Winston-Lutz Analysis

Metadata:
Autor: William A. P. dos Santos
Função: Físico
Acelerador Linear: Synergy Full
Modelo MLC: Agility

Winston-Lutz Analysis
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Number of images: 9
Maximum 2D CAX->BB distance: 0.90mm
Median 2D CAX->BB distance: 0.62mm
Shift to iso: facing gantry, move BB: LEFT 0.04mm; IN 0.13mm; DOWN 0.13mm
Gantry 3D isocenter diameter: 1.21mm (4/9 images considered)
Maximum Gantry RMS deviation (mm): 0.67mm
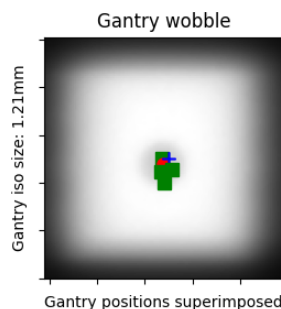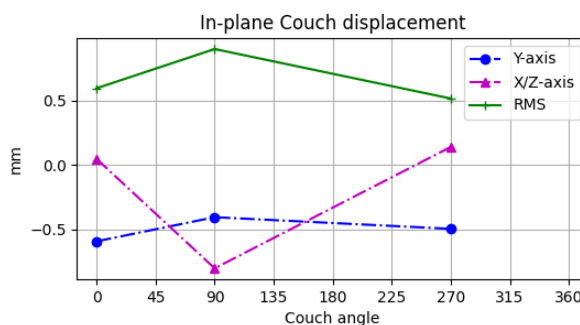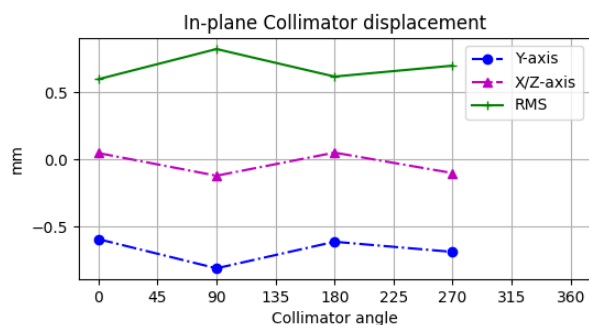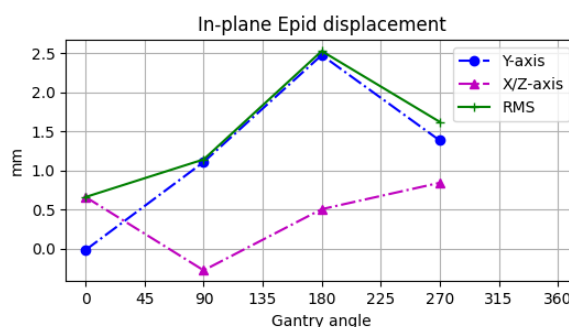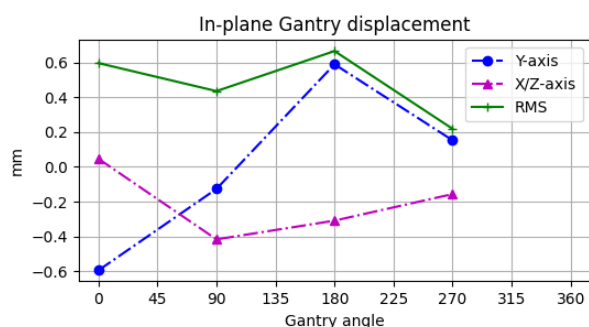Maximum EPID RMS deviation (mm): 2.53mm
Gantry+Collimator 3D isocenter diameter: 1.47mm (7/9 images considered)
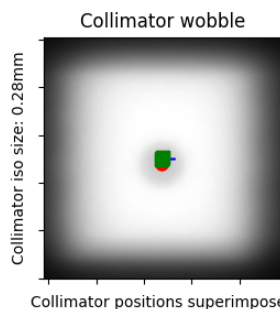Collimator 2D isocenter diameter: 0.28mm (4/9 images considered)
Maximum Collimator RMS deviation (mm): 0.82
Couch 2D isocenter diameter: 0.95mm (3/9 images considered)
Maximum Couch RMS deviation (mm): 0.90

In-plane Gantry displacement

In-plane Epid displacement

In-plane Collimator displacement

In-plane Couch displacement

Gantry wobble
Gantry iso size: 1.21mm
Gantry positions superimposed

Collimator wobble
Collimator iso size: 0.28mm
Collimator positions superimposed
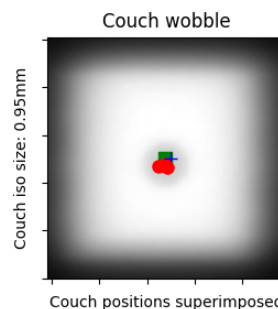
Couch wobble
Couch iso size: 0.95mm
Couch positions superimposed

Notes:

Análise de Winston-Lutz com pylinac
Campo 2 cm X 2 cm
Tolerância: 1 mm
Limite de ação: 0.8 mm
Local das imagens: ./WL_IOSP_20201216\WL_2020-12-16_PosAjuste

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Gantry images
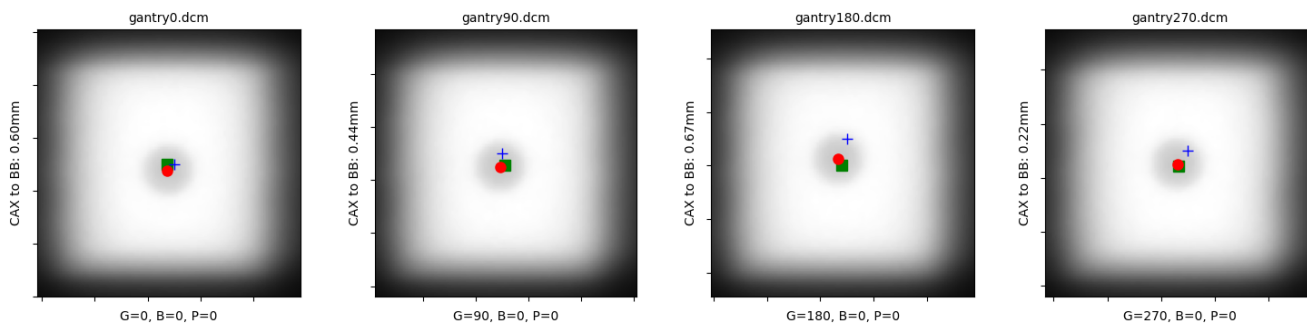
gantry0.dcm — CAX to BB: 0.60mm — G=0, B=0, P=0
gantry90.dcm — CAX to BB: 0.44mm — G=90, B=0, P=0
gantry180.dcm — CAX to BB: 0.67mm — G=180, B=0, P=0
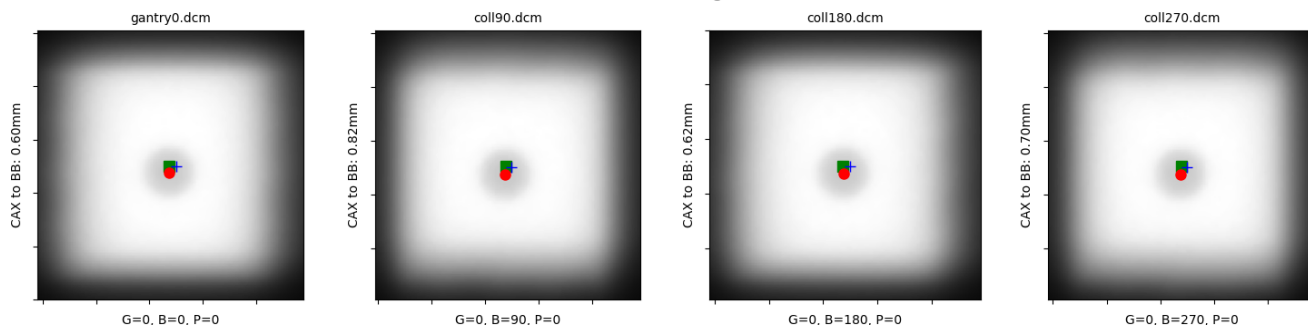gantry270.dcm — CAX to BB: 0.22mm — G=270, B=0, P=0

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Collimator images

gantry0.dcm

CAX to BB: 0.60mm

G=0, B=0, P=0

coll90.dcm

CAX to BB: 0.82mm

G=0, B=90, P=0

coll180.dcm

CAX to BB: 0.62mm

G=0, B=180, P=0

coll270.dcm

CAX to BB: 0.70mm

G=0, B=270, P=0

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Couch images

gantry0.dcm	couch90.dcm	couch270.dcm
CAX to BB: 0.60mm	CAX to BB: 0.90mm	CAX to BB: 0.52mm
G=0, B=0, P=0	G=0, B=0, P=90	G=0, B=0, P=270