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: 7
Maximum 2D CAX->BB distance: 1.04mm
Median 2D CAX->BB distance: 0.62mm
Shift to iso: facing gantry, move BB: RIGHT 0.41mm; IN 0.48mm; DOWN 0.09mm
Gantry 3D isocenter diameter: 1.05mm (4/7 images considered)
Maximum Gantry RMS deviation (mm): 0.44mm
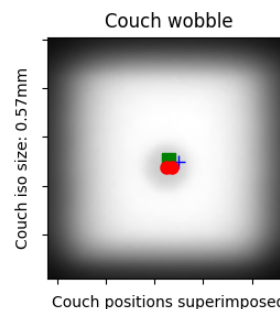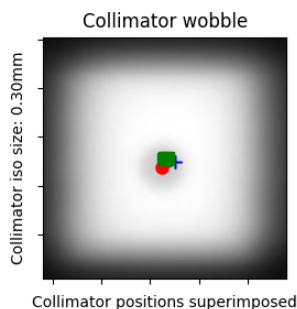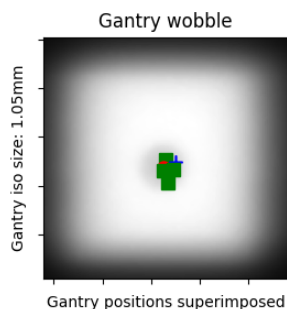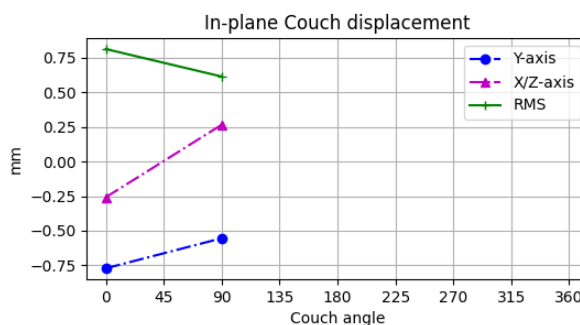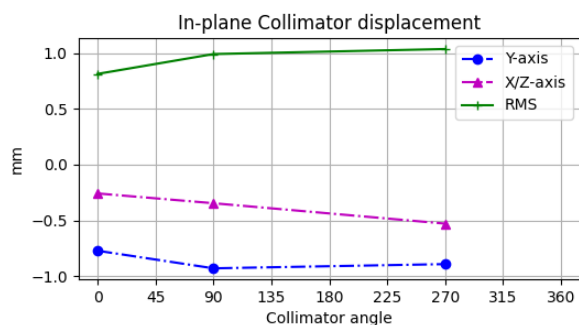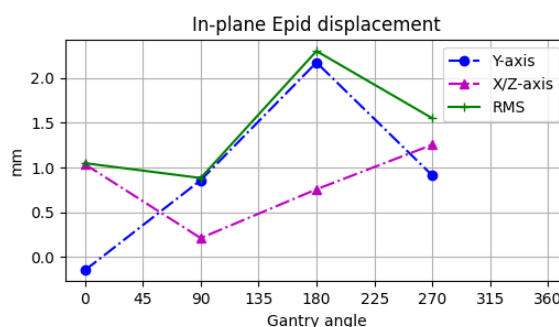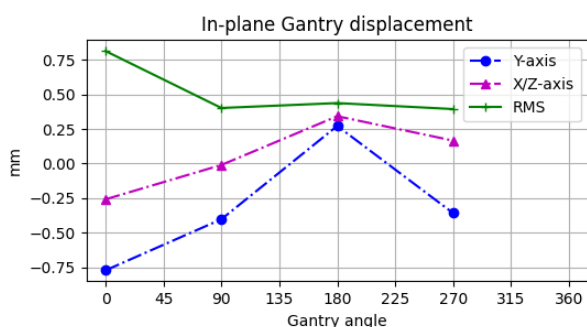Maximum EPID RMS deviation (mm): 2.30mm
Gantry+Collimator 3D isocenter diameter: 1.20mm (6/7 images considered)
Collimator 2D isocenter diameter: 0.30mm (3/7 images considered)
Maximum Collimator RMS deviation (mm): 1.04
Couch 2D isocenter diameter: 0.57mm (2/7 images considered)
Maximum Couch RMS deviation (mm): 0.00

In-plane Gantry displacement

In-plane Epid displacement

In-plane Collimator displacement

In-plane Couch displacement

Gantry wobble
Gantry positions superimposed

Collimator wobble
Collimator positions superimposed

Couch wobble
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\WL_2020-07-08
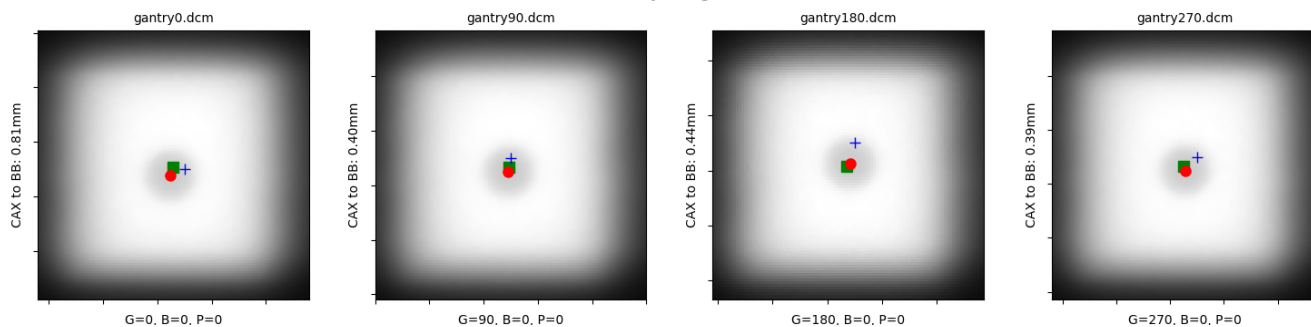
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Gantry images

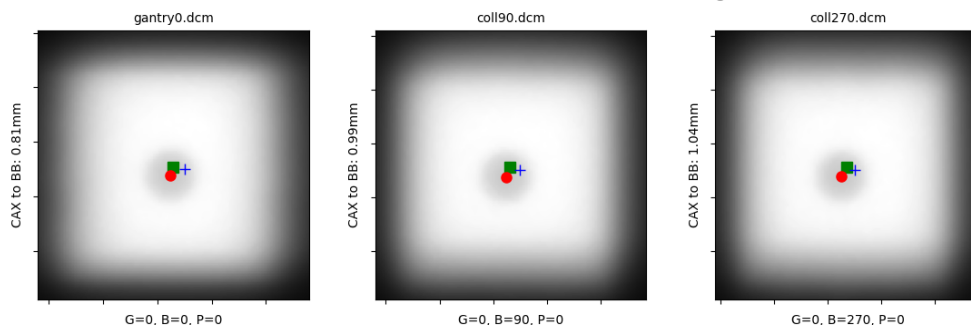| gantry0.dcm | gantry90.dcm | gantry180.dcm | gantry270.dcm |
| CAX to BB: 0.81mm | CAX to BB: 0.40mm | CAX to BB: 0.44mm | CAX to BB: 0.39mm |
| G=0, B=0, P=0 | G=90, B=0, P=0 | G=180, B=0, P=0 | G=270, B=0, P=0 |

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Collimator images

gantry0.dcm

CAX to BB: 0.81mm

G=0, B=0, P=0

coll90.dcm

CAX to BB: 0.99mm

G=0, B=90, P=0

coll270.dcm

CAX to BB: 1.04mm

G=0, B=270, P=0

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Couch images

gantry0.dcm

CAX to BB: 0.81mm

G=0. B=0. P=0

couch90.dcm

CAX to BB: 0.62mm

G=0. B=0. P=90