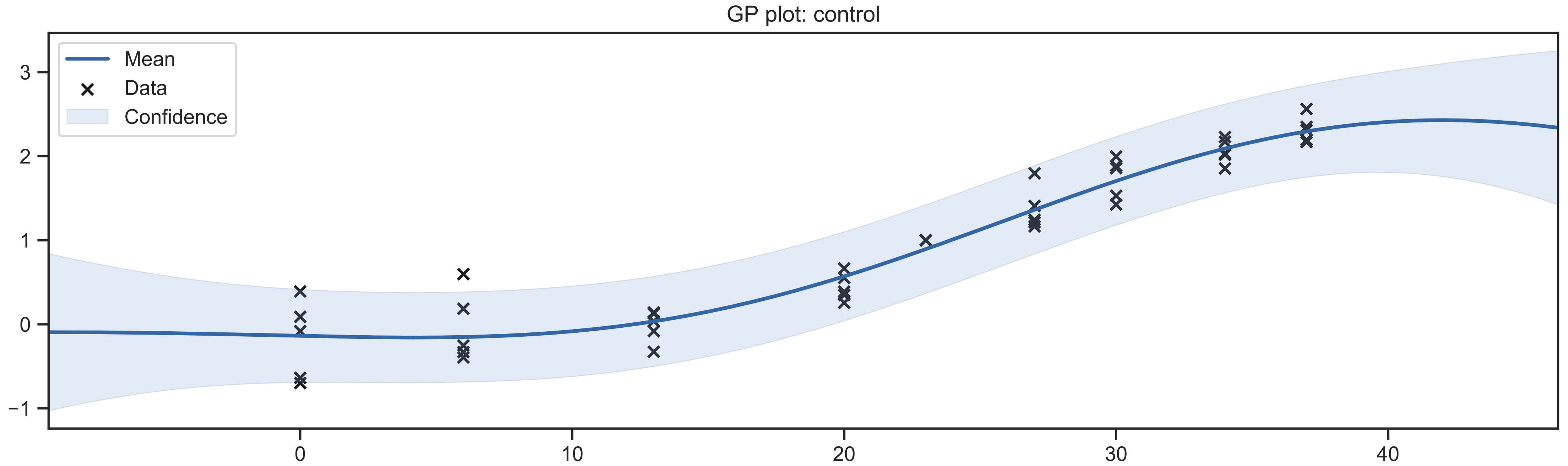

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N

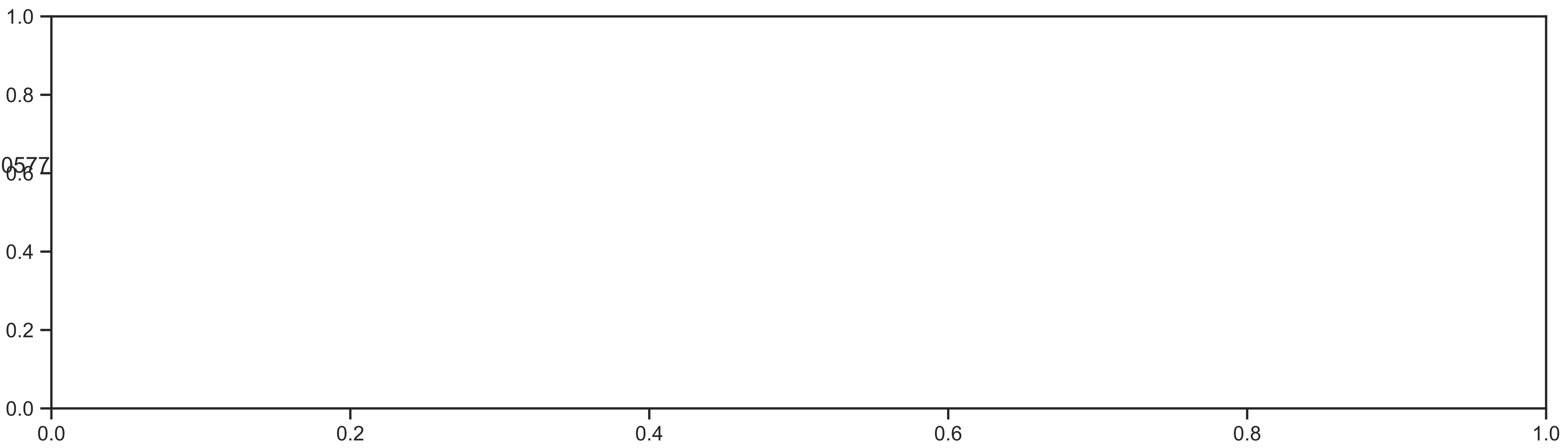

Means


Pointwise KL divergence

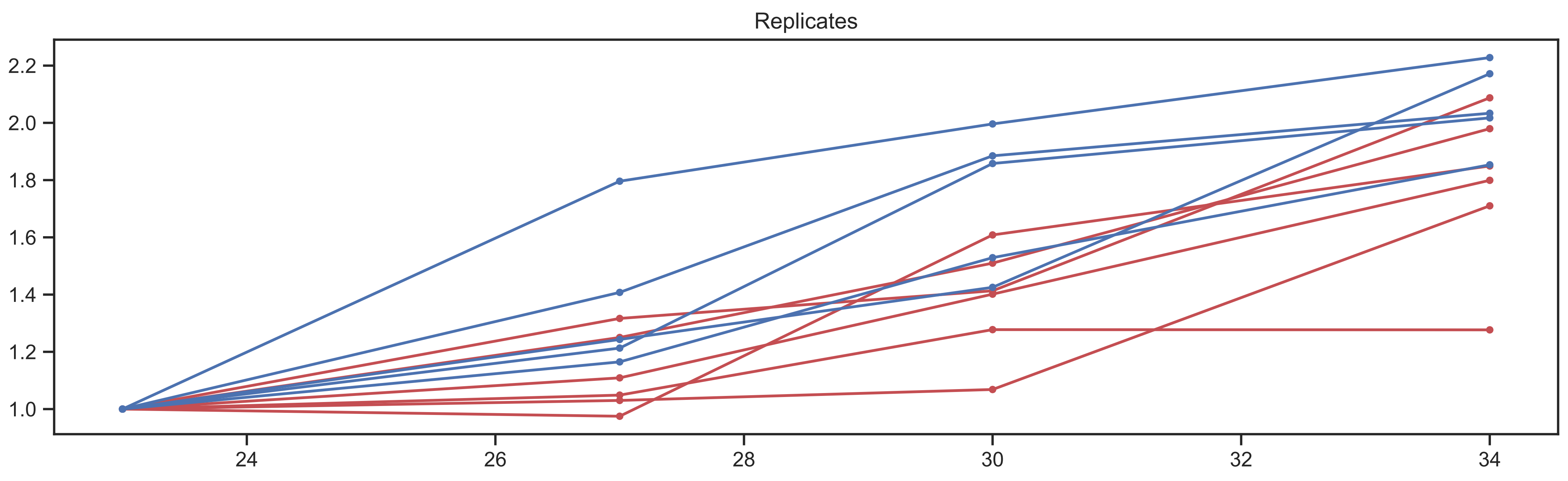

GP plot: case


GP plot: control

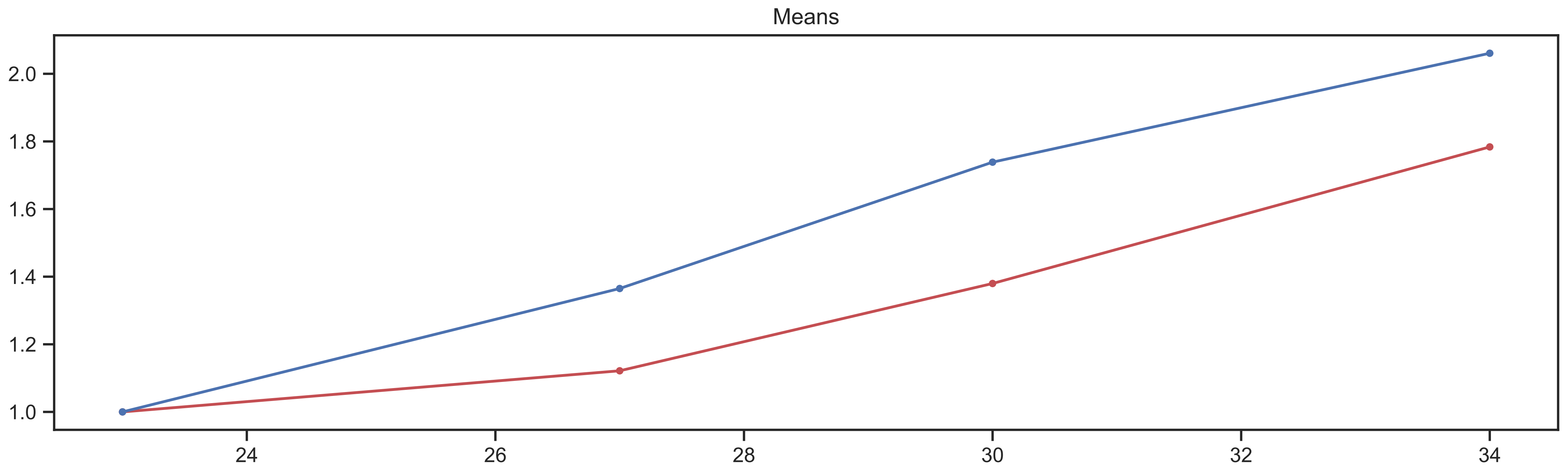
mRECIST: (0,0,2,4
kl: 0.7352856691855649
response_angle_rel: 0:0.02534623093077274_1:0.0371815300621657 56_2:0.0350530613679184_3:0.02716541120068909 4_4:0.005559164314633033_5:0.0125551790577
response_angle_rel_control: 0:0.05501701906965323 5_1:0.06852747372914147_2:0.05421429182353556_3:0.08758641403390292_4:0.04666087793424917
auc_norm: 0:0.5423230091247494_1:0.530360608494731_2:0.33695088336471407_3:0.4721502868399208_4:0.35981410570314243_5:0.4306322068440436
auc_control_norm: 0:[0.40559734]_1:[0.40343613]_2:[0.35714439]_3:[0.43506774]_4:[0.30712804]
tgi: -0.11428049130604157
red = treatment,   blue=control

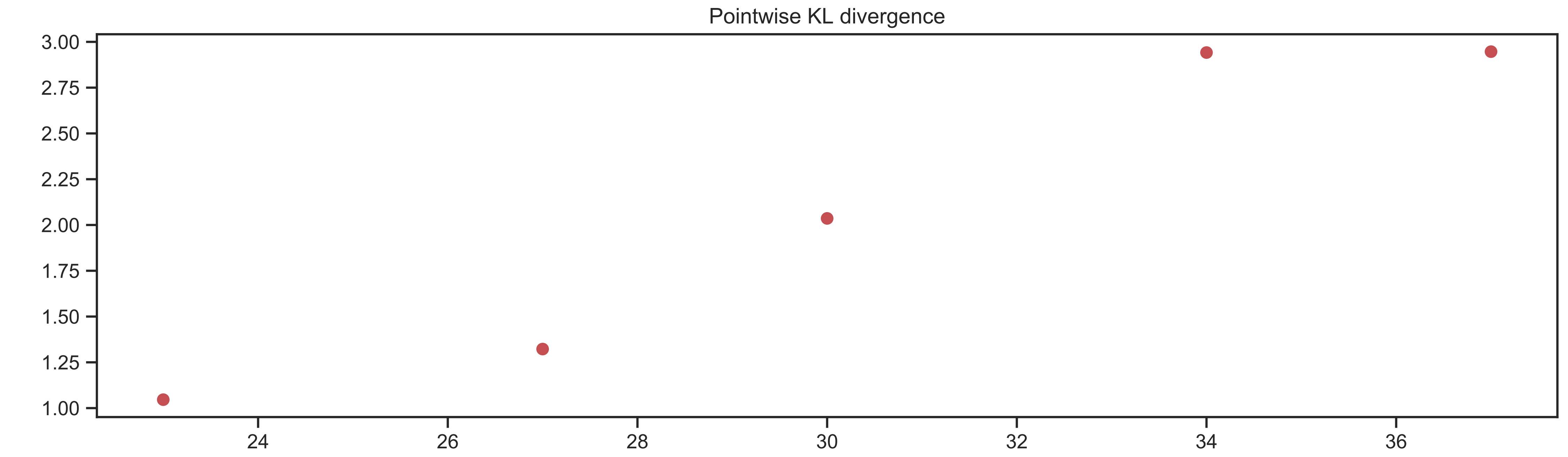


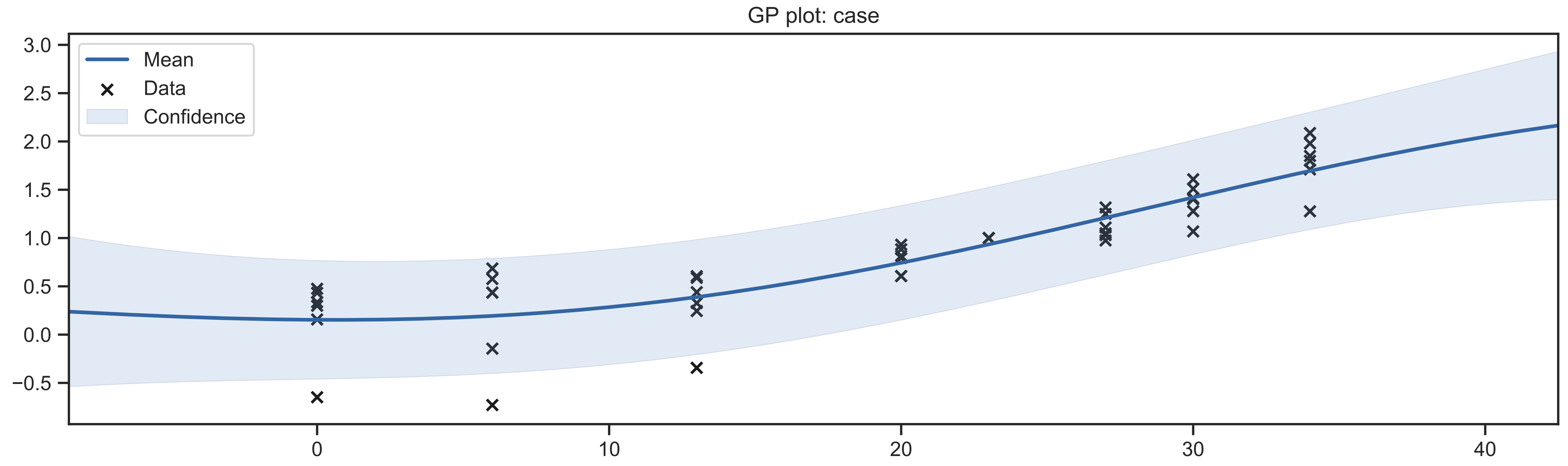
P57*C2

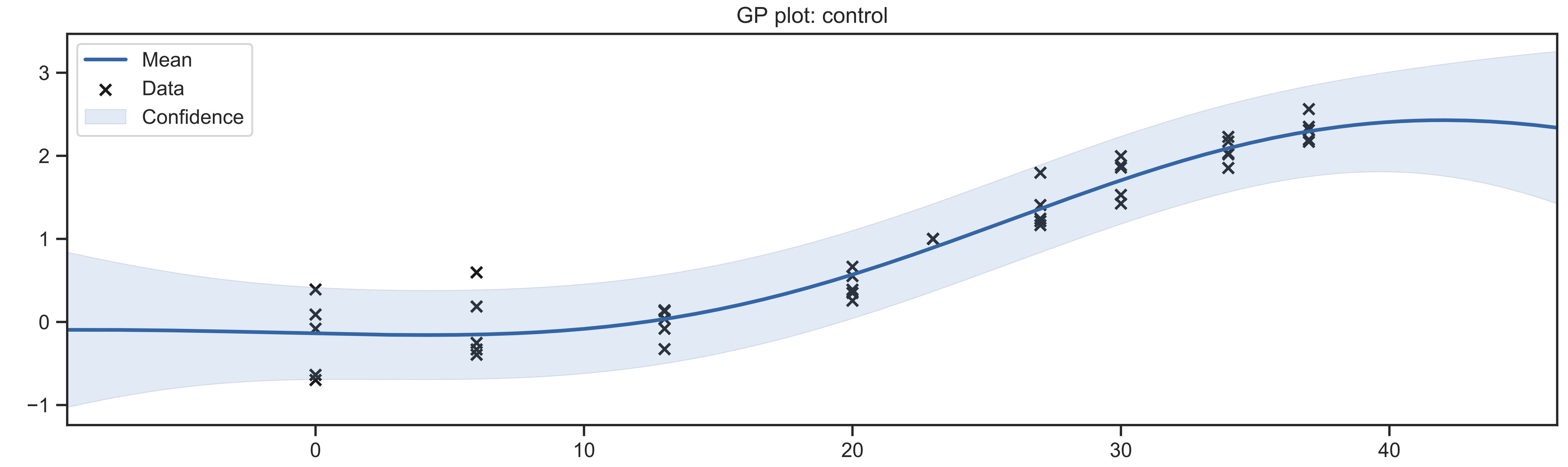


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N

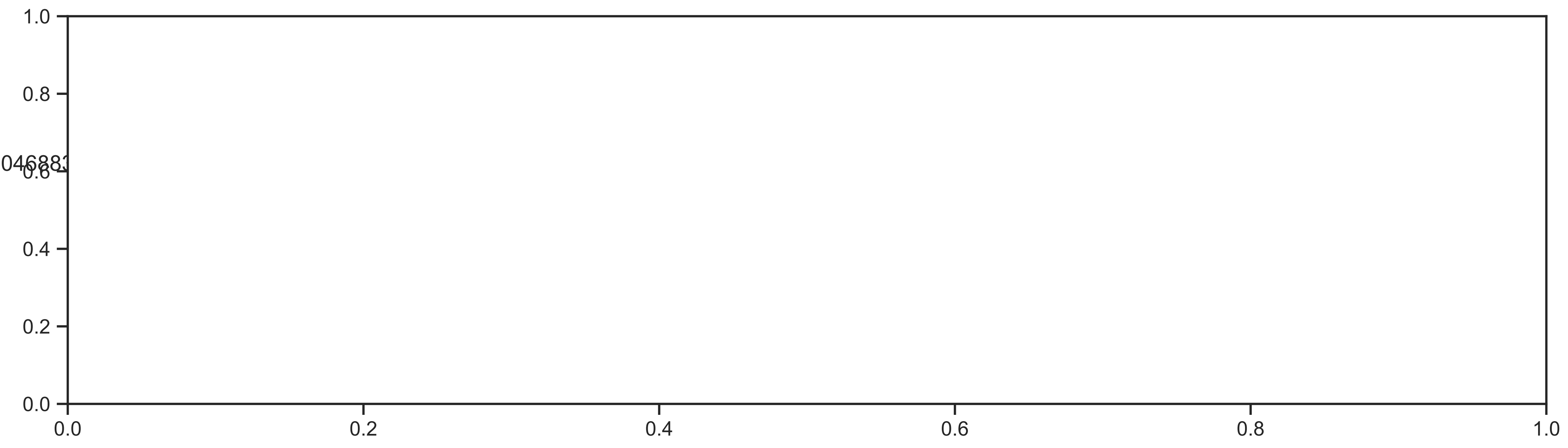




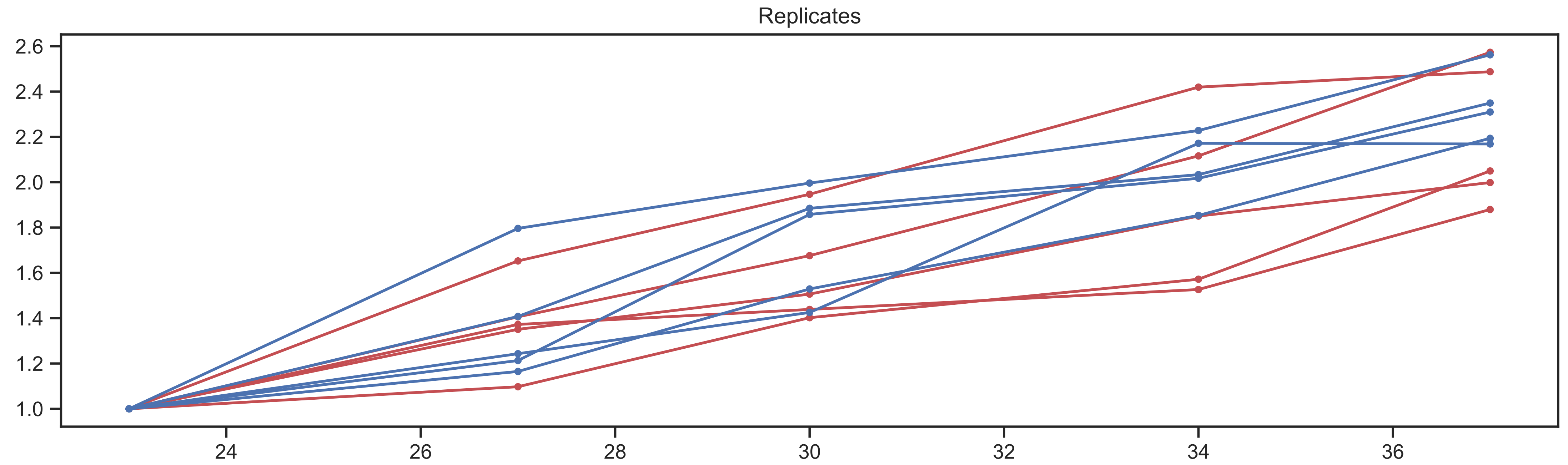




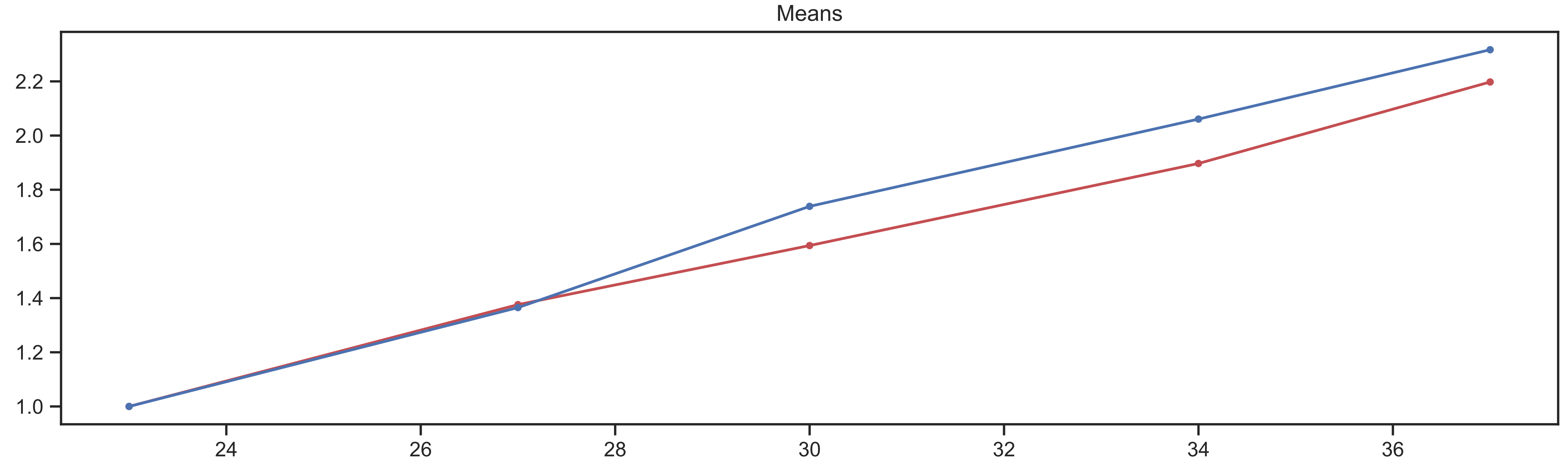
mRECIST: (0,0,5,1
kl: 0.9766572384810791
response_angle_rel: 0:0.04510032769407287_1:-0.006827748542435774_2:0.09296712615266456_3:0.11401872962047734_4:0.10370737229223903_5:0.024334050468
response_angle_rel_control: 0:0.055017019069653235_1:0.06852747372914147_2:0.05421429182353556_3:0.08758641403390292_4:0.04666087793424917
auc_norm: 0:0.1807060823986481_1:0.26510538115162385_2:0.22416320432934222_3:0.2665222493040101_4:0.2798894153747328_5:0.08825124134825103
auc_control_norm: 0:[0.30807378]_1:[0.29814966]_2:[0.24369467]_3:[0.3236556]_4:[0.30806315]
tgi: 0.23729379881348078
red = treatment, blue=control

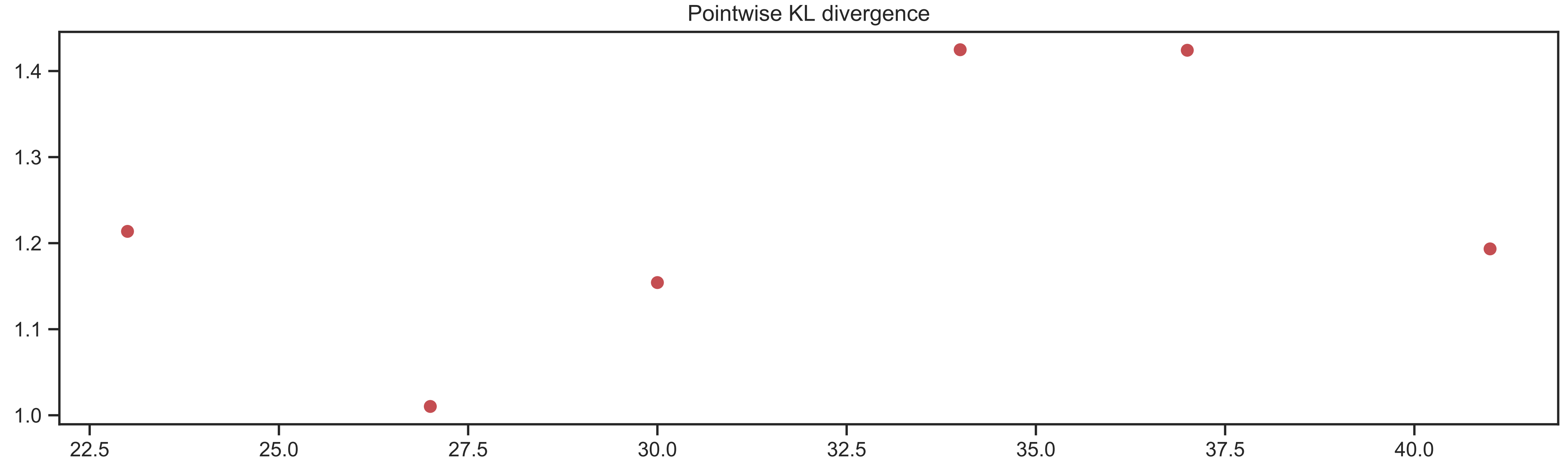


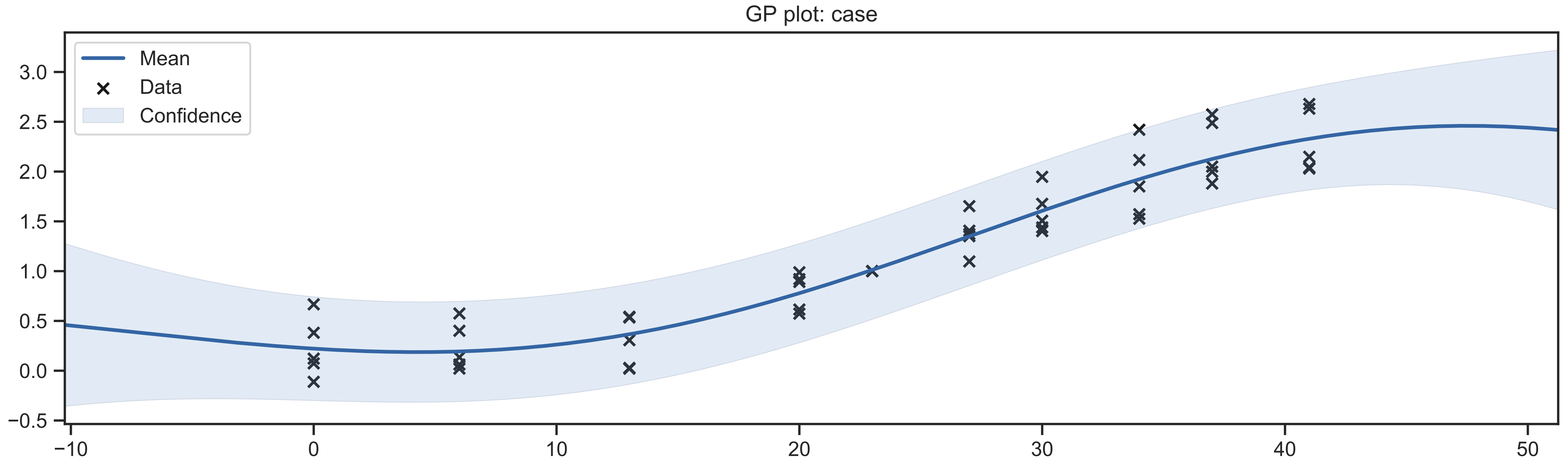
P57*C3

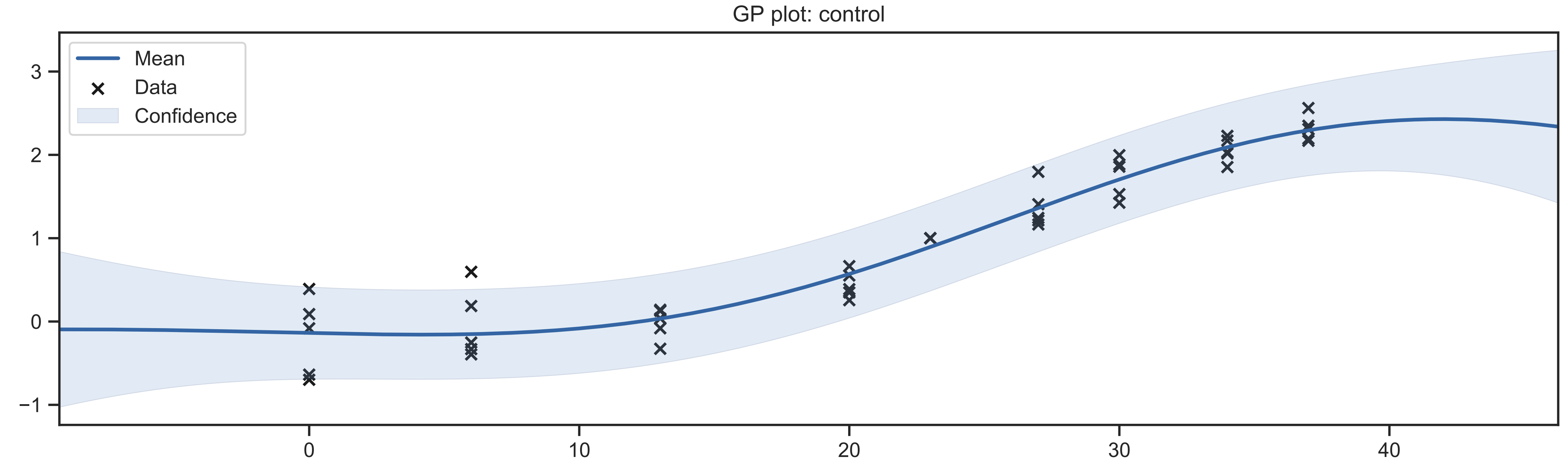


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

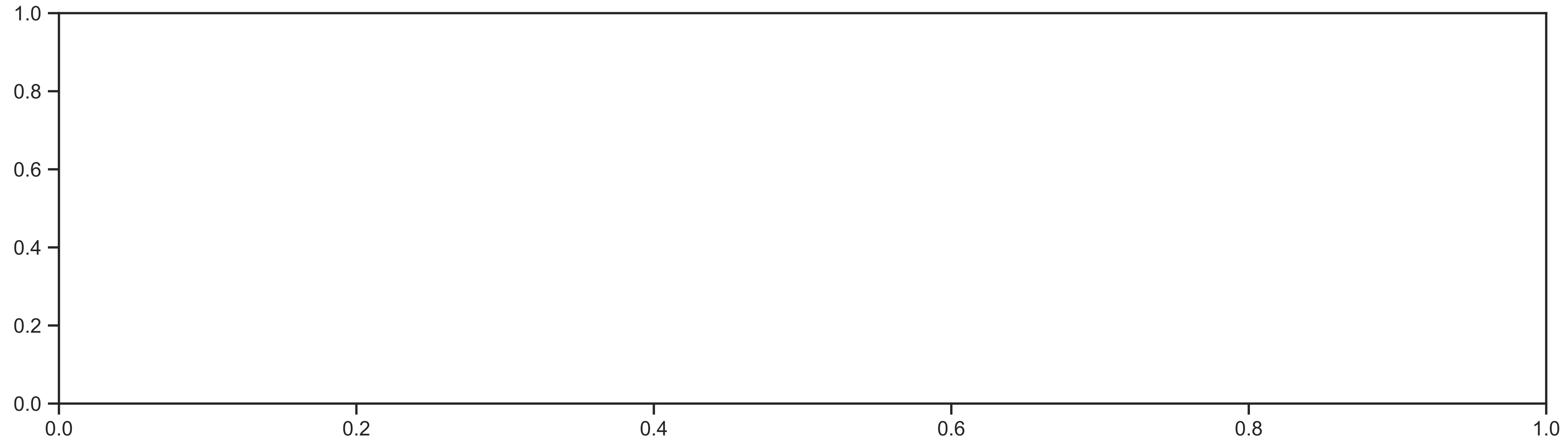




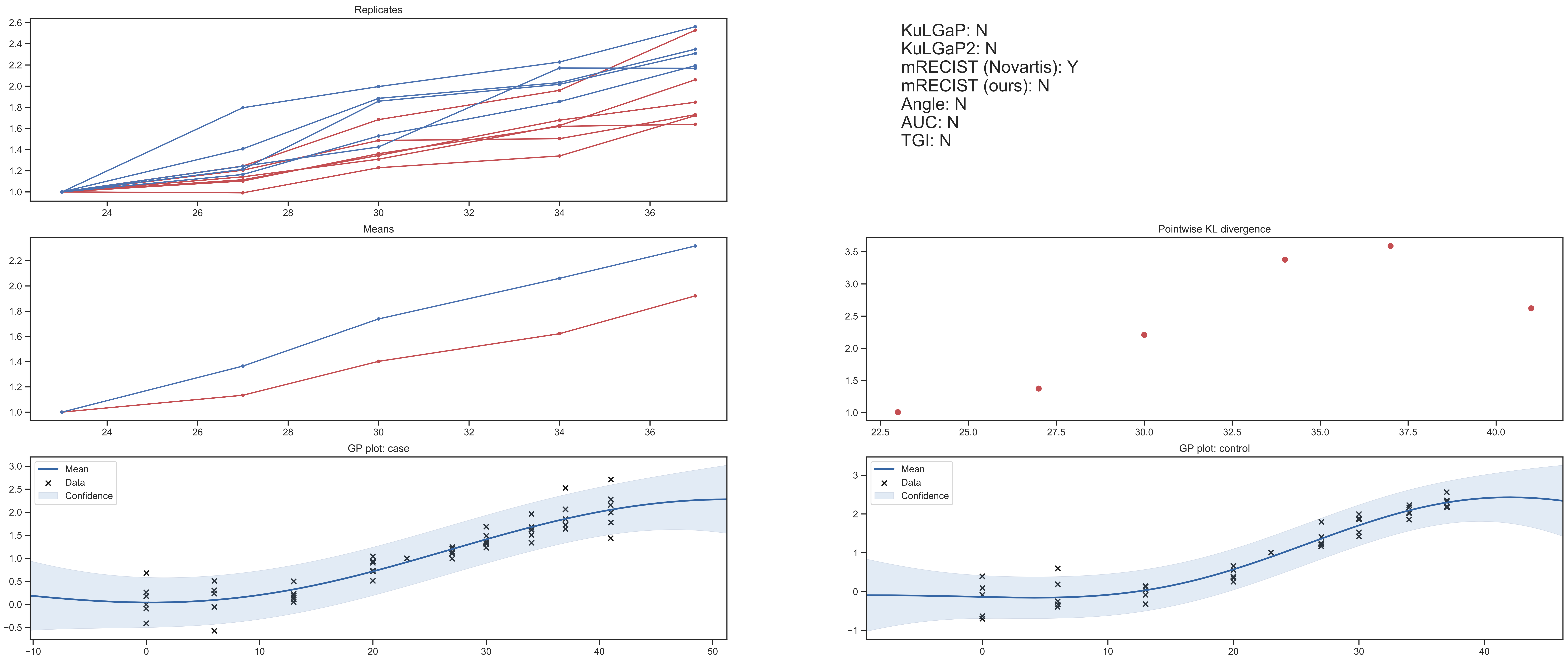




mRECIST: (0,0,1,4
kl: 0.23828261405545534
response_angle_rel: 0:0.06447522323692162_1:0.09582519079433227_2:0.025729199688294492_3:0.023610080231531872_4:0.006859552100981685
response_angle_rel_control: 0:0.055017019069653235_1:0.06852747372914147_2:0.05421429182353556_3:0.08758641403390292_4:0.04666087793424917
auc_norm: 0:0.2548248937982869_1:0.2749018551066399_2:0.40210495066732976_3:0.45396314365251955_4:0.3276089852609061
auc_control_norm: 0:[0.40559734]_1:[0.40343613]_2:[0.35714439]_3:[0.43506774]_4:[0.30712804]
tgi: 0.21932874148157133
red = treatment, blue=control

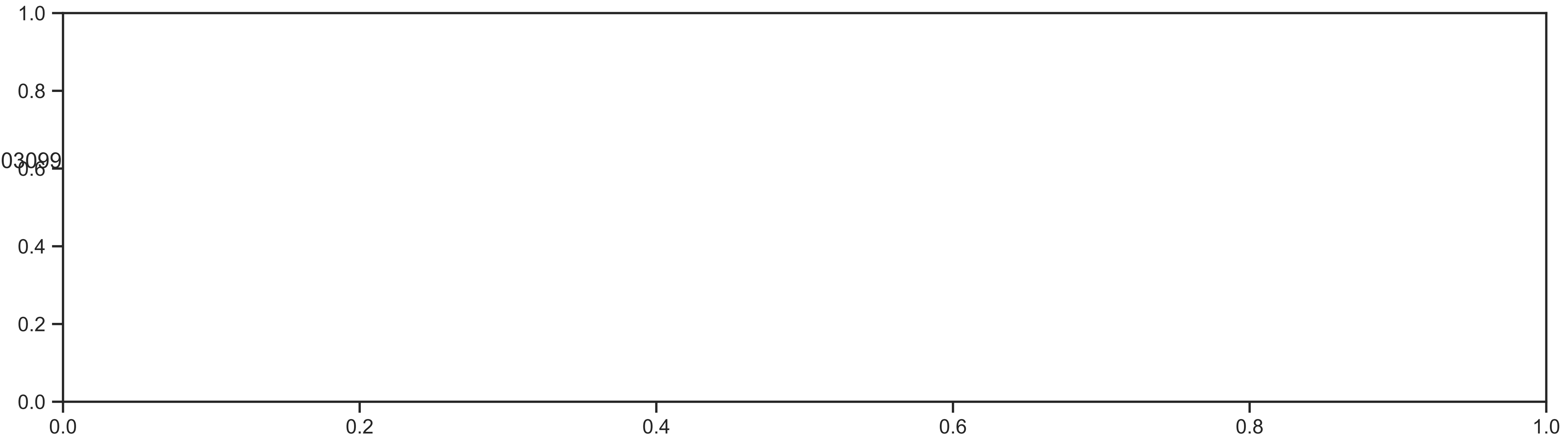


P57*C4

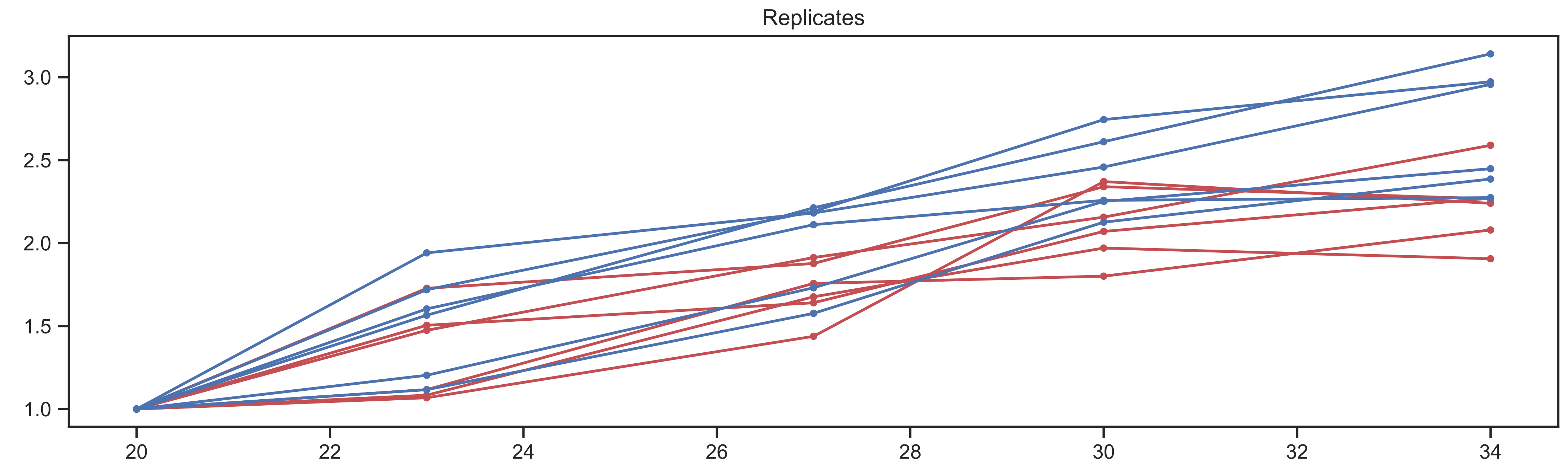


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

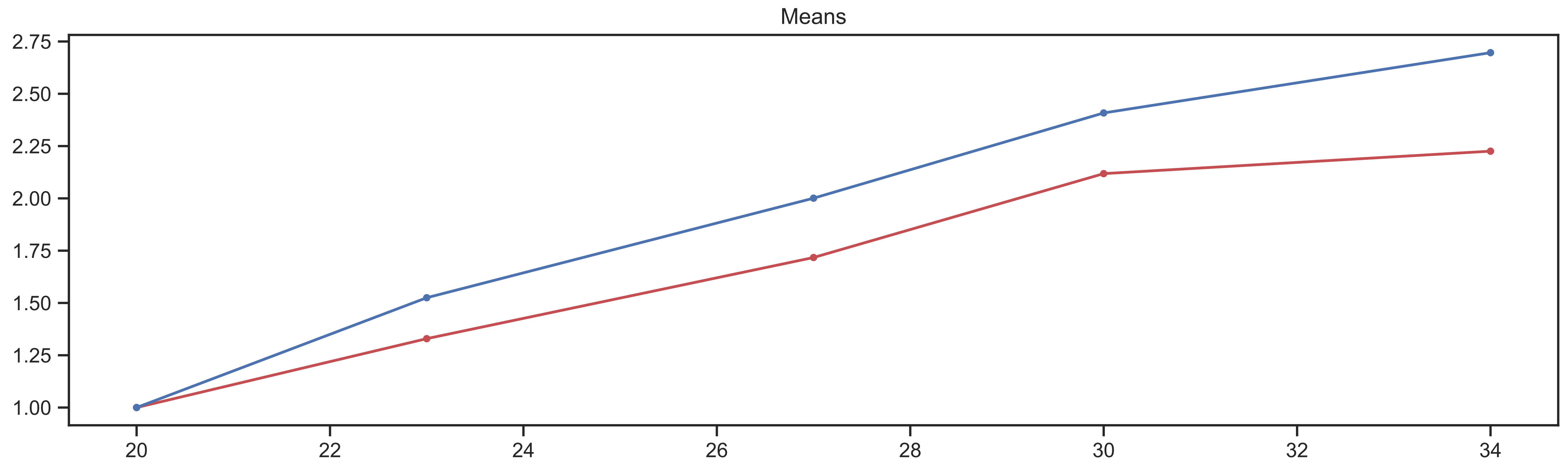
mRECIST: (0,0,6,0
kl: 1.3960131936945852
response_angle_rel: 0:0.05804933278663155_1:0.02302673242722229_2:0.032158382029989635_3:0.06486621721687008_4:0.00883297377098177_5:0.01350027803099
response_angle_rel_control: 0:0.055017019069653235_1:0.06852747372914147_2:0.05421429182353556_3:0.08758641403390292_4:0.04666087793424917
auc_norm: 0:0.18303836983820523_1:0.46621677679539675_2:0.3151161285259624_3:0.24531354550894383_4:0.22492551736358135_5:0.23181396672538412
auc_control_norm: 0:[0.40559734]_1:[0.40343613]_2:[0.35714439]_3:[0.43506774]_4:[0.30712804]
tgi: 0.3674472527627588
red = treatment, blue=control

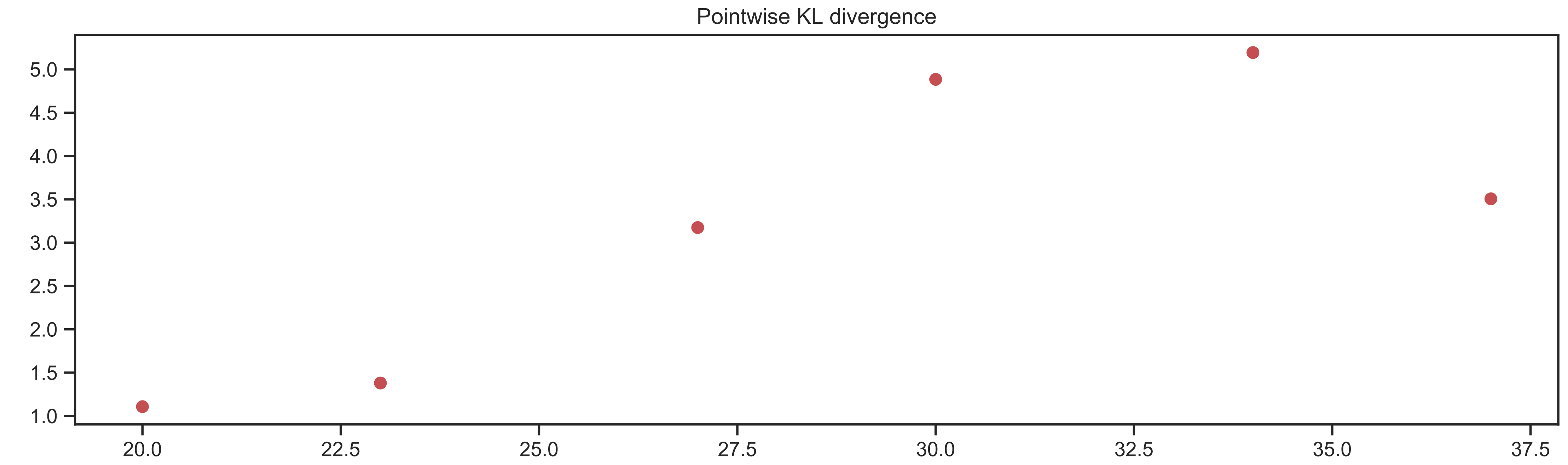


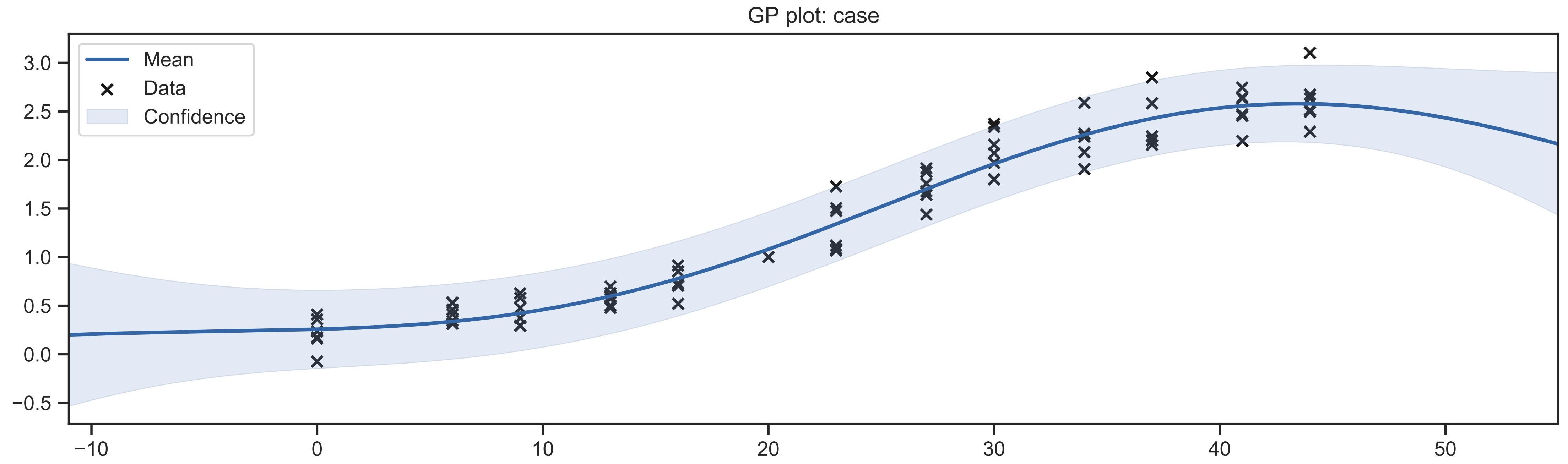
P58*C1

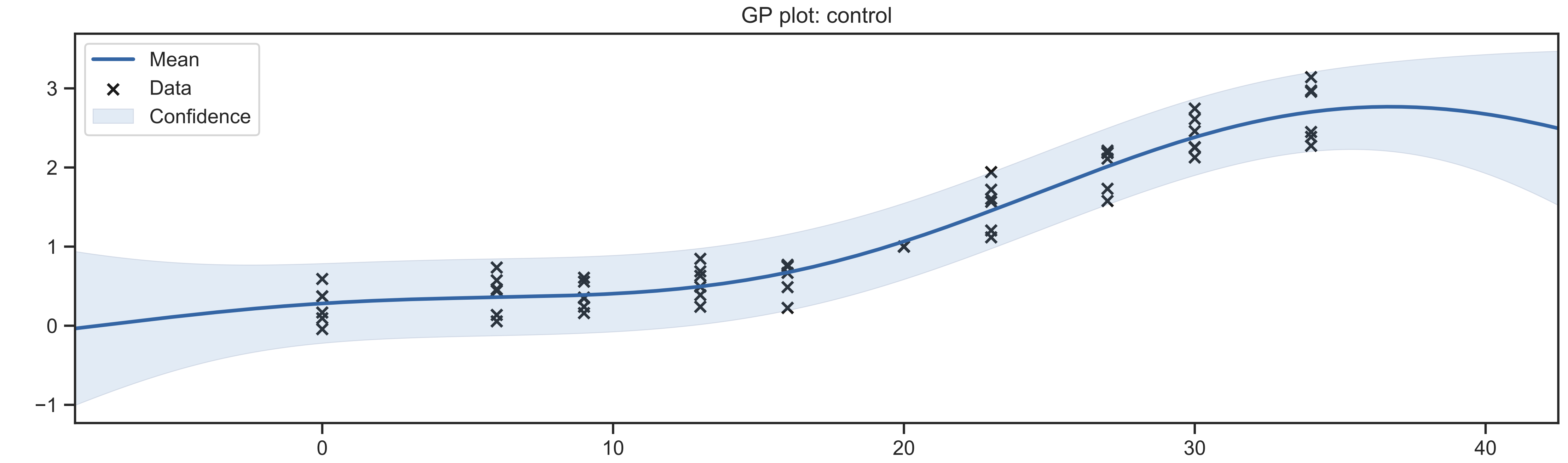

Replicates

KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N

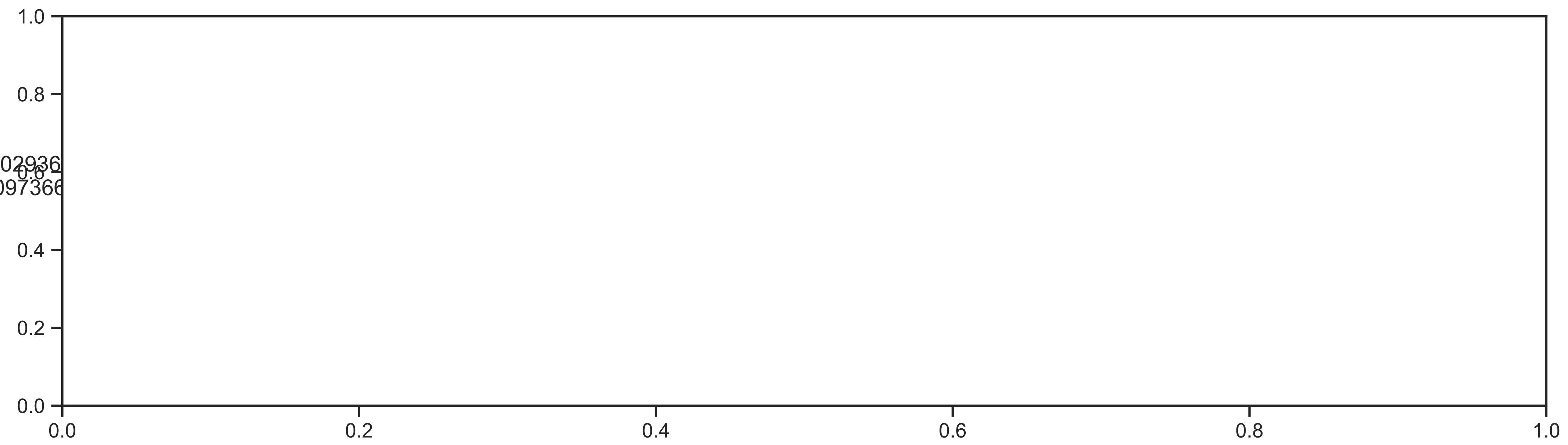

Means


Pointwise KL divergence

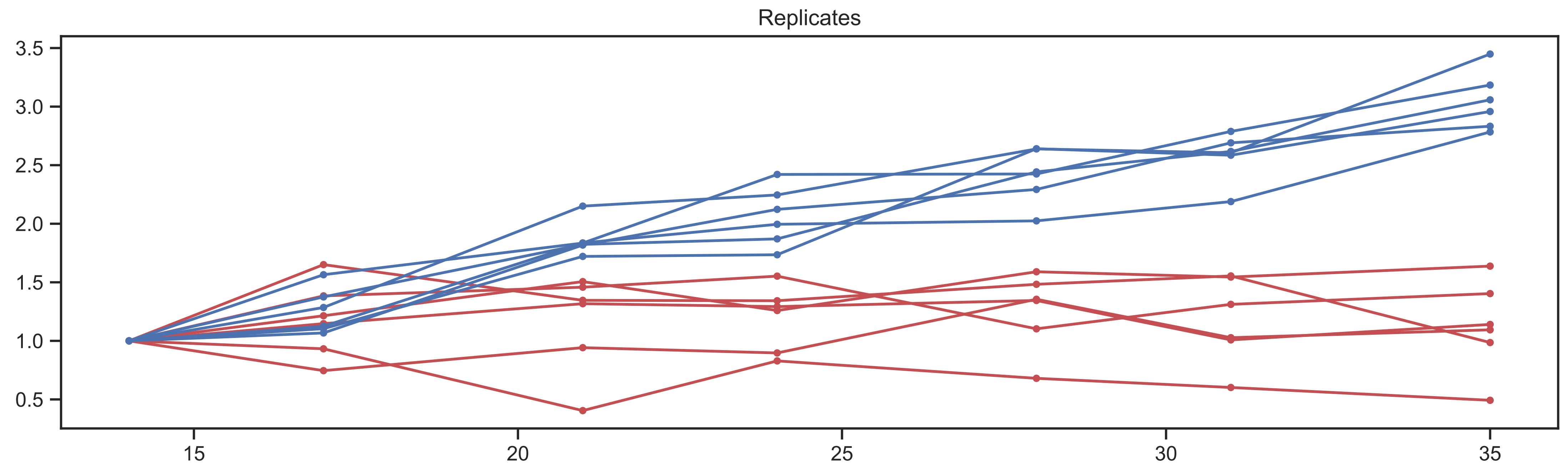

GP plot: case


GP plot: control

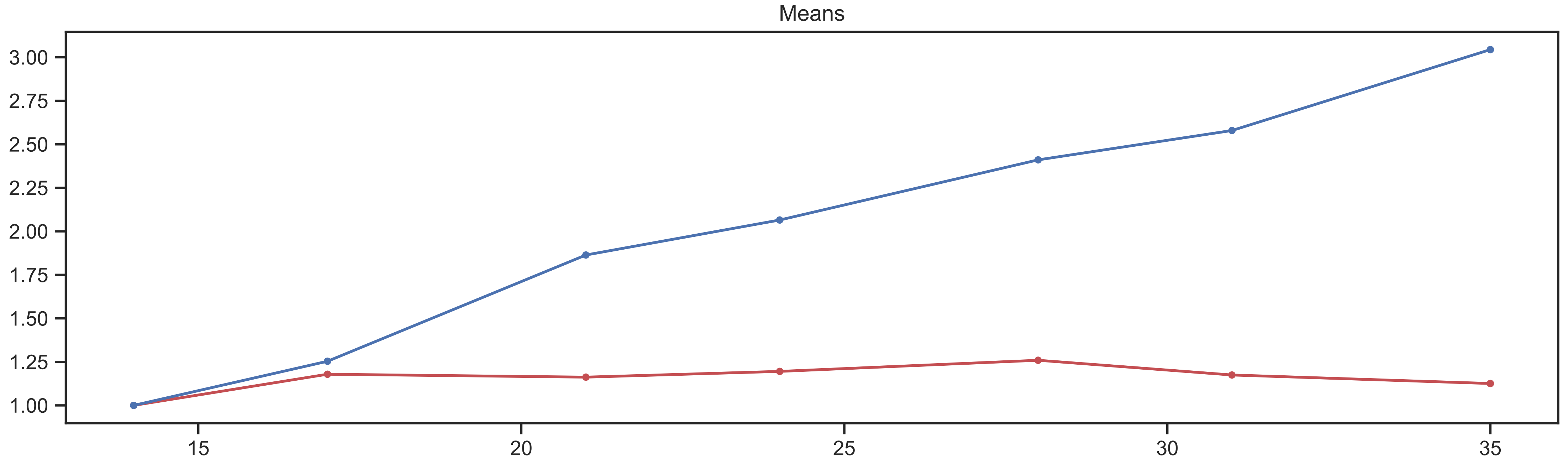
mRECIST: (0,0,0,6
kl: 2.6103465050589594
response_angle_rel: 0:0.07283888013473712_1:0.09825640372469195_2:0.07793711881569336_3:0.10261077309582176_4:0.08704783024581281_5:0.060748429202936
response_angle_rel_control: 0:0.08065323631332343_1:0.05657004583522859_2:0.15232590573350382_3:0.13151067942760172_4:0.16078025275046337_5:0.076097366
auc_norm: 0:0.2832580283176108_1:0.39565305451664334_2:0.39338520092570617_3:0.45723775813829015_4:0.41597150490682133_5:0.2579388853335629
auc_control_norm: 0:[0.38107858]_1:[0.40209551]_2:[0.59908424]_3:[0.59071865]_4:[0.61550138]_5:[0.4224535]
tgi: 0.2897280052053569
red = treatment,   blue=control

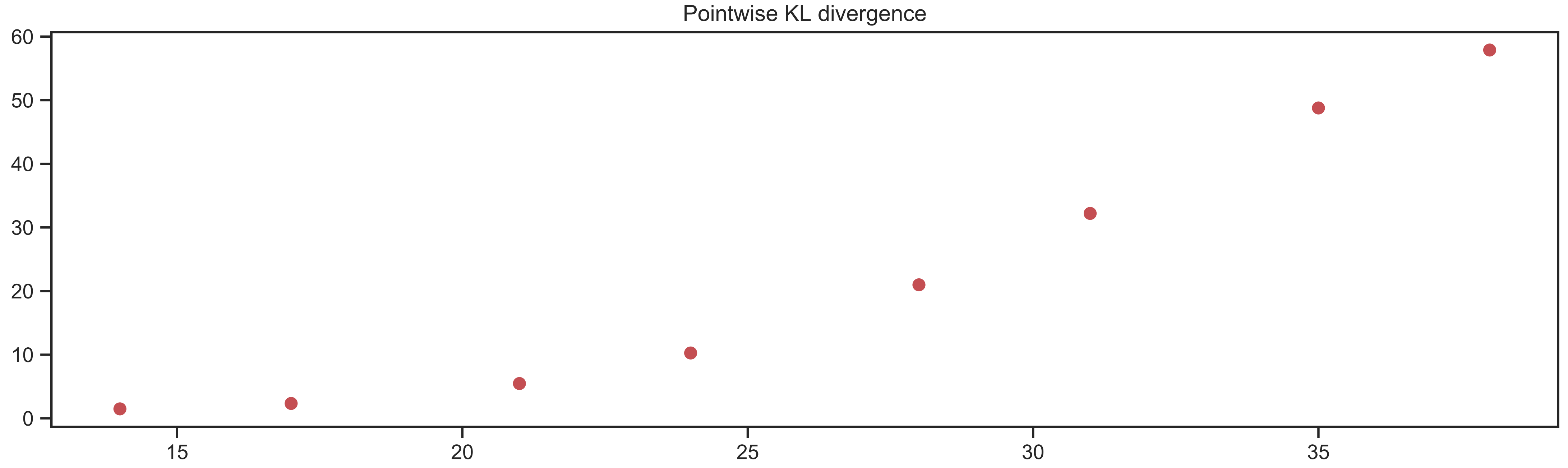


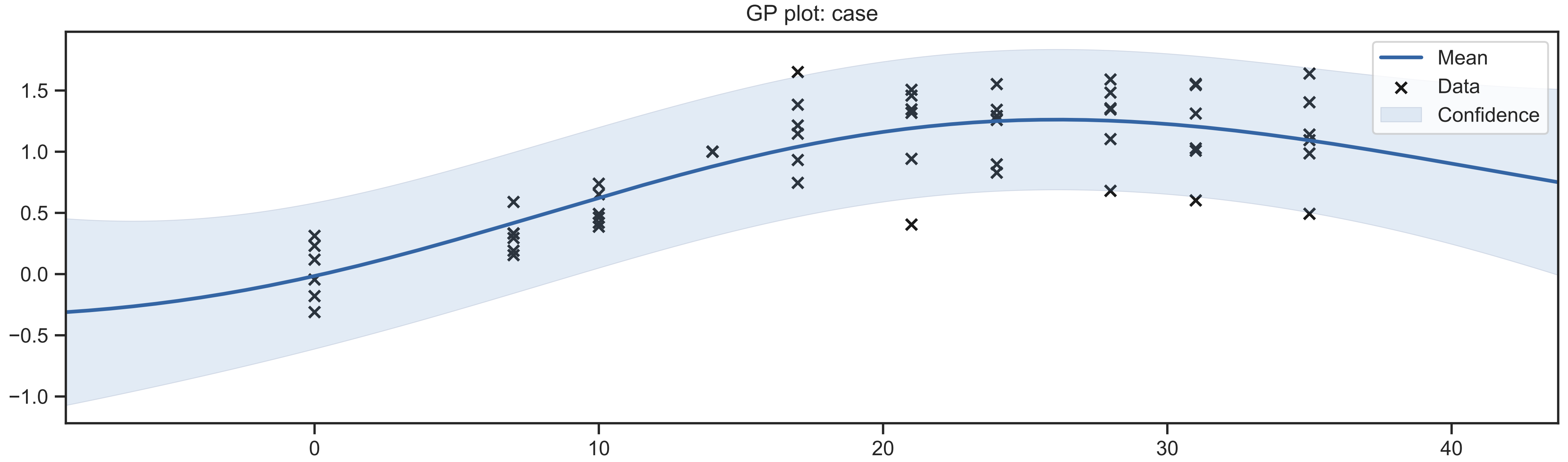
P59*C0

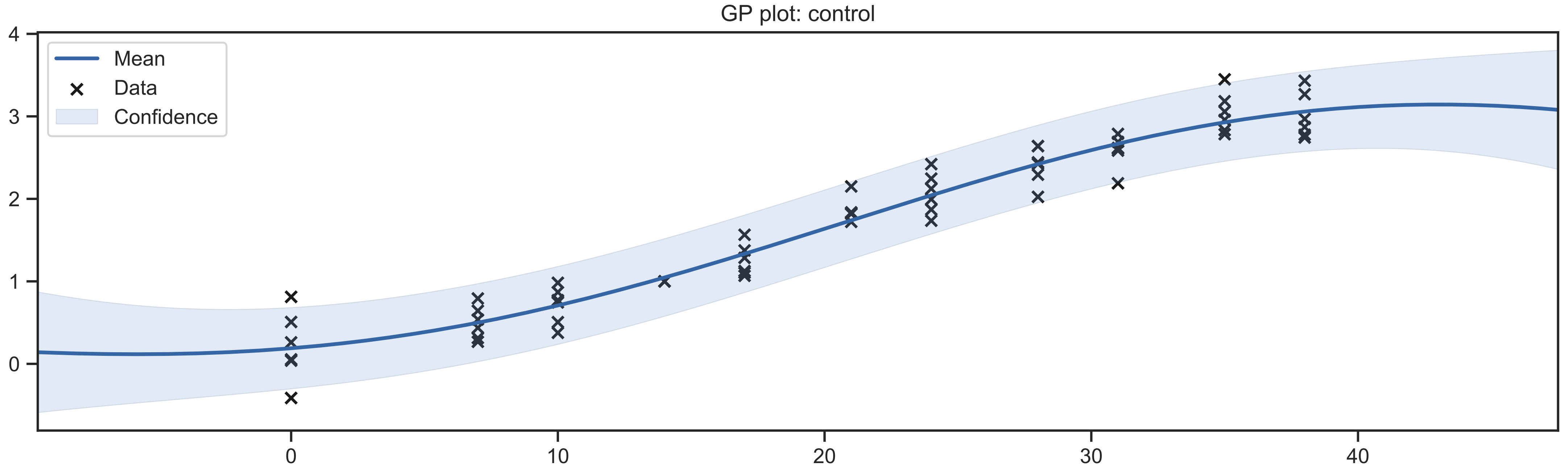

Replicates

KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

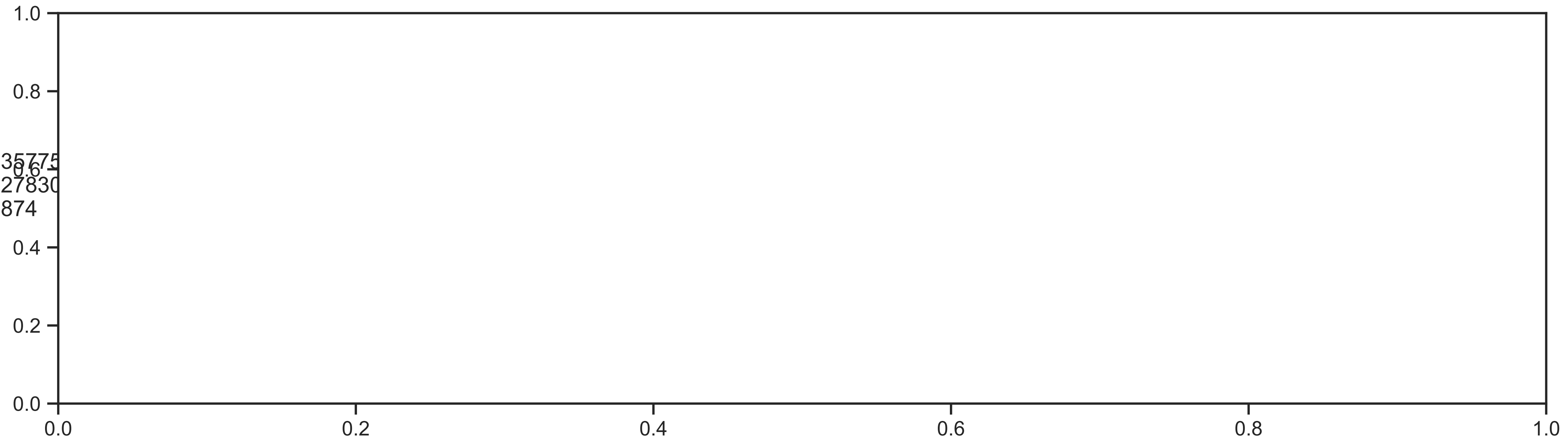

Means


Pointwise KL divergence

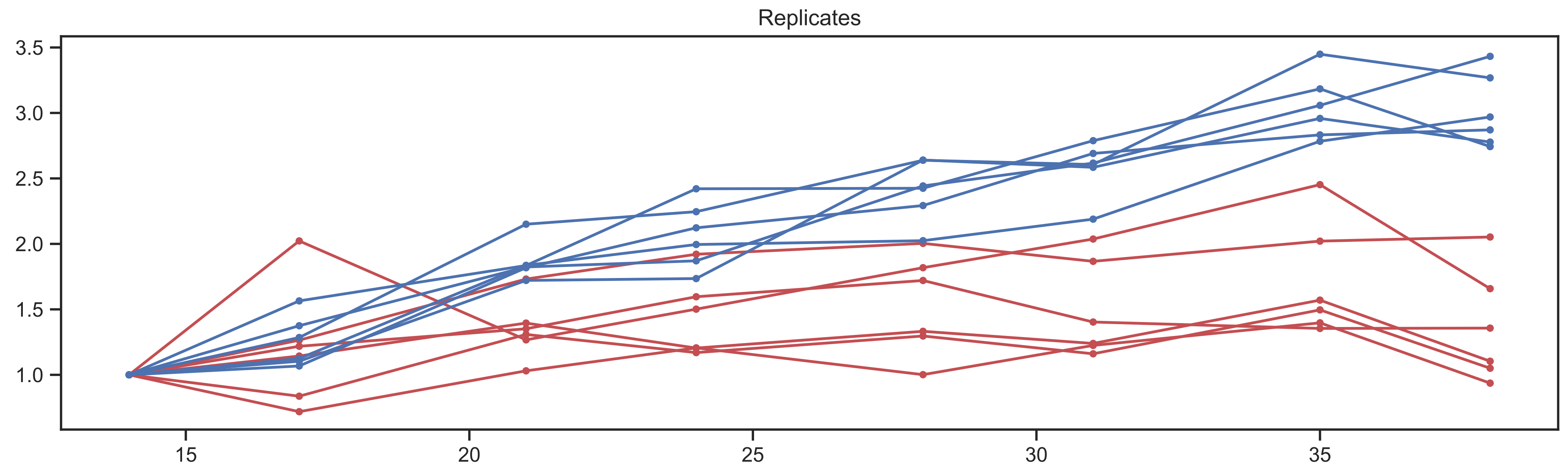

GP plot: case


GP plot: control

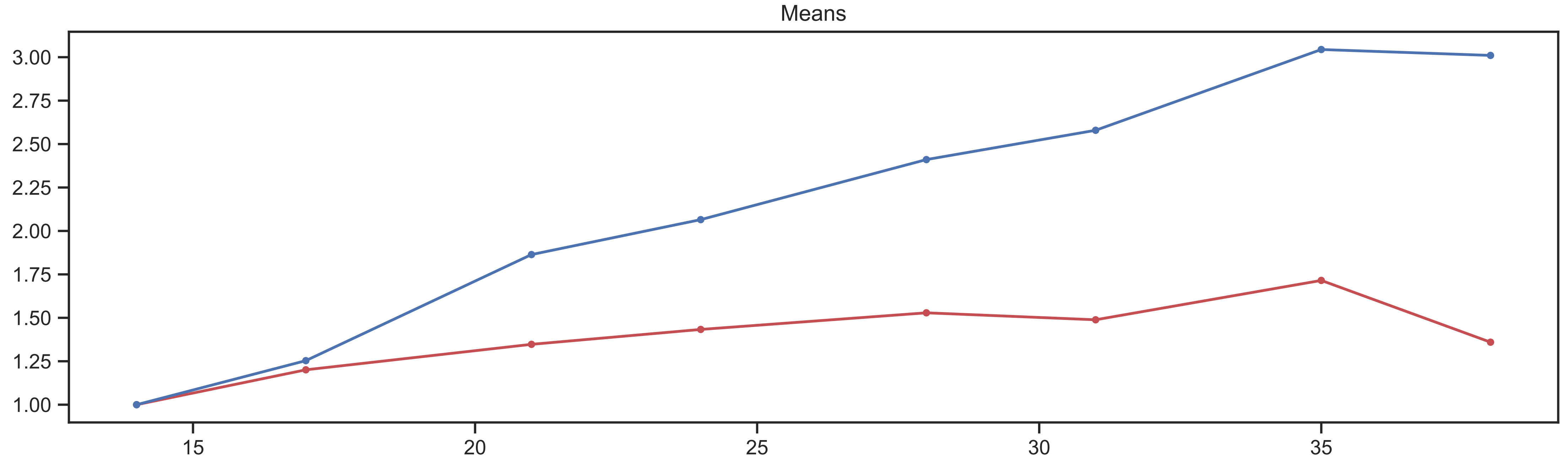
mRECIST: (3,0,2,1
kl: 19.32666022781654
response_angle_rel: 0:0.008041950324408197_1:-0.011842328464186794_2:-0.01482440691785276_3:-0.01214341714332594_4:-0.006399105971017366_5:0.0052535775
response_angle_rel_control: 0:0.19655453978242143_1:0.15069422827418888_2:0.18632038726584269_3:0.15047017312309185_4:0.11689297979772122_5:0.126727830
auc_norm: 0:0.15816031324824087_1:0.017177087327552576_2:-0.10368087077117902_3:-0.028710968417385796_4:0.15303611648236323_5:0.056299751072953874
auc_control_norm: 0:[0.56416764]_1:[0.67213799]_2:[0.64113668]_3:[0.52226095]_4:[0.48328069]_5:[0.49472252]
tgi: 1.02200291023538
red = treatment, blue=control

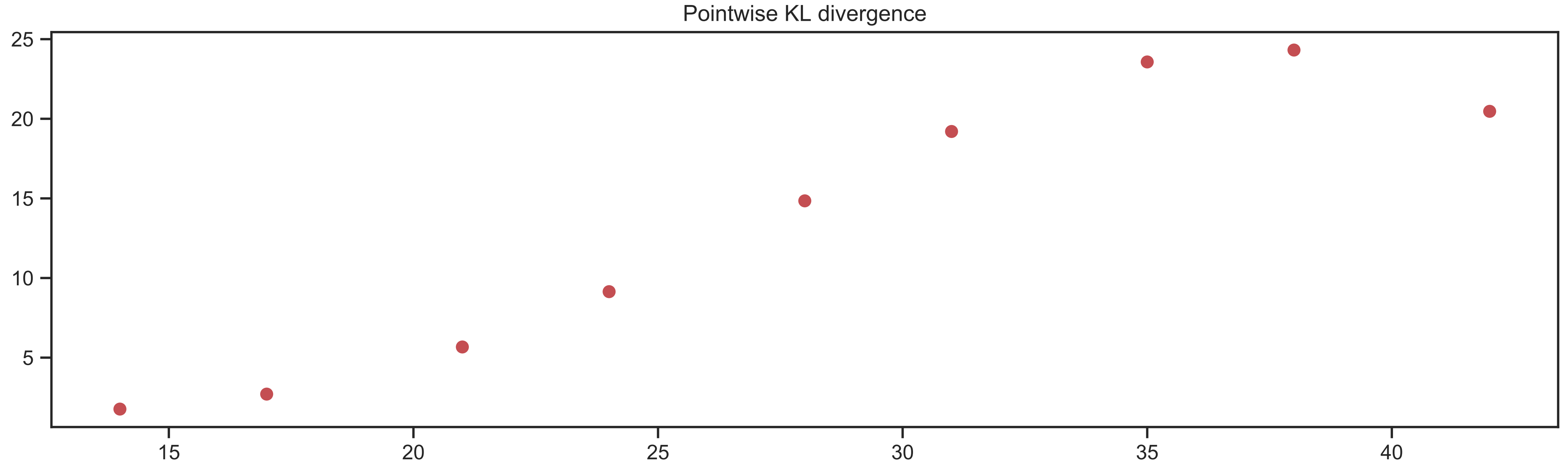


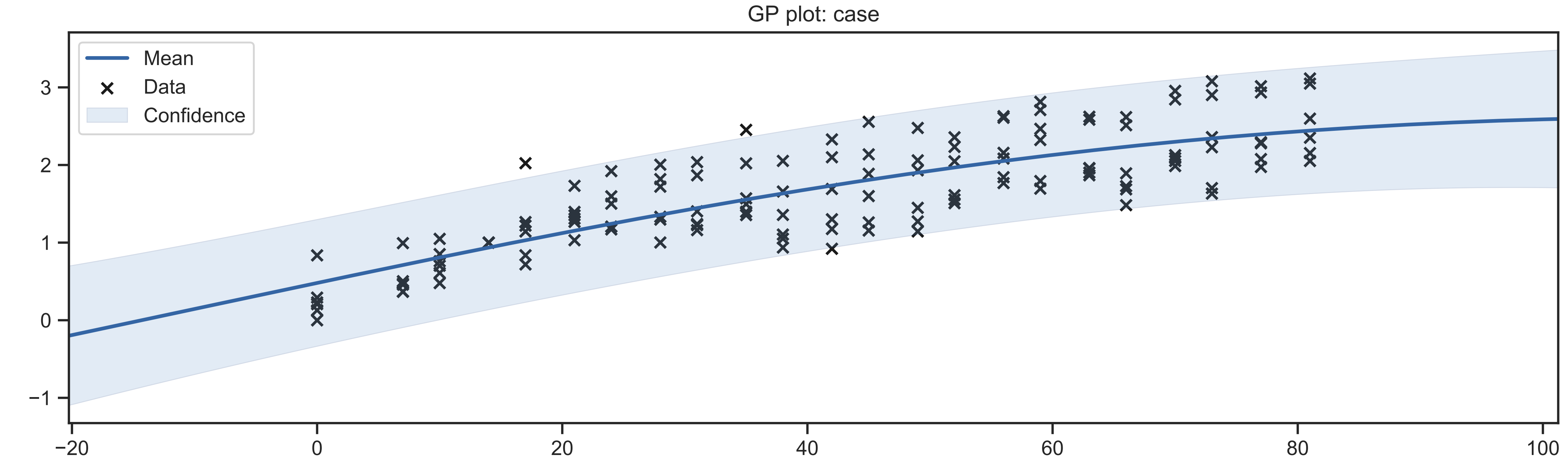
P59*C1

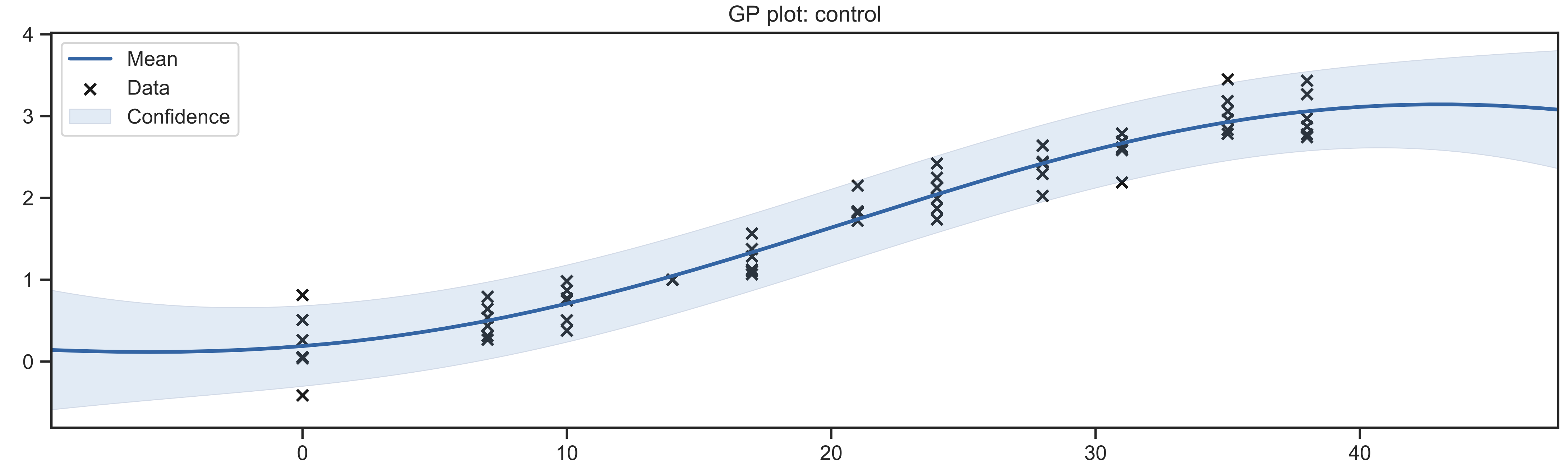


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

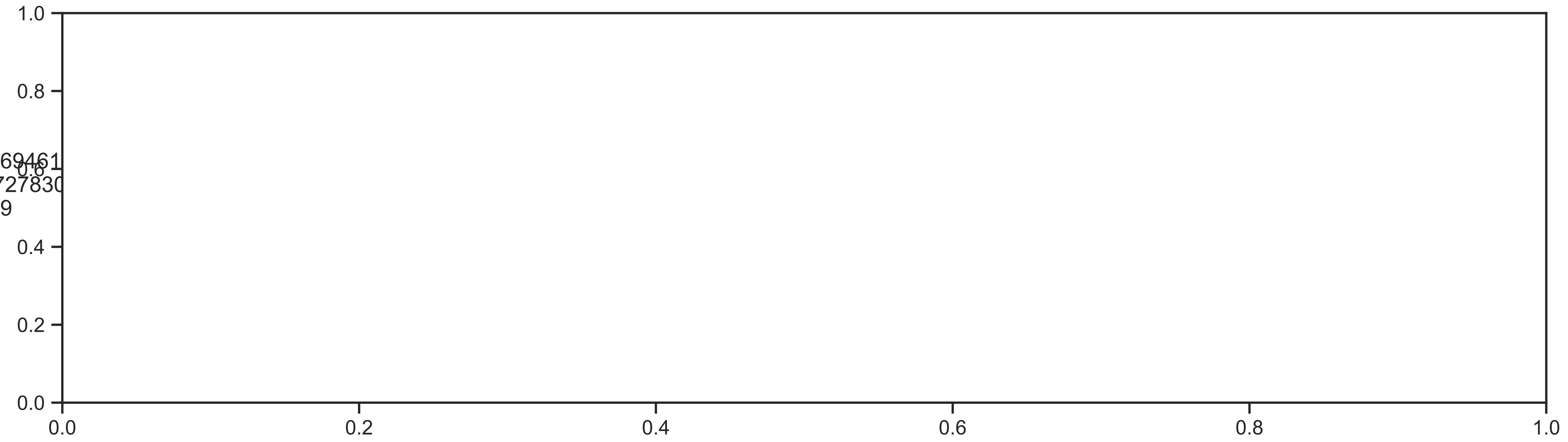




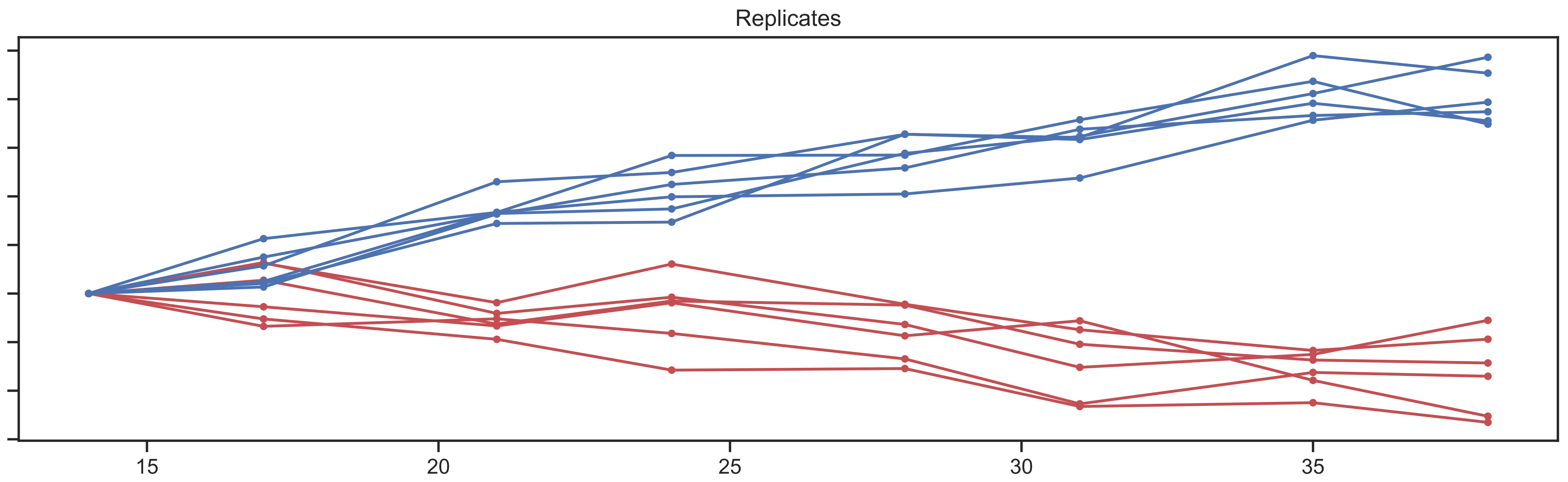




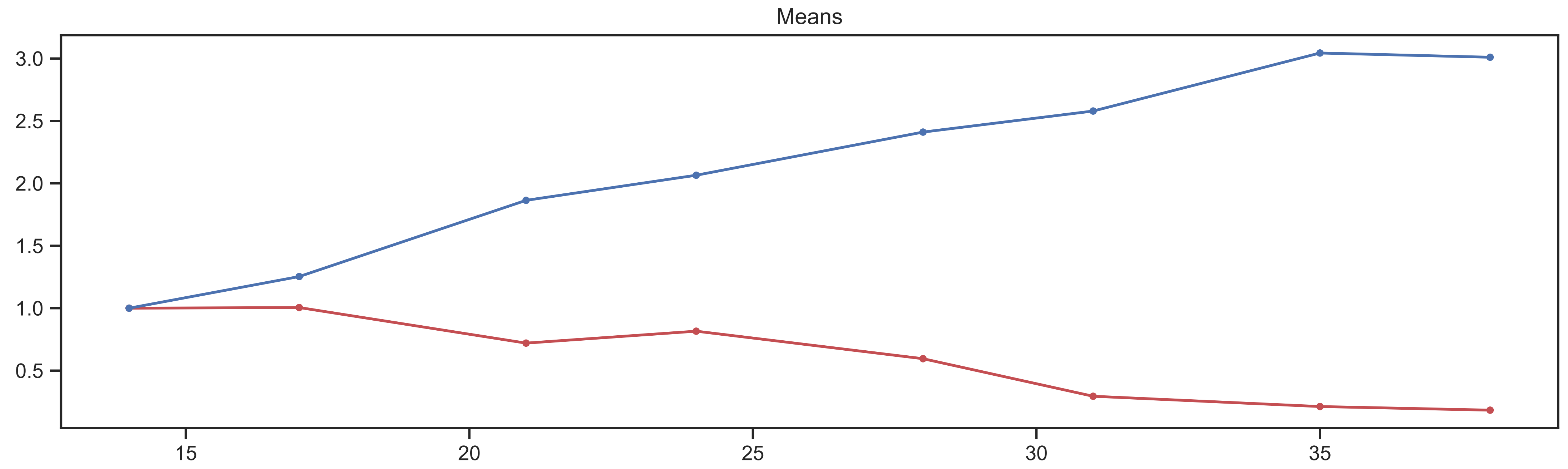
mRECIST: (0,0,4,2
kl: 12.636519925448576
response_angle_rel: 0:0.07204069432608334_1:0.034556501991680484_2:0.0275312029044352_3:0.020720727373259994_4:0.018166433683943987_5:0.0758586869461
response_angle_rel_control: 0:0.19655453978242143_1:0.15069422827418888_2:0.18632038726584269_3:0.15047017312309185_4:0.11689297979772122_5:0.12672783
auc_norm: 0:0.29215891552322304_1:0.10150781118707612_2:-0.04444773684849013_3:-0.06099219909650218_4:-0.024569484314764606_5:0.2213103725170399
auc_control_norm: 0:[0.68889872]_1:[0.52518263]_2:[0.58090411]_3:[0.53502148]_4:[0.54516422]_5:[0.43459182]
tgi: 0.7495449086727839
red = treatment,   blue=control

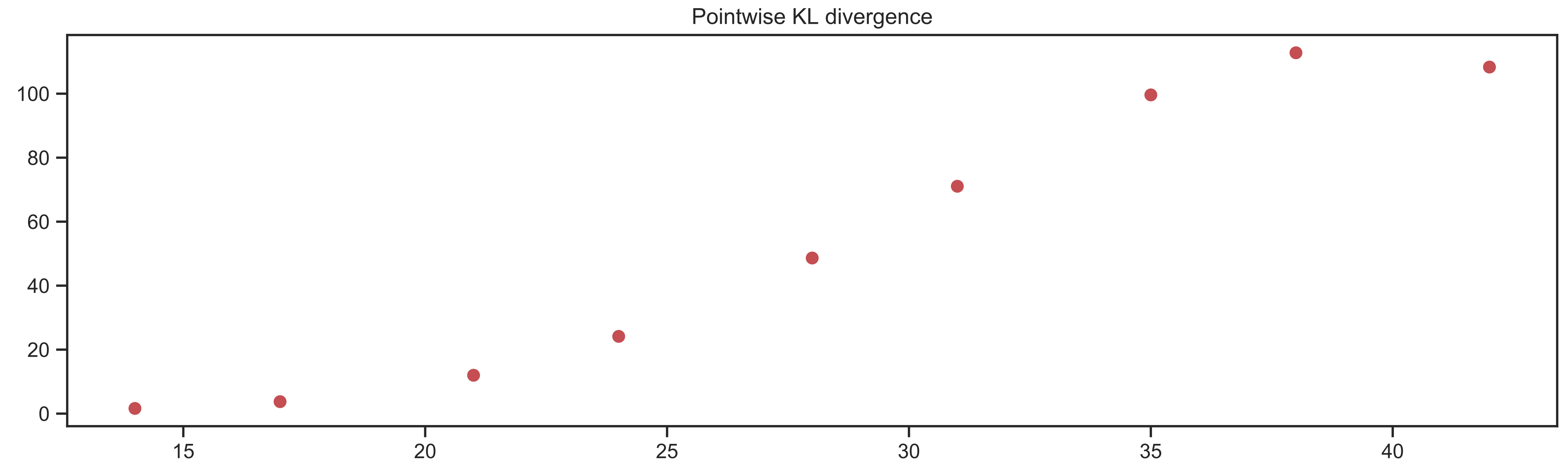


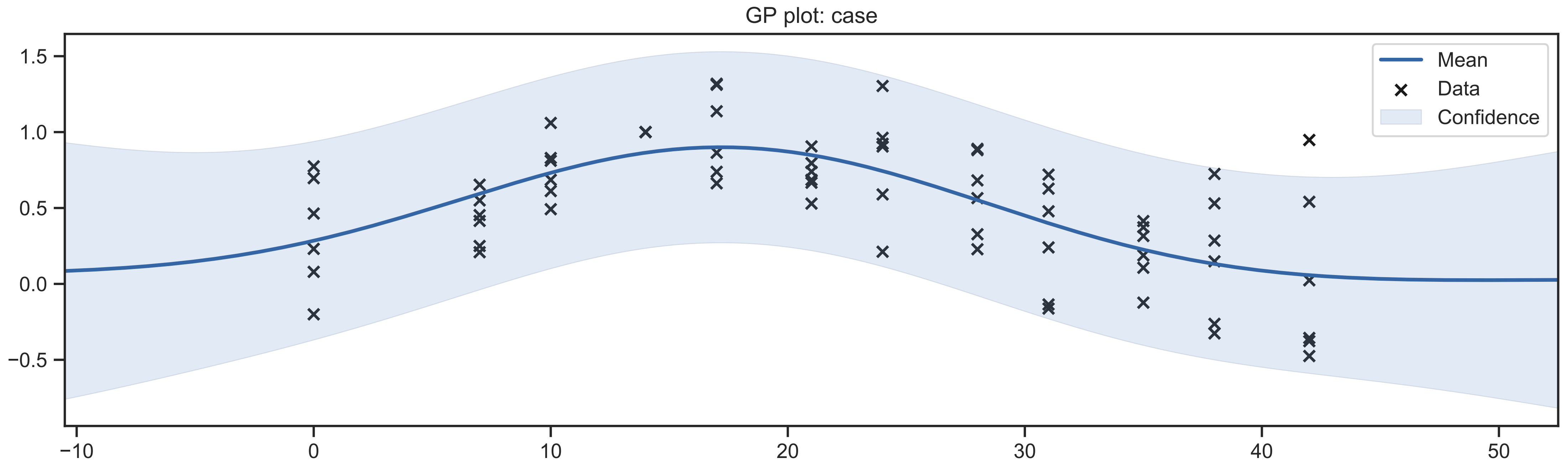
P59*C2

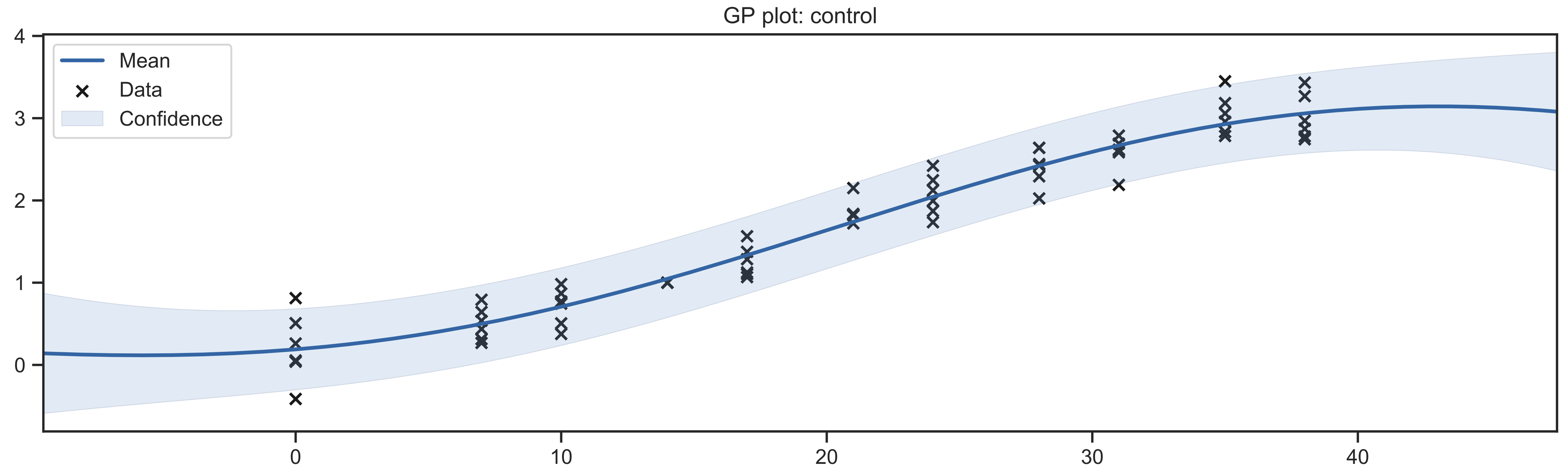


KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

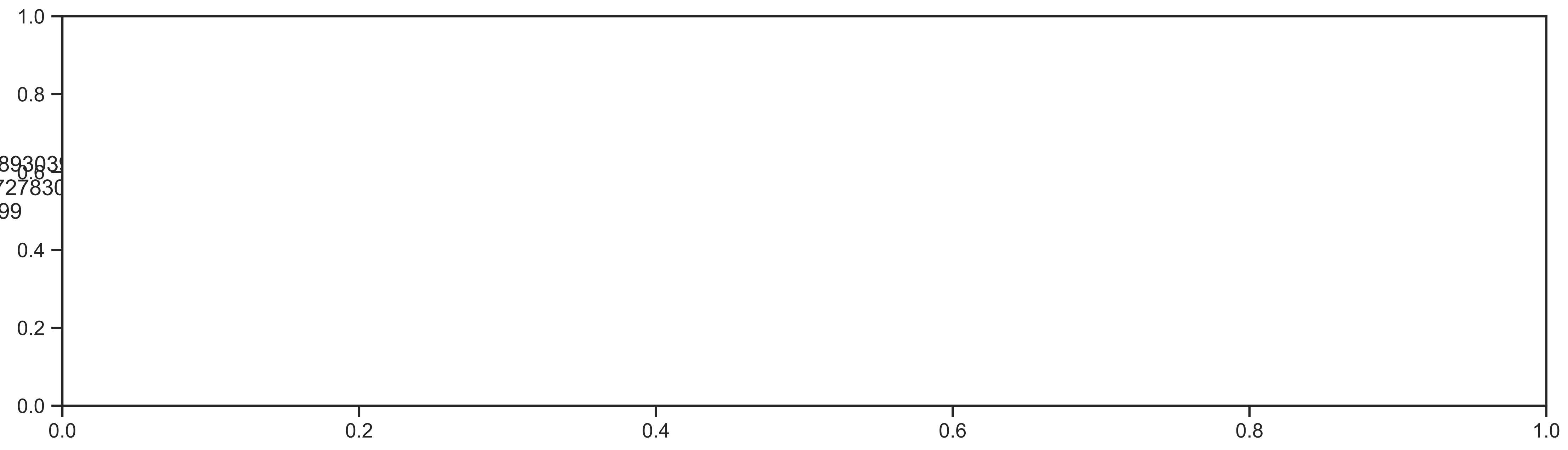




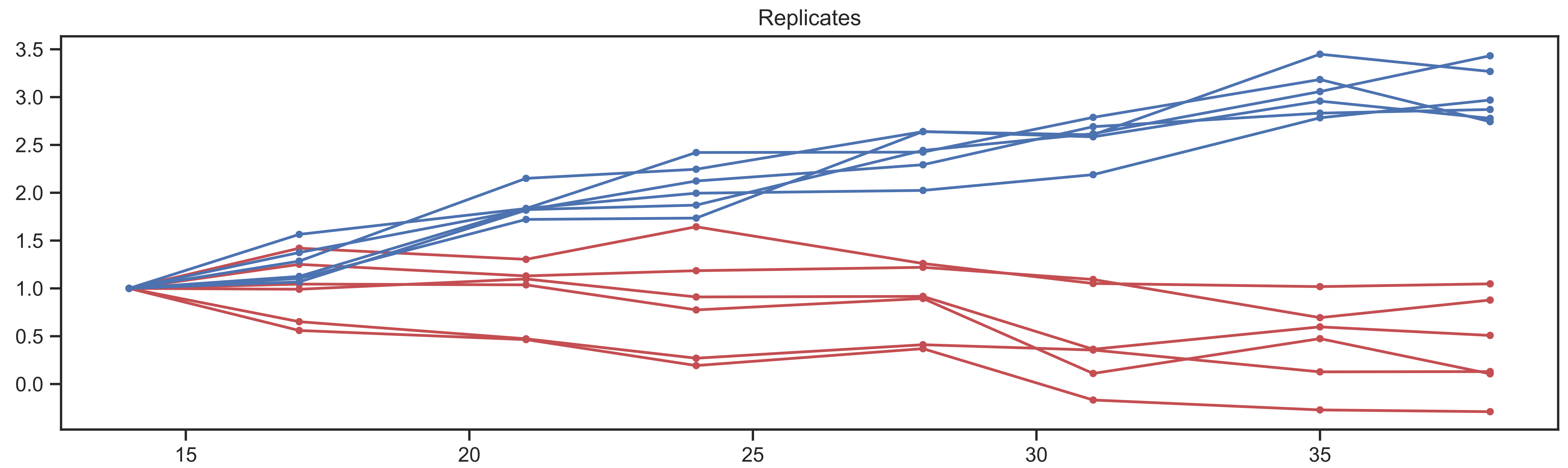




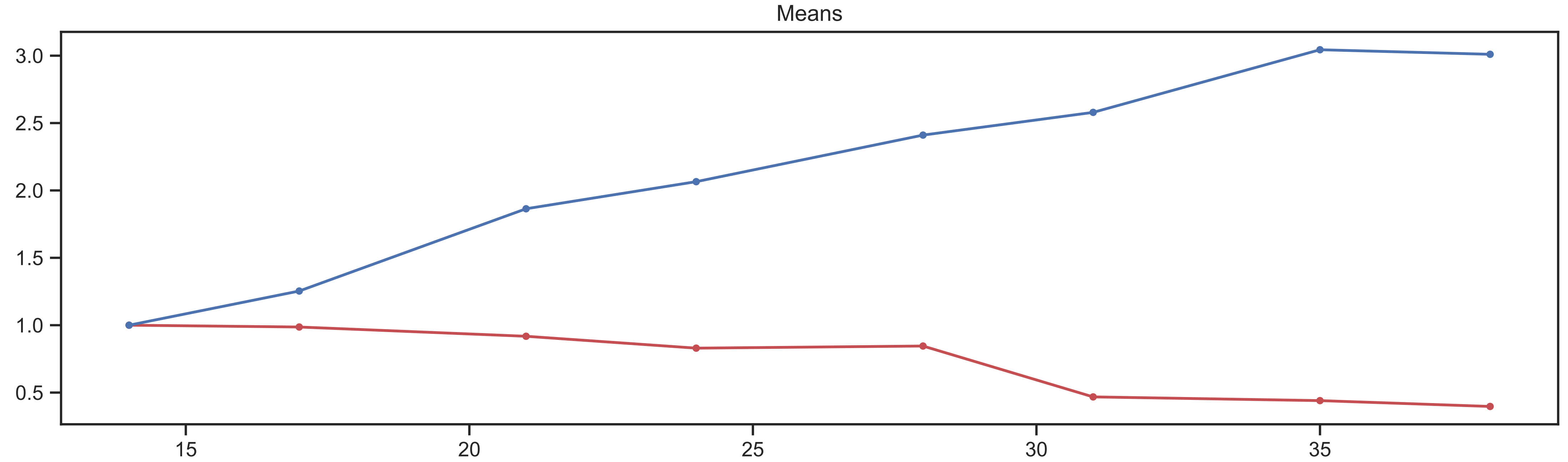
mRECIST: (3,2,1,0
kl: 51.71739092899851
response_angle_rel: 0:-0.014506186729441917_1:0.021310842449576737_2:0.004527324155810054_3:0.016429583828920093_4:-0.005694861367230331_5:-0.01089303
response_angle_rel_control: 0:0.19655453978242143_1:0.15069422827418888_2:0.18632038726584269_3:0.15047017312309185_4:0.11689297979772122_5:0.12672783
auc_norm: 0:-0.32515608302077437_1:-0.07048606322569445_2:-0.18352760391784437_3:-0.036074216716074706_4:-0.2953225493240356_5:-0.4291627168851199
auc_control_norm: 0:[0.68889872]_1:[0.52518263]_2:[0.58090411]_3:[0.53502148]_4:[0.54516422]_5:[0.43459182]
tgi: 1.4056941319245968
red = treatment,   blue=control

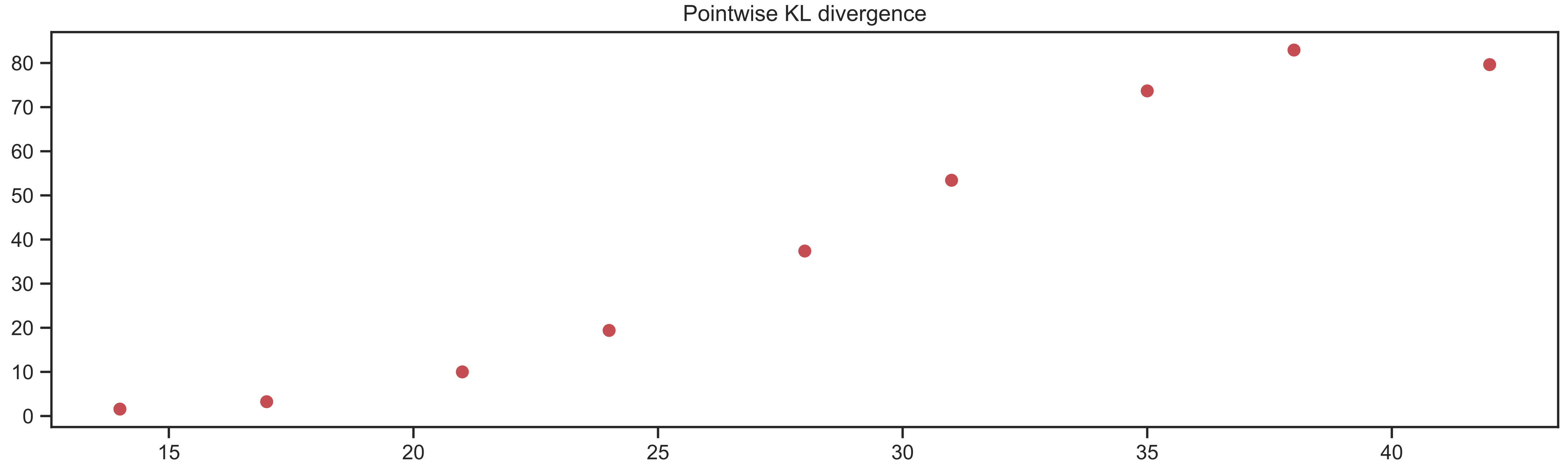


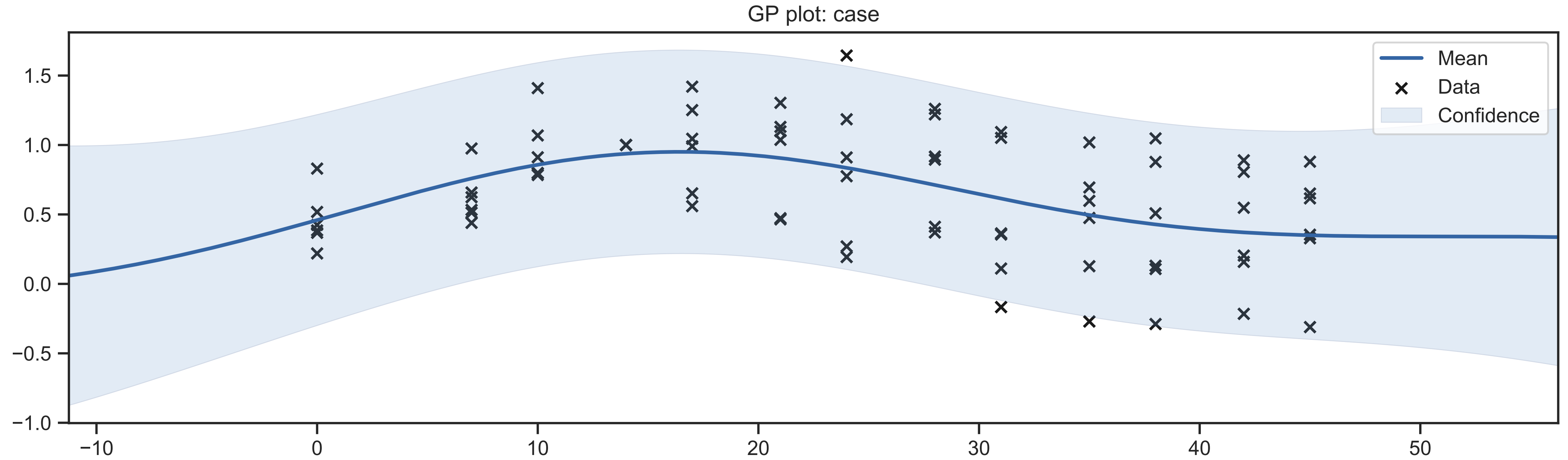
P59*C3

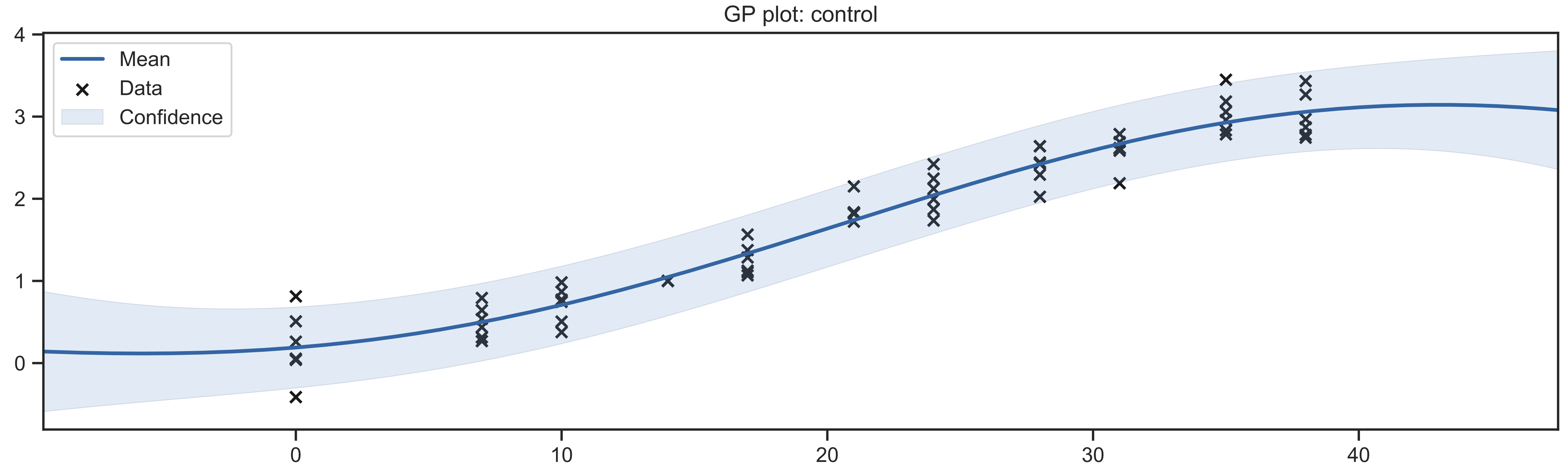

Replicates

KuLGaP: Y
KuLGaP2: Y
mRECIST (Novartis): Y
mRECIST (ours): Y
Angle: Y
AUC: Y
TGI: Y

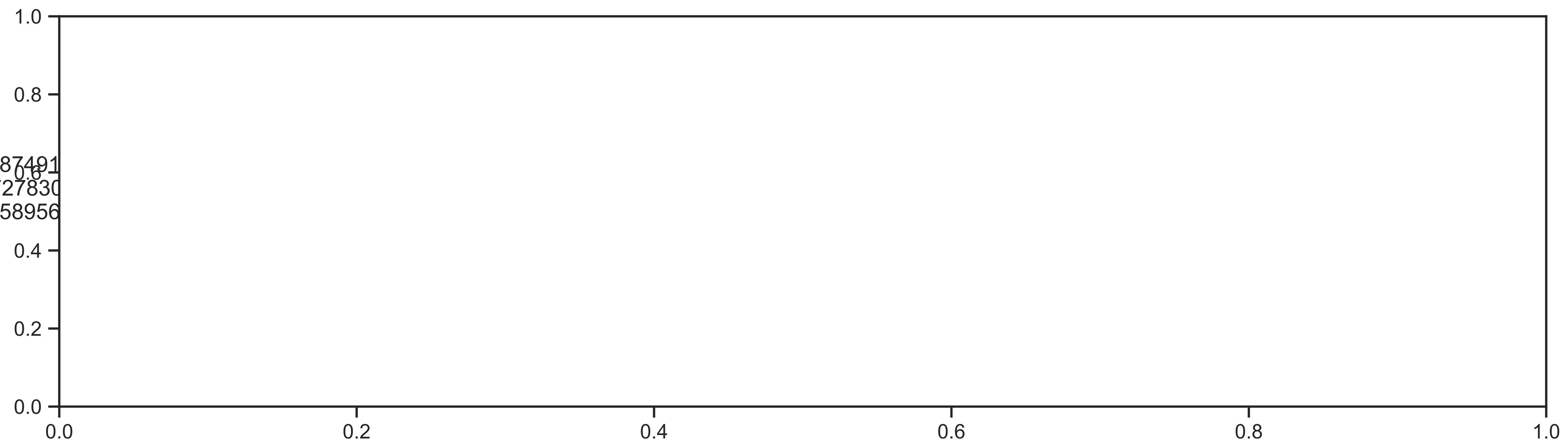

Means


Pointwise KL divergence

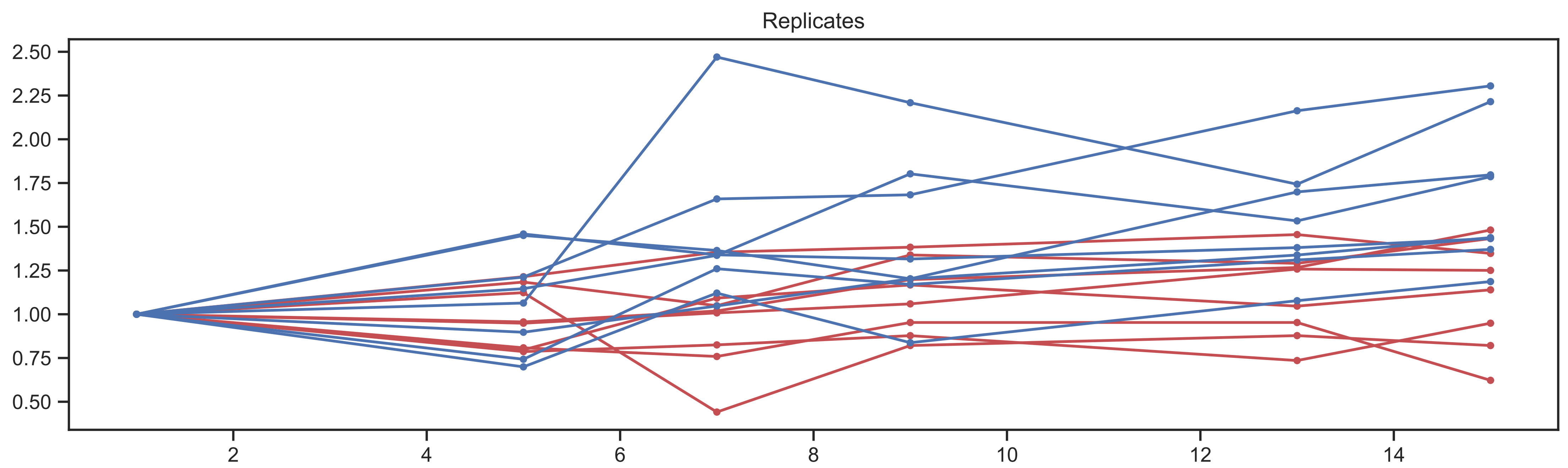

GP plot: case


GP plot: control

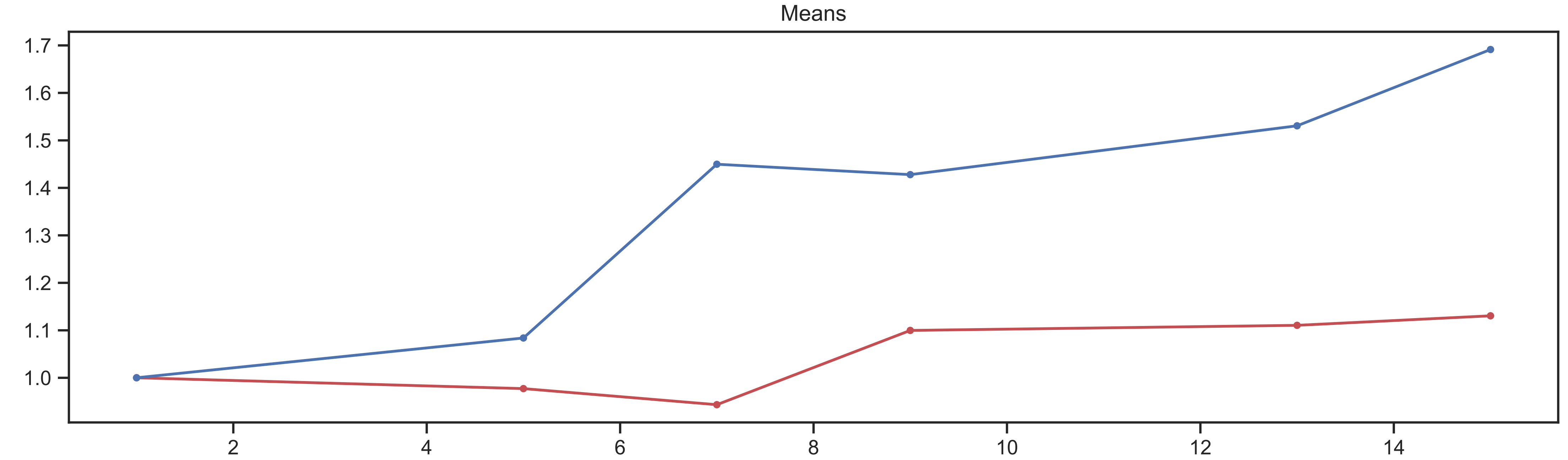
mRECIST: (2,2,2,0
kl: 38.57960973901434
response_angle_rel: 0:0.0389415541674426_1:0.05851522372021547_2:-0.0012967878868295258_3:0.010547625359071O2_4:-0.012986977858615117_5:0.00806908749
response_angle_rel_control: 0:0.19655453978242143_1:0.15069422827418888_2:0.18632038726584269_3:0.15047017312309185_4:0.11689297979772122_5:0.1267278
auc_norm: 0:-0.00022404122477783645_1:0.060283955772176066_2:-0.42785486994306227_3:-0.33727748903122357_4:-0.19294531037922633_5:-0.2677436488958956
auc_control_norm: 0:[0.68889872]_1:[0.52518263]_2:[0.58090411]_3:[0.53502148]_4:[0.54516422]_5:[0.43459182]
tgi: 1.2570999109910153
red = treatment, blue=control

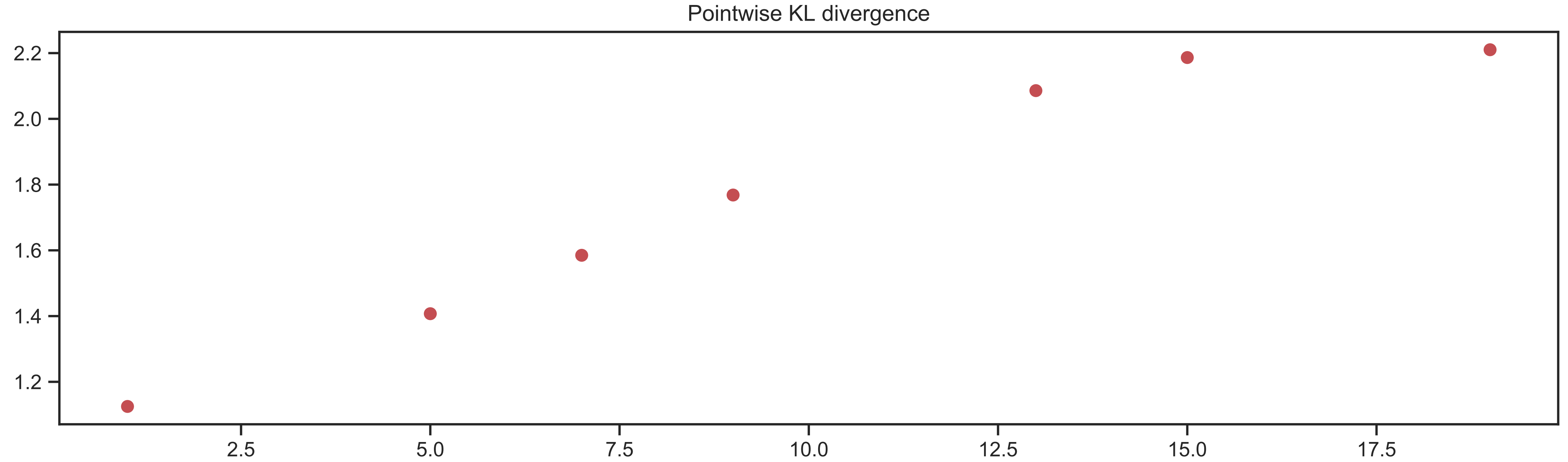


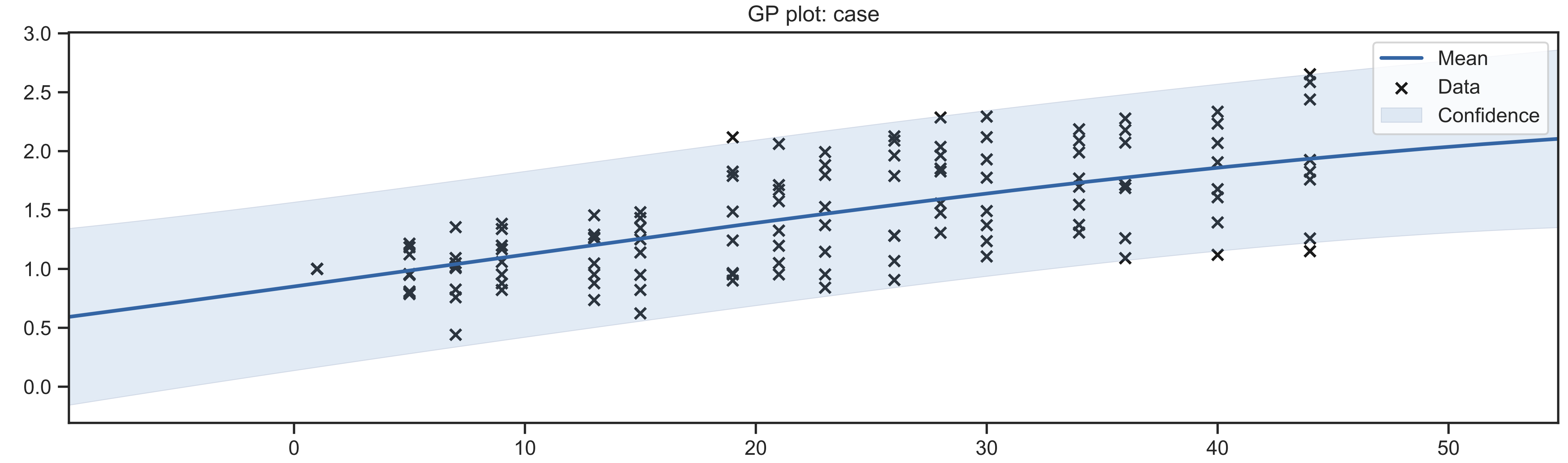
P60*C1

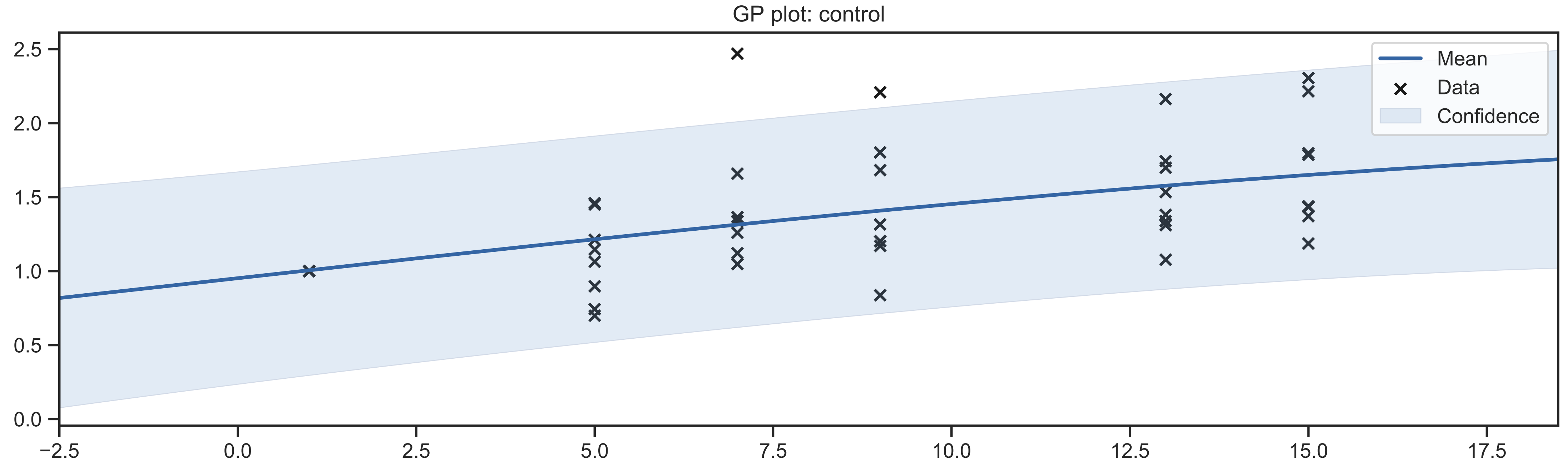


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

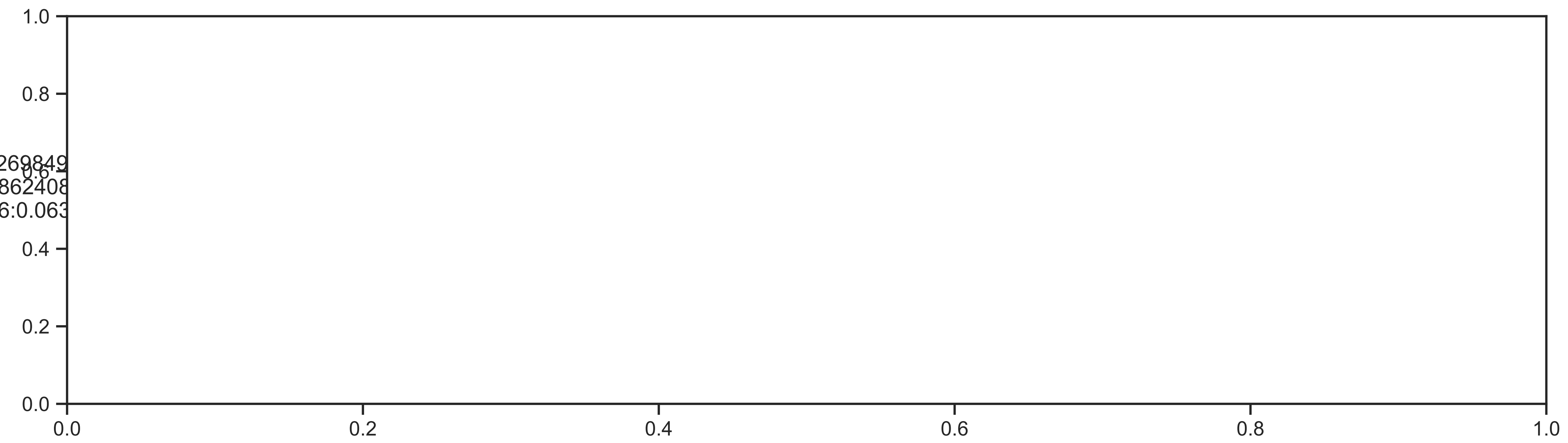




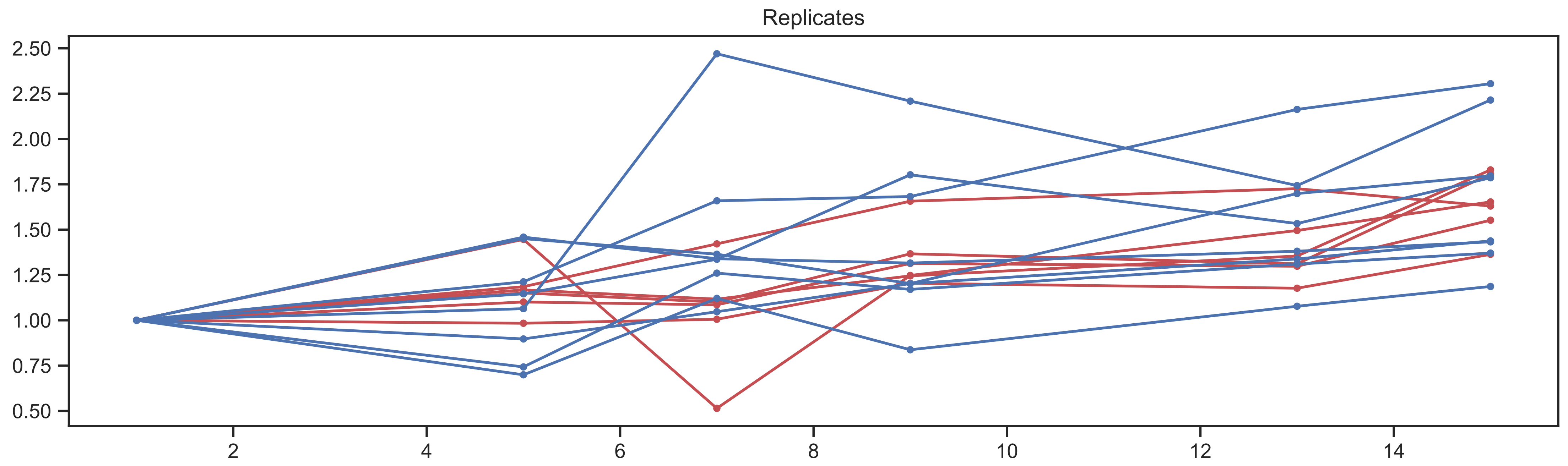




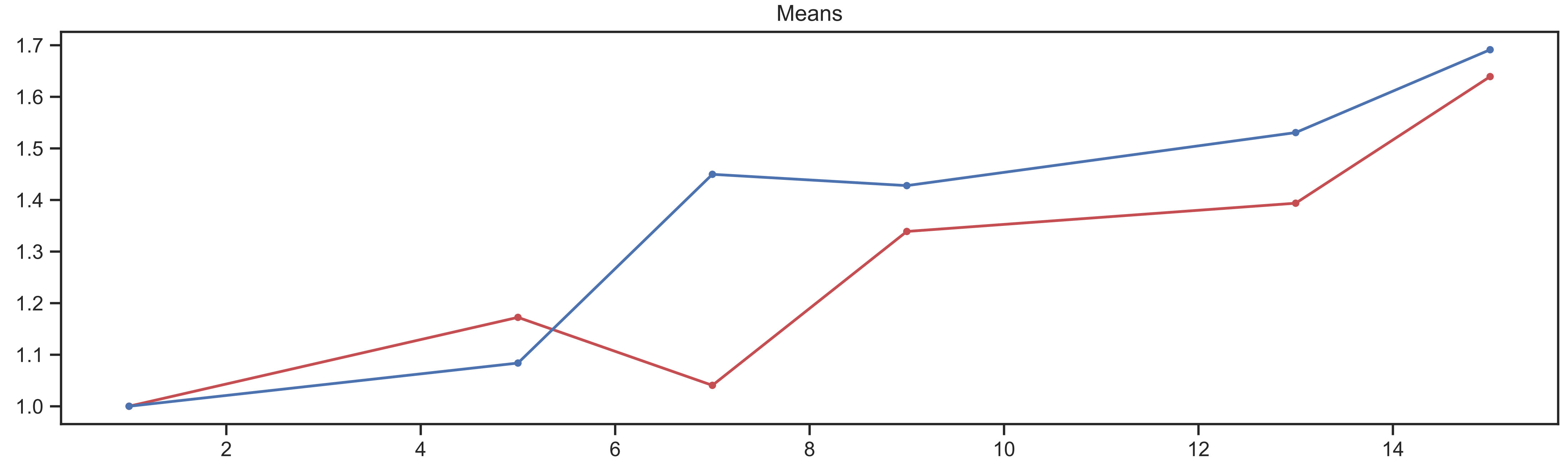
mRECIST: (0,0,8,0
kl: 0.7926751795037104
response_angle_rel: 0:0.04007491698047009_1:-0.0008794689282277872_2:0.015093688175765597_3:0.02010502997405713_4:-0.006955984093522496_5:0.0092269849
response_angle_rel_control: 0:0.08036028037209884_1:0.16725377294220278_2:0.09355656704038465_3:0.12766960895715407_4:0.03435198395236978_5:0.04686240
auc_norm: 0:0.08840750533223574_1:0.2343527642478258_2:0.10207565592113949_3:-0.1409085899323964_4:-0.13445040275730177_5:0.18234234521550385_6:0.063
auc_control_norm: 0:[0.16157536]_1:[0.47938979]_2:[0.42370896]_3:[0.70782579]_4:[0.21466382]_5:[0.21075271]_6:[0.1084941]_7:[0.08537991]
tgi: 0.5181498760693821
red = treatment, blue=control

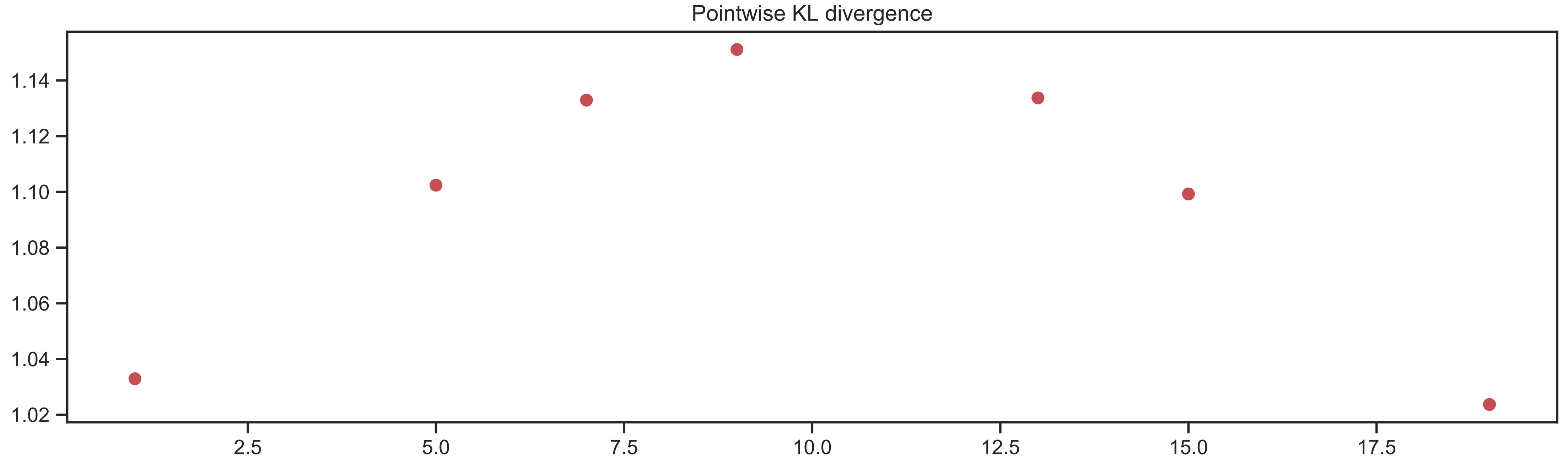


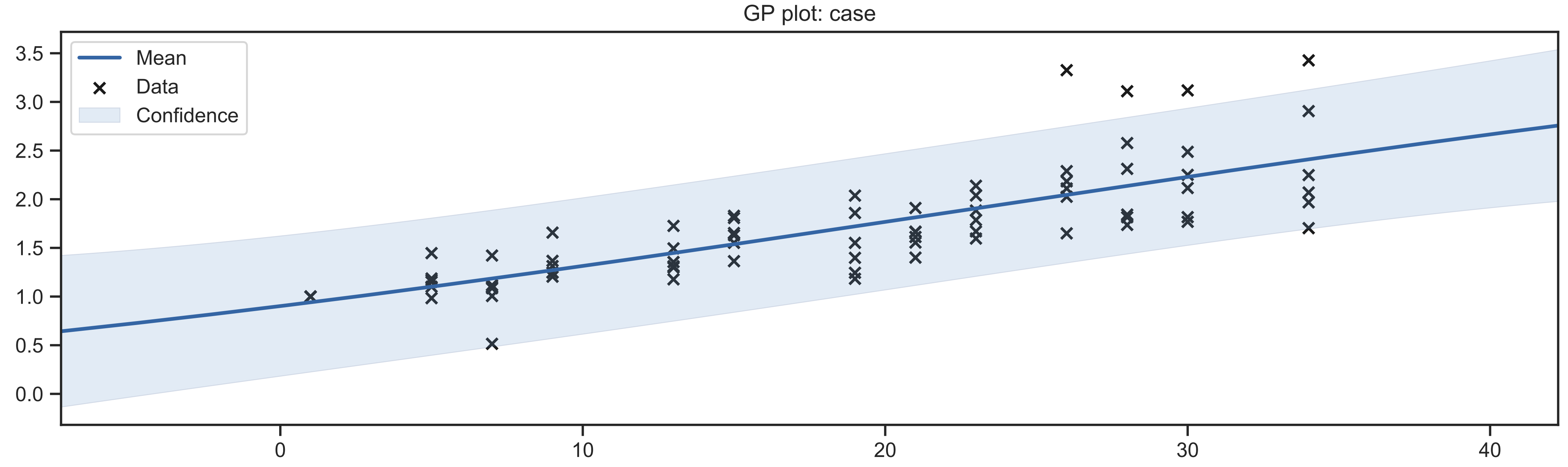
P60*C2

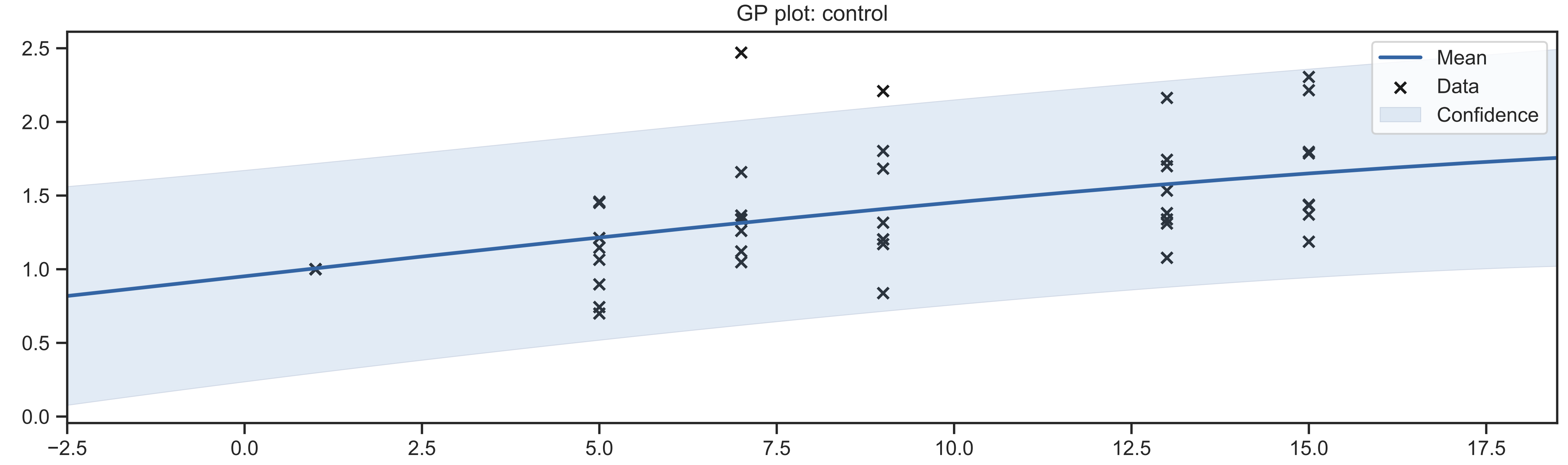


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: N
TGI: N

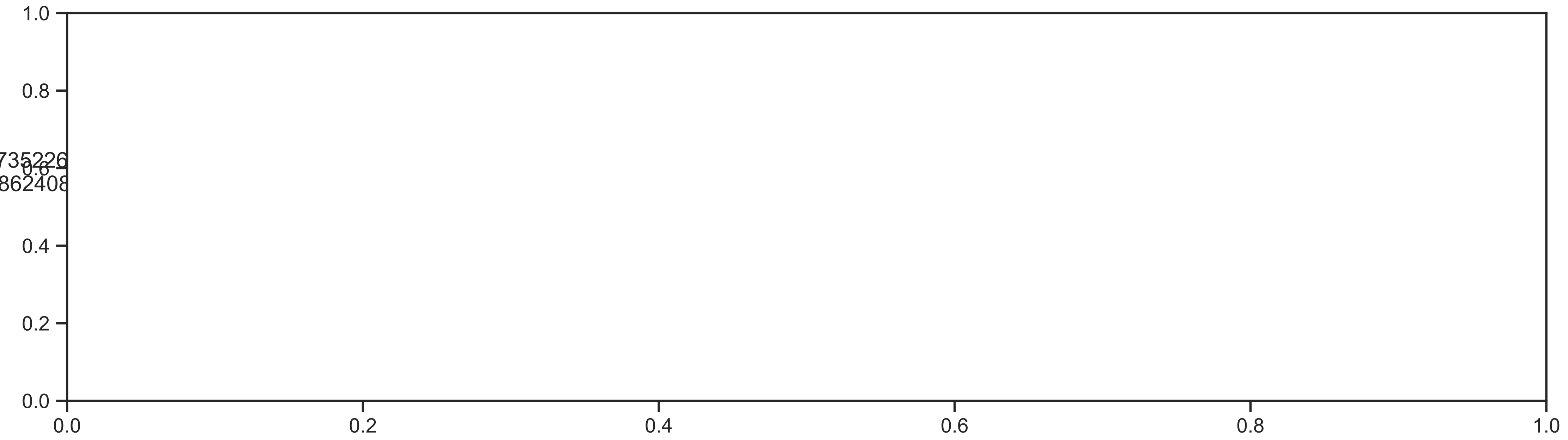




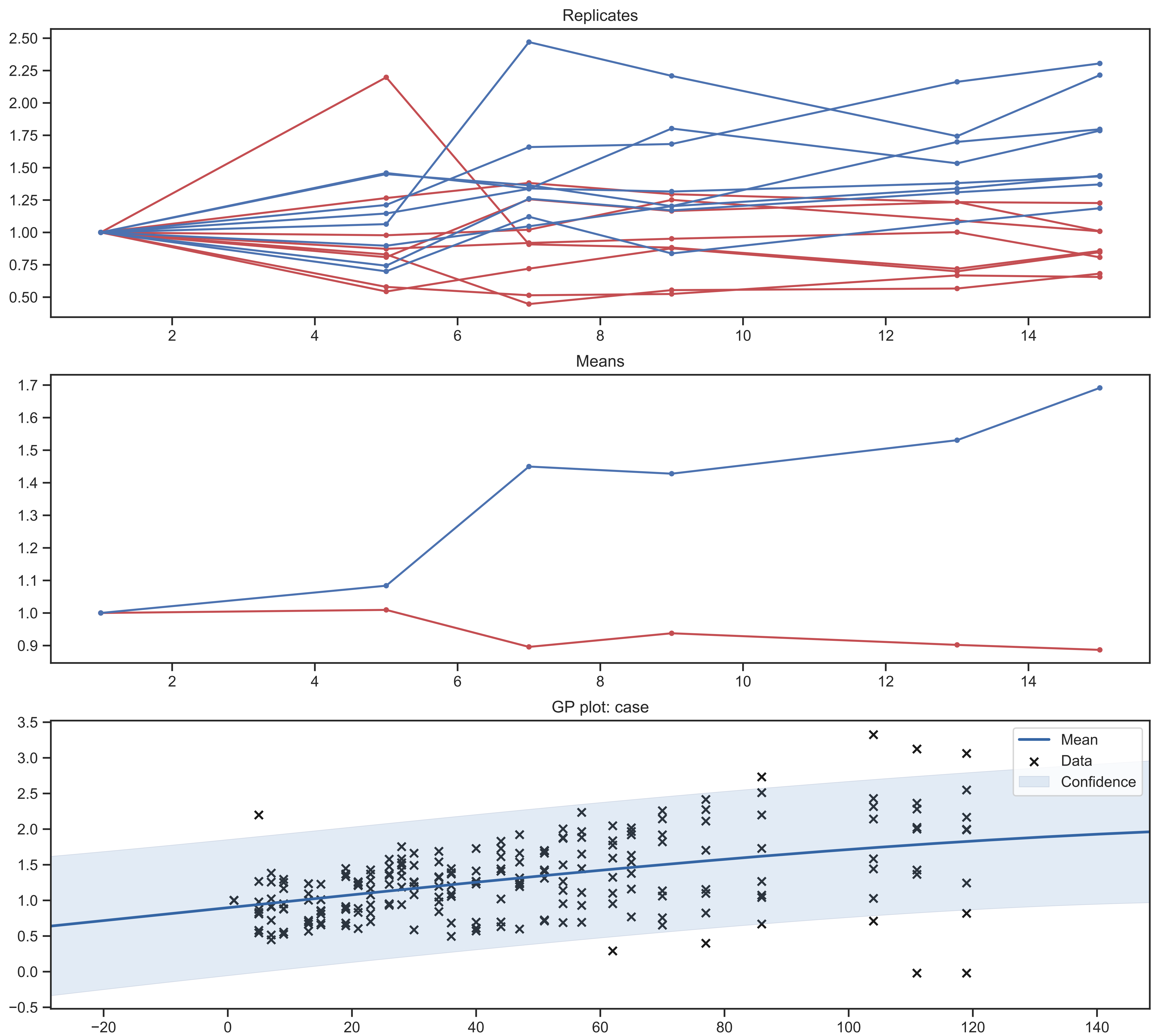




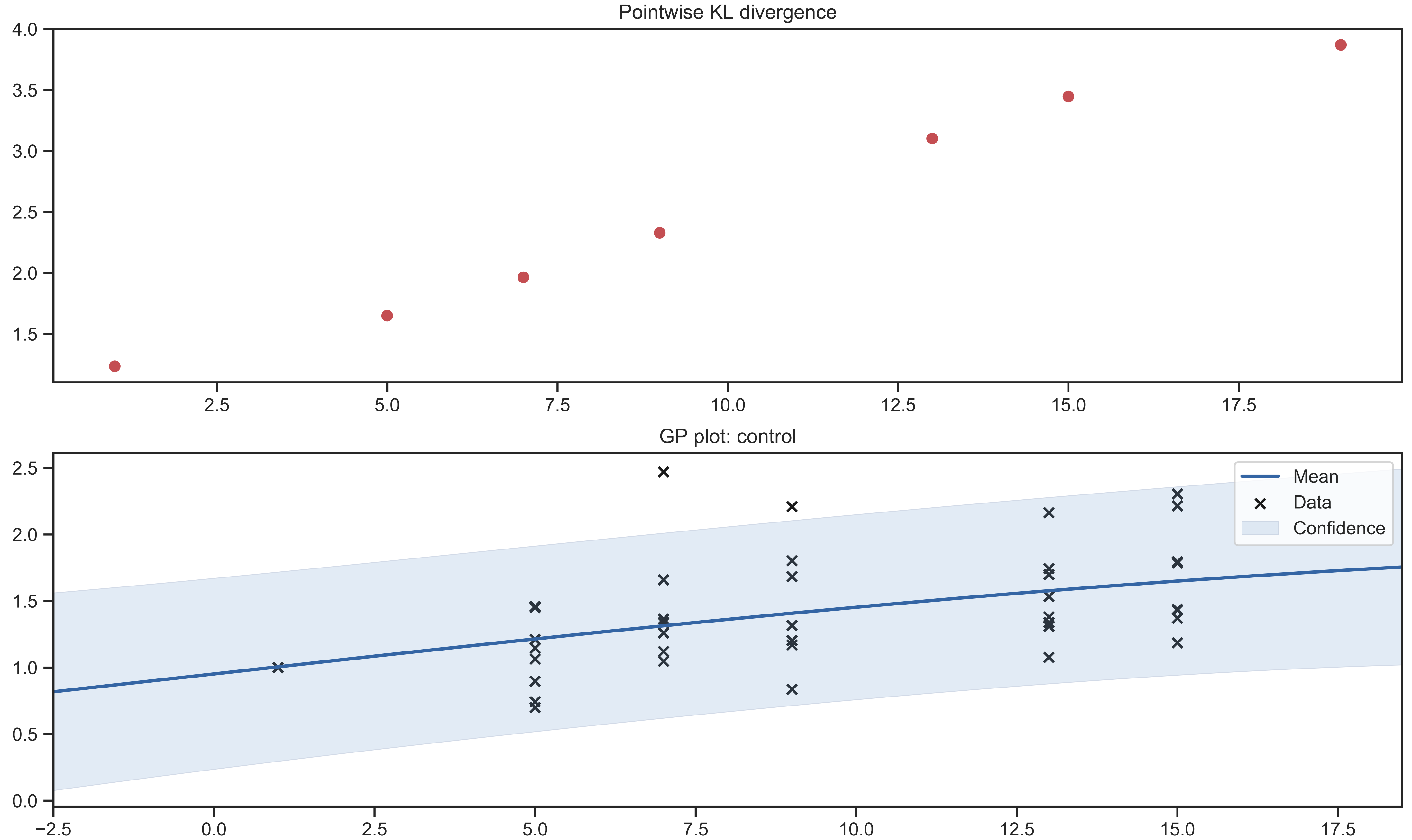
mRECIST: (0,0,6,0
kl: 0.10310378333220115
response_angle_rel: 0:0.040849312148216056_1:0.13576650075034533_2:0.11343268585292211_3:-0.007215207058423045_4:0.024717008937609974_5:-0.00398735226
response_angle_rel_control: 0:0.08036028037209884_1:0.16725377294220278_2:0.09355656704038465_3:0.12766960895715407_4:0.03435198395236978_5:0.046862408
auc_norm: 0:0.34542366967059246_1:0.15286231373996456_2:0.251399886175807_3:0.2545140445464388_4:0.3796066975593444_5:0.19277931874643514
auc_control_norm: 0:[0.16157536]_1:[0.47938979]_2:[0.42370896]_3:[0.70782579]_4:[0.21466382]_5:[0.21075271]_6:[0.1084941]_7:[0.08537991]
tgi: 0.35900592285288724
red = treatment,   blue=control

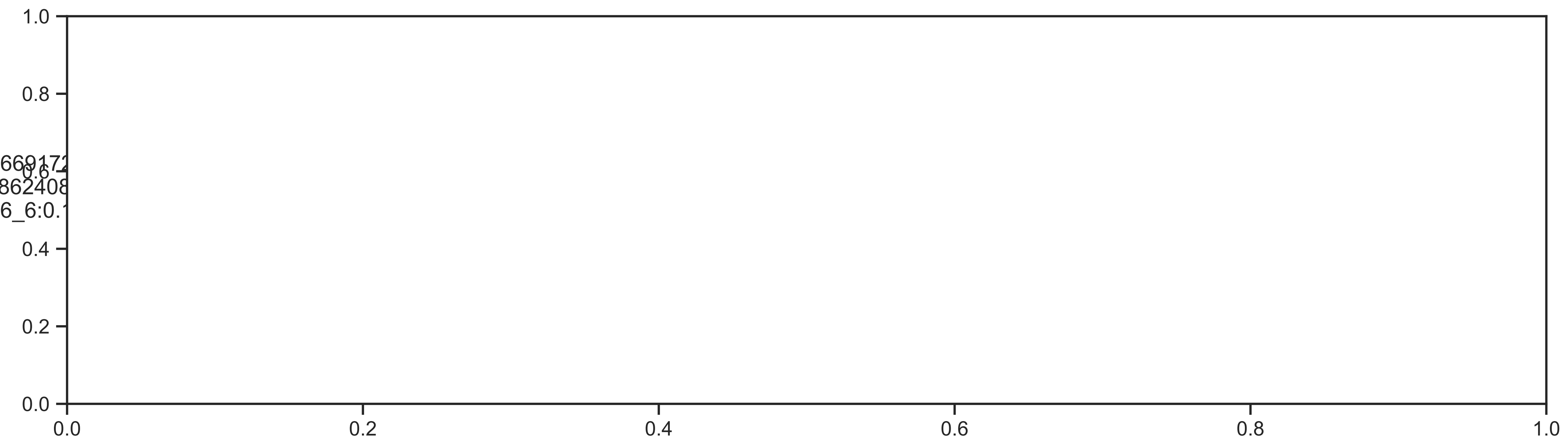


P60*C3



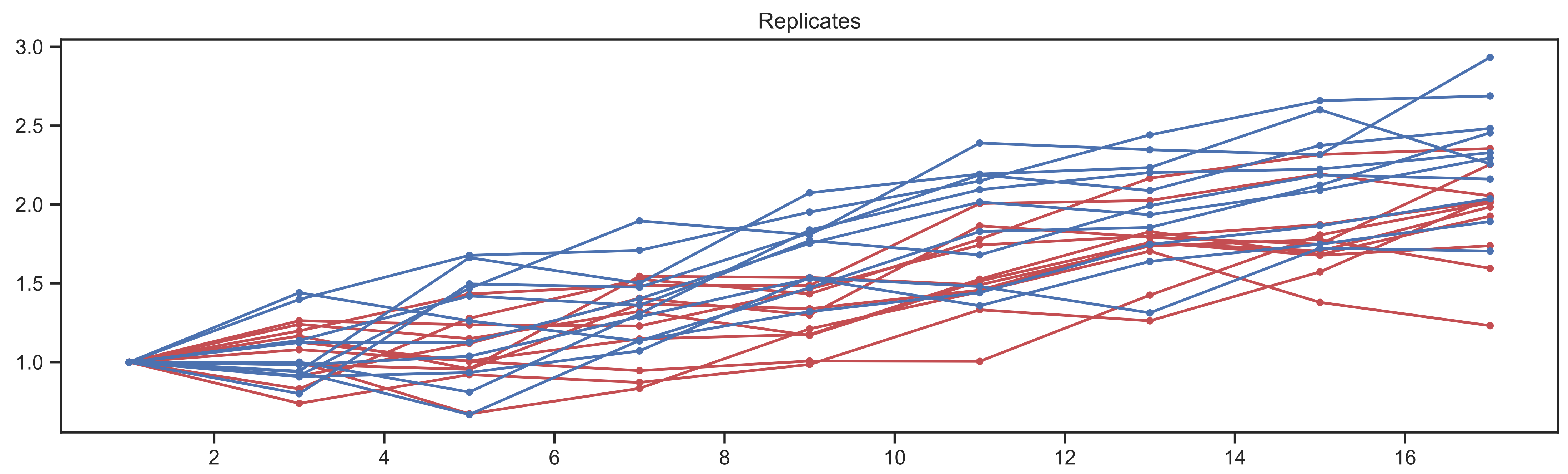
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y



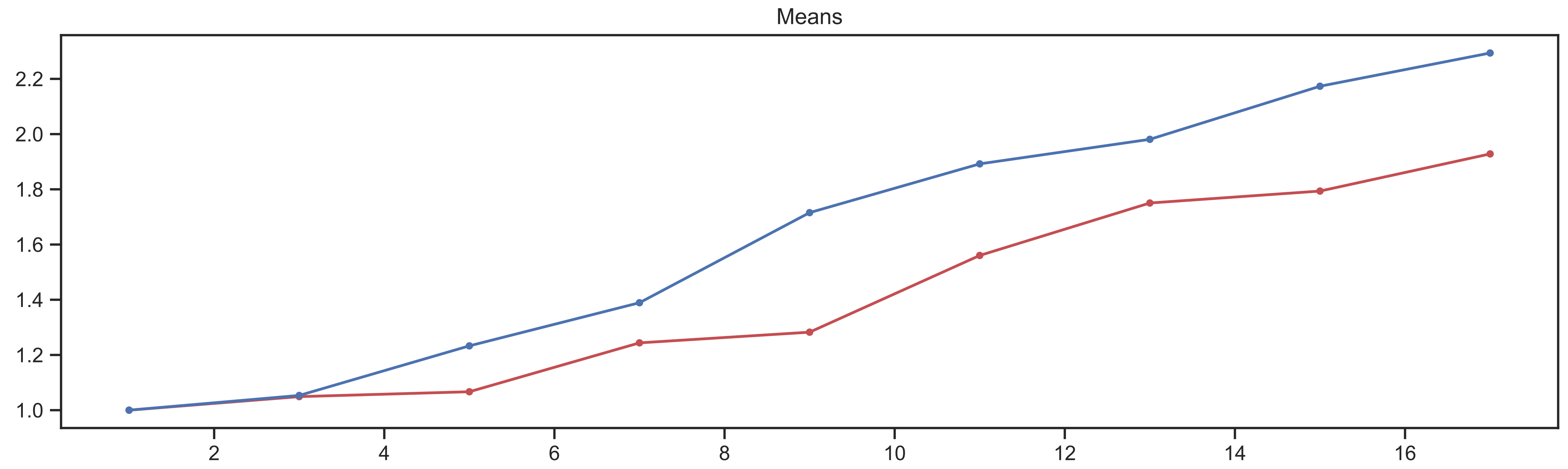


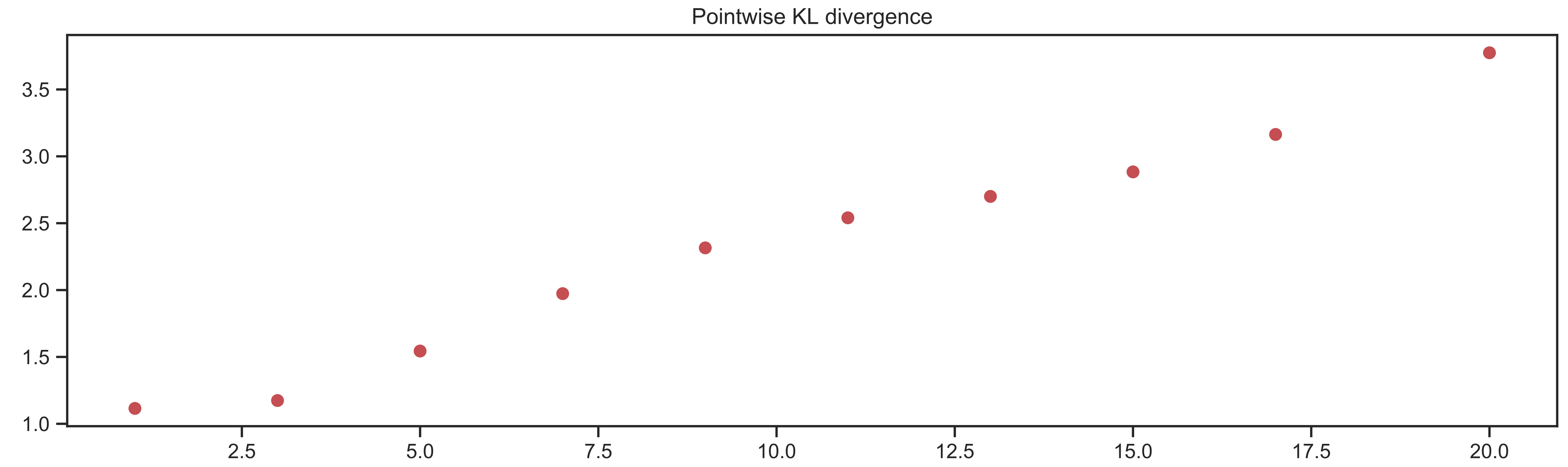
mRECIST: (0,1,7,0
kl: 1.543099954321939
response_angle_rel: 0:0.019180680012384745_1:0.0254406321151849_2:0.014495265548445118_3:0.049405158030383124_4:0.013550646935343202_5:-0.00486066917
response_angle_rel_control: 0:0.08036028037209884_1:0.16725377294220278_2:0.09355656704038465_3:0.12766960895715407_4:0.03435198395236978_5:0.04686240
auc_norm: 0:-0.33000540297829983_1:0.049445811703764525_2:-0.11972568376262474_3:0.08225283440710884_4:-0.07720212076966446_5:-0.102768532658086_6:0.
auc_control_norm: 0:[0.16157536]_1:[0.47938979]_2:[0.42370896]_3:[0.70782579]_4:[0.21466382]_5:[0.21075271]_6:[0.1084941]_7:[0.08537991]
tgi: 0.9783444356189595
red = treatment, blue=control

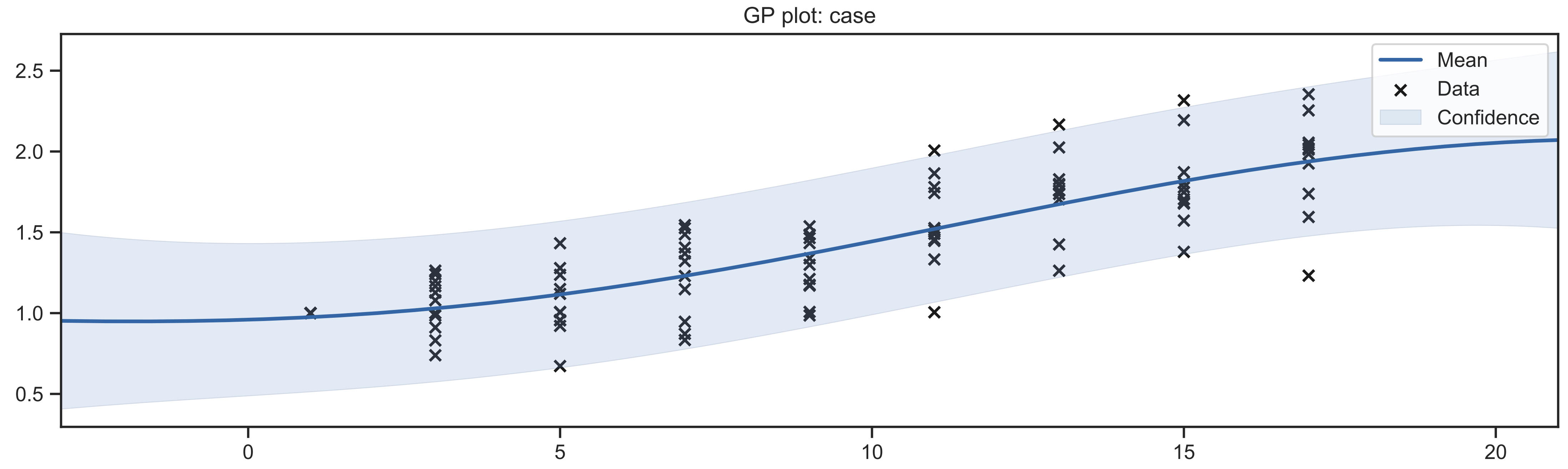
P61*C1

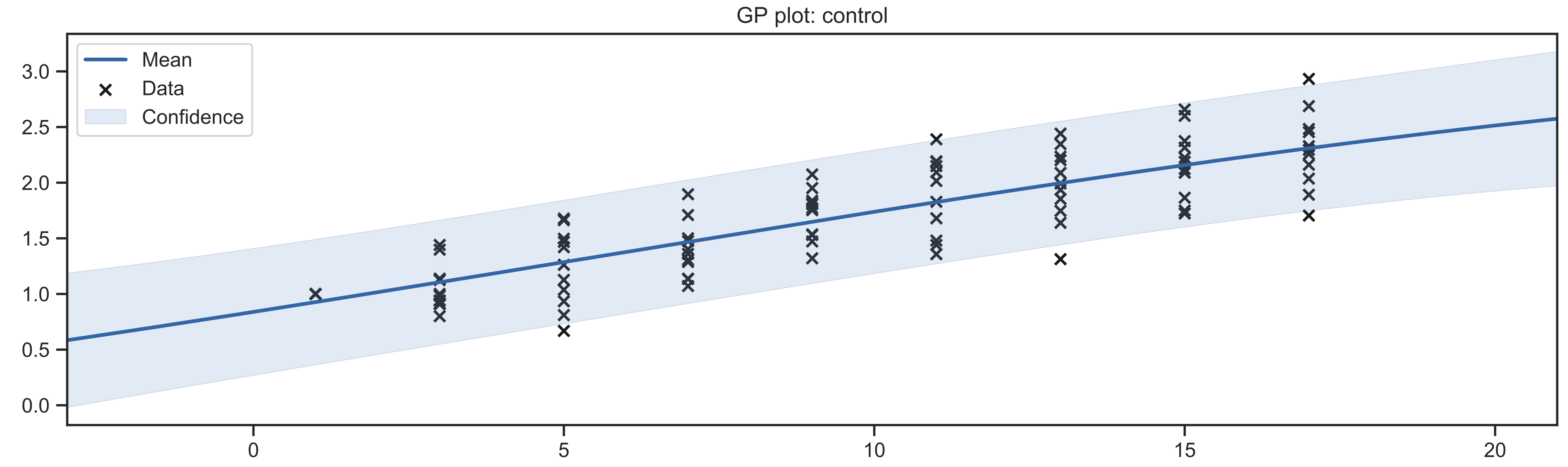


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

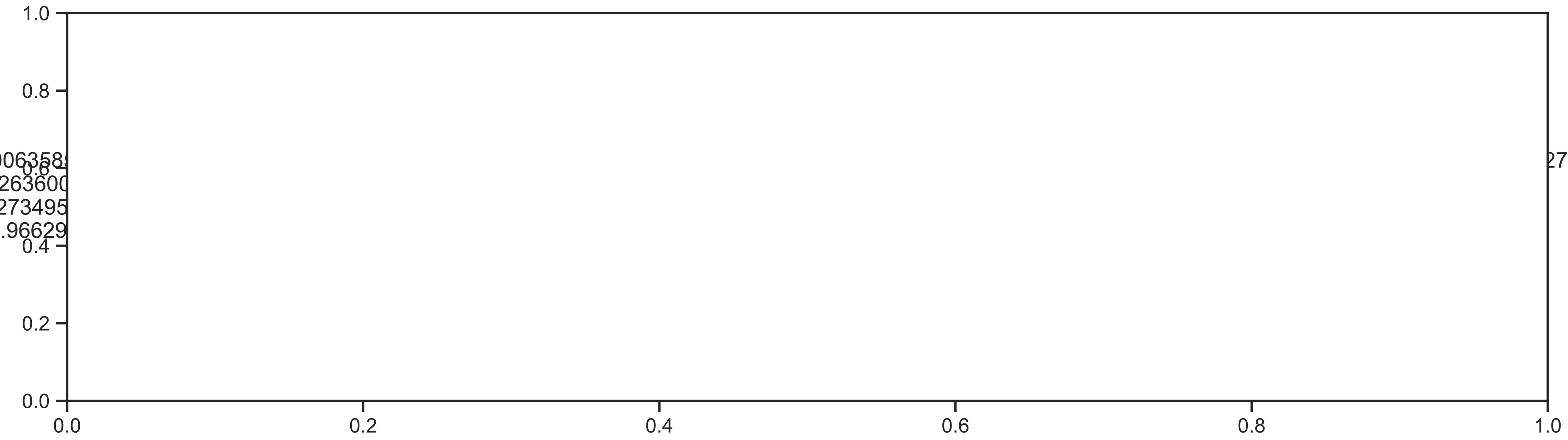




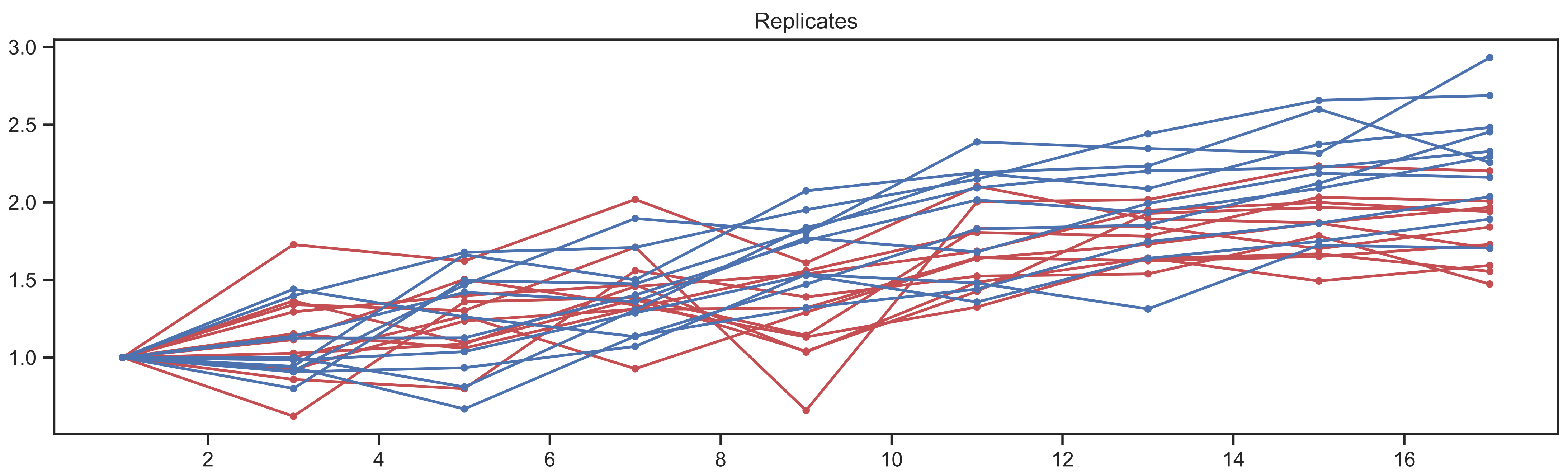




mRECIST: (0,0,10,1
kl: 1.3588470065102942
response_angle_rel: 0:-0.0015687687856992074_1:0.011891123883277928_2:-0.012548714003881608_3:0.021638612374206313_4:-0.0007530323926533996_5:0.006358 2745
response_angle_rel_control: 0:0.08587448059475661_1:0.18998808848285564_2:0.2325895596953442_3:0.056484506063612196_4:0.1101178025482452_5:0.137026360
auc_norm: 0:0.5097999876918394_1:0.11584958924986155_2:0.4922600818374563_3:0.6770123637824471_4:0.5057098926919638_5:0.6270158036902204_6:0.5273495
auc_control_norm: 0:[0.51815612]_1:[0.62851148]_2:[0.84392035]_3:[0.35233501]_4:[0.44579828]_5:[0.58058073]_6:[0.6639283]_7:[0.72719207]_8:[0.74104166]_9:[0.96629
tgi: 0.18325993467728408
red = treatment,   blue=control

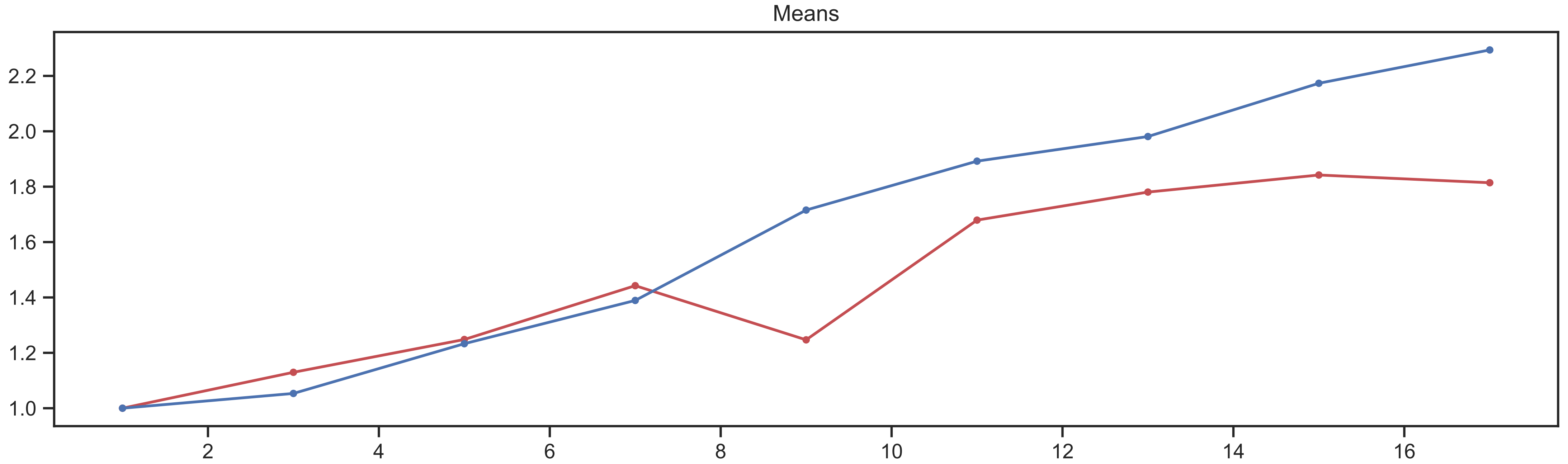


P61*C2

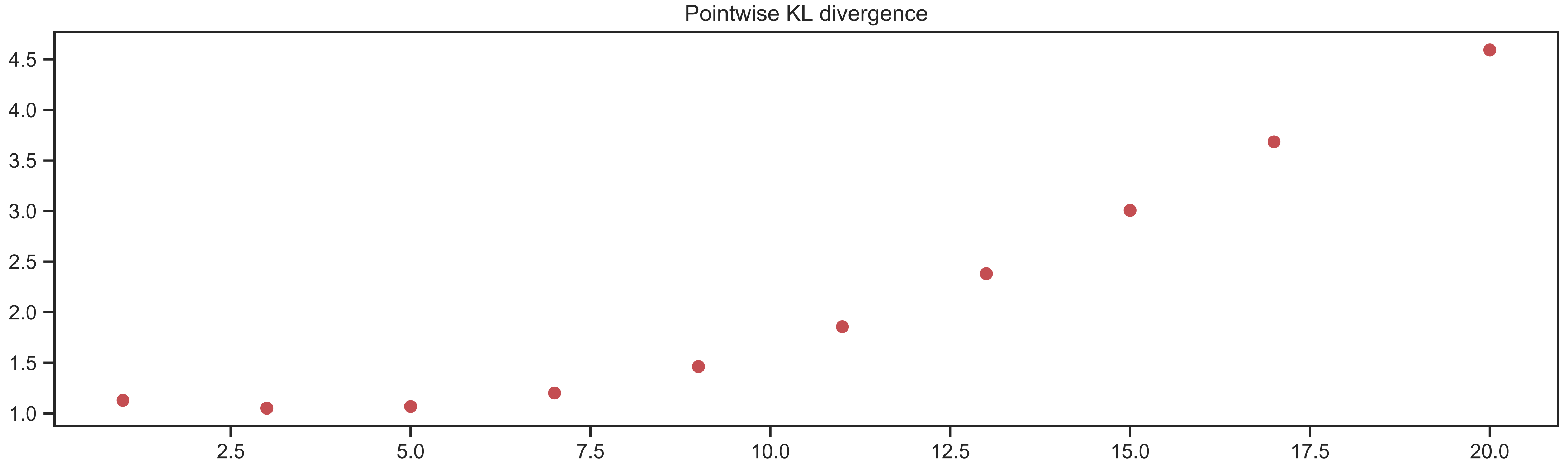


Replicates

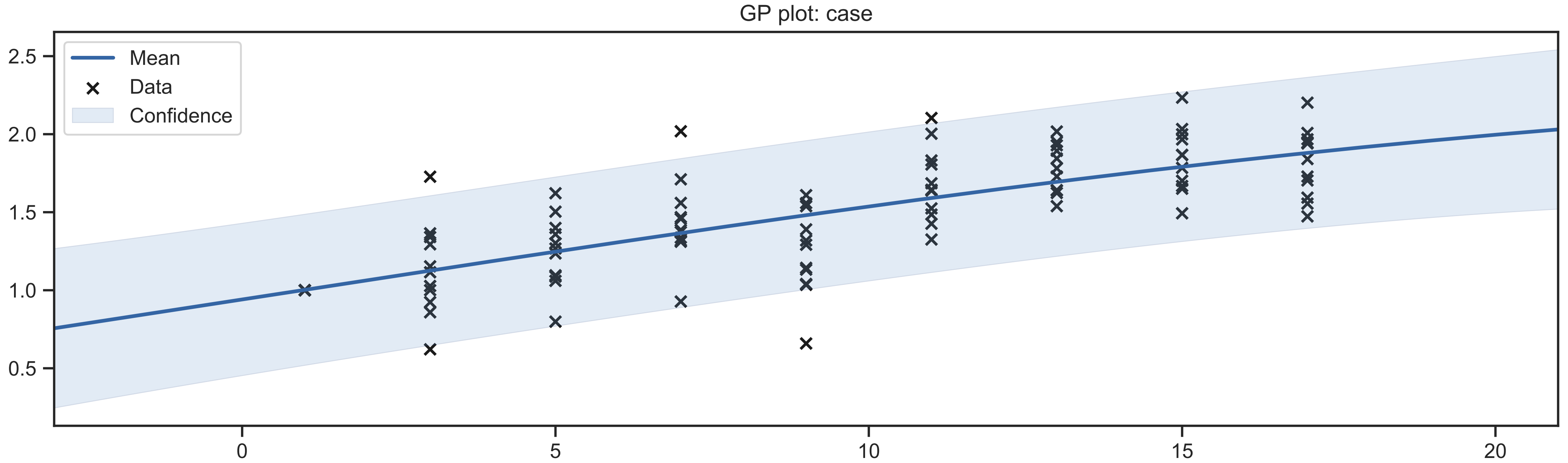
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N



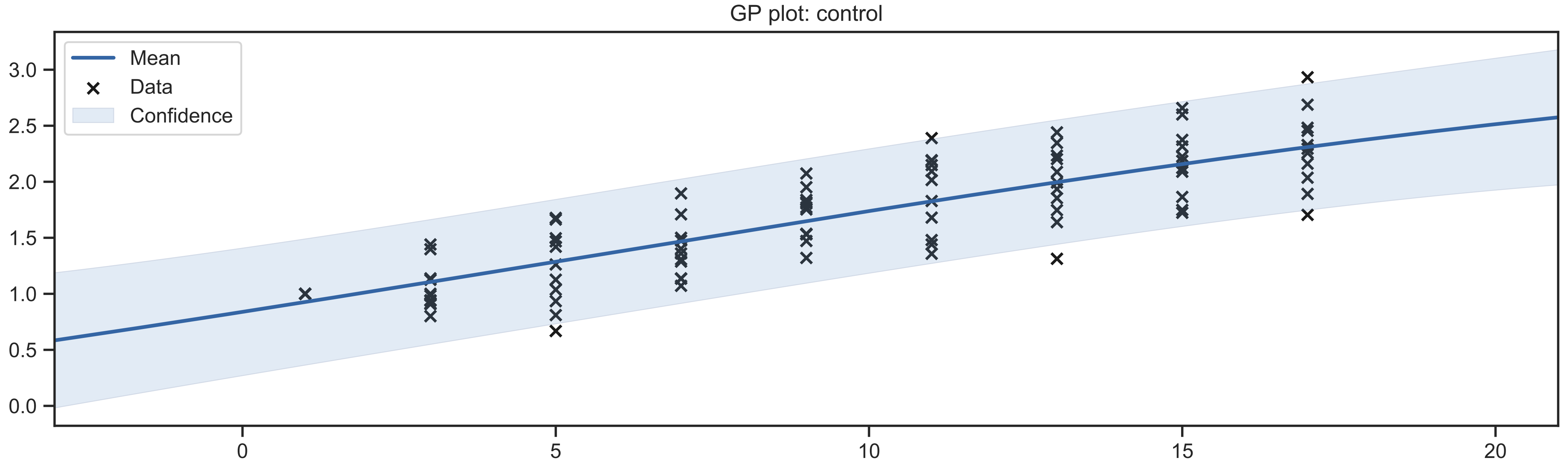
Means



Pointwise KL divergence

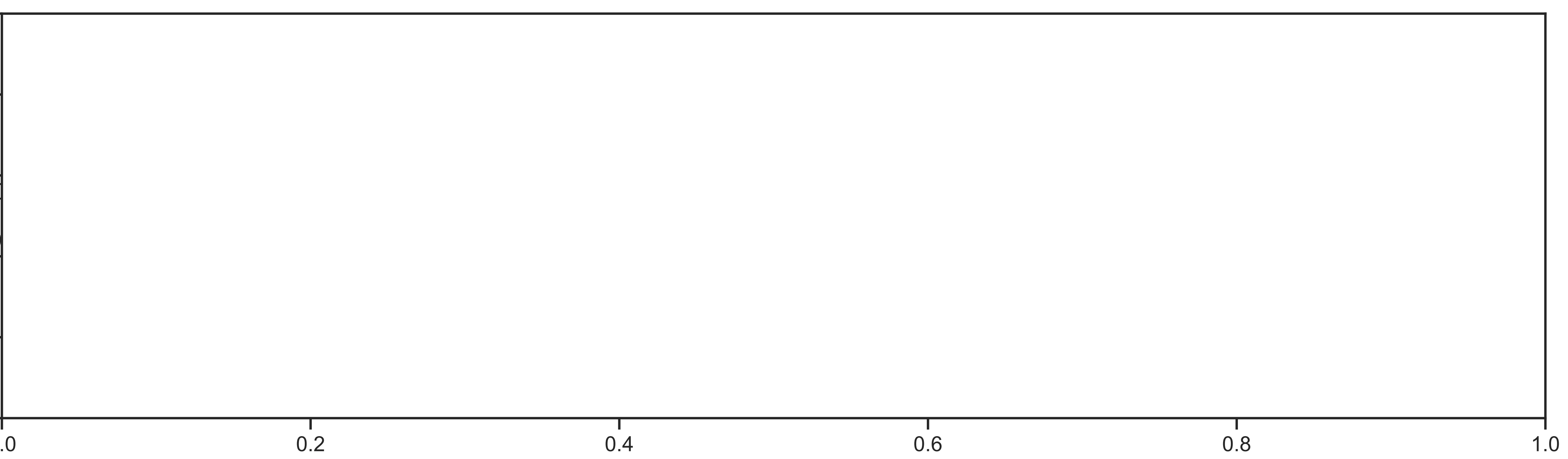


GP plot: case

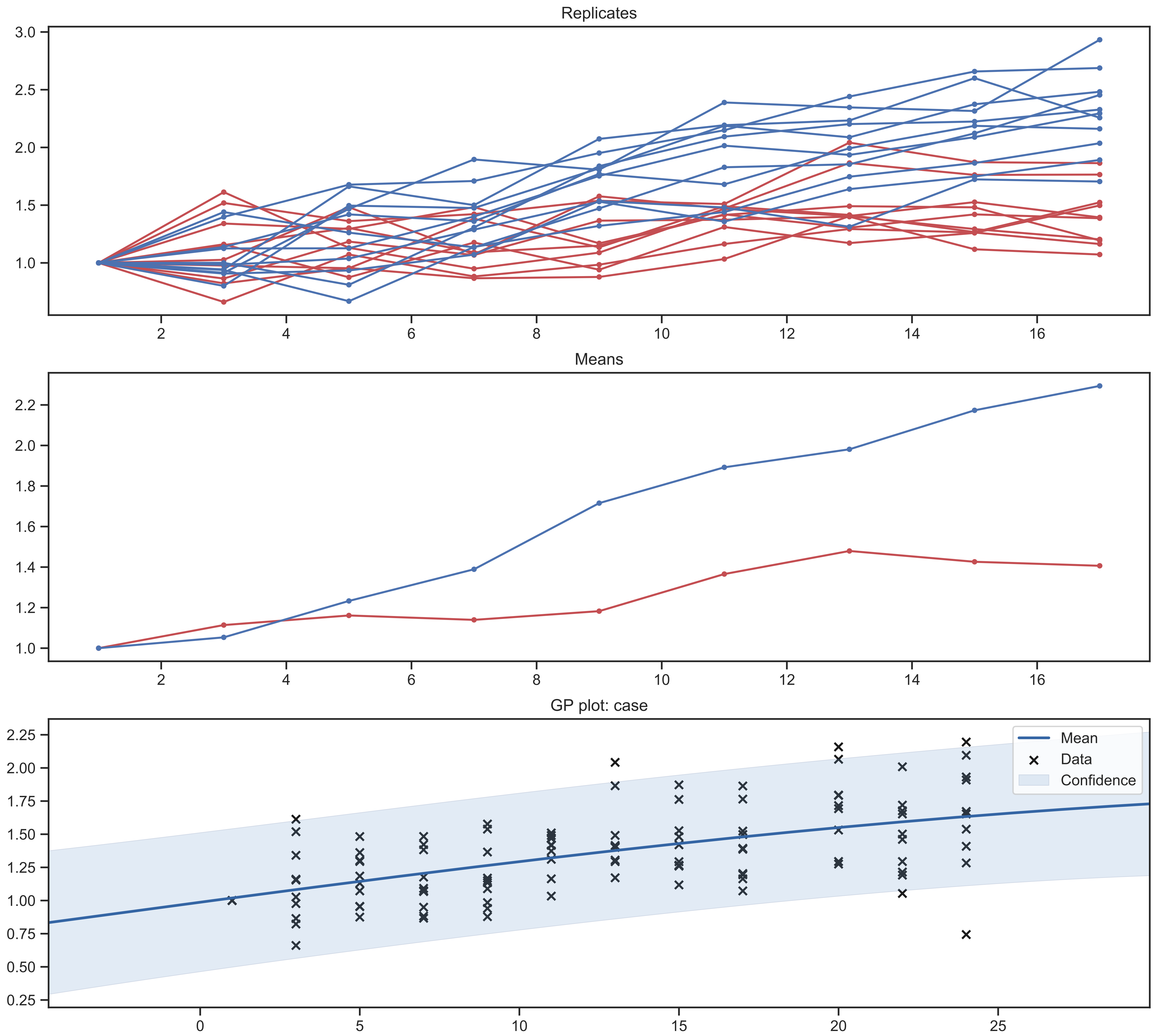


GP plot: control

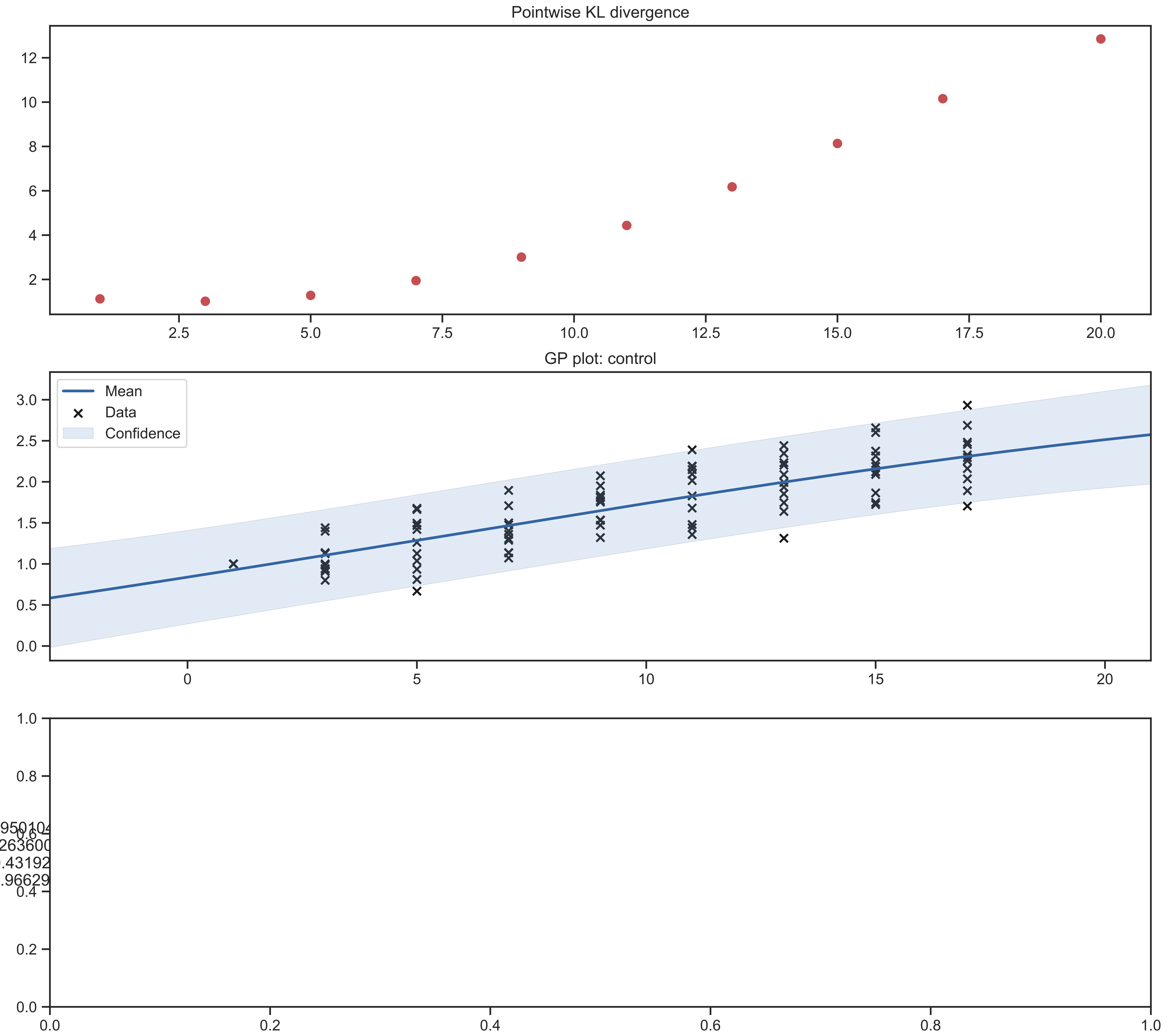
mRECIST: (0,0,6,5
kl: 1.1695056418640262
response_angle_rel: 0:0.023492359603090464_1:0.009811205891582402_2:0.018397268715772 86_3:0.021432173832981877_4:0.00939495326840662_5:0.005149171383
response_angle_rel_control: 0:0.085874480594756 61_1:0.18998808848285564_2:0.2325895596953442_3:0.05648450606 3612196_4:0.1101178025482452_5:0.1370263600
auc_norm: 0:0.296624456115992_1:0.470197959278183_2:0.27759687901834673_3:0.2365866086042001_4:0.3517129397334021_5:0.4724178706266873_6:0.600833411
auc_control_norm: 0:[0.51815612]_1:[0.62851148]_2:[0.84392035]_3:[0.35233501]_4:[0.44579828]_5:[0.58058073]_6:[0.6639283]_7:[0.72719207]_8:[0.74104166]_9:[0.96629
tgi: 0.3490336053781312
red = treatment,   blue=control



P61*C3

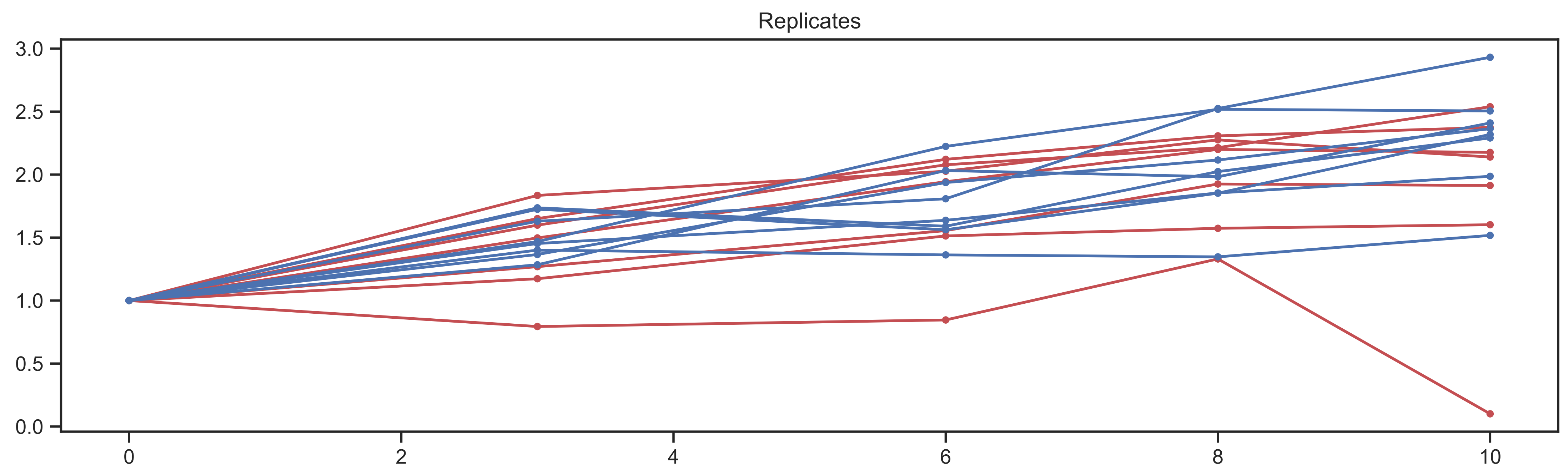


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N

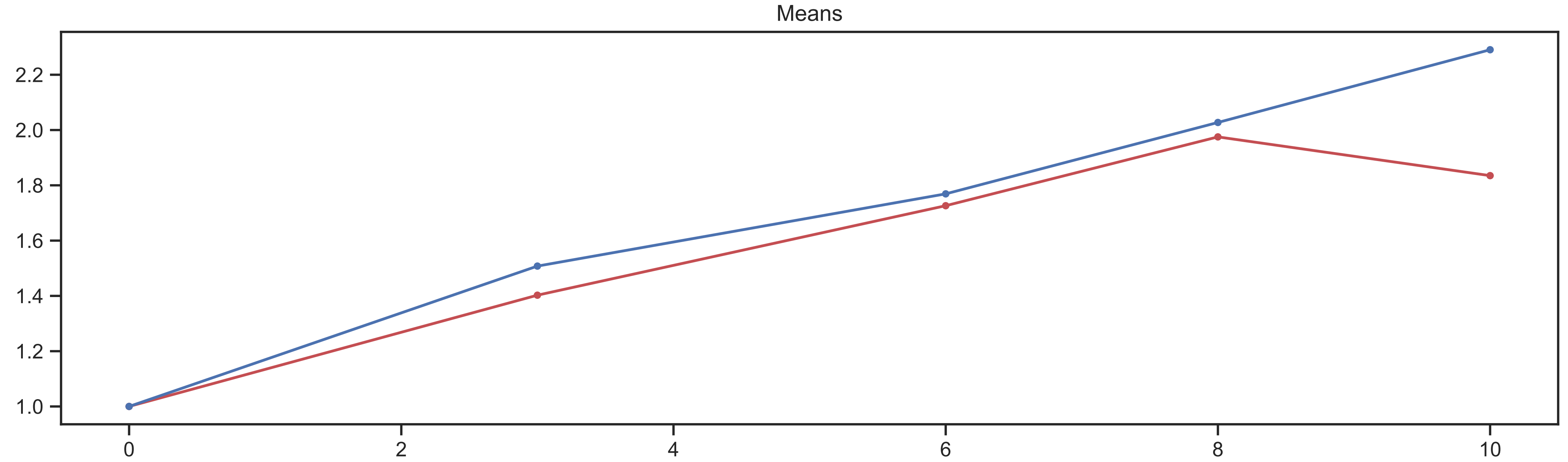


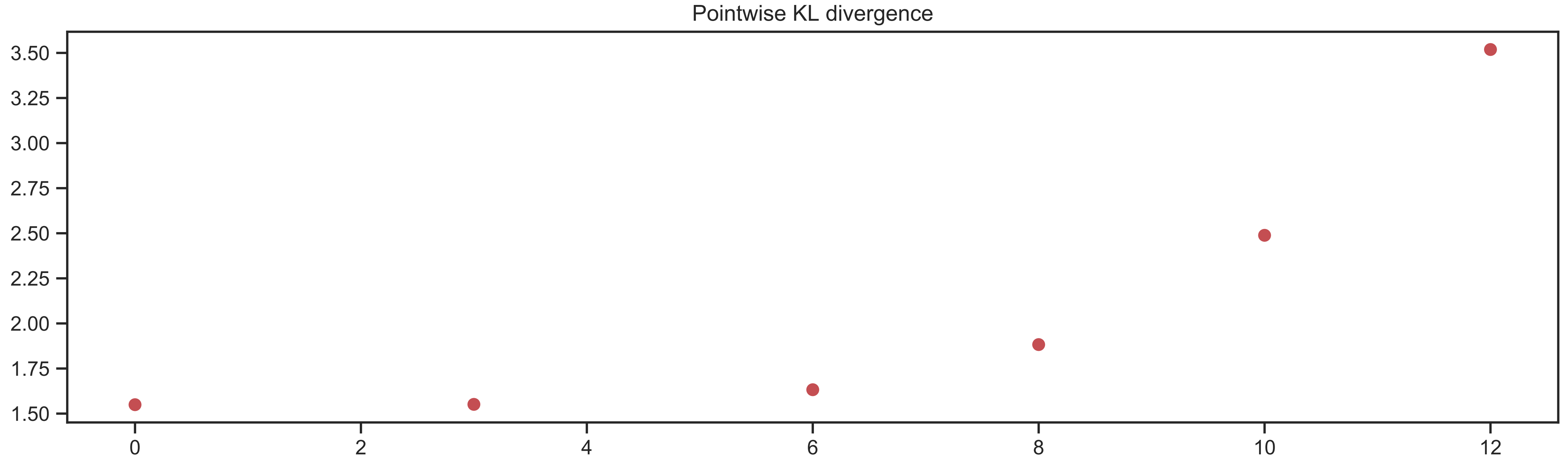
mRECIST: (0,0,7,3
kl: 4.136114437113862
response_angle_rel: 0:-0.007125742666418847_1:0.02323525310906525_2:0.009922260967653258_3:0.00918211598047946_4:0.011824572349827015_5:0.044258950104
response_angle_rel_control: 0:0.08587448059475661_1:0.18998808848285564_2:0.2325895596953442_3:0.05648450606361219б_4:0.1101178025482452_5:0.1370263600
auc_norm: 0:0.19325555394049532_1:0.08178792984732652_2:0.19687720920269525_3:0.2618803633460559_4:0.3823836496127594_5:0.1017777157145221_6:0.43192
auc_control_norm: 0:[0.51815612]_1:[0.62851148]_2:[0.84392035]_3:[0.35233501]_4:[0.44579828]_5:[0.58058073]_6:[0.6639283]_7:[0.72719207]_8:[0.74104166]_9:[0.96629
tgi: 0.5254458004439153
red = treatment,   blue=control

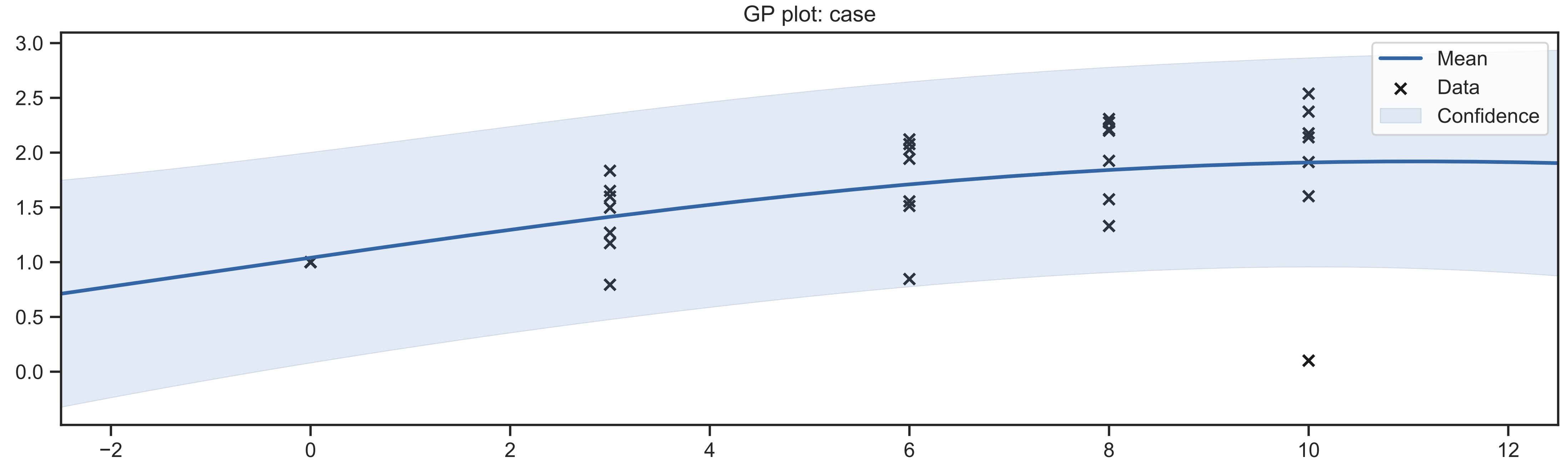
P62*C1

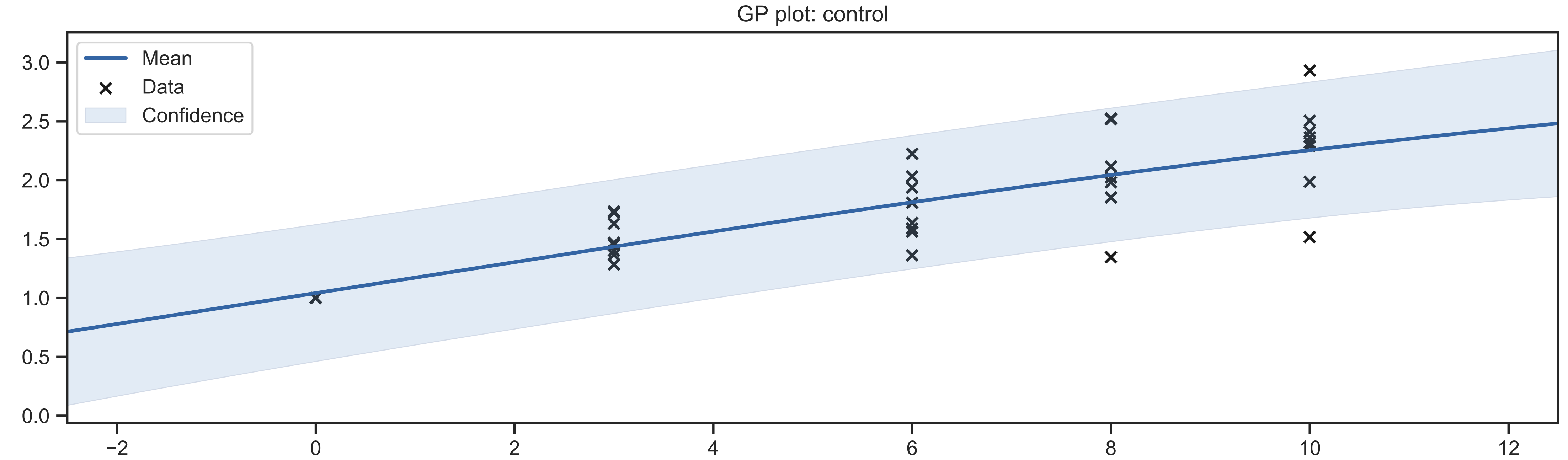


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: N
TGI: N



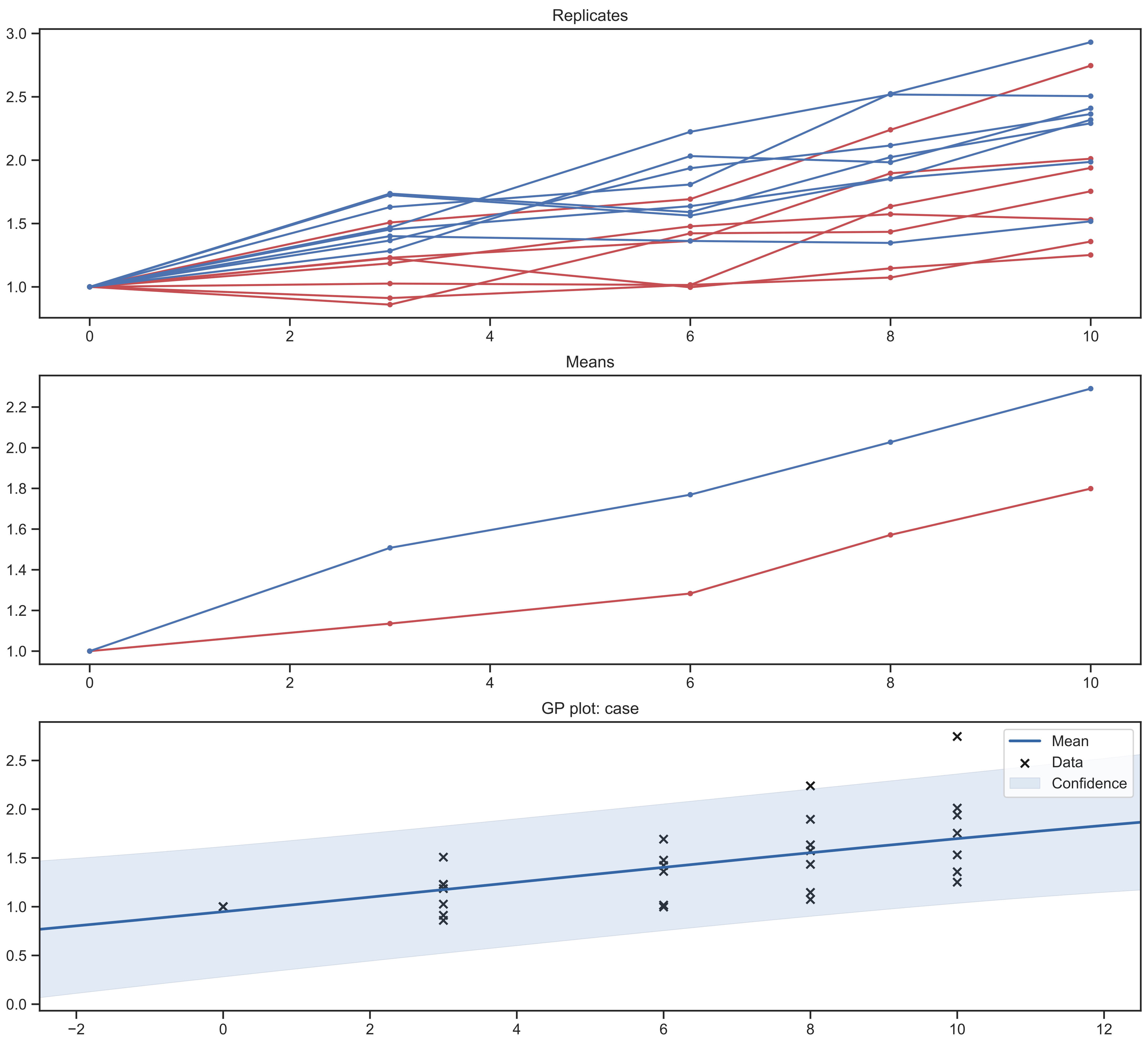




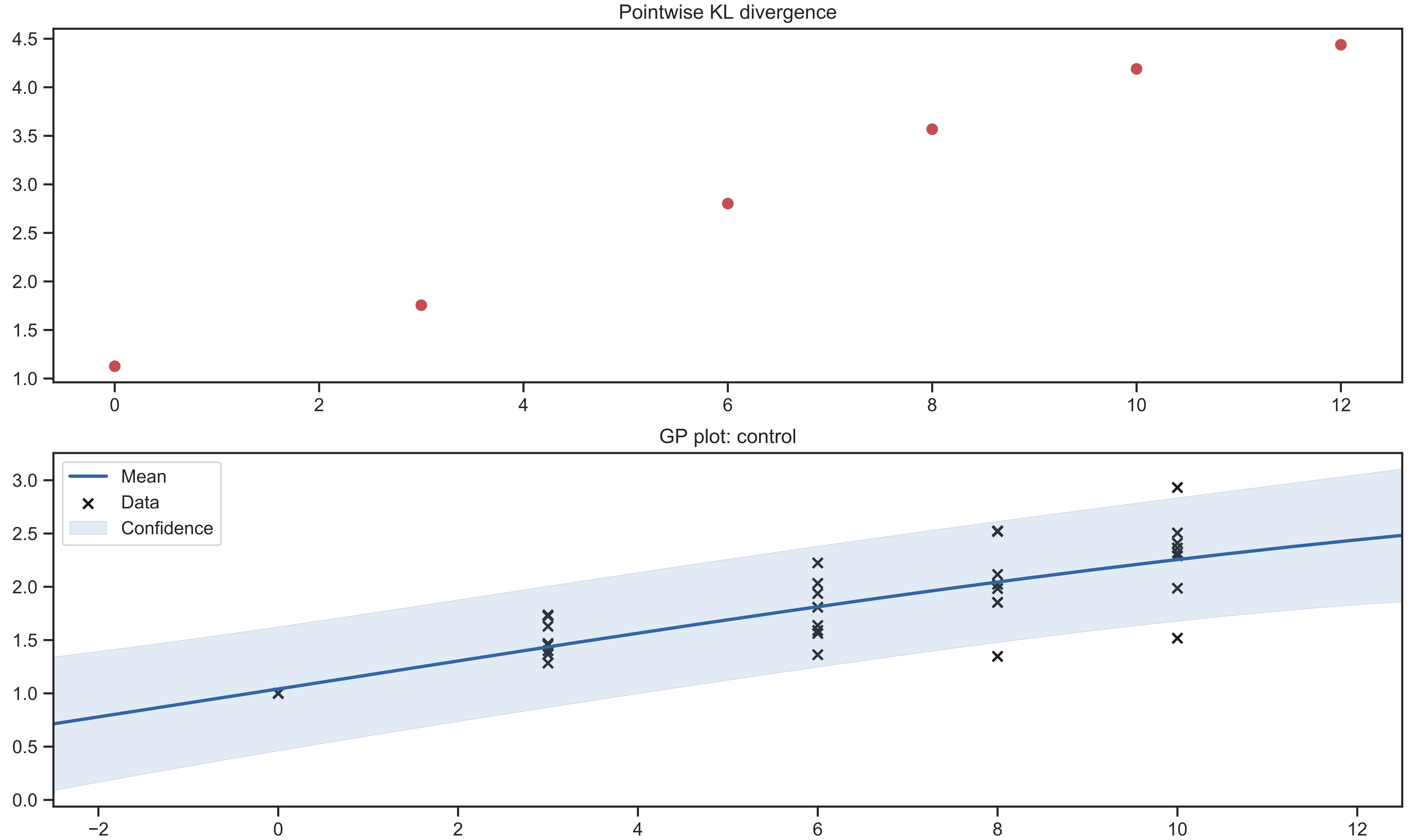


mRECIST: (0,1,1,5
kl: 0.9586695275388283
response_angle_rel: 0:0.016070509458636497_1:0.03865711402425747_2:0.08192134087206006_3:0.25852212521832746_4:0.08339118066759102_5:3.71568837110304
response_angle_rel_control: 0:0.25885299879058654_1:0.48352516066674467_2:0.044086723413821395_3:0.4094536830879154_4:0.2805422529456503_5:0.206267765
auc_norm: 0:0.36425798988752145_1:0.3985449118527289_2:0.21546142280063635_3:0.5001616752386796_4:-0.42387701742511985_5:0.5896830430361286_6:0.4308
auc_control_norm: 0:[0.5258641]_1:[0.83096258]_2:[0.19826953]_3:[0.54862173]_4:[0.53284745]_5:[0.38697748]_6:[0.5470628]_7:[0.56557135]
tgi: 0.2259762803753963
red = treatment, blue=control

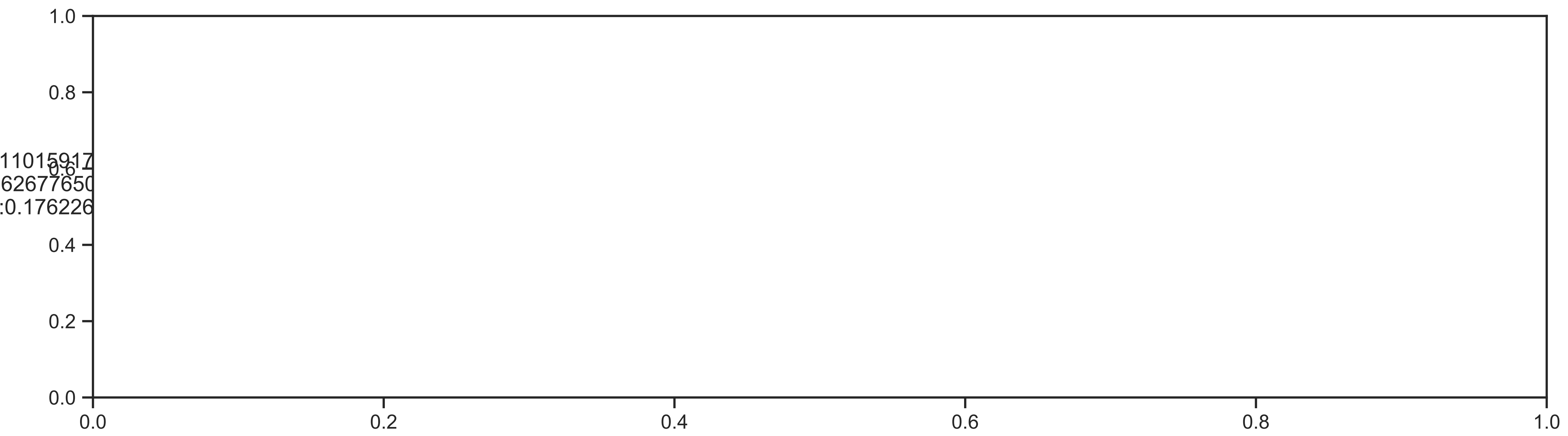
P62*C2



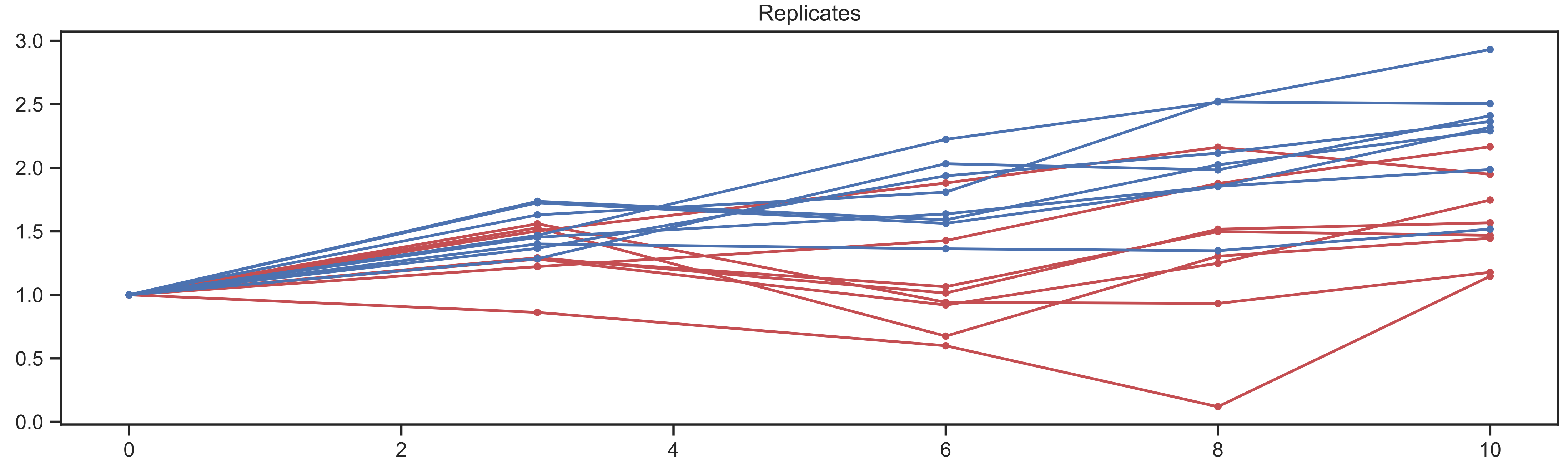
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N



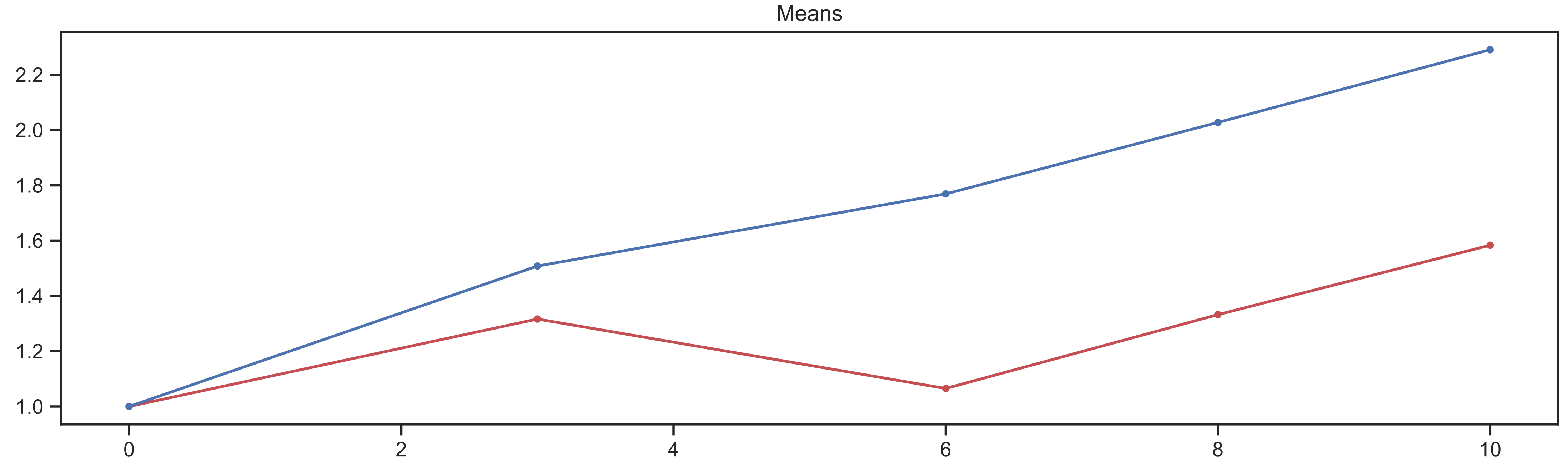
mRECIST: (0,0,3,4
kl: 1.9675032108884647
response_angle_rel: 0:-0.0002695303145812376_1:0.019617320130999146_2:-0.003571094356166752_3:0.10171246136114982_4:0.07285889026995998_5:0.0811015917
response_angle_rel_control: 0:0.25885299879058654_1:0.48352516066674467_2:0.044086723413821395_3:0.4094536830879154_4:0.2805422529456503_5:0.2062677650
auc_norm: 0:0.7576179151741278_1:0.18614906502814754_2:0.30675127808030345_3:0.4453375927004216_4:0.4670356224111835_5:0.1263551932272779_6:0.176226
auc_control_norm: 0:[0.5258641]_1:[0.83096258]_2:[0.19826953]_3:[0.54862173]_4:[0.53284745]_5:[0.38697748]_6:[0.5470628]_7:[0.56557135]
tgi: 0.3126379932719696
red = treatment,   blue=control

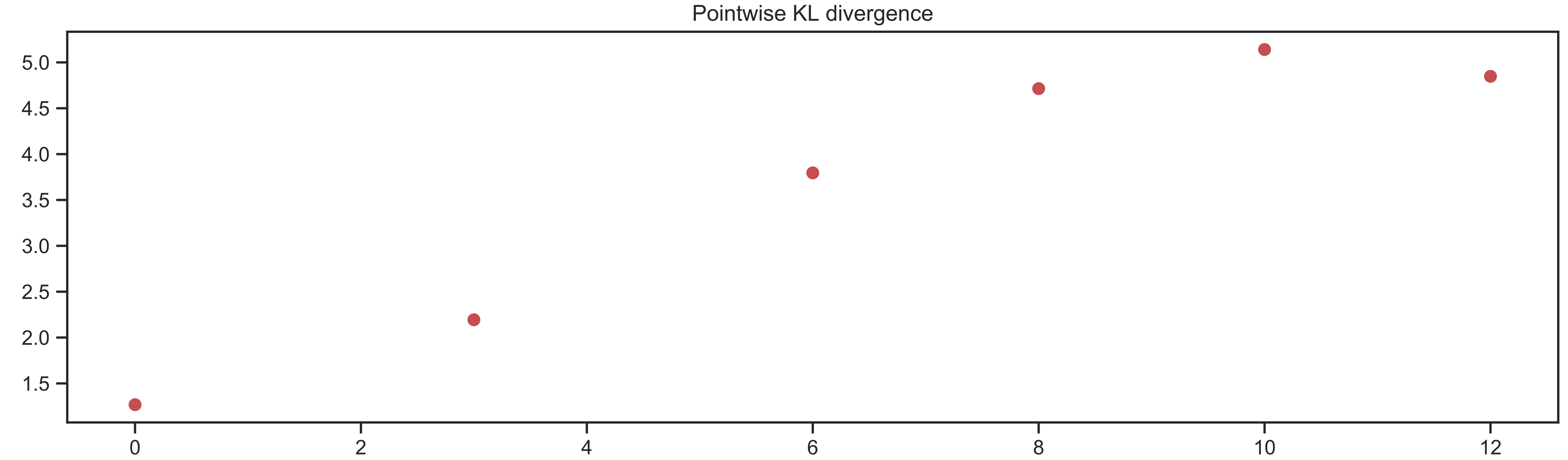


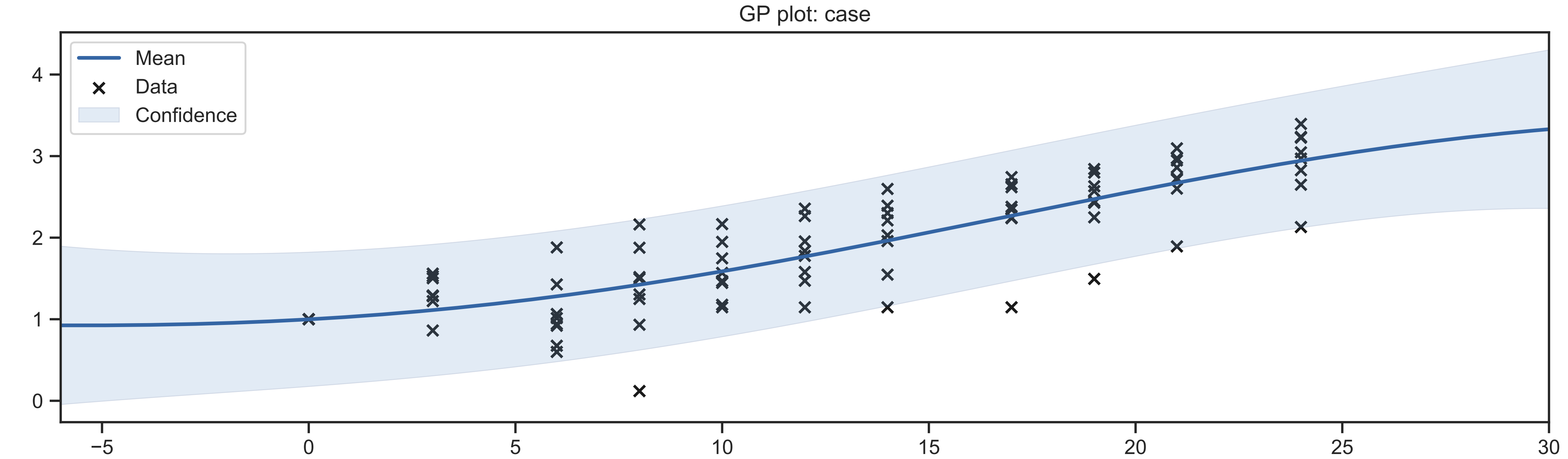
P62*C3

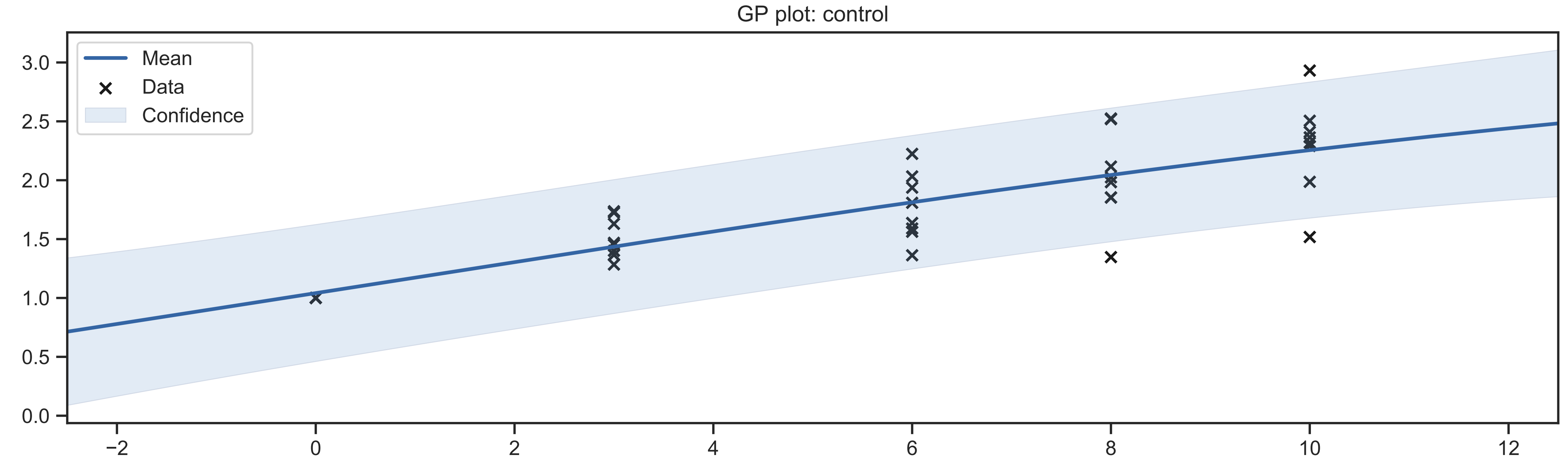


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: N
AUC: Y
TGI: N

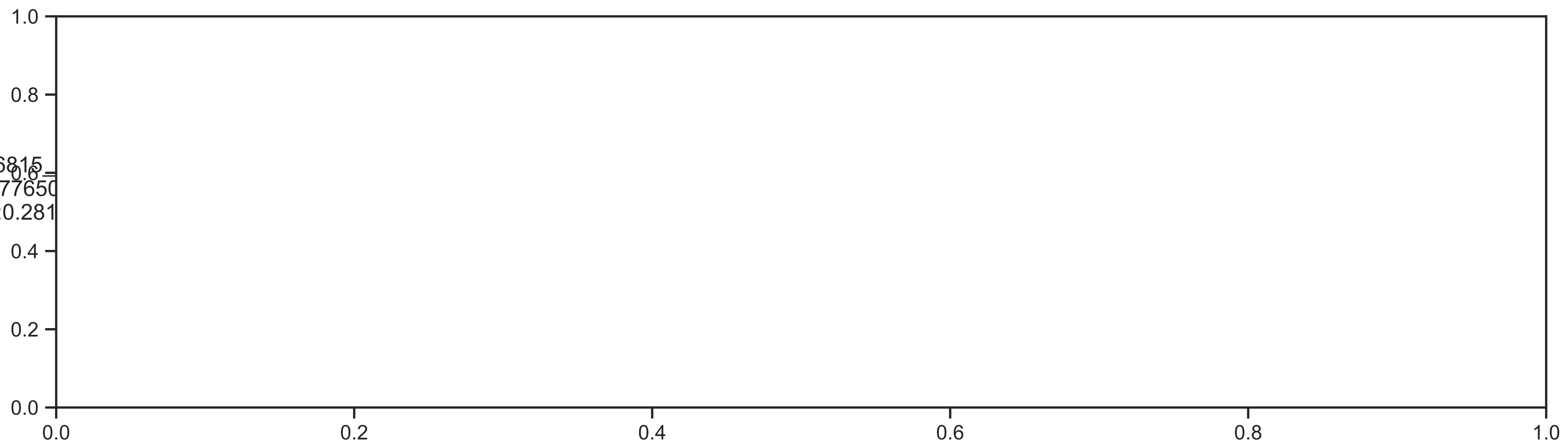




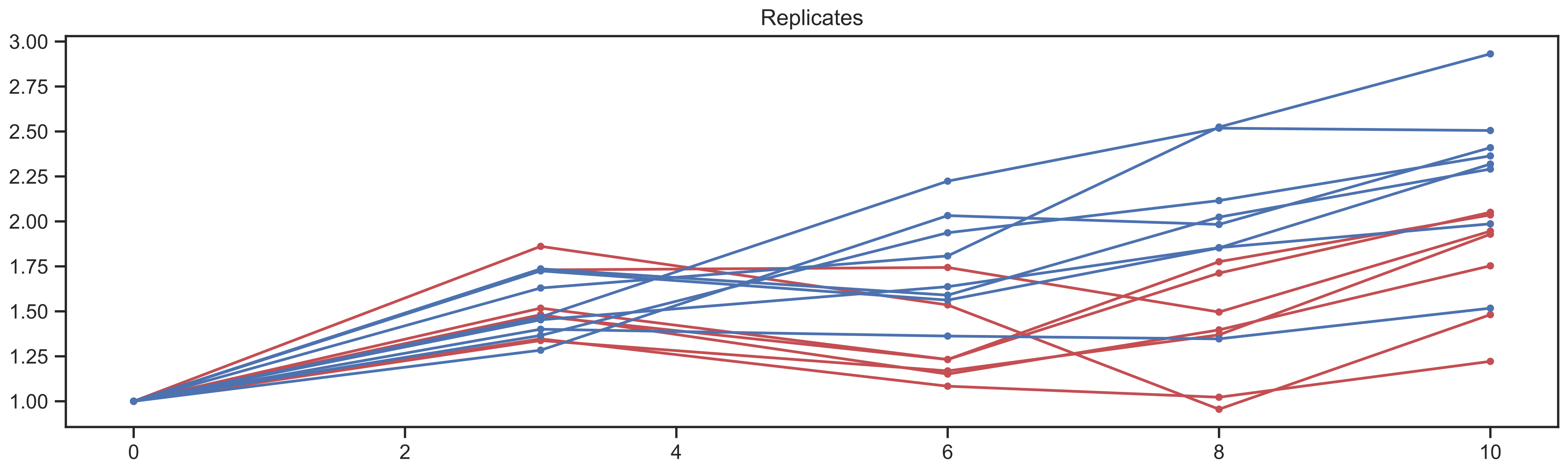




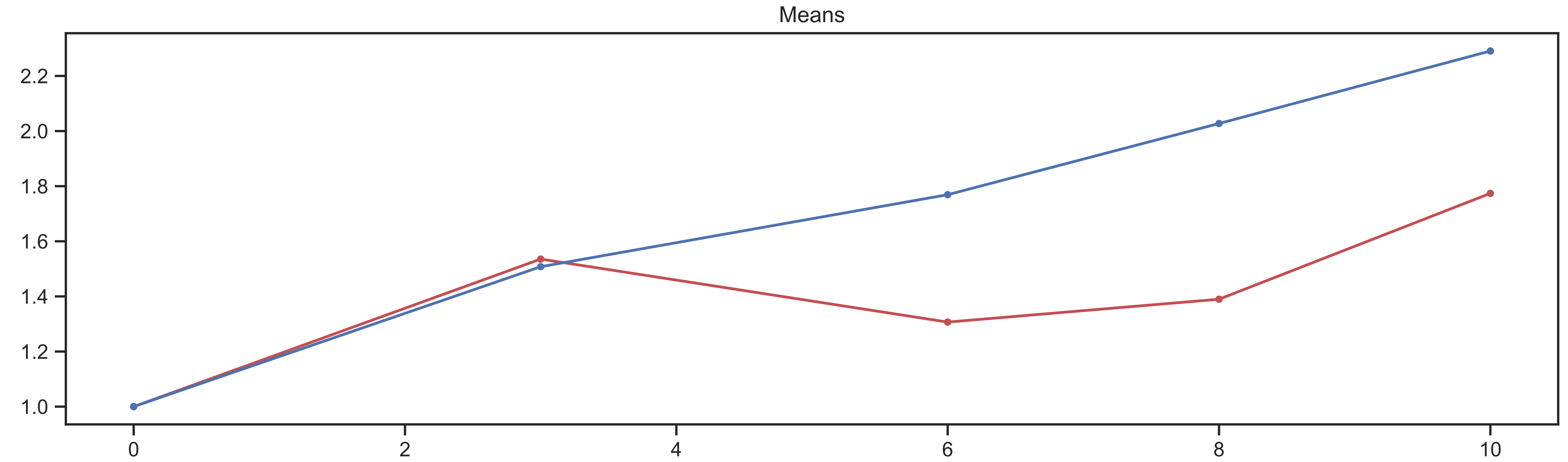
mRECIST: (0,1,5,2
kl: 2.740158625785753
response_angle_rel: 0:0.19203437764809347_1:0.04590547963412002_2:0.17200836134286304_3:0.23976124925837297_4:0.2510668522807439_5:0.254334645836815_
response_angle_rel_control: 0:0.25885299879058654_1:0.48352516066674467_2:0.044086723413821395_3:0.4094536830879154_4:0.2805422529456503_5:0.206267765
auc_norm: 0:0.2233974850884135_1:0.13987219087234937_2:0.27674847275122905_3:0.09845676203025047_4:0.32758904521748533_5:0.38646491129924077_6:0.281
auc_control_norm: 0:[0.5258641]_1:[0.83096258]_2:[0.19826953]_3:[0.54862173]_4:[0.53284745]_5:[0.38697748]_6:[0.5470628]_7:[0.56557135]
tgi: 0.46734179370491025
red = treatment,   blue=control

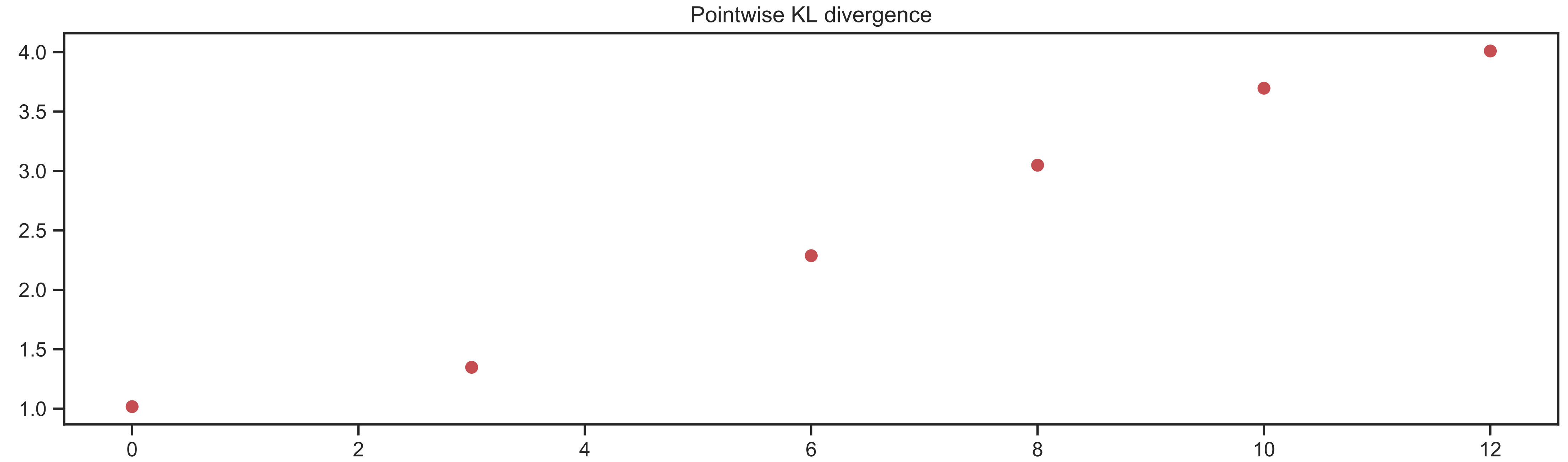


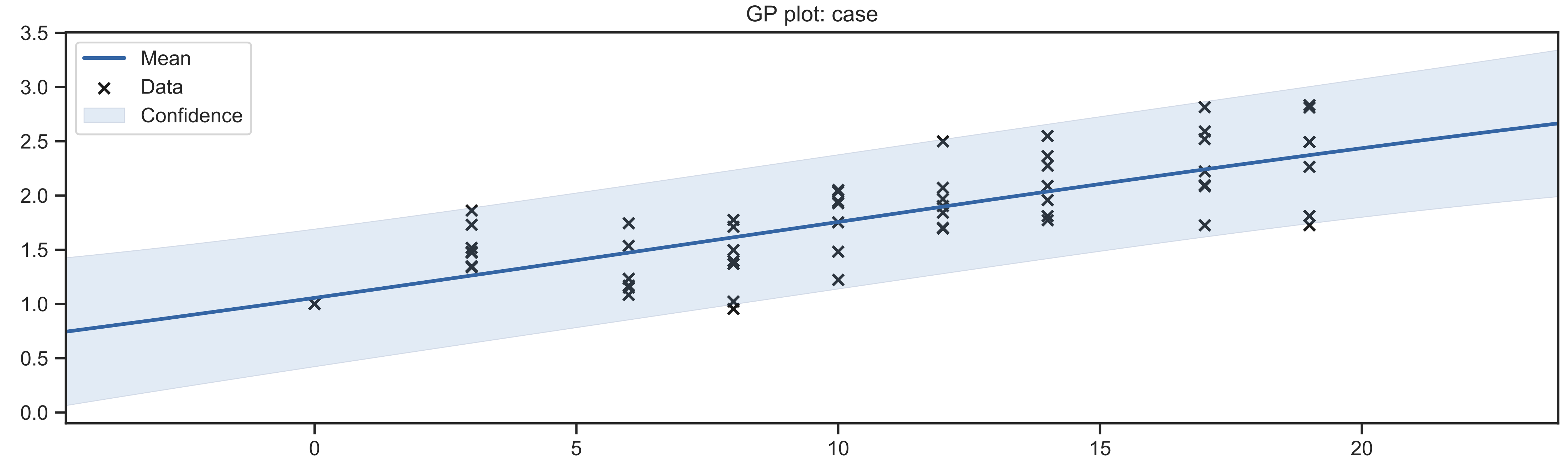
P62*C4

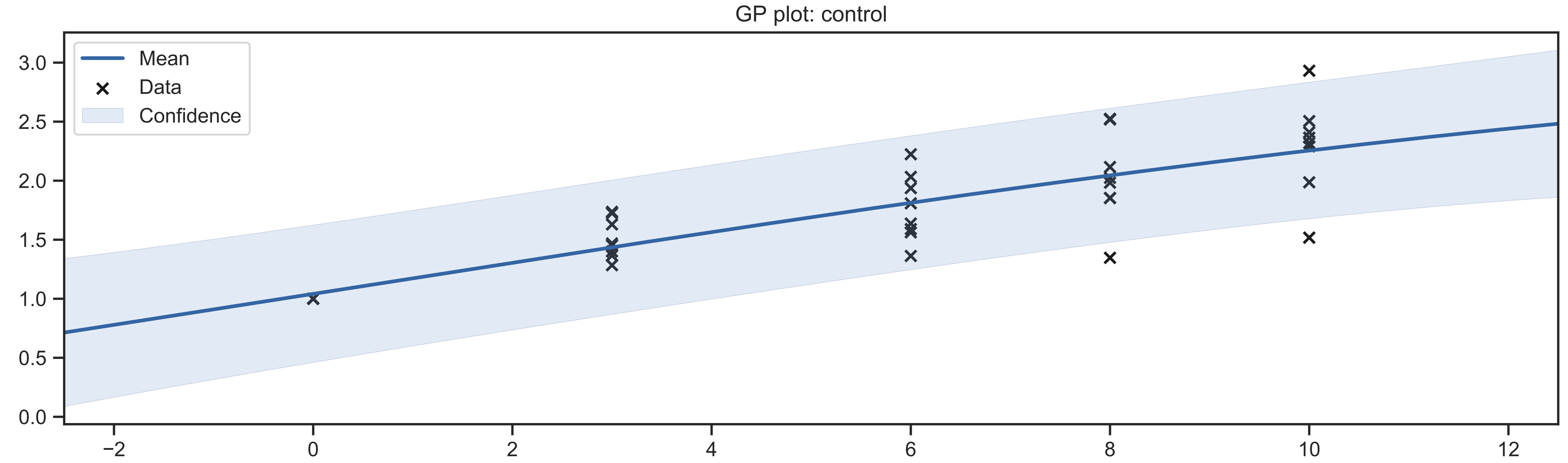


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N



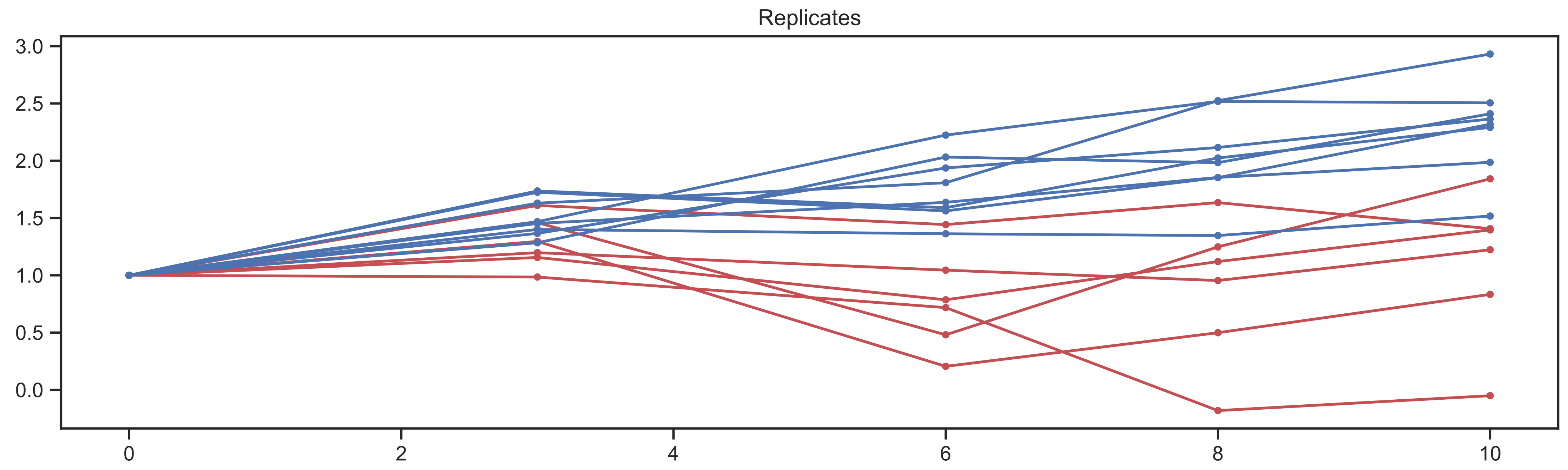




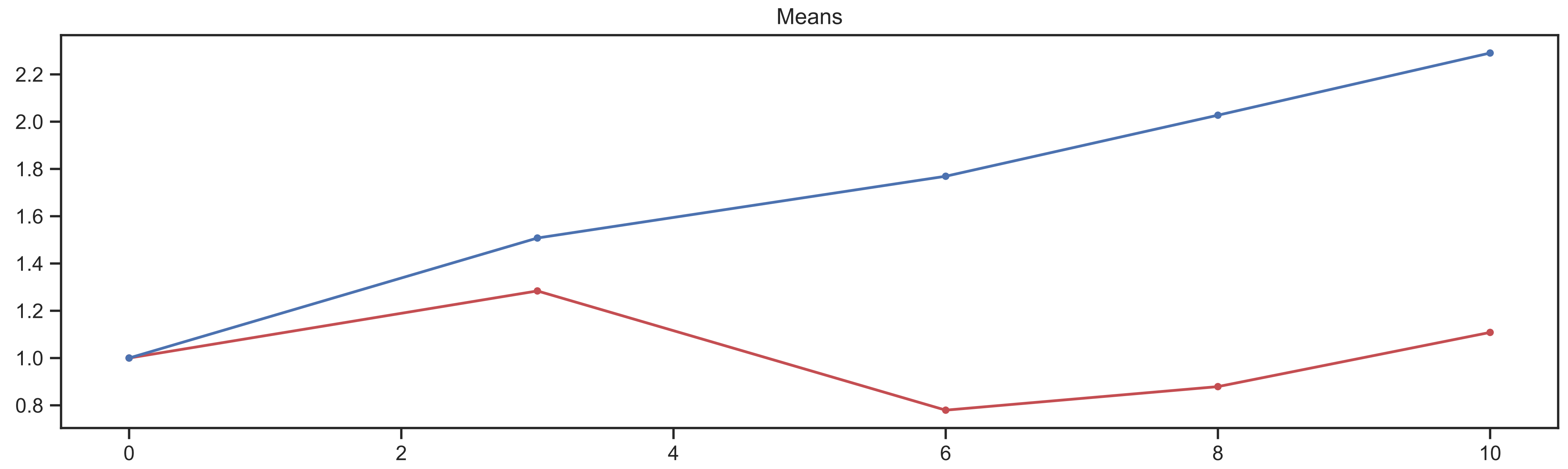


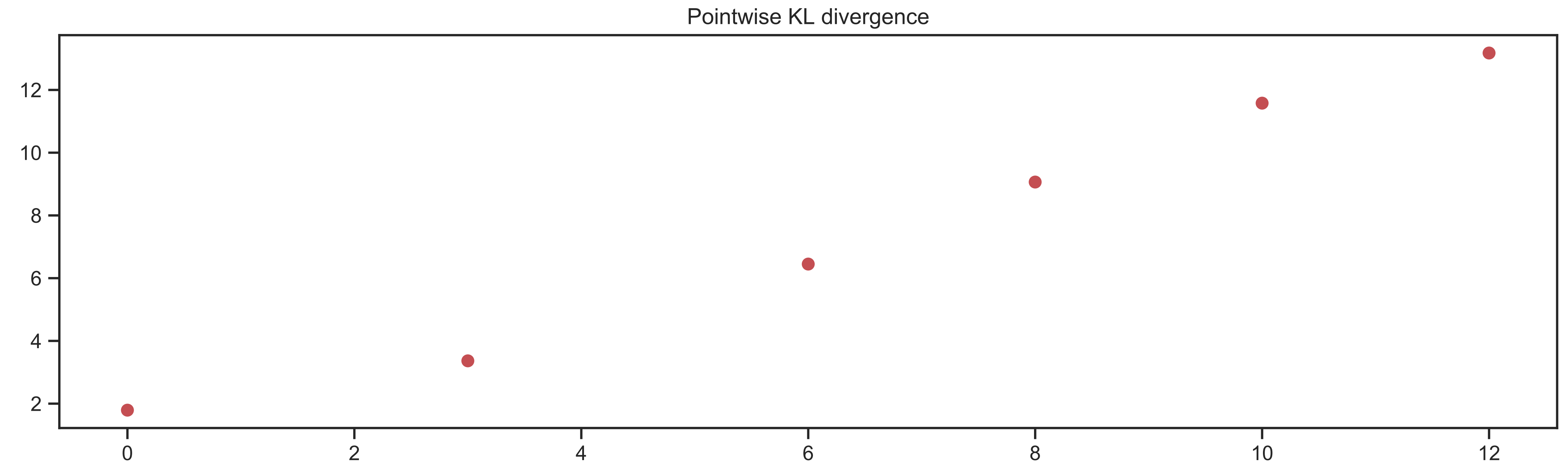
mRECIST: (0,0,5,2
kl: 1.507207155302857
response_angle_rel: 0:0.018538192694818607_1:0.057409232599137404_2:0.03205326592246555_3:0.0711581483600113_4:0.11549624640141655_5:0.01293869376144
response_angle_rel_control: 0:0.25885299879058654_1:0.48352516066674467_2:0.044086723413821395_3:0.4094536830879154_4:0.2805422529456503_5:0.2062677650
auc_norm: 0:0.15145629674036454_1:0.4791720729344622_2:0.34886524662007107_3:0.4361514063364986_4:0.09687540460226973_5:0.35128778659082277_6:0.4866
auc_control_norm: 0:[0.5258641]_1:[0.83096258]_2:[0.19826953]_3:[0.54862173]_4:[0.53284745]_5:[0.38697748]_6:[0.5470628]_7:[0.56557135]
tgi: 0.36331920161426734
red = treatment, blue=control

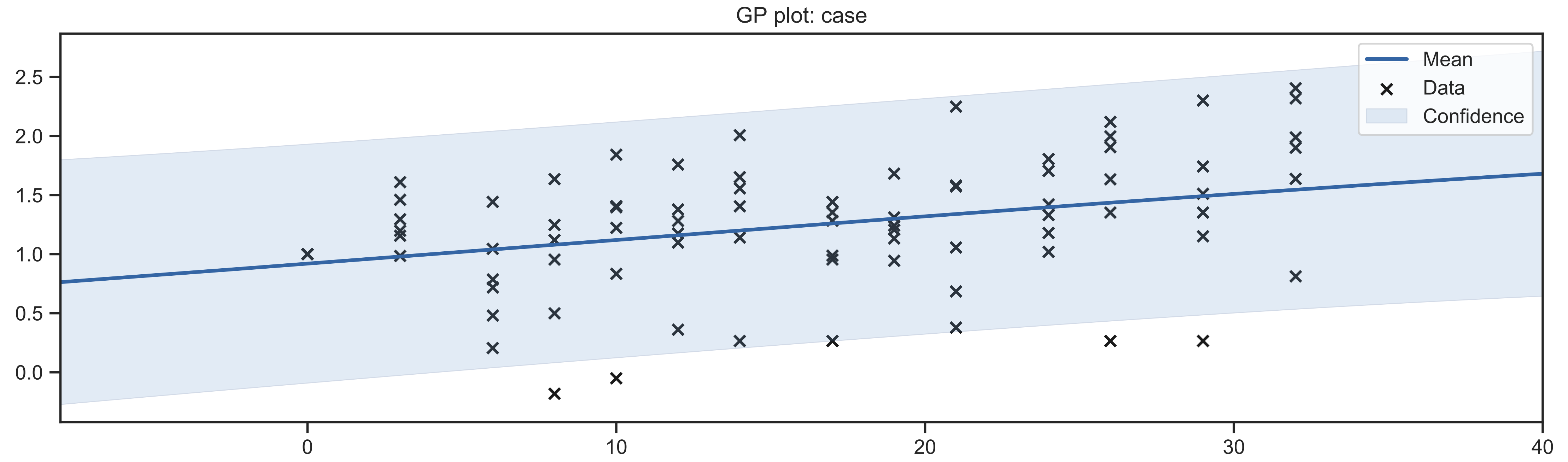
P62*C5

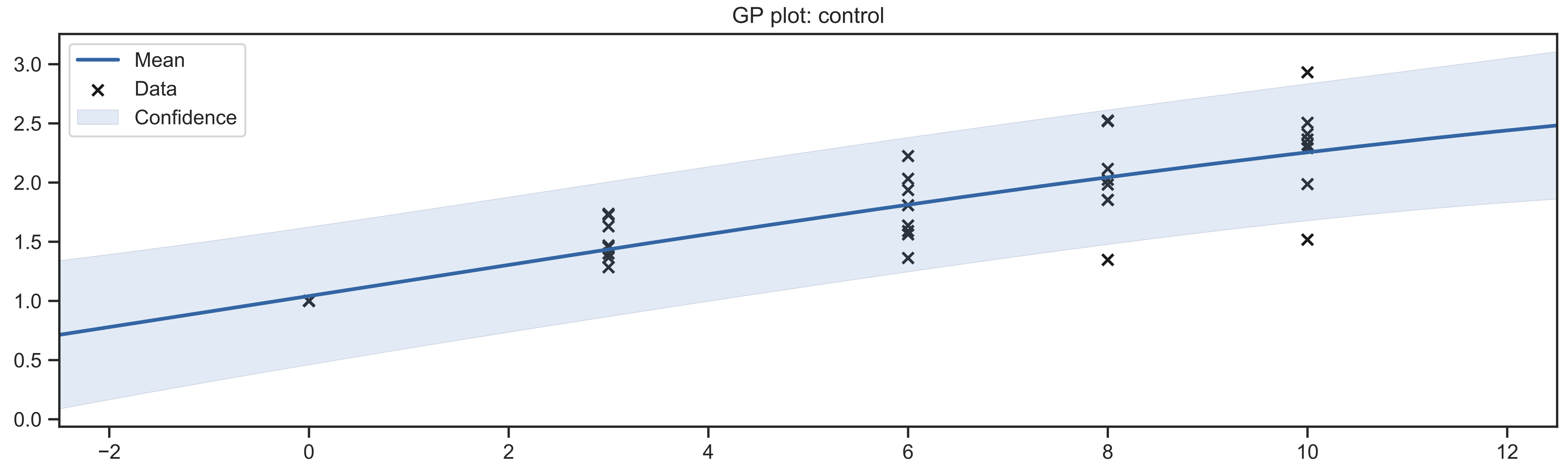


KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y

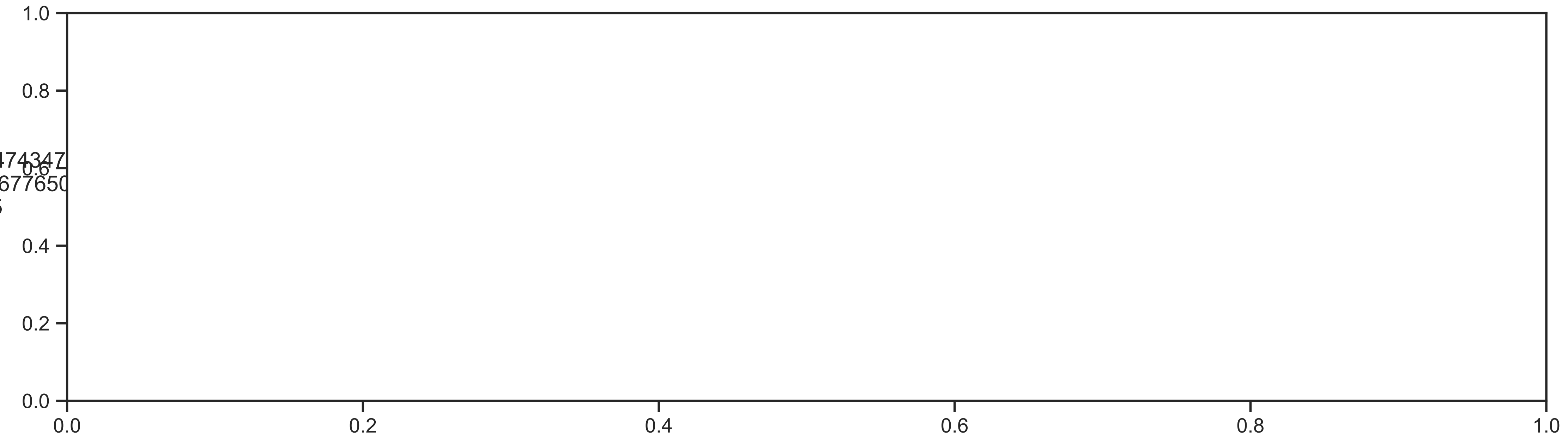




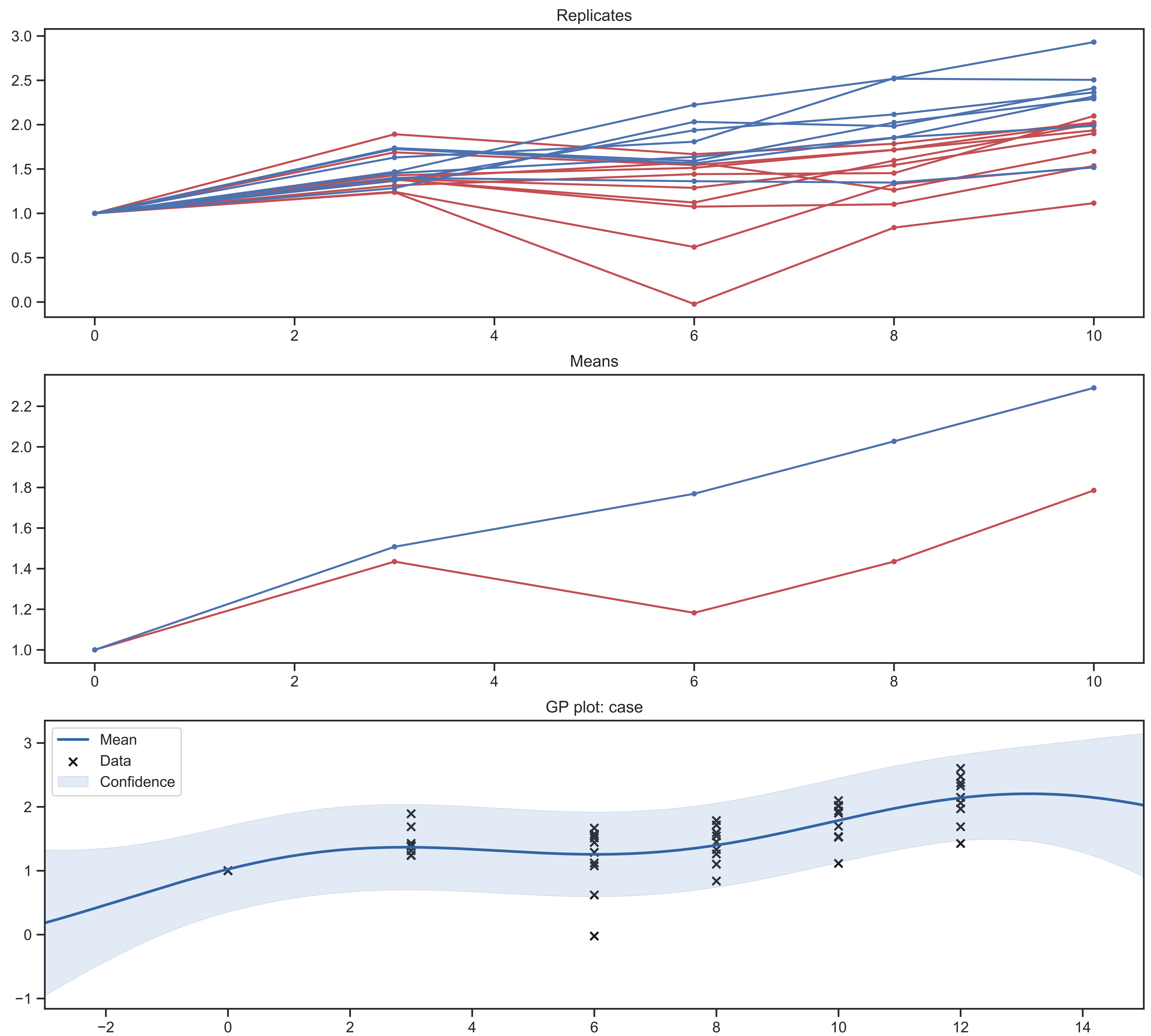




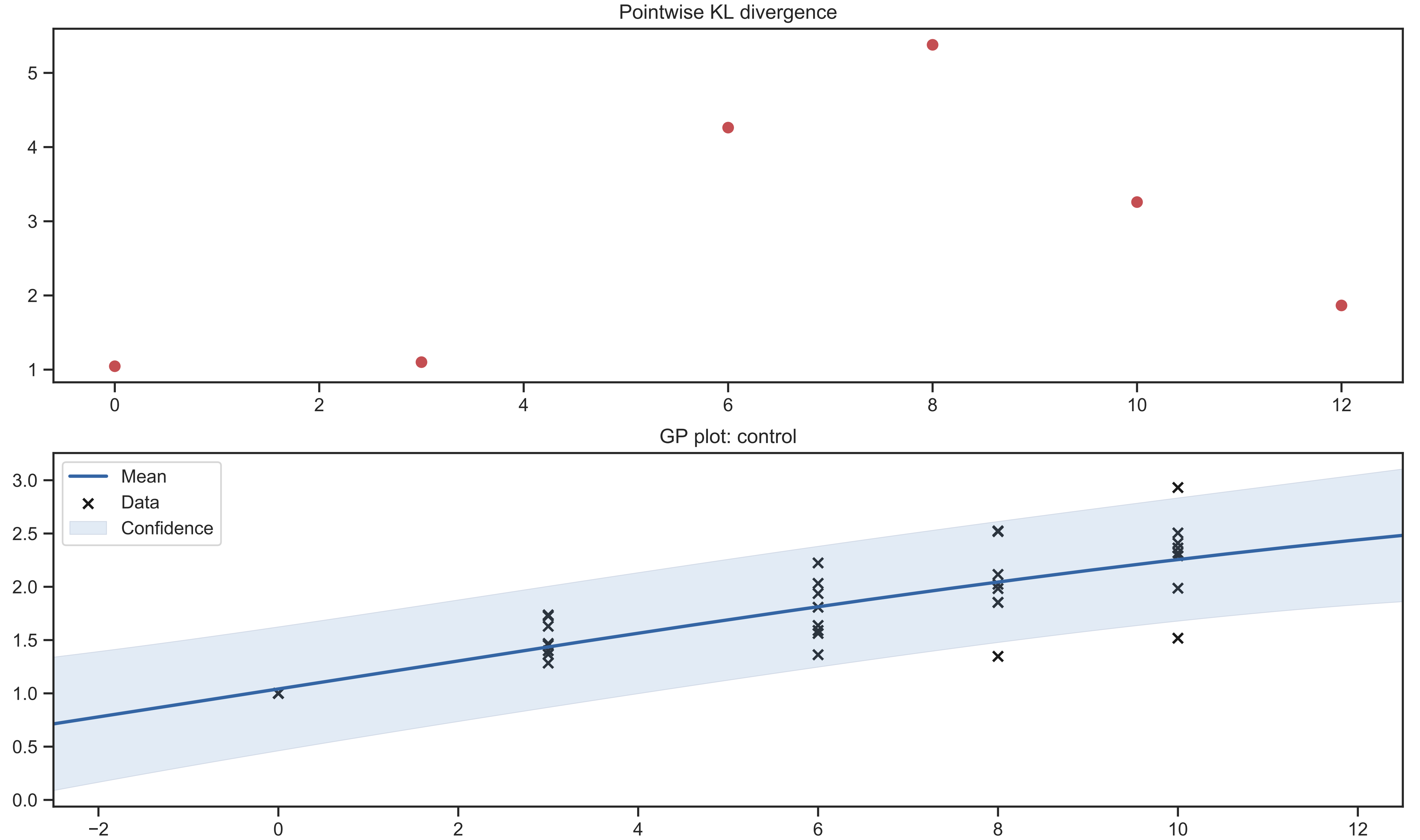
mRECIST: (0,2,3,1
kl: 6.358357570587549
response_angle_rel: 0:0.02796300323761247_1:0.036147578341425436_2:0.03222965878875276_3:0.05437322515974713_4:0.009325696760897723_5:0.1025355474347
response_angle_rel_control: 0:0.25885299879058654_1:0.48352516066674467_2:0.044086723413821395_3:0.4094536830879154_4:0.2805422529456503_5:0.206267765
auc_norm: 0:0.10393982495407772_1:0.12964603883822987_2:0.23377149344735898_3:0.5076230688834489_4:-0.47850265265855463_5:0.049237671606017885
auc_control_norm: 0:[0.5258641]_1:[0.83096258]_2:[0.19826953]_3:[0.54862173]_4:[0.53284745]_5:[0.38697748]_6:[0.5470628]_7:[0.56557135]
tgi: 0.883164894662584
red = treatment,   blue=control



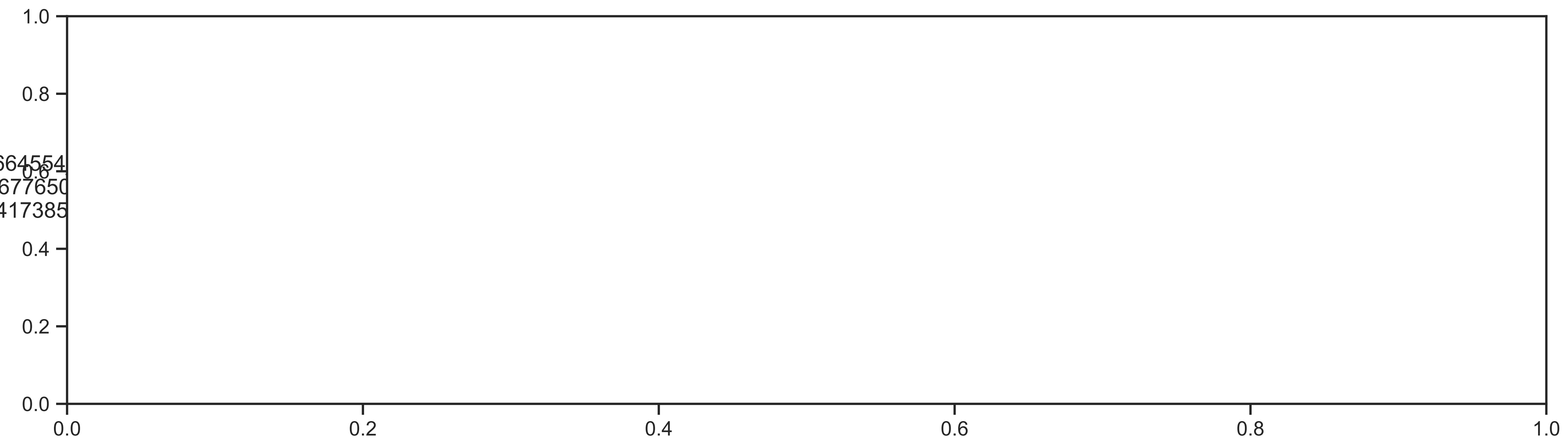
P62*C6



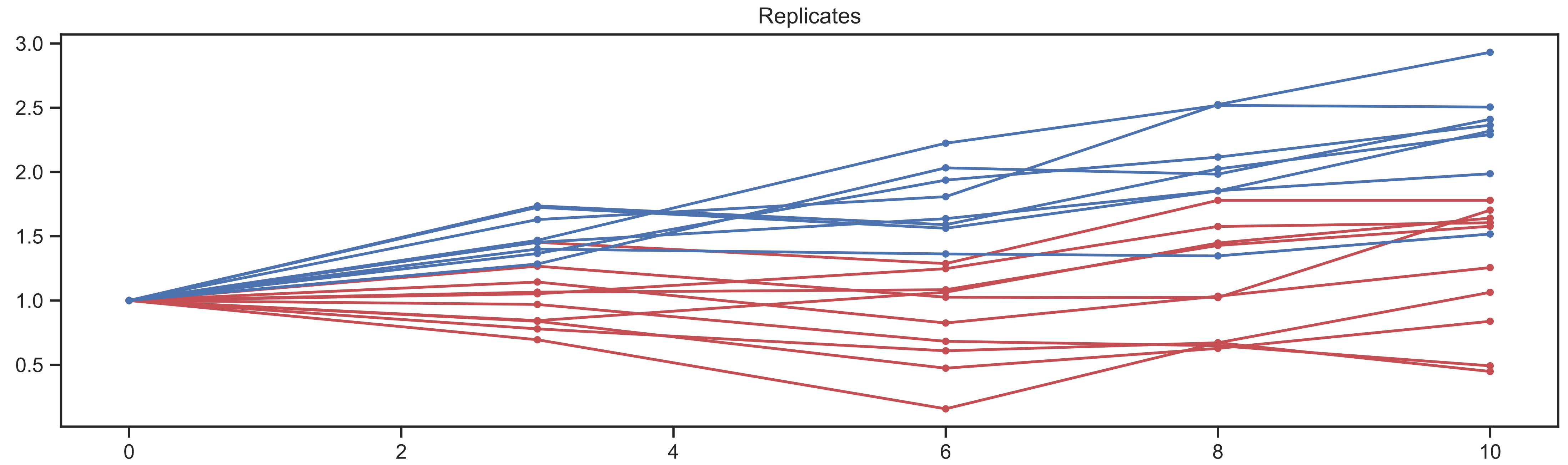
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): N
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: N



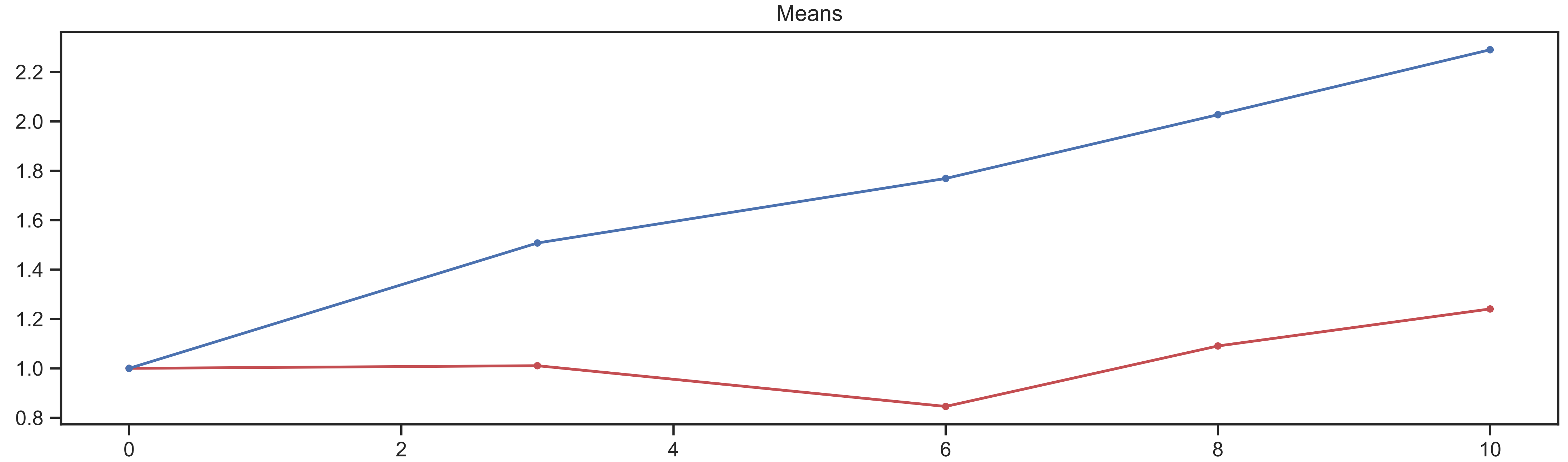
mRECIST: (1,0,3,6
kl: 2.0025865622564925
response_angle_rel: 0:0.08505099084543548_1:0.14292610084282528_2:0.14677330982278577_3:0.2532321109051978_4:0.03199505384860402_5:0.2078400928664554
response_angle_rel_control: 0:0.25885299879058654_1:0.48352516066674467_2:0.044086723413821395_3:0.4094536830879154_4:0.2805422529456503_5:0.2062677650
auc_norm: 0:0.2553473224839392_1:0.47522630938360616_2:0.38182483487131147_3:0.484976018687355_4:0.2280373093602273_5:0.40038495960621245_6:0.417385
auc_control_norm: 0:[0.5258641]_1:[0.83096258]_2:[0.19826953]_3:[0.54862173]_4:[0.53284745]_5:[0.38697748]_6:[0.5470628]_7:[0.56557135]
tgi: 0.22917245774034678
red = treatment, blue=control

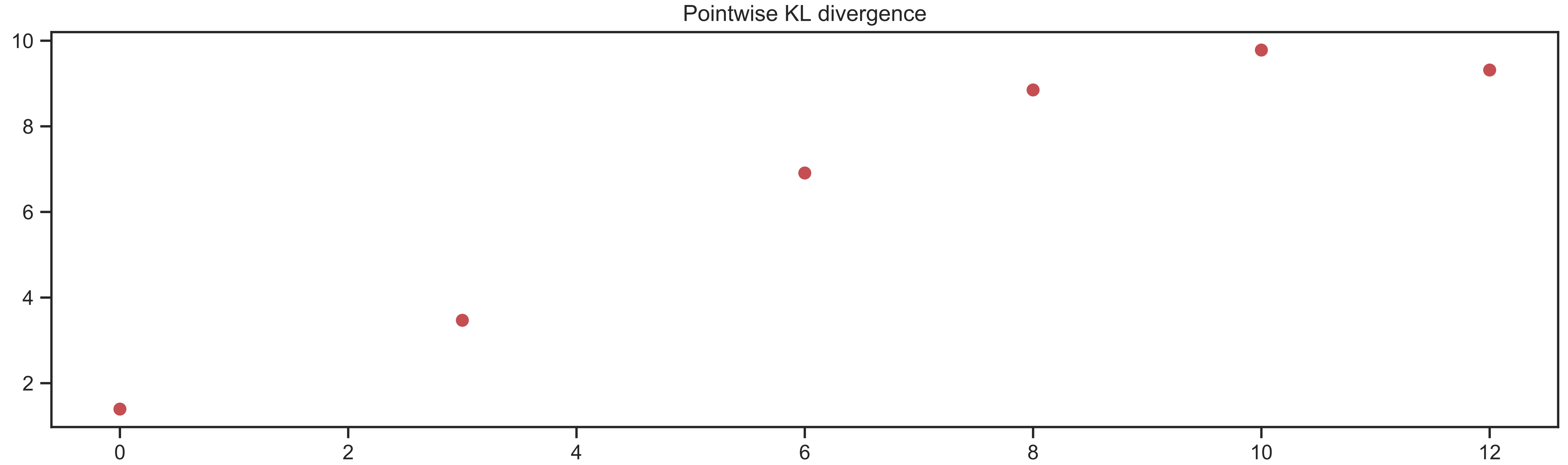


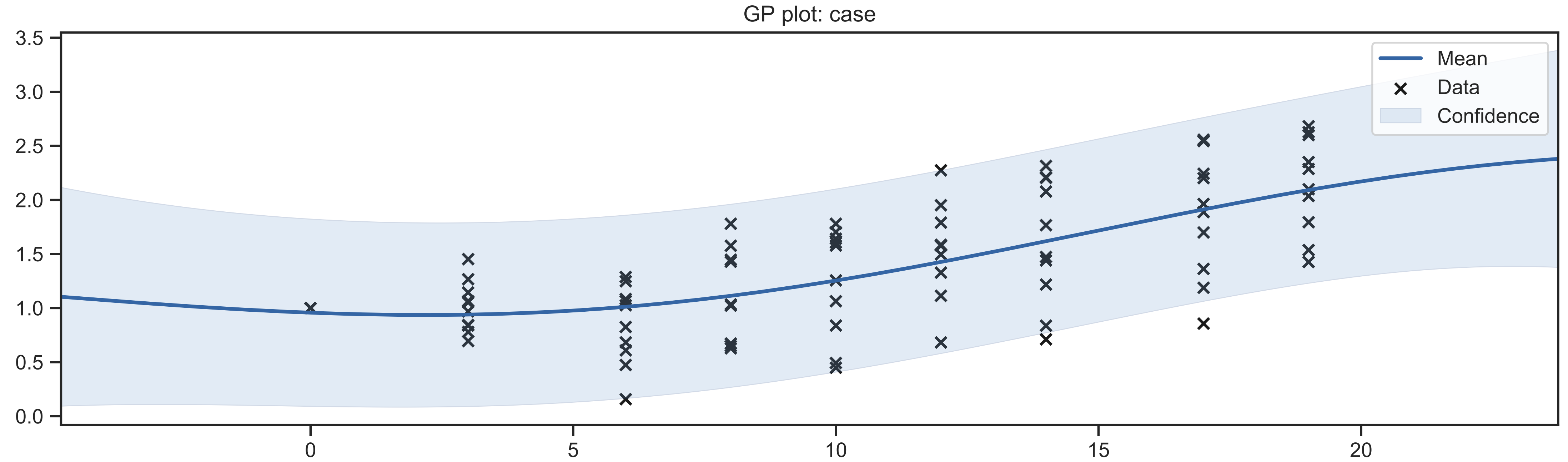
P62*C7

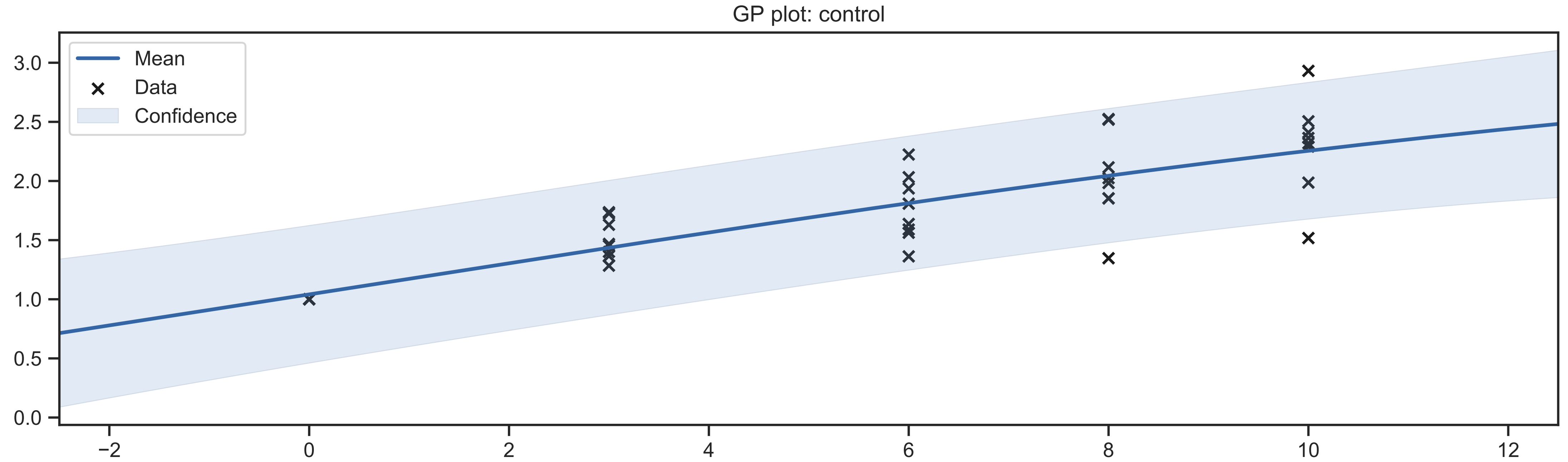

Replicates

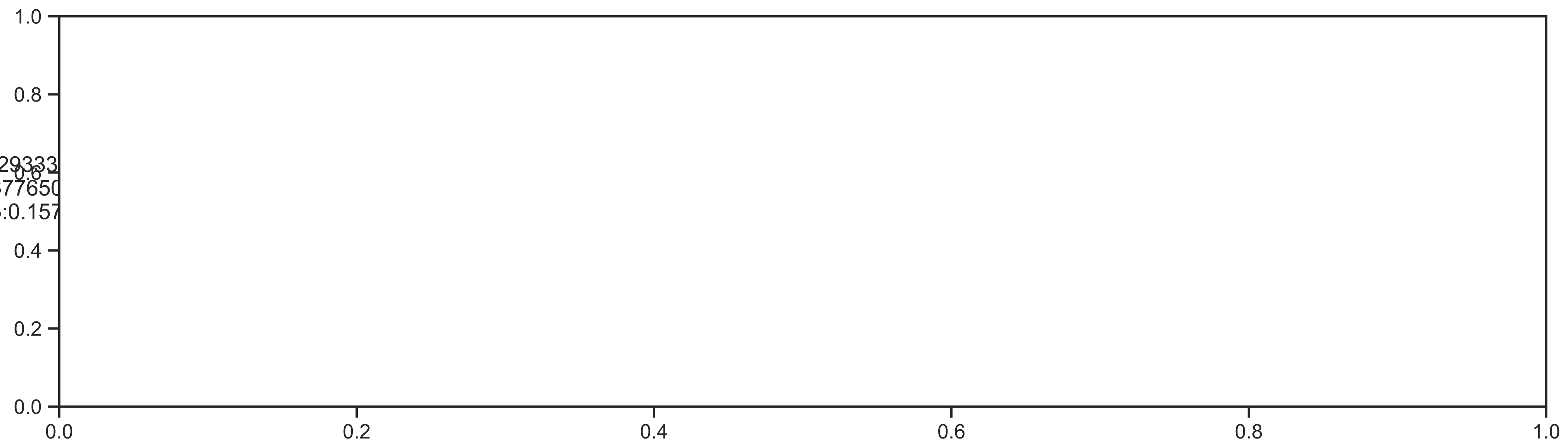
KuLGaP: N
KuLGaP2: N
mRECIST (Novartis): Y
mRECIST (ours): N
Angle: Y
AUC: Y
TGI: Y


Means


Pointwise KL divergence


GP plot: case


GP plot: control

mRECIST: (0,2,7,1
kl: 5.78840994526199
response_angle_rel: 0:0.11285315850075386_1:0.032838374483652163_2:0.2077104232400213_3:0.07045608661590078_4:0.025095831172913648_5:0.21715344829333
response_angle_rel_control: 0:0.25885299879058654_1:0.48352516066674467_2:0.044086723413821395_3:0.4094536830879154_4:0.2805422529456503_5:0.2062677650
auc_norm: 0:0.34721702165238133_1:0.2749140700792536_2:0.006931643203684473_3:-0.13547013954594783_4:-0.2010984267792646_5:0.3098842998372541_6:0.157
auc_control_norm: 0:[0.5258641]_1:[0.83096258]_2:[0.19826953]_3:[0.54862173]_4:[0.53284745]_5:[0.38697748]_6:[0.5470628]_7:[0.56557135]
tgi: 0.6409240858214065
red = treatment,	blue=control