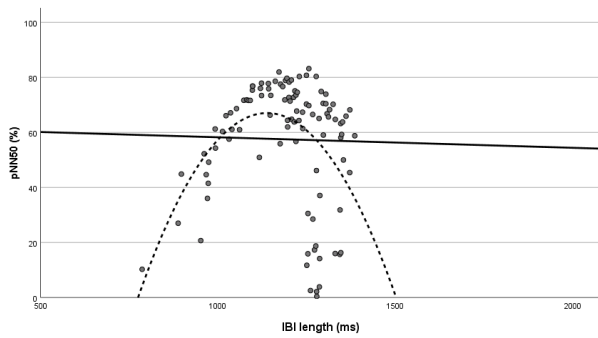
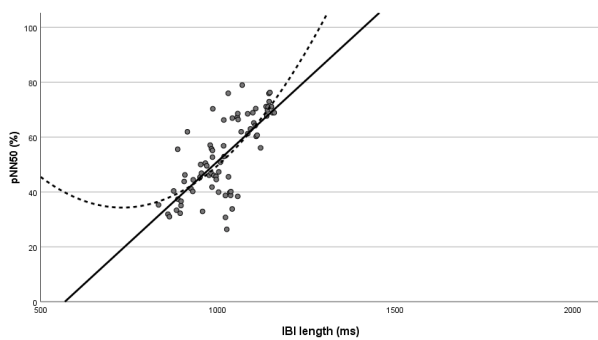


Appendix A

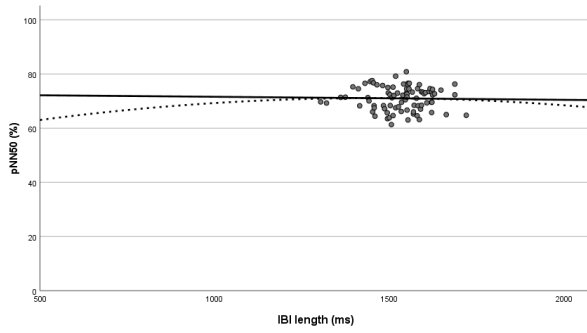
Relationship between pNN50 and IBI in HCN4 mutation carriers



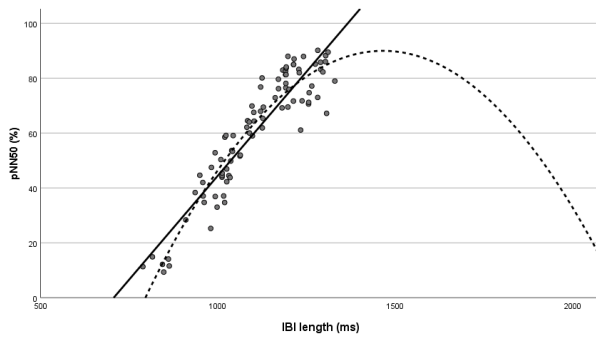
Relationship between pNN50 and IBI in a 27-year-old patient carrying the HCN4 c.1737+1G>T mutation. (Quadratic function: $pNN50 = 1.154 \times IBI^2 - 0.001 \times IBI - 589.530$ $R^2 = .197$; linear function: $pNN50 = -0.004 \times IBI + 62.062$ $R^2 = .000$)



Relationship between pNN50 and IBI in a 23-year-old female patient carrying the HCN4 c.1737+1G>T mutation. (Quadratic function: $pNN50 = -0.309 \times IBI^2 + 0.000 \times IBI + 147.054$ $R^2 = .530$; linear function: $pNN50 = 0.119 \times IBI - 67.501$ $R^2 = 0.517$)

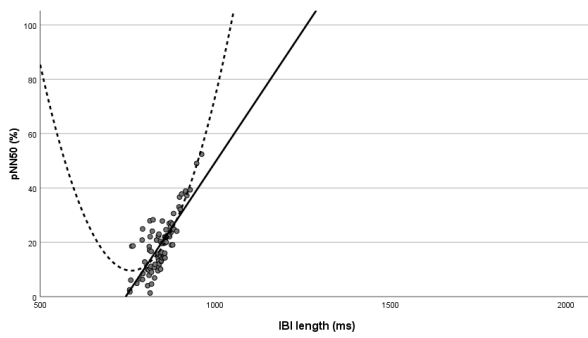


Relationship between pNN50 and IBI in a 13-year-old female patient carrying the HCN4 c.1737+1G>T mutation. (Quadratic function: $pNN50 = -0.026 \times IBI^2 + 0.000 \times IBI + 52.324$ $R^2 = .001$; linear function: $pNN50 = -0.001 \times IBI + 72.698$ $R^2 = .000$)

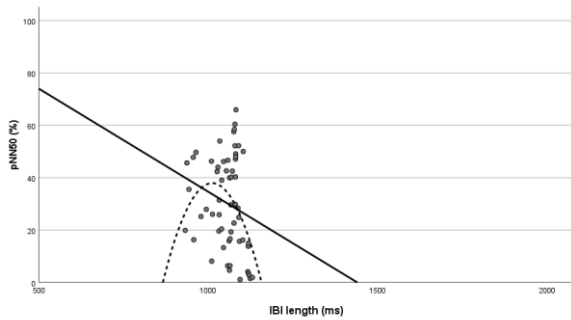


Relationship between pNN50 and IBI in a 22-year-old male patient carrying the HCN4 c.1737+1G>T mutation. pNN50 increases with IBI length. (Quadratic function: $pNN50 = 0.597 \times IBI^2 - 0.000 \times IBI - 340.154$ $R^2 = .885$; linear function: $pNN50 = .152 \times IBI - 106.99$ $R^2 = .853$)

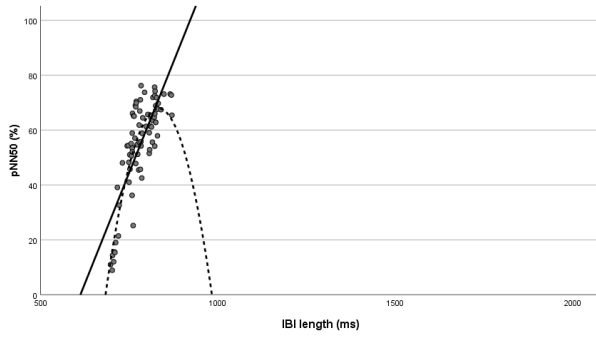
Relationship between pNN50 and IBI in controls



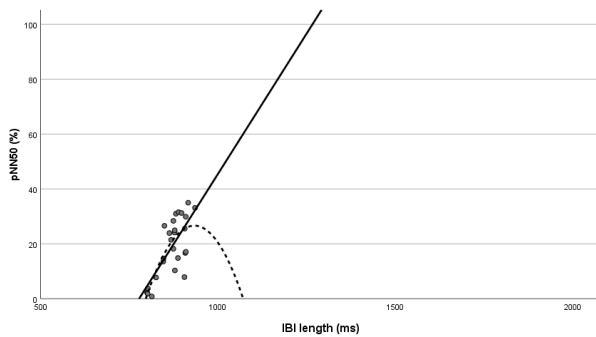
Relationship between pNN50 and IBI in a 12-year old girl. (Quadratic function: $pNN50 = -1.706 \times IBI^2 - .001 \times IBI + 657.627$ $R^2 = .702$; linear function: $pNN50 = .194 \times IBI - 144.160$ $R^2 = .621$)



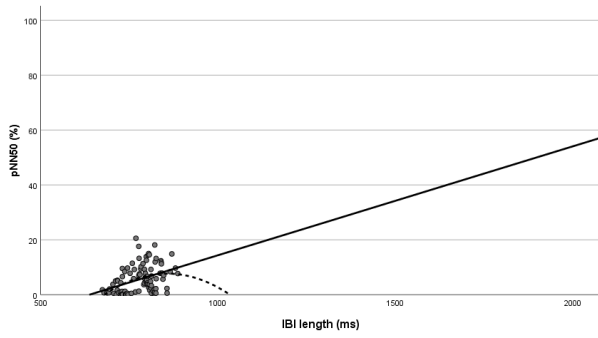
Relationship between pNN50 and IBI in a 13-year old girl. (Quadratic function: $pNN50 = 3.625 \times IBI^2 - .002 \times IBI + 657.627$ $R^2 = .127$; linear function: $pNN50 = -.079 \times IBI - 113.367$ $R^2 = .046$)



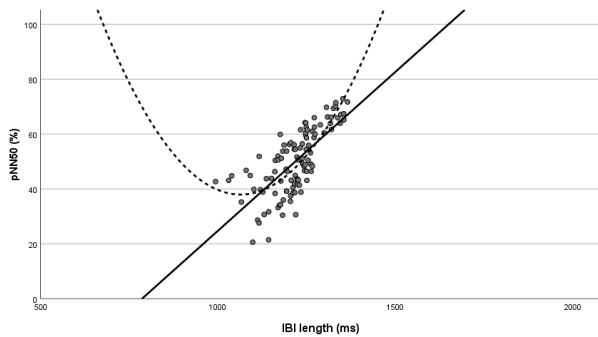
Relationship between pNN50 and IBI in a 14-year old girl. (Quadratic function: $pNN50 = 5.029 \times IBI^2 - .003 \times IBI - 2025.828$ $R^2 = .746$; linear function: $pNN50 = .323 \times IBI - 197.960$ $R^2 = .615$)



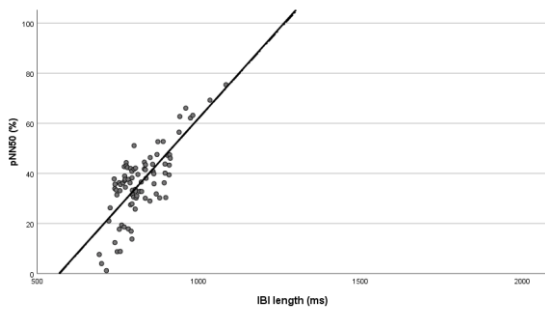
Relationship between pNN50 and IBI in a 14-year old girl. (Quadratic function: $pNN50 = 2.639 \times IBI^2 - .001 \times IBI - 159.052$ $R^2 = .568$; linear function: $pNN50 = .205 \times IBI - 1204.986$ $R^2 = .531$)



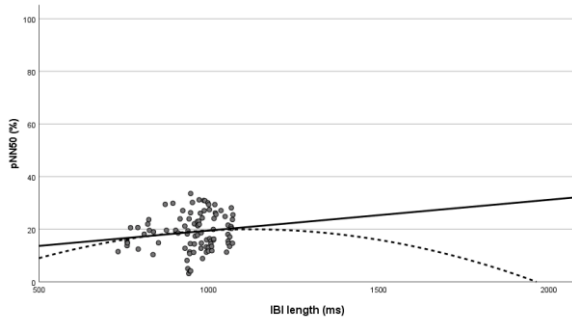
Relationship between pNN50 and IBI in a 13-year old girl. (Quadratic function: $pNN50 = .421 \times IBI^2 - .000 \times IBI - 172.433$ $R^2 = .174$; linear function: $pNN50 = .040 \times IBI - 25.295$ $R^2 = .157$)



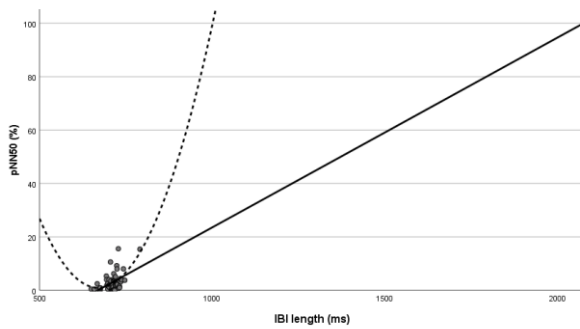
Relationship between pNN50 and IBI in a 16-year old girl. (Quadratic function: $pNN50 = -.879 \times IBI^2 - .000 \times IBI + 505.549$ $R^2 = .593$; linear function: $pNN50 = .116 \times IBI - 90.938$ $R^2 = .516$)



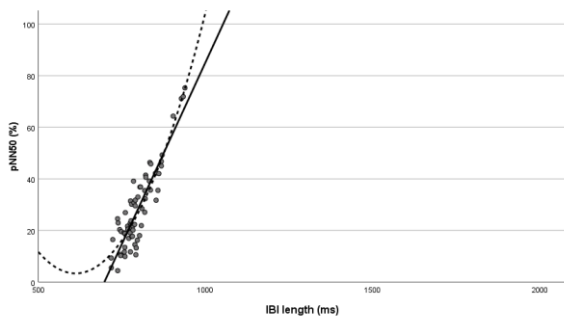
Relationship between pNN50 and IBI in a 16-year old girl. (Quadratic function: $pNN50 = .148 \times IBI^2 - .000 \times IBI - 91.578$ $R^2 = .585$; linear function: $pNN50 = .144 \times IBI - 81.578$ $R^2 = .585$)



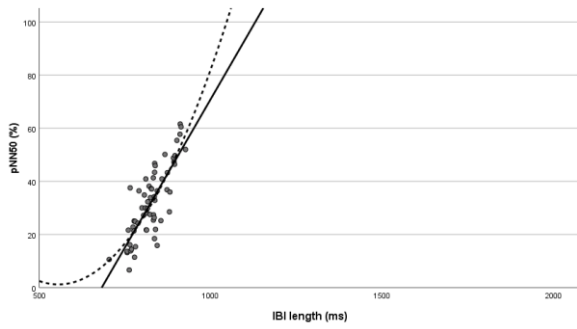
Relationship between pNN50 and IBI in a 13-year old girl. (Quadratic function: $pNN50 = .063 \times IBI^2 - .000 \times IBI - 15.670$ $R^2 = .022$; linear function: $pNN50 = .012 \times IBI - 7.798$ $R^2 = .021$)



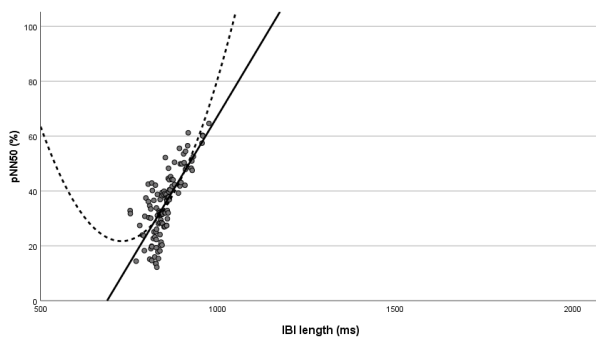
Relationship between pNN50 and IBI in a 13-year old girl. (Quadratic function: $pNN50 = -1.207 \times IBI^2 - .001 \times IBI - 404.884$ $R^2 = .332$ linear function: $pNN50 = .071 \times IBI - 47.567$ $R^2 = .248$)



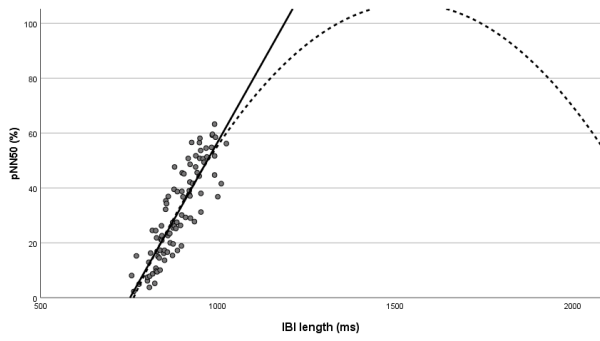
Relationship between pNN50 and IBI in a 14-year old girl. (Quadratic function: $pNN50 = -.821 \times IBI^2 - .001 \times IBI - 254.187$ $R^2 = .823$ linear function: $pNN50 = .282 \times IBI - 196.394$ $R^2 = .803$)



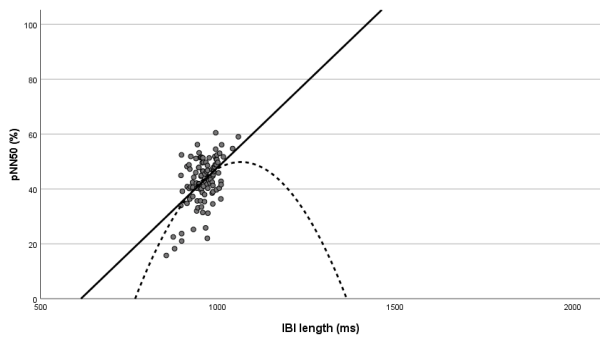
Relationship between pNN50 and IBI in a 12-year old girl. (Quadratic function: $pNN50 = -.456 \times IBI^2 - .000 \times IBI - 152$. $R^2 = .659$ linear function: $pNN50 = .223 \times IBI - 152.376$ $R^2 = .651$)



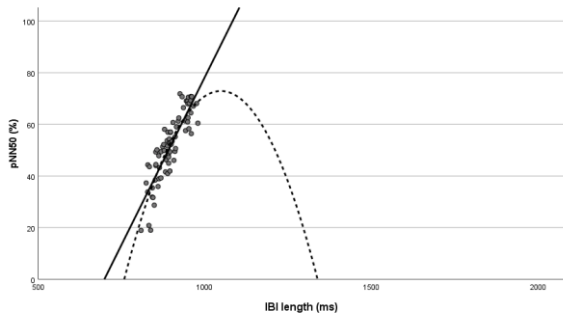
Relationship between pNN50 and IBI in a 12-year old girl. (Quadratic function: $pNN50 = -1.172 \times IBI^2 + .001 \times IBI + 447.997$ $R^2 = .598$ linear function: $pNN50 = .216 \times IBI - 148.558$ $R^2 = .568$)



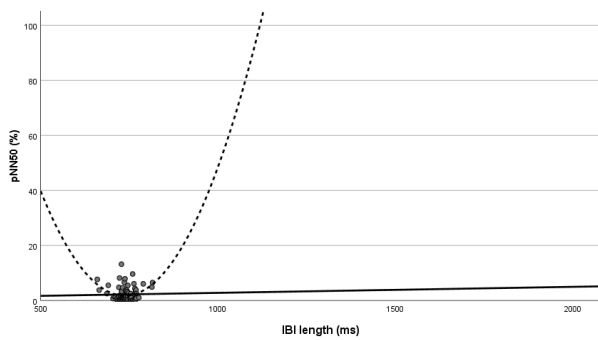
Relationship between pNN50 and IBI in a 12-year old boy. (Quadratic function: $pNN50 = .545 \times IBI^2 + .000 \times IBI - 312.713$ $R^2 = .762$ linear function: $pNN50 = .230 \times IBI - 172.683$ $R^2 = .760$)



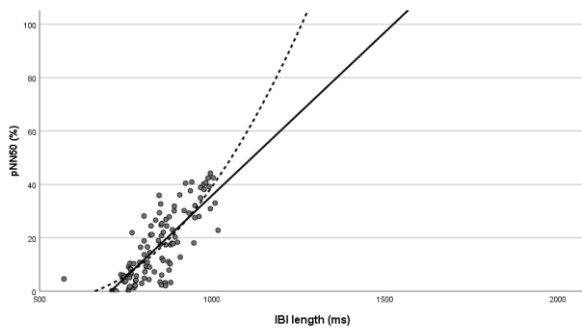
Relationship between pNN50 and IBI in a 14-year old girl. (Quadratic function: $pNN50 = 1.193 \times IBI^2 - .001 \times IBI - 584.853$ $R^2 = .271$ linear function: $pNN50 = .124 \times IBI - 76.162$ $R^2 = .257$)



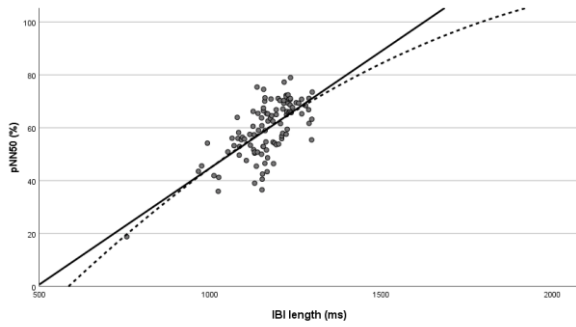
Relationship between pNN50 and IBI in a 16-year old girl. (Quadratic function: $pNN50 = 1.819 \times IBI^2 - .001 \times IBI - 879.800$ $R^2 = .772$ linear function: $pNN50 = .260 \times IBI - 181.470$ $R^2 = .756$)



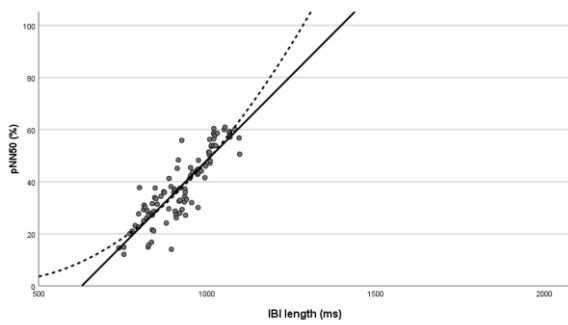
Relationship between pNN50 and IBI in a 14-year old girl. (Quadratic function: $pNN50 = -.997 \times IBI^2 + .001 \times IBI + 369.286$ $R^2 = .112$ linear function: $pNN50 = .002 \times IBI + .602$ $R^2 = .000$)



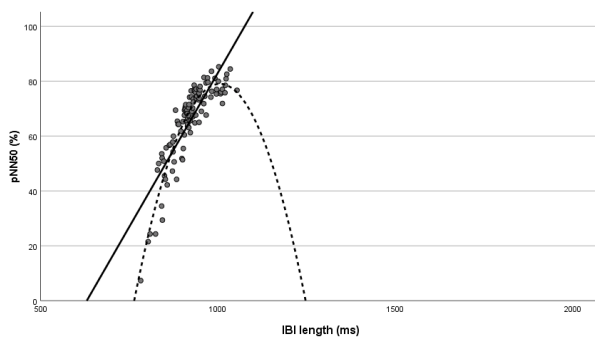
Relationship between pNN50 and IBI in a 15-year old girl. (Quadratic function: $pNN50 = -.215 \times IBI^2 + .000 \times IBI + 54.932$ $R^2 = .625$ linear function: $pNN50 = .122 \times IBI - 86.314$ $R^2 = .603$)



Relationship between pNN50 and IBI in a 15-year old girl. (Quadratic function: $pNN50 = .159 \times IBI^2 - .000 \times IBI - 81.972$ $R^2 = .457$ linear function: $pNN50 = .088 \times IBI - 43.427$ $R^2 = .455$)

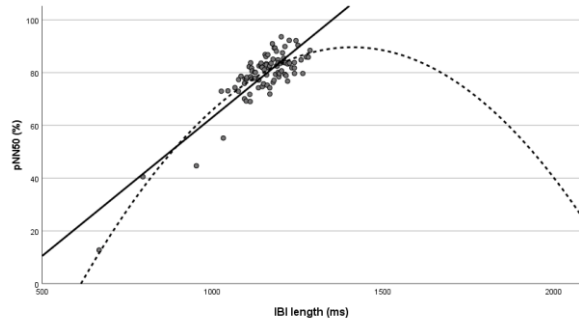


Relationship between pNN50 and IBI in a 13-year old girl. (Quadratic function: $pNN50 = -.090 \times IBI^2 - .000 \times IBI - 18.874$ $R^2 = .771$ linear function: $pNN50 = .130 \times IBI - 81.664$ $R^2 = .766$)

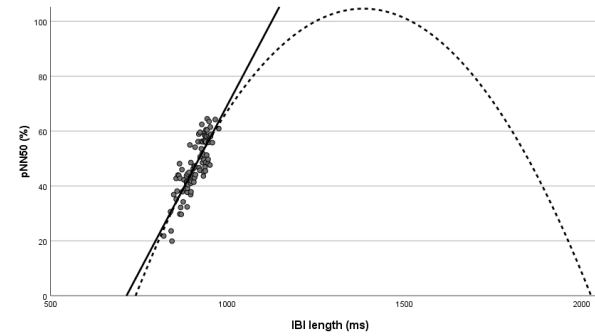


Relationship between pNN50 and IBI in a 15-year old boy. (Quadratic function: $pNN50 = 2.723 \times IBI^2 - .001 \times IBI - 1289.238$ $R^2 = .859$ linear function: $pNN50 = .225 \times IBI - 141.568$ $R^2 = .716$)

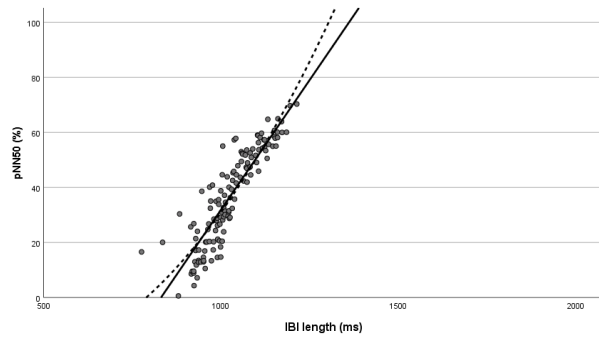
Relationship between pNN50 and IBI in patients with anorexia nervosa at admission and during refeeding



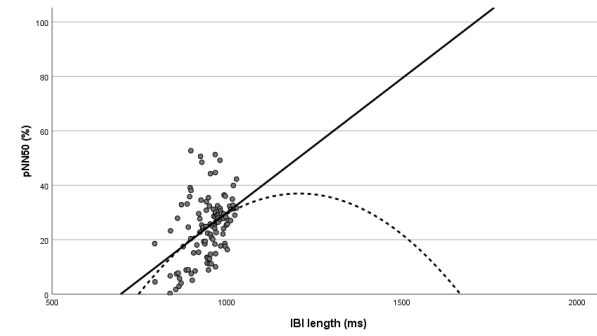
Relationship between pNN50 and IBI in a 12-year old girl with AN at admission. (Quadratic function: $pNN50 = .399 \times IBI^2 + .000 \times IBI - 191.782$ $R^2 = .803$ linear function: $pNN50 = .105 \times IBI - 42.152$ $R^2 = .738$)



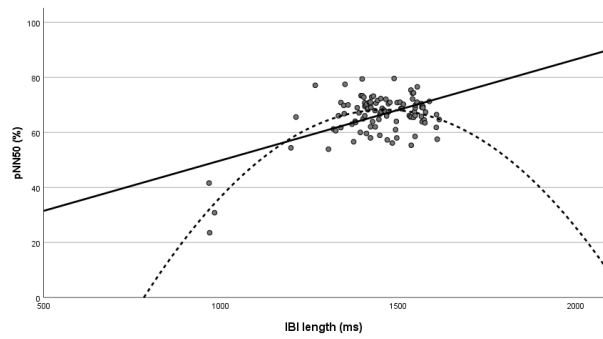
Relationship between pNN50 and IBI in a 12-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .700 \times IBI^2 + .000 \times IBI - 379.343$ $R^2 = .698$ linear function: $pNN50 = .244 \times IBI - 174.259$ $R^2 = .697$)



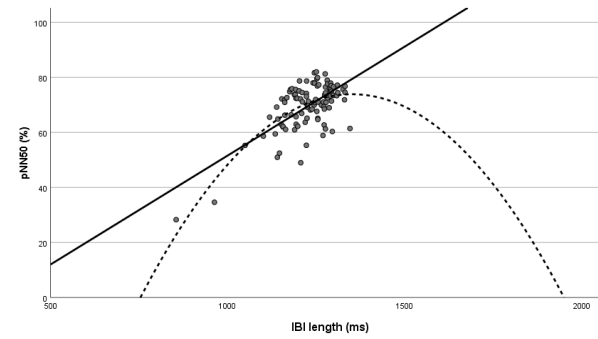
Relationship between pNN50 and IBI in a 13-year old girl with AN at admission. (Quadratic function: $pNN50 = -.131 \times IBI^2 + .000 \times IBI - 6.491$ $R^2 = .786$ linear function: $pNN50 = .189 \times IBI - 156.788$ $R^2 = .780$)



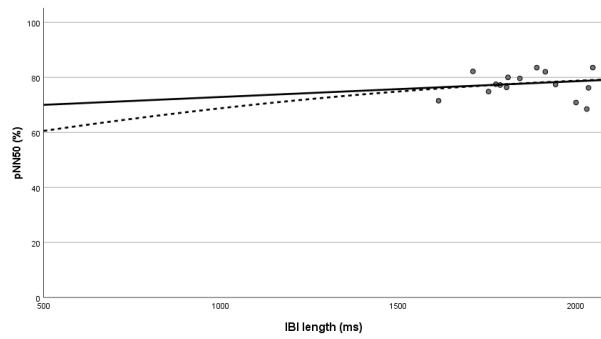
Relationship between pNN50 and IBI in a 13-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .422 \times IBI^2 + .000 \times IBI - 217.685$ $R^2 = .195$ linear function: $pNN50 = .099 \times IBI - 68.656$ $R^2 = .193$)



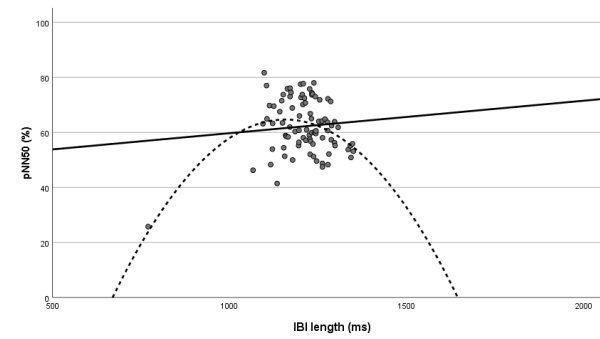
Relationship between pNN50 and IBI in a 14-year old girl with AN at admission. (Quadratic function: $pNN50 = .432 \times IBI^2 + .000 \times IBI - 247.699$ $R^2 = .550$ linear function: $pNN50 = .037 \times IBI + 13.141$ $R^2 = .290$)



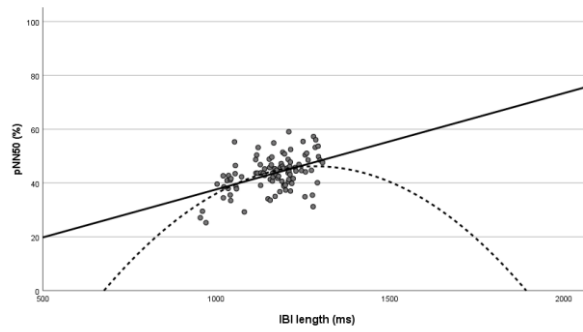
Relationship between pNN50 and IBI in a 14-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .559 \times IBI^2 + .000 \times IBI - 303.619$ $R^2 = .515$ linear function: $pNN50 = .079 \times IBI - 27.580$ $R^2 = .436$)



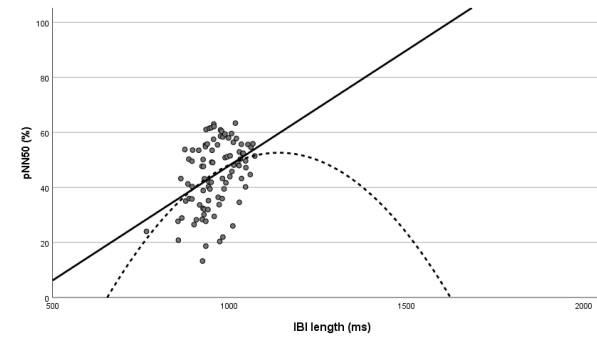
Relationship between pNN50 and IBI in a 14-year old girl with AN at admission. (Quadratic function: $pNN50 = .023 \times IBI^2 + .000 \times IBI + 50.159$ $R^2 = .061$ linear function: $pNN50 = .006 \times IBI + 67.166$ $R^2 = .060$)



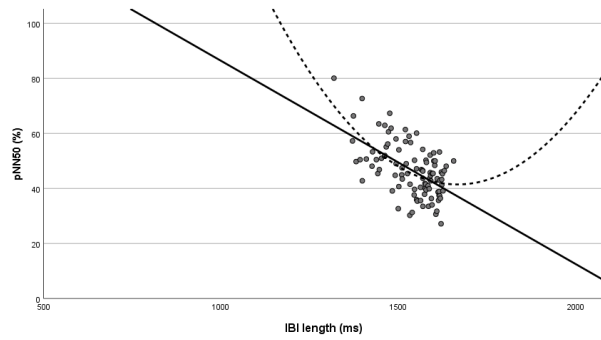
Relationship between pNN50 and IBI in a 14-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .630 \times IBI^2 + .000 \times IBI - 299.870$ $R^2 = .235$ linear function: $pNN50 = .012 \times IBI + 47.934$ $R^2 = .009$)



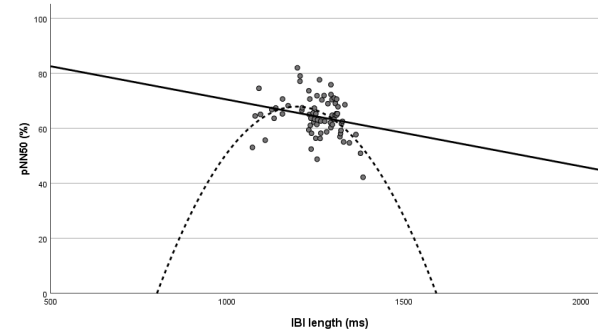
Relationship between pNN50 and IBI in a 13-year old girl with AN at admission. (Quadratic function: $pNN50 = .321 \times IBI^2 + .000 \times IBI - 160.022$ $R^2 = .237$ linear function: $pNN50 = .036 \times IBI + 1.885$ $R^2 = .212$)



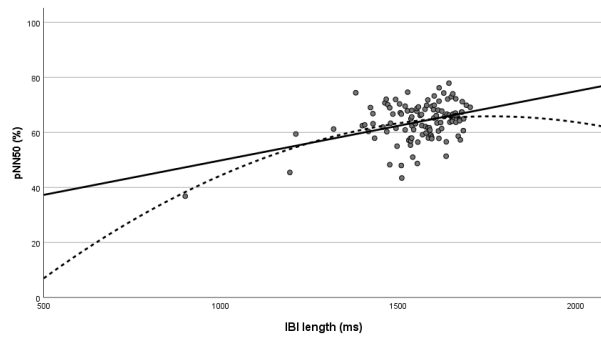
Relationship between pNN50 and IBI in a 13-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .510 \times IBI^2 + .000 \times IBI - 237.995$ $R^2 = .168$ linear function: $pNN50 = .084 \times IBI - 35.608$ $R^2 = .160$)



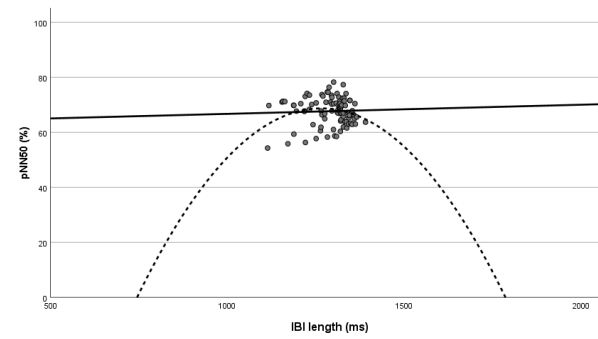
Relationship between pNN50 and IBI in a 16-year old girl with AN at admission. (Quadratic function: $pNN50 = -.784 \times IBI^2 + .000 \times IBI + 694.792$ $R^2 = .342$ linear function: $pNN50 = -.074 \times IBI + 160.266$ $R^2 = .321$)



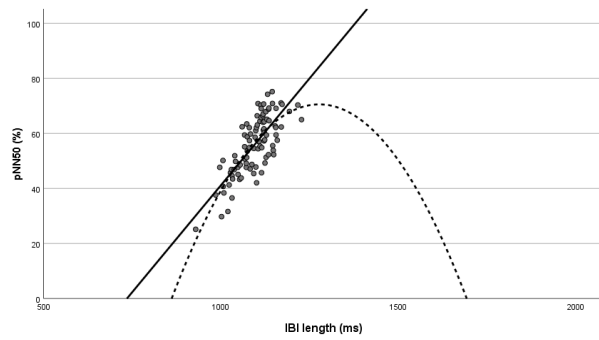
Relationship between pNN50 and IBI in a 16-year old girl with AN during refeeding. (Quadratic function: $pNN50 = 1.042 \times IBI^2 + .000 \times IBI - 554.942$ $R^2 = .202$ linear function: $pNN50 = -.024 \times IBI + 94.703$ $R^2 = .056$)



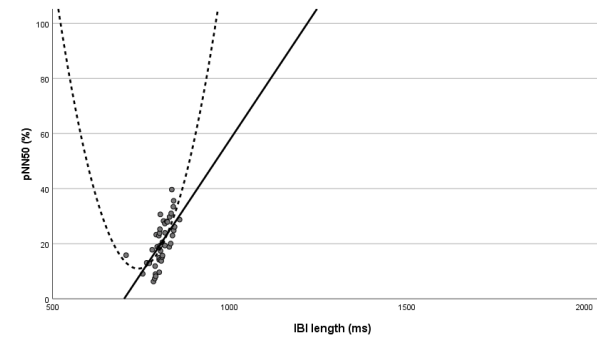
Relationship between pNN50 and IBI in a 13-year old girl with AN at admission. (Quadratic function: $pNN50 = .130 \times IBI^2 + .000 \times IBI - 48.984$ $R^2 = .189$ linear function: $pNN50 = -.025 \times IBI + 24.744$ $R^2 = .162$)



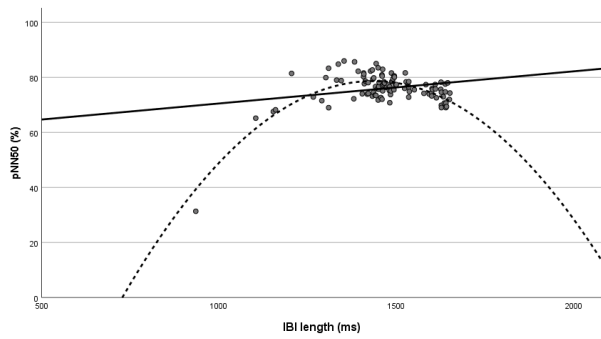
Relationship between pNN50 and IBI in a 13-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .642 \times IBI^2 + .000 \times IBI - 337.102$ $R^2 = .046$ linear function: $pNN50 = -.003 \times IBI + 63.412$ $R^2 = .002$)



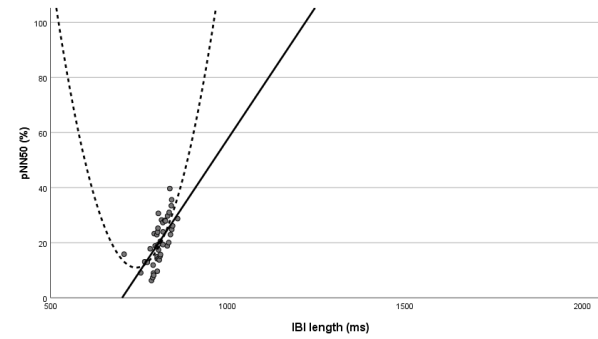
Relationship between pNN50 and IBI in a 13-year old girl with AN at admission. (Quadratic function: $pNN50 = 1.042 \times IBI^2 + .000 \times IBI - 594.777$ $R^2 = .608$ linear function: $pNN50 = .155 \times IBI - 114.223$ $R^2 = .583$)



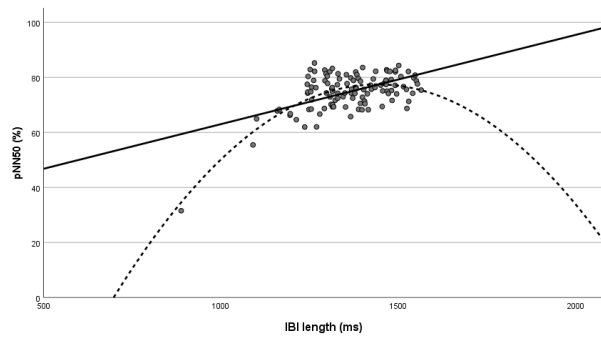
Relationship between pNN50 and IBI in a 13-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .642 \times IBI^2 + .000 \times IBI - 337.102$ $R^2 = .046$ linear function: $pNN50 = -.003 \times IBI + 63.412$ $R^2 = .002$)



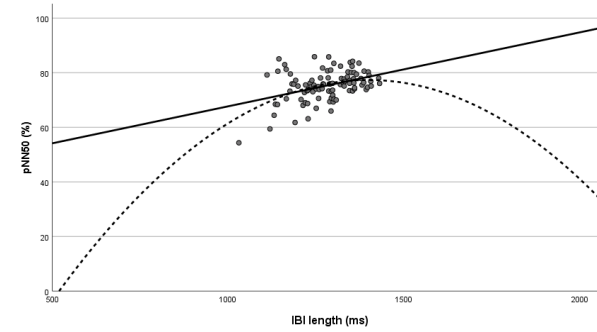
Relationship between pNN50 and IBI in a 13-year old girl with AN at admission. (Quadratic function: $pNN50 = .451 \times IBI^2 + .000 \times IBI - 244.991$ $R^2 = .622$ linear function: $pNN50 = .012 \times IBI + 58.843$ $R^2 = .057$)



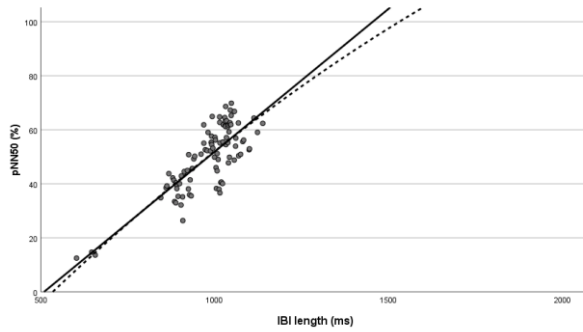
Relationship between pNN50 and IBI in a 13-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .642 \times IBI^2 + .000 \times IBI - 337.102$ $R^2 = .046$ linear function: $pNN50 = -.003 \times IBI + 63.412$ $R^2 = .002$)



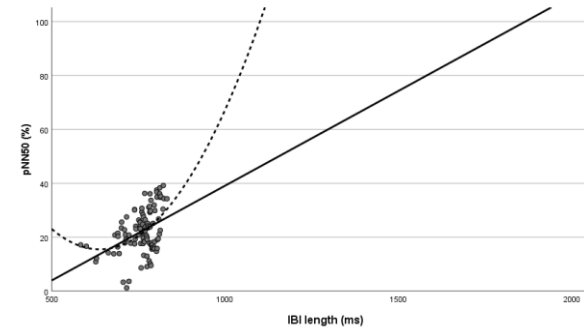
Relationship between pNN50 and IBI in a 14-year old girl with AN at admission. (Quadratic function: $pNN50 = .403 \times IBI^2 + .000 \times IBI - 213.252$ $R^2 = .493$ linear function: $pNN50 = .032 \times IBI + 30.581$ $R^2 = .284$)



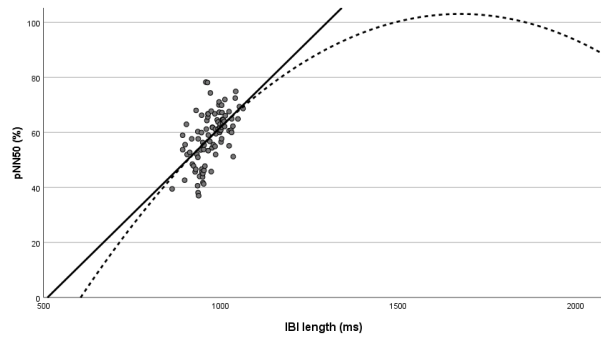
Relationship between pNN50 and IBI in a 14-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .280 \times IBI^2 + .000 \times IBI - 118.445$ $R^2 = .182$ linear function: $pNN50 = .027 \times IBI + 40.583$ $R^2 = .159$)



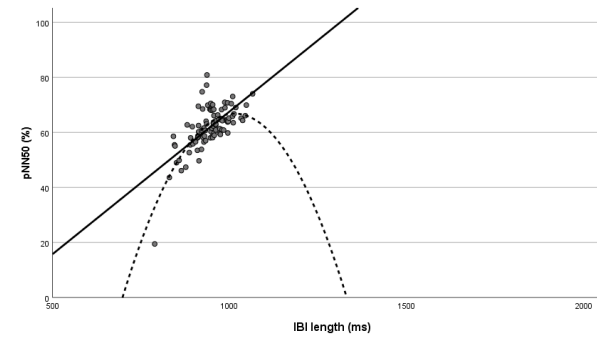
Relationship between pNN50 and IBI in a 12-year old girl with AN at admission. (Quadratic function: $pNN50 = .144 \times IBI^2 + .000 \times IBI - 71.059$ $R^2 = .644$ linear function: $pNN50 = .106 \times IBI - 53.865$ $R^2 = .643$)



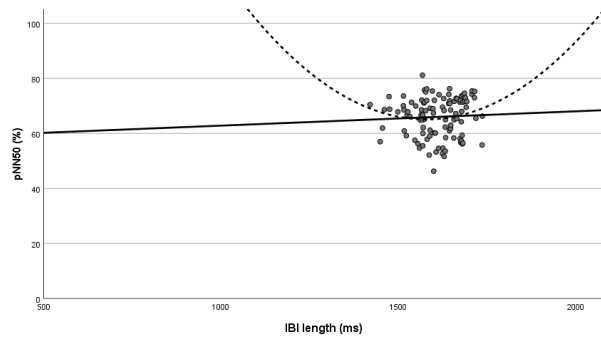
Relationship between pNN50 and IBI in a 12-year old girl with AN during refeeding. (Quadratic function: $pNN50 = -.505 \times IBI^2 + .000 \times IBI + 176.566$ $R^2 = .198$ linear function: $pNN50 = .070 \times IBI - 31.229$ $R^2 = .171$)



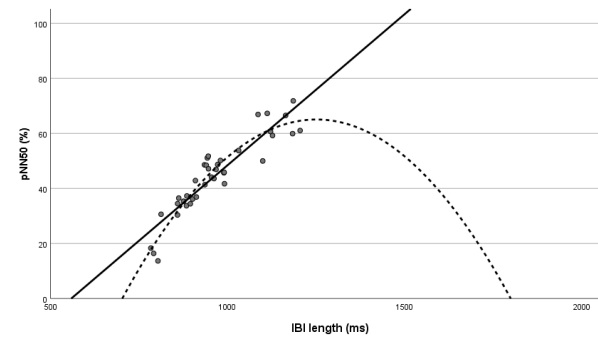
Relationship between pNN50 and IBI in a 15-year old girl with AN at admission. (Quadratic function: $pNN50 = .301 \times IBI^2 + .000 \times IBI - 149.181$ $R^2 = .308$ linear function: $pNN50 = .127 \times IBI - 64.806$ $R^2 = .307$)



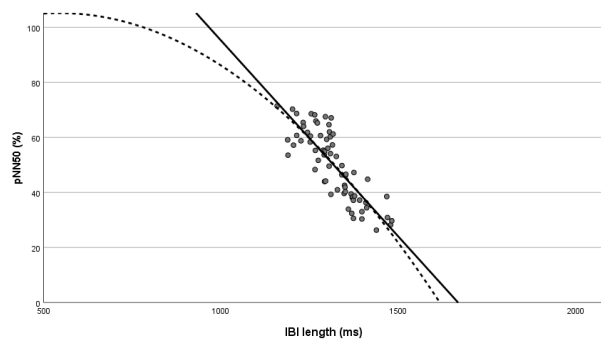
Relationship between pNN50 and IBI in a 15-year old girl with AN during refeeding. (Quadratic function: $pNN50 = 1.353 \times IBI^2 - .001 \times IBI - 619.019$ $R^2 = .547$ linear function: $pNN50 = .104 \times IBI - 36.078$ $R^2 = .441$)



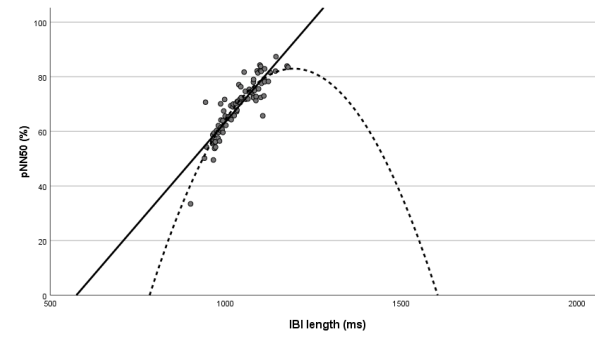
Relationship between pNN50 and IBI in a 16-year old boy with AN at admission. (Quadratic function: $pNN50 = -.500 \times IBI^2 + .000 \times IBI - 459.392$ $R^2 = .019$ linear function: $pNN50 = .005 \times IBI + 57.631$ $R^2 = .002$)



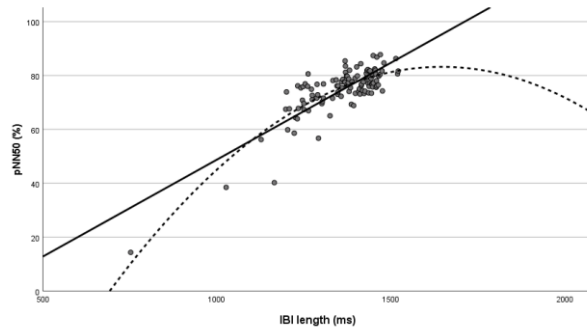
Relationship between pNN50 and IBI in a 16-year old boy with AN during refeeding. (Quadratic function: $pNN50 = .541 \times IBI^2 + .000 \times IBI - 273.430$ $R^2 = .889$ linear function: $pNN50 = .110 \times IBI - 61.313$ $R^2 = .840$)



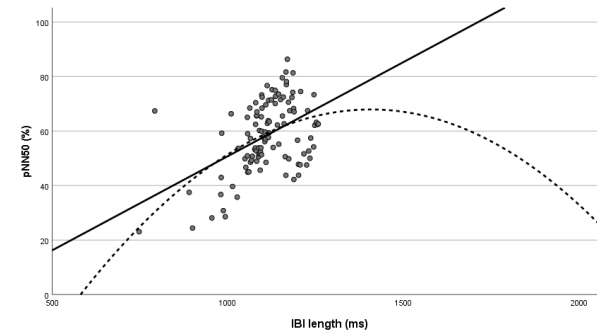
Relationship between pNN50 and IBI in a 14-year old girl with AN at admission. (Quadratic function: $pNN50 = .099 \times IBI^2 + .000 \times IBI + 78.331$ $R^2 = .691$ linear function: $pNN50 = -.143 \times IBI + 237.726$ $R^2 = .689$)



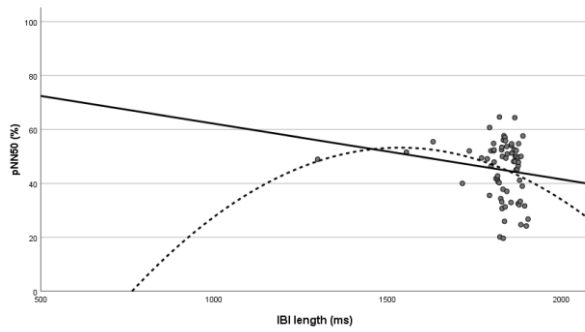
Relationship between pNN50 and IBI in a 14-year old girl with AN during refeeding. (Quadratic function: $pNN50 = 1.178 \times IBI^2 + .000 \times IBI - 619.448$ $R^2 = .827$ linear function: $pNN50 = .150 \times IBI - 85.944$ $R^2 = .790$)



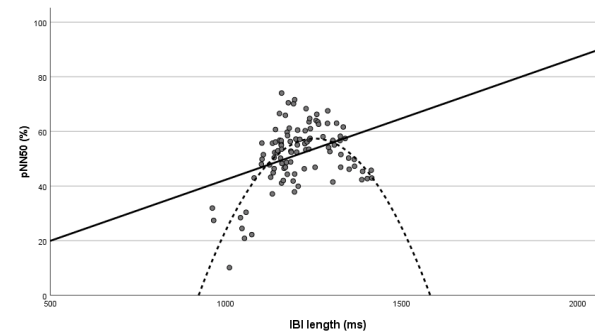
Relationship between pNN50 and IBI in a 16-year old girl with AN at admission. (Quadratic function: $pNN50 = .301 \times IBI^2 - .000 \times IBI - 164.468$ $R^2 = .736$ linear function: $pNN50 = .072 \times IBI - 23.164$ $R^2 = .665$)



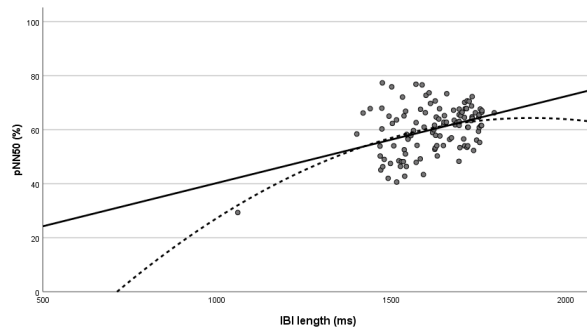
Relationship between pNN50 and IBI in a 16-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .280 \times IBI^2 - .000 \times IBI - 129.086$ $R^2 = .232$ linear function: $pNN50 = .069 \times IBI - 18.304$ $R^2 = .219$)



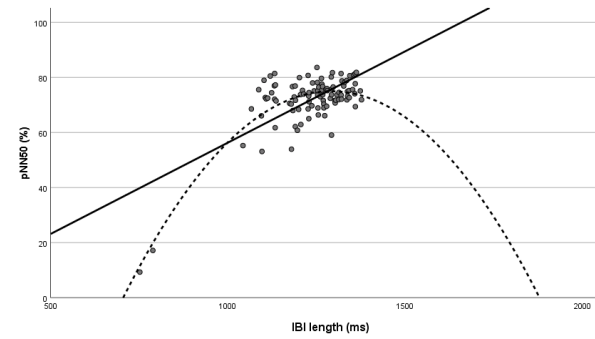
Relationship between pNN50 and IBI in a 16-year old girl with AN at admission. (Quadratic function: $pNN50 = .274 \times IBI^2 - .000 \times IBI - 157.102$ $R^2 = .049$ linear function: $pNN50 = -.021 \times IBI - 82.746$ $R^2 = .028$)



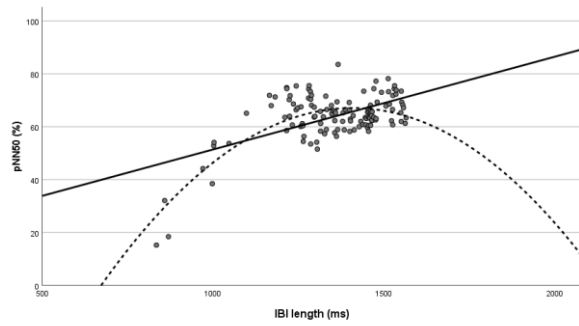
Relationship between pNN50 and IBI in a 15-year old girl with AN during refeeding. (Quadratic function: $pNN50 = 1.324 \times IBI^2 - .001 \times IBI - 770.840$ $R^2 = .483$ linear function: $pNN50 = .045 \times IBI - 2.490$ $R^2 = .140$)



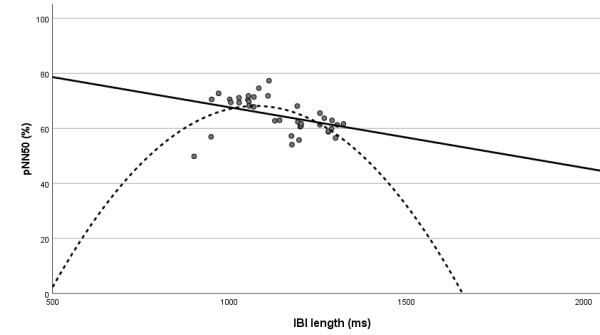
Relationship between pNN50 and IBI in a 16-year old girl with AN at admission. (Quadratic function: $pNN50 = .173 \times IBI^2 - .000 \times IBI - 100.176$ $R^2 = .174$ linear function: $pNN50 = .032 \times IBI + 8.211$ $R^2 = .157$)



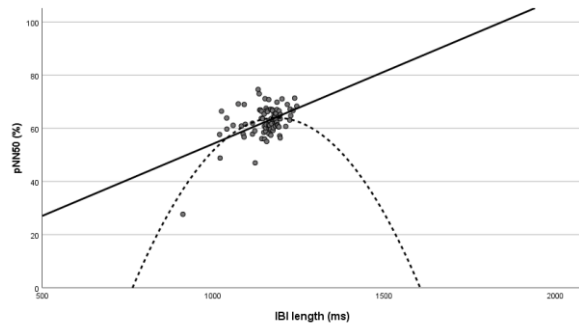
Relationship between pNN50 and IBI in a 16-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .562 \times IBI^2 + .000 \times IBI - 288.037$ $R^2 = .689$ linear function: $pNN50 = .066 \times IBI - 10.025$ $R^2 = .454$)



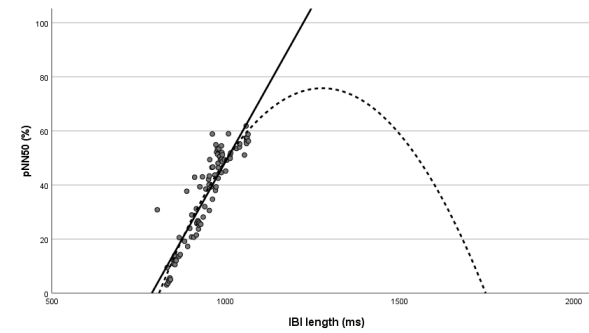
Relationship between pNN50 and IBI in a 15-year old girl with AN at admission. (Quadratic function: $pNN50 = .349 \times IBI^2 + .000 \times IBI - 178.776$ $R^2 = .528$ linear function: $pNN50 = .035 \times IBI + 16.306$ $R^2 = .320$)



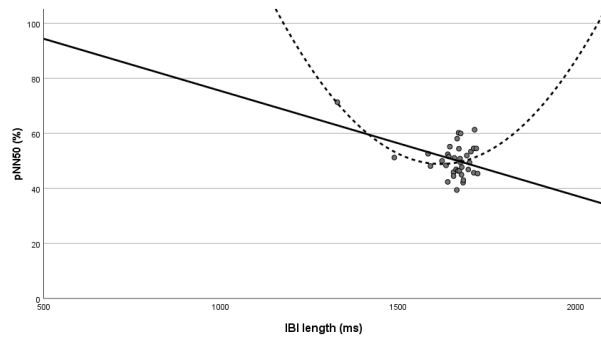
Relationship between pNN50 and IBI in a 15-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .430 \times IBI^2 + .000 \times IBI - 162.444$ $R^2 = .324$ linear function: $pNN50 = -.022 \times IBI + 89.633$ $R^2 = .163$)



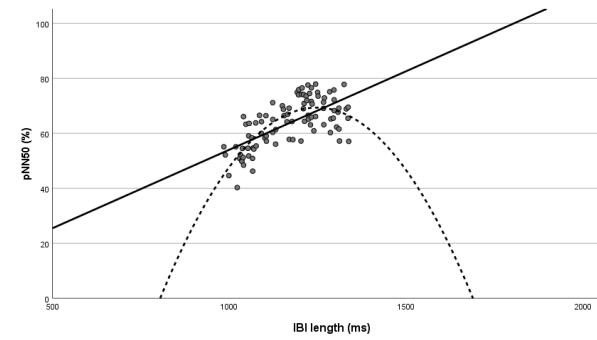
Relationship between pNN50 and IBI in a 13-year old girl with AN at admission. (Quadratic function: $pNN50 = .858 \times IBI^2 + .000 \times IBI - 443.914$ $R^2 = .336$ linear function: $pNN50 = .054 \times IBI - .116$ $R^2 = .235$)



Relationship between pNN50 and IBI in a 15-year old girl with AN during refeeding. (Quadratic function: $pNN50 = .880 \times IBI^2 + .000 \times IBI - 485.876$ $R^2 = .843$ linear function: $pNN50 = .230 \times IBI - 180.849$ $R^2 = .823$)



Relationship between pNN50 and IBI in a 13-year old boy with AN at admission. (Quadratic function: $pNN50 = -.843 \times IBI^2 + .000 \times IBI + 731.506$ $R^2 = .328$ linear function: $pNN50 = -.038 \times IBI + 113.406$ $R^2 = .181$)



Relationship between pNN50 and IBI in a 13-year old boy with AN during refeeding. (Quadratic function: $pNN50 = .885 \times IBI^2 + .000 \times IBI - 481.796$ $R^2 = .570$ linear function: $pNN50 = .057 \times IBI - 3.071$ $R^2 = .440$)