

Mémoire

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Faculté : Faculté des Sciences

Diplôme : Master en sciences physiques, à finalité spécialisée en radiophysique médicale

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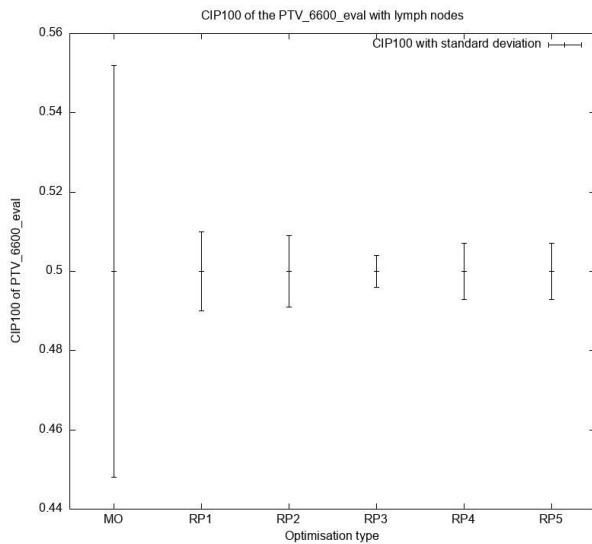
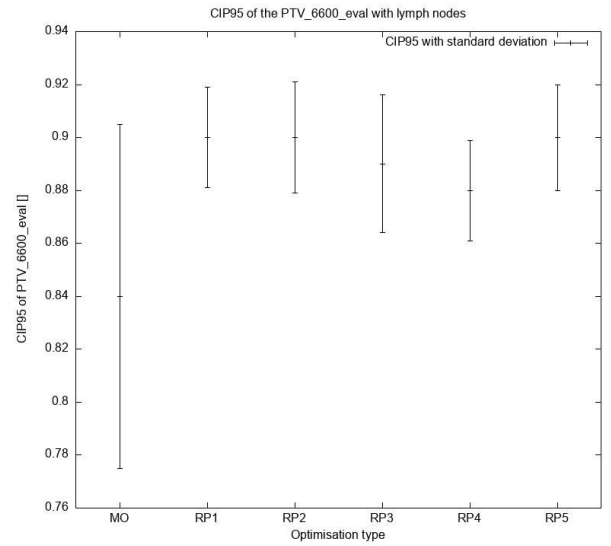
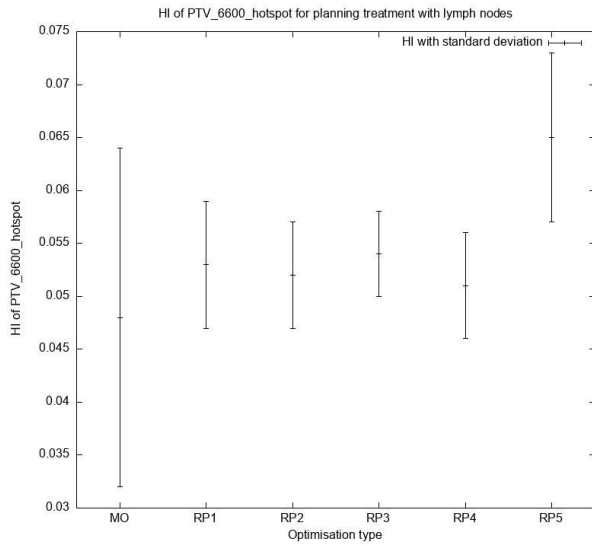
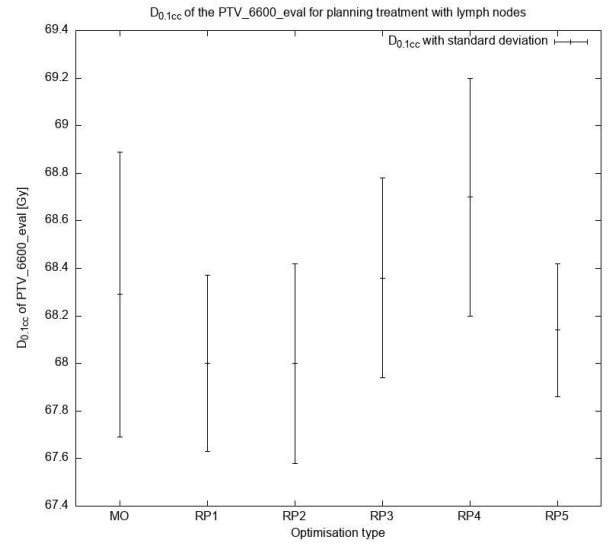
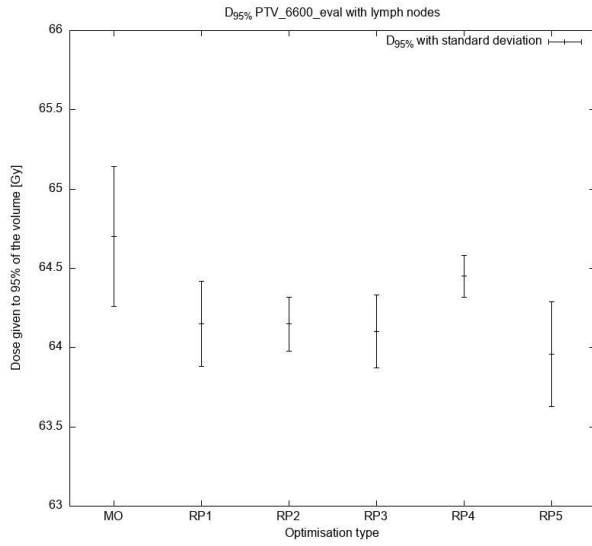
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Annexe 2

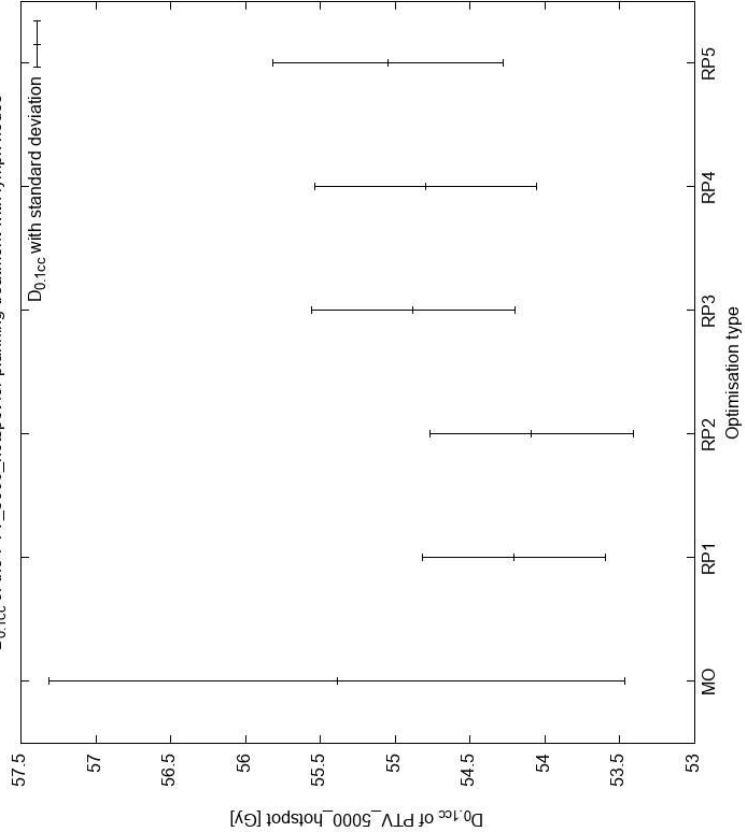
Eduardo Palem-Torraco

September 2022

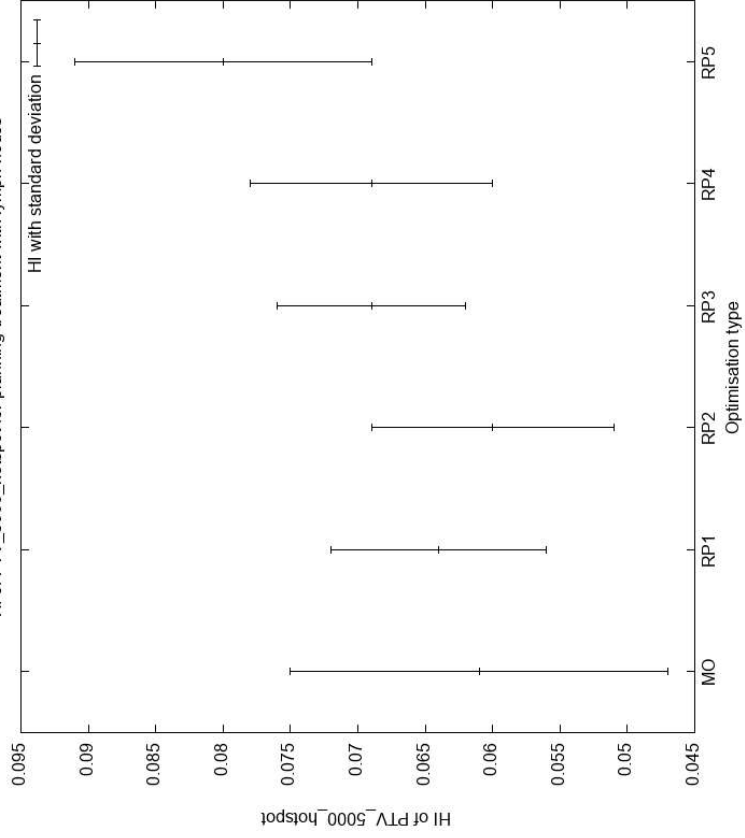
Implementation treatment planification with lymph nodes



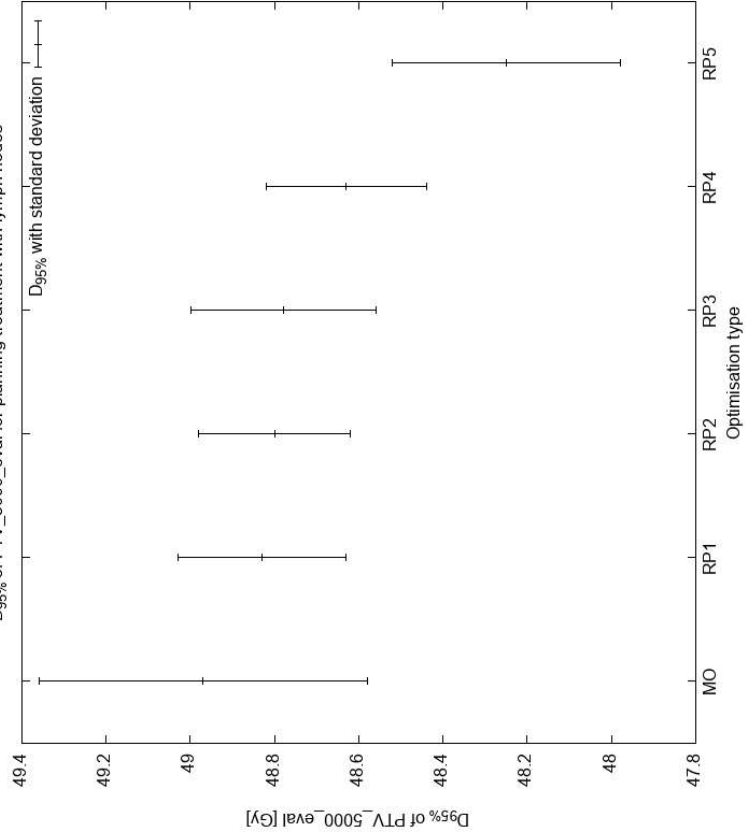
$D_{0.1cc}$ of the PTV_5000_hotspot for planning treatment with lymph nodes



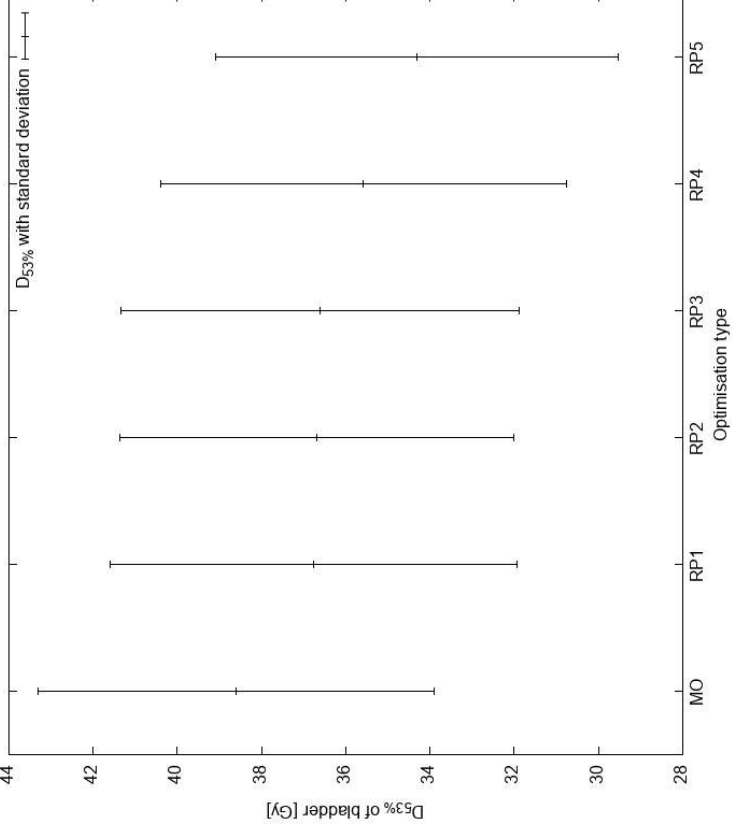
HI of PTV_5000_hotspot for planning treatment with lymph nodes



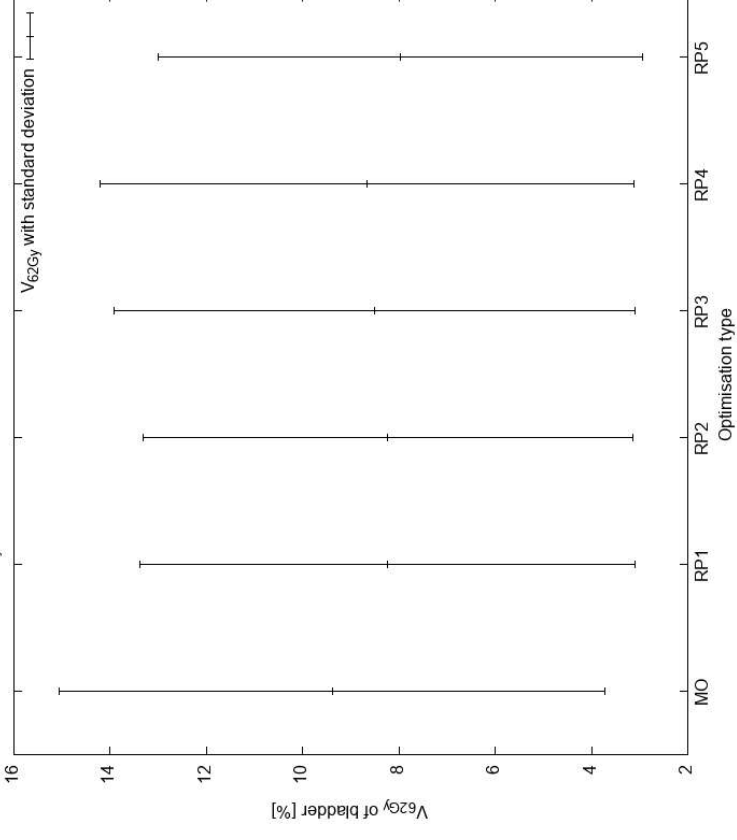
$D_{95\%}$ of PTV_5000_eval for planning treatment with lymph nodes



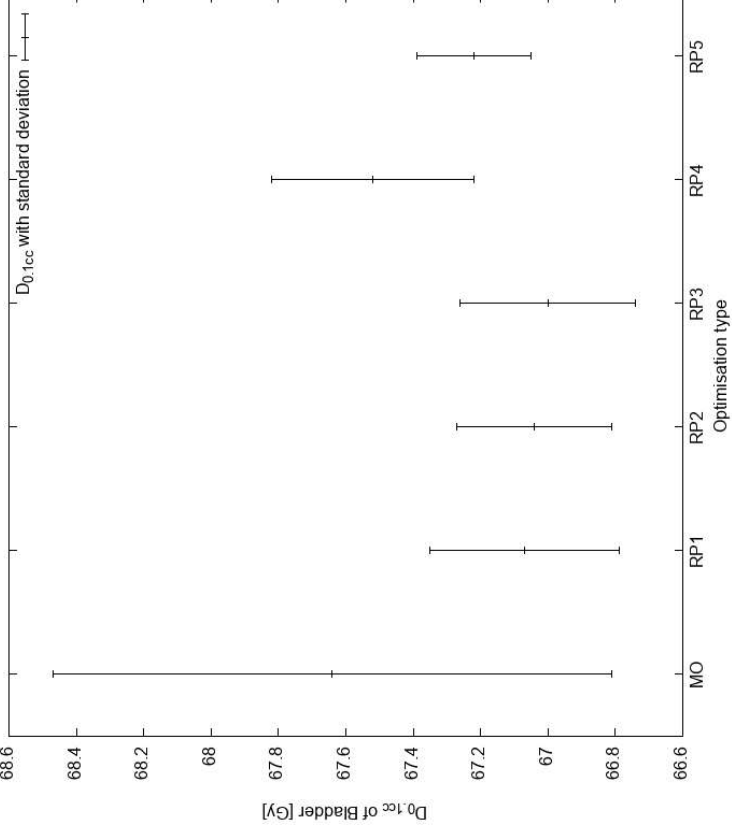
D_{53%} of the bladder for planning treatment with lymph nodes



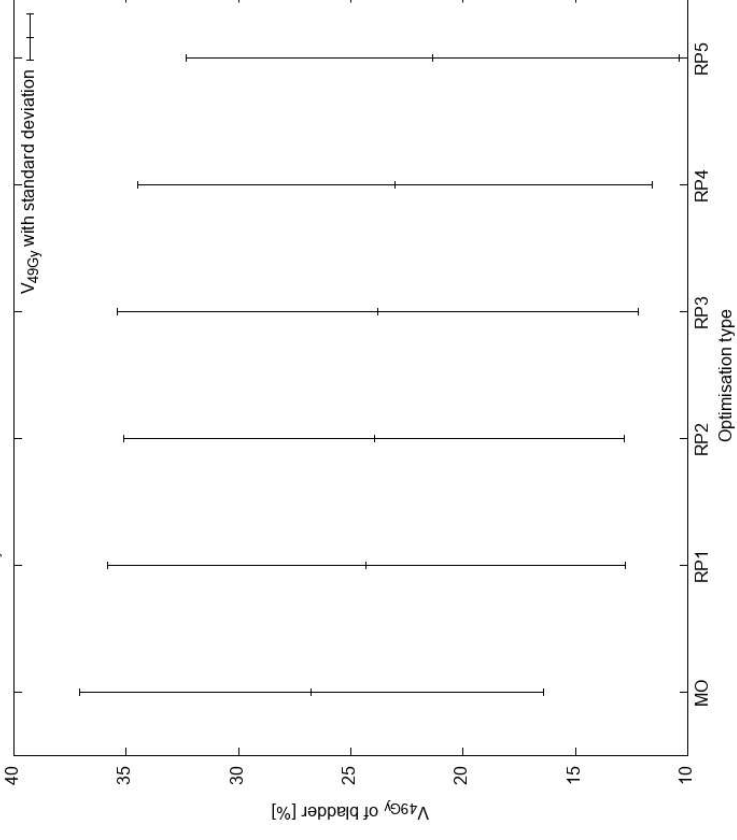
V_{62Gy} of bladder for planning treatment with lymph nodes

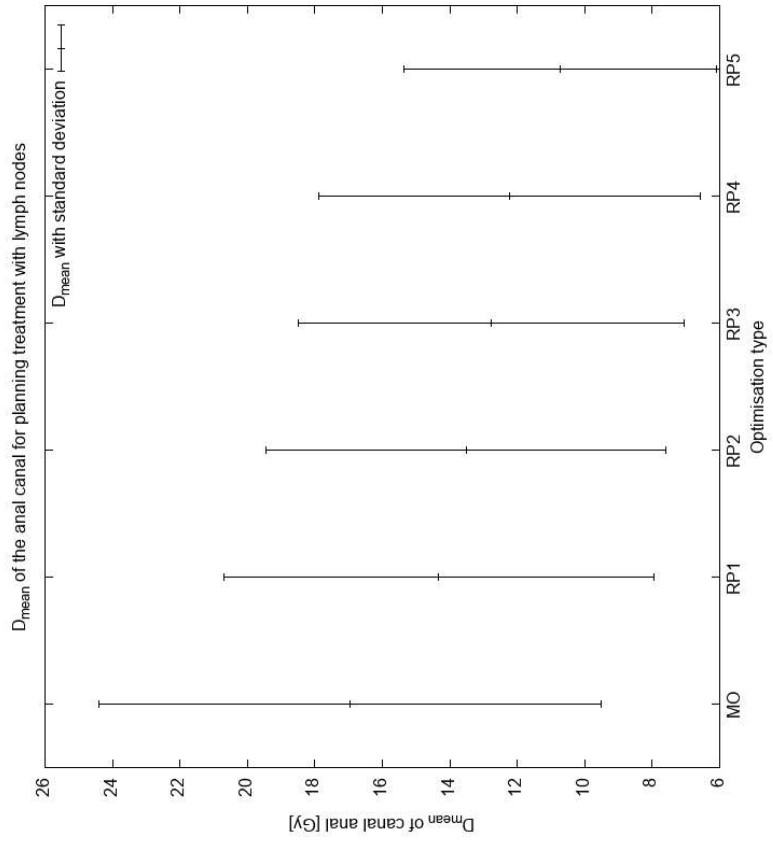


D_{0.1cc} of the bladder for planning treatment with lymph nodes

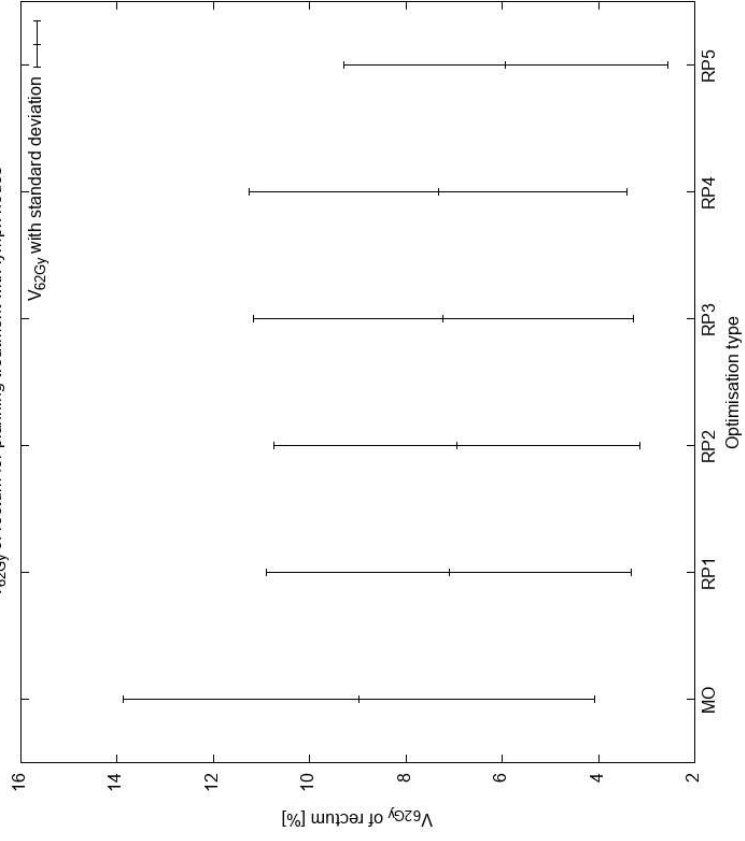


V_{49Gy} of bladder for planning treatment with lymph nodes

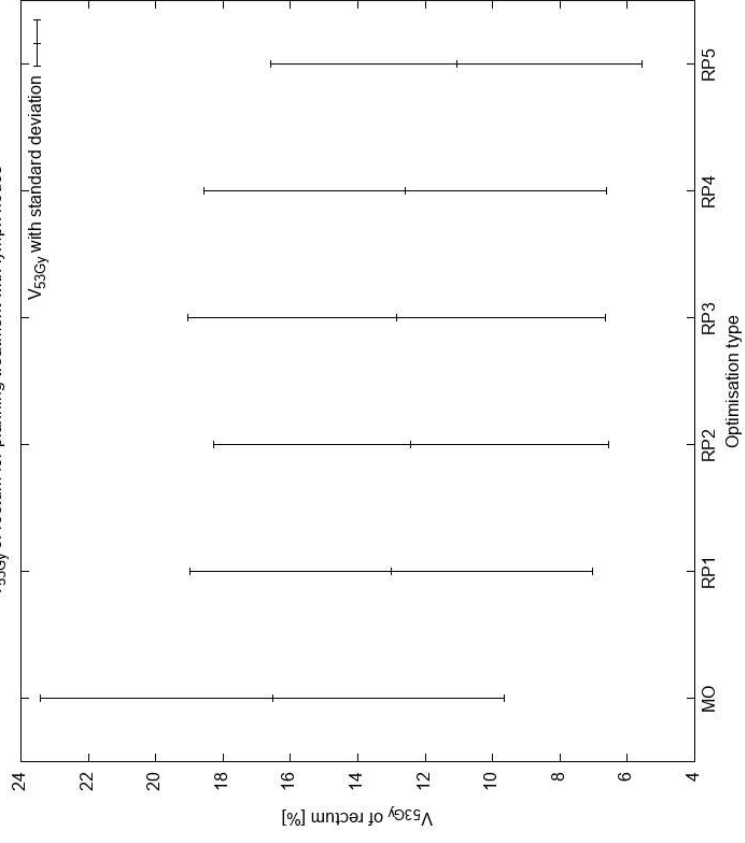




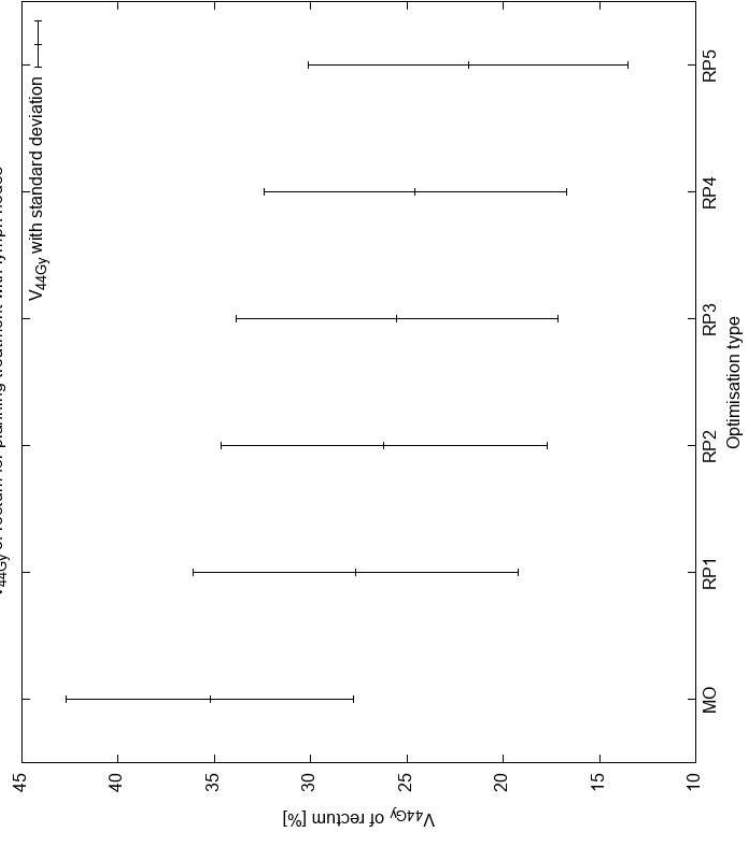
$V_{62\text{Gy}}$ of rectum for planning treatment with lymph nodes



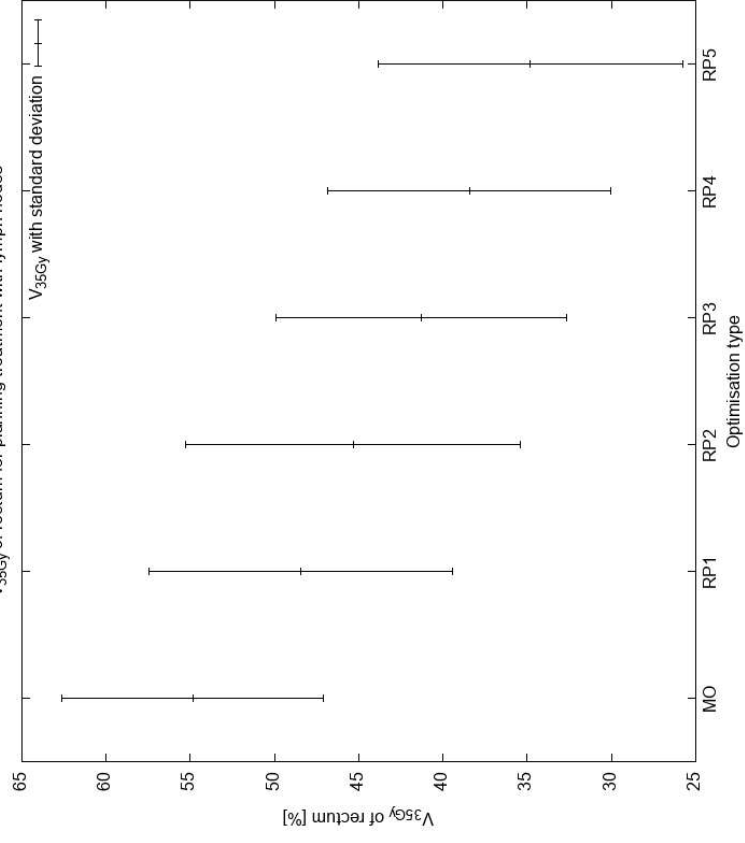
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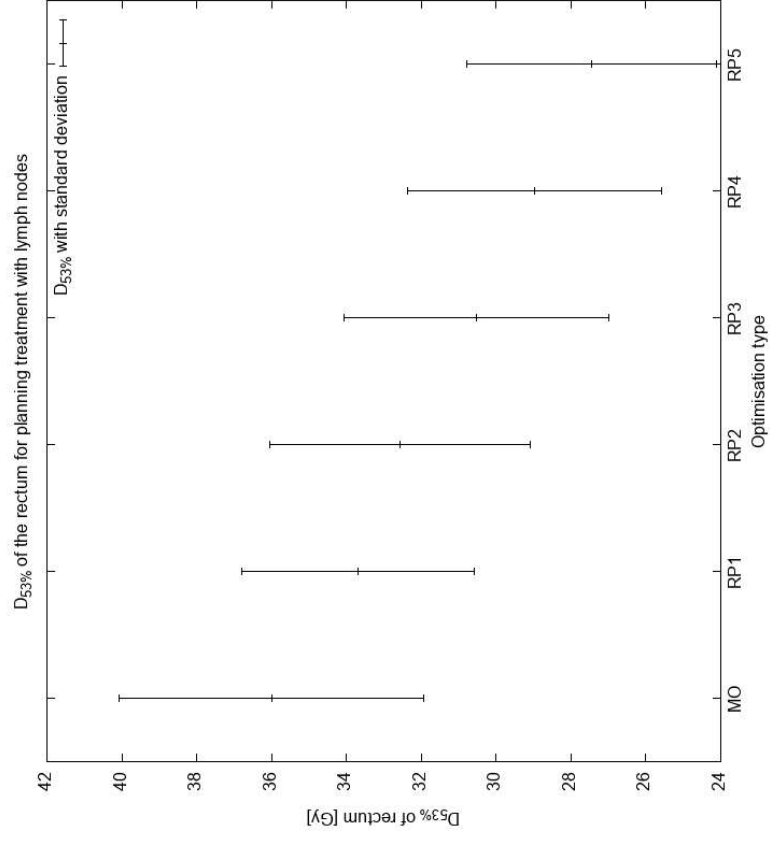
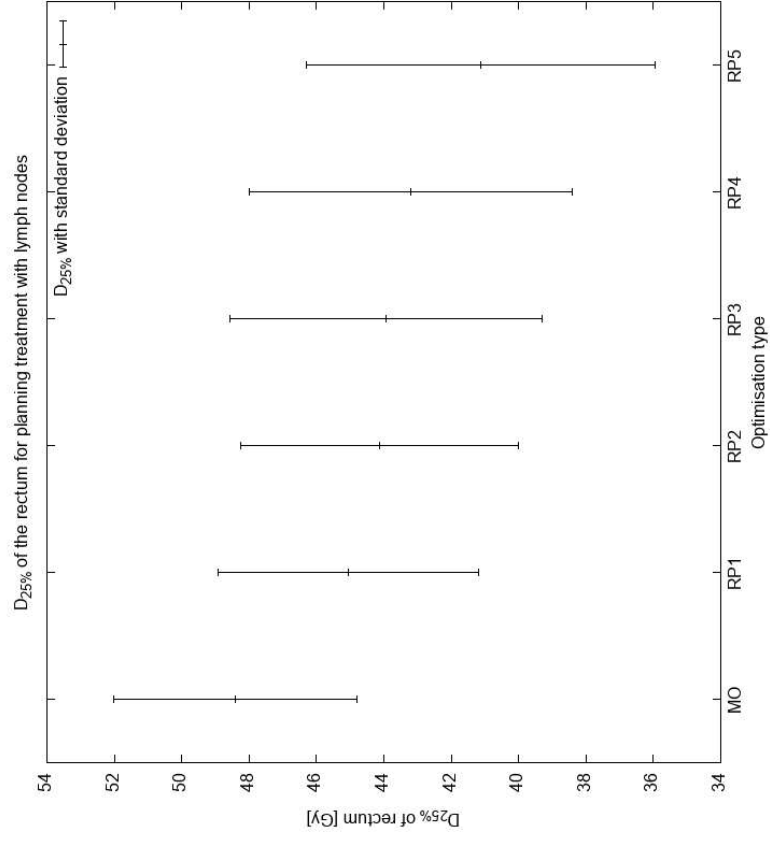
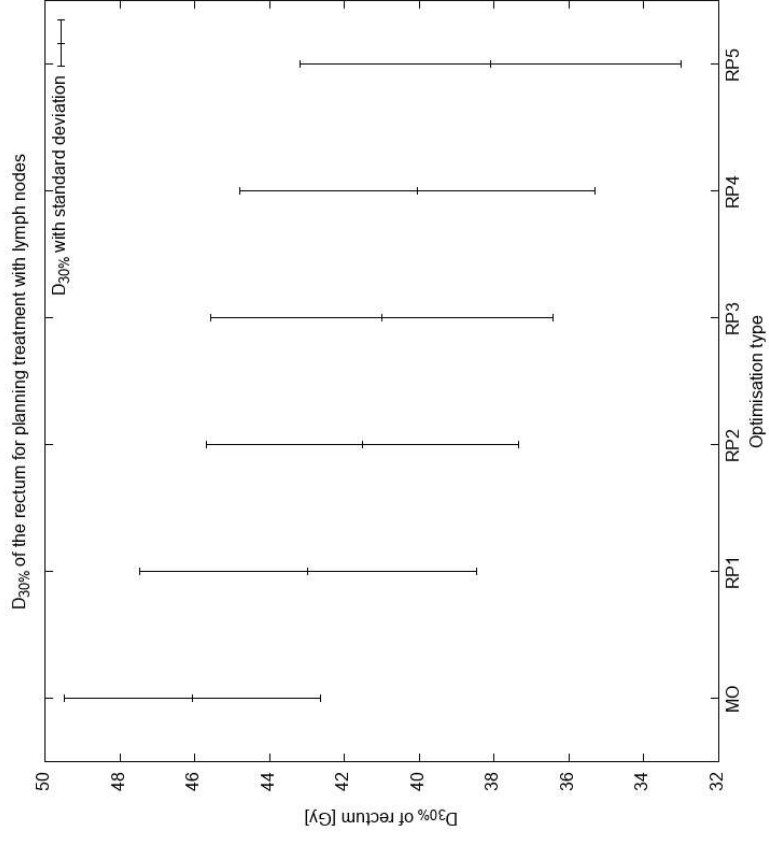
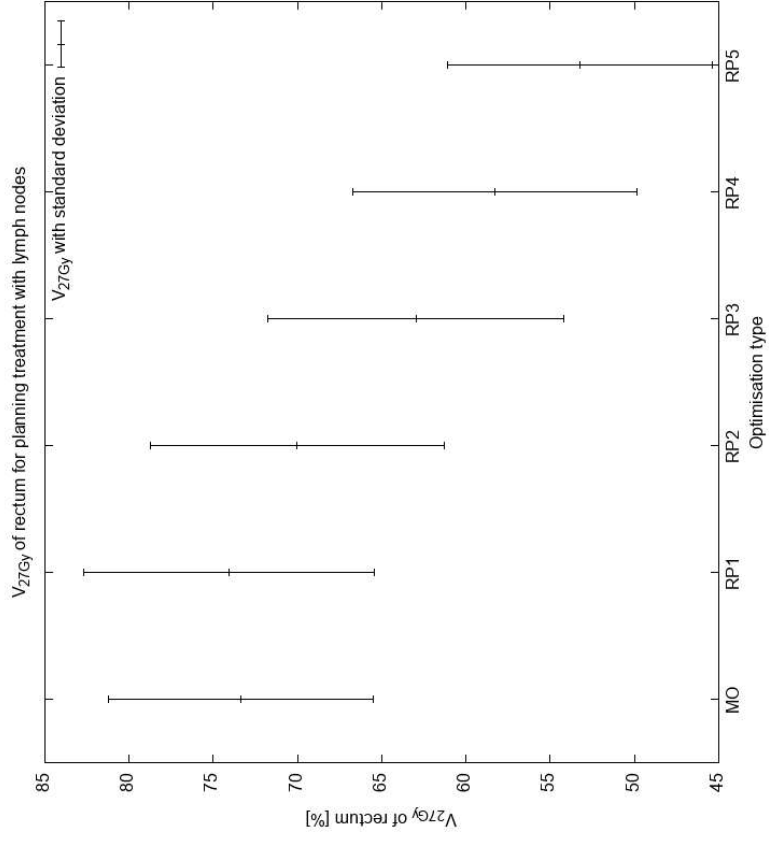


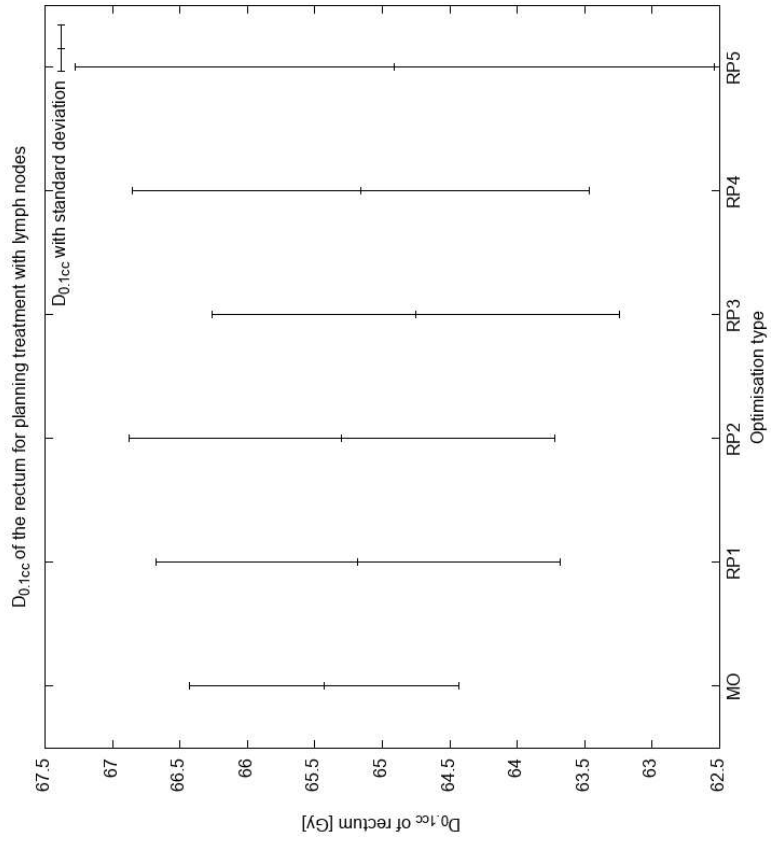
$V_{44\text{Gy}}$ of rectum for planning treatment with lymph nodes



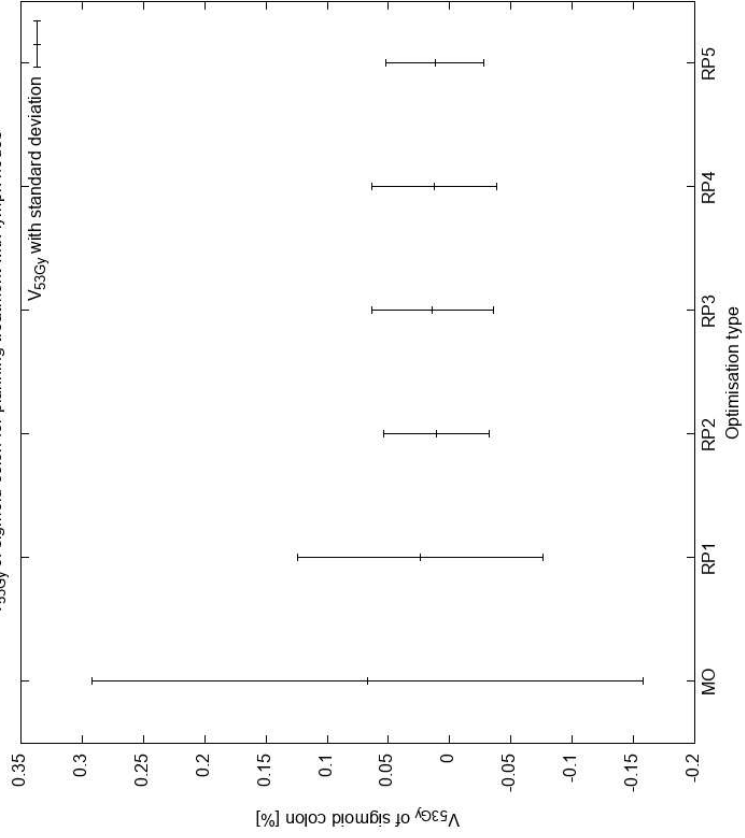
$V_{35\text{Gy}}$ of rectum for planning treatment with lymph nodes



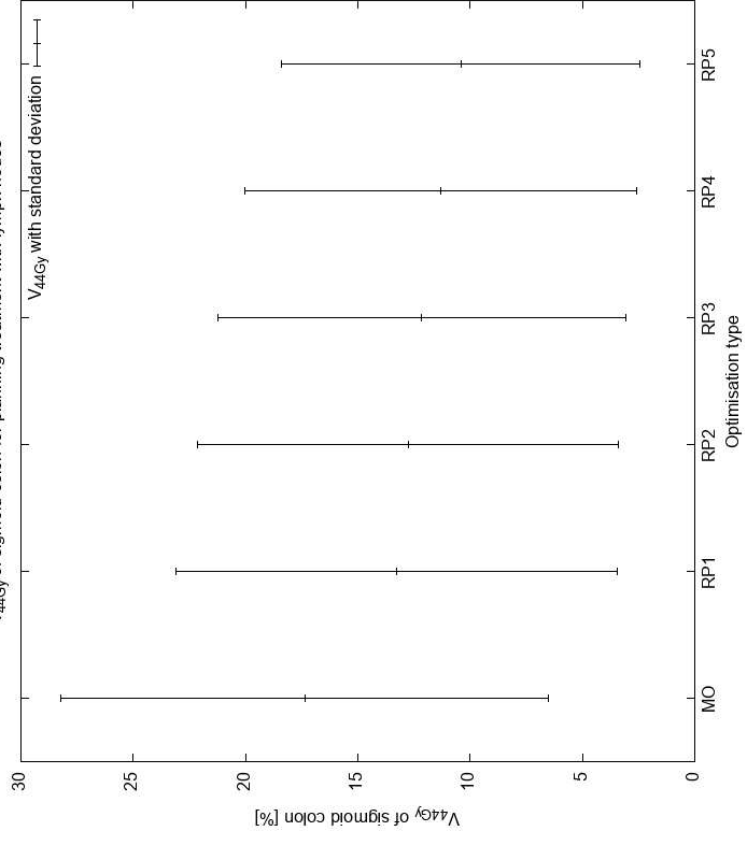




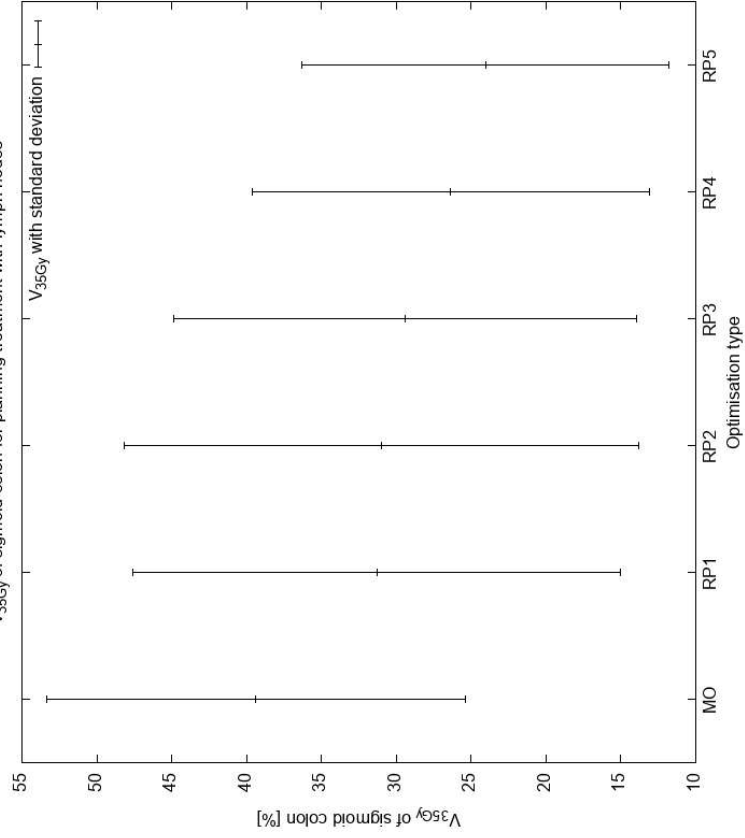
V_{53Gy} of sigmoid colon for planning treatment with lymph nodes



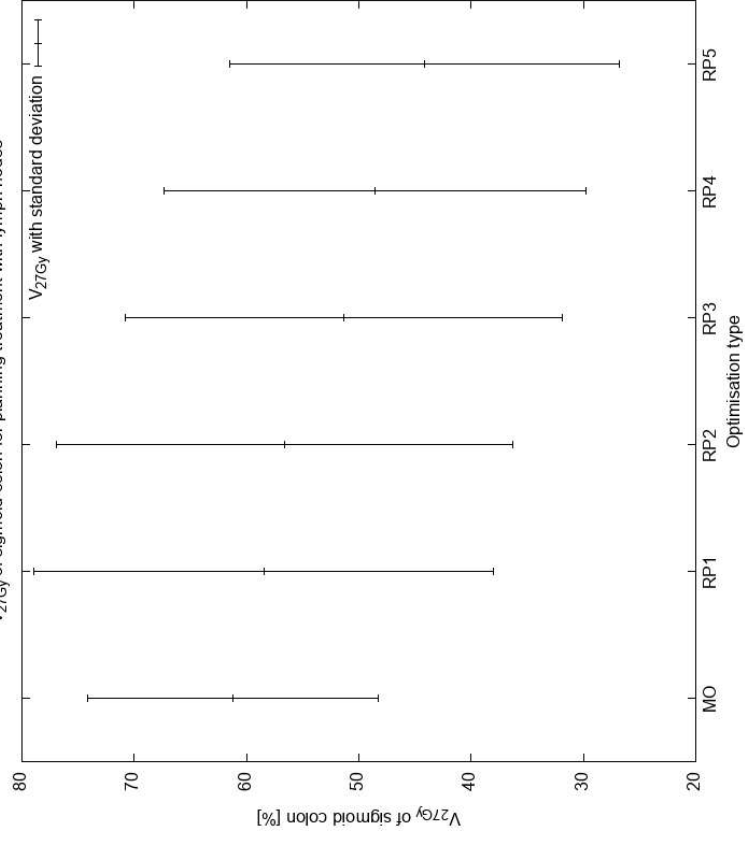
V_{44Gy} of sigmoid colon for planning treatment with lymph nodes

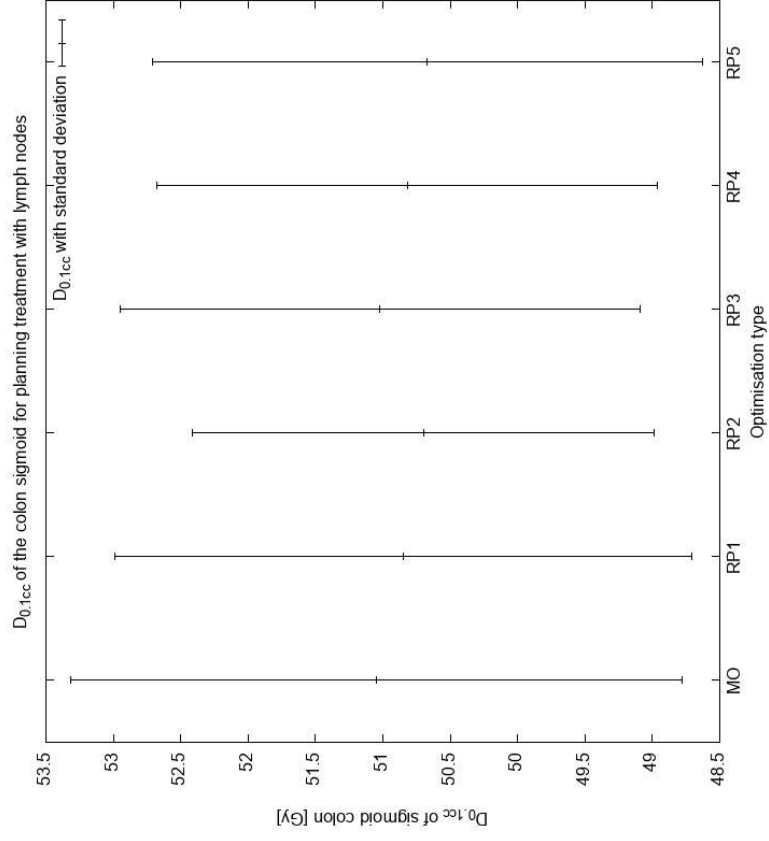
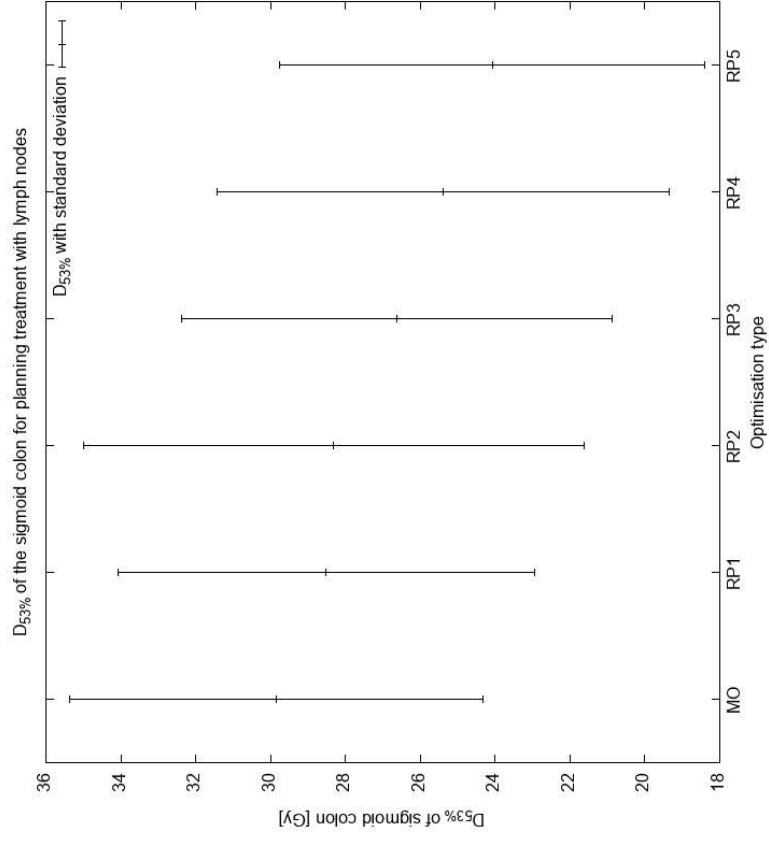
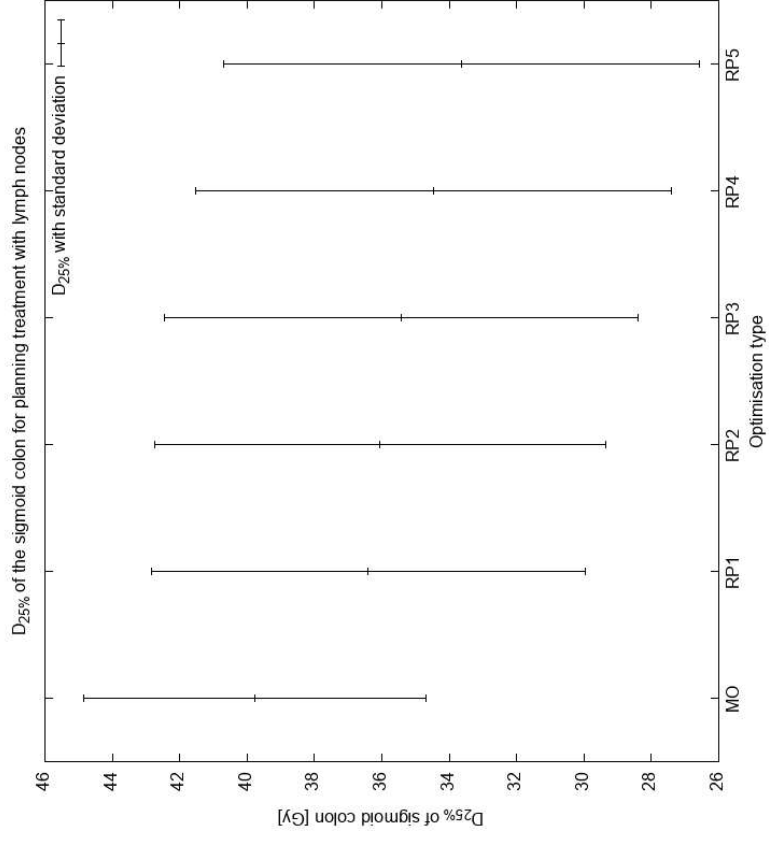
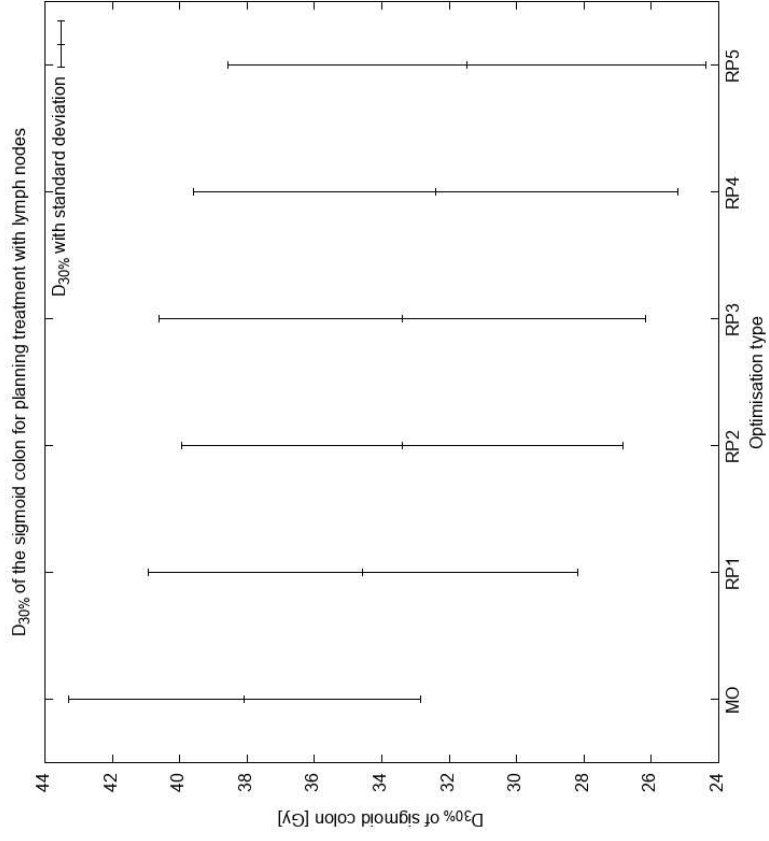


V_{35Gy} of sigmoid colon for planning treatment with lymph nodes

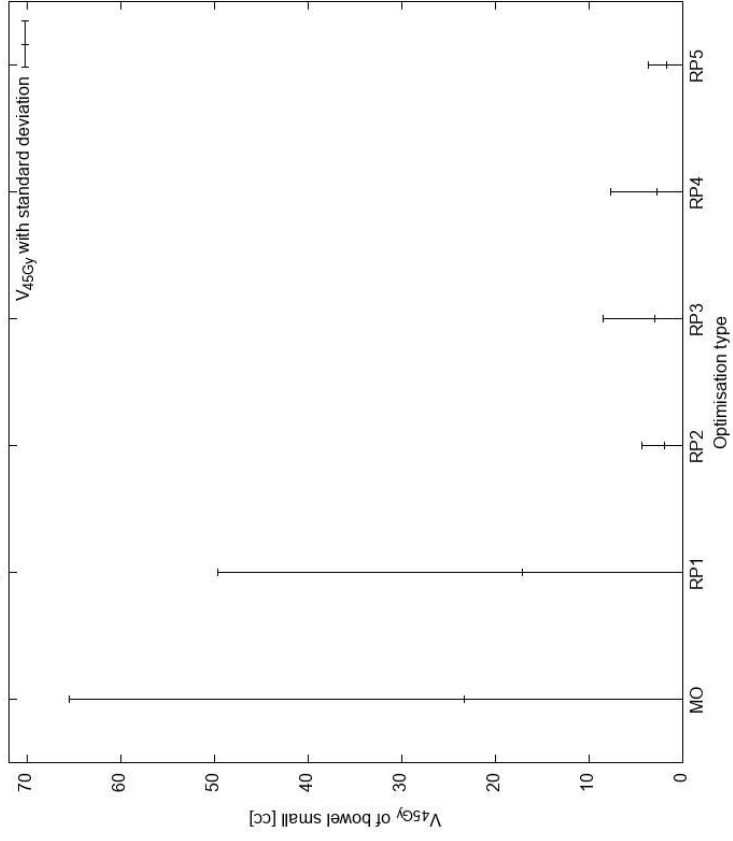


V_{27Gy} of sigmoid colon for planning treatment with lymph nodes

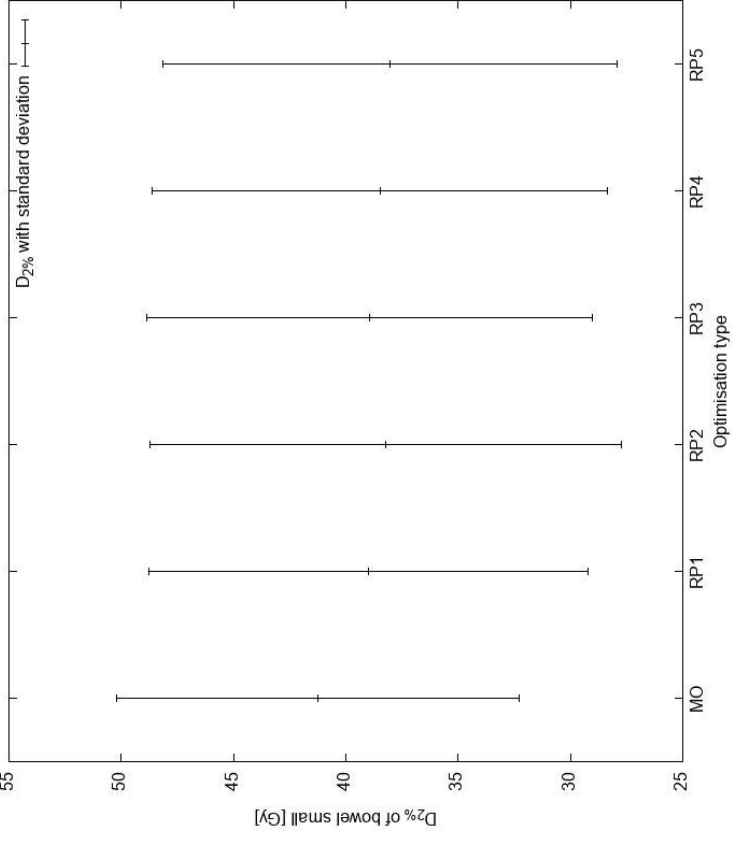




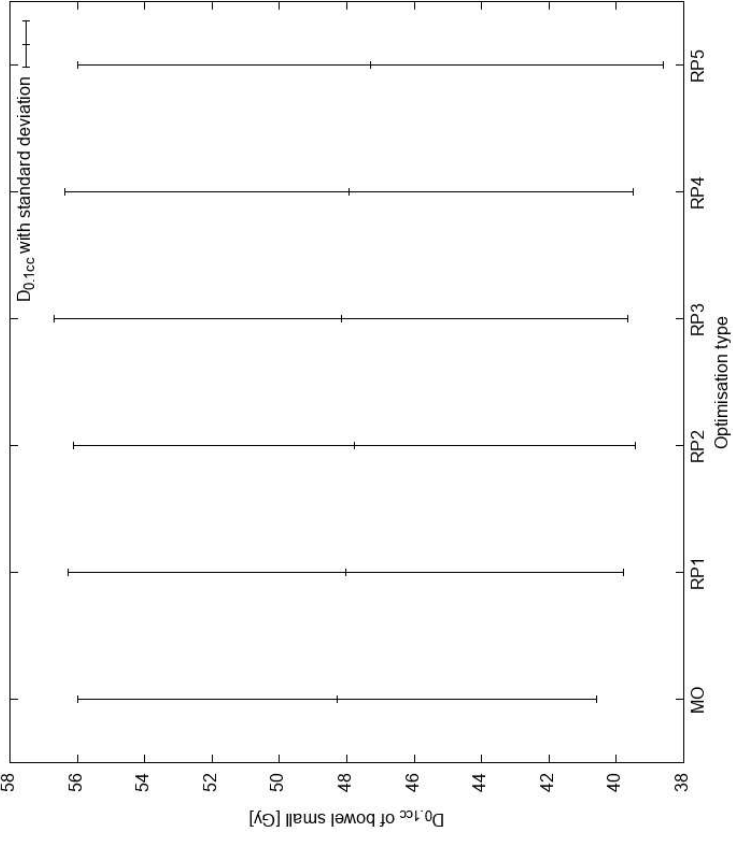
V_{45Gy} of bowel small for planning treatment with lymph nodes



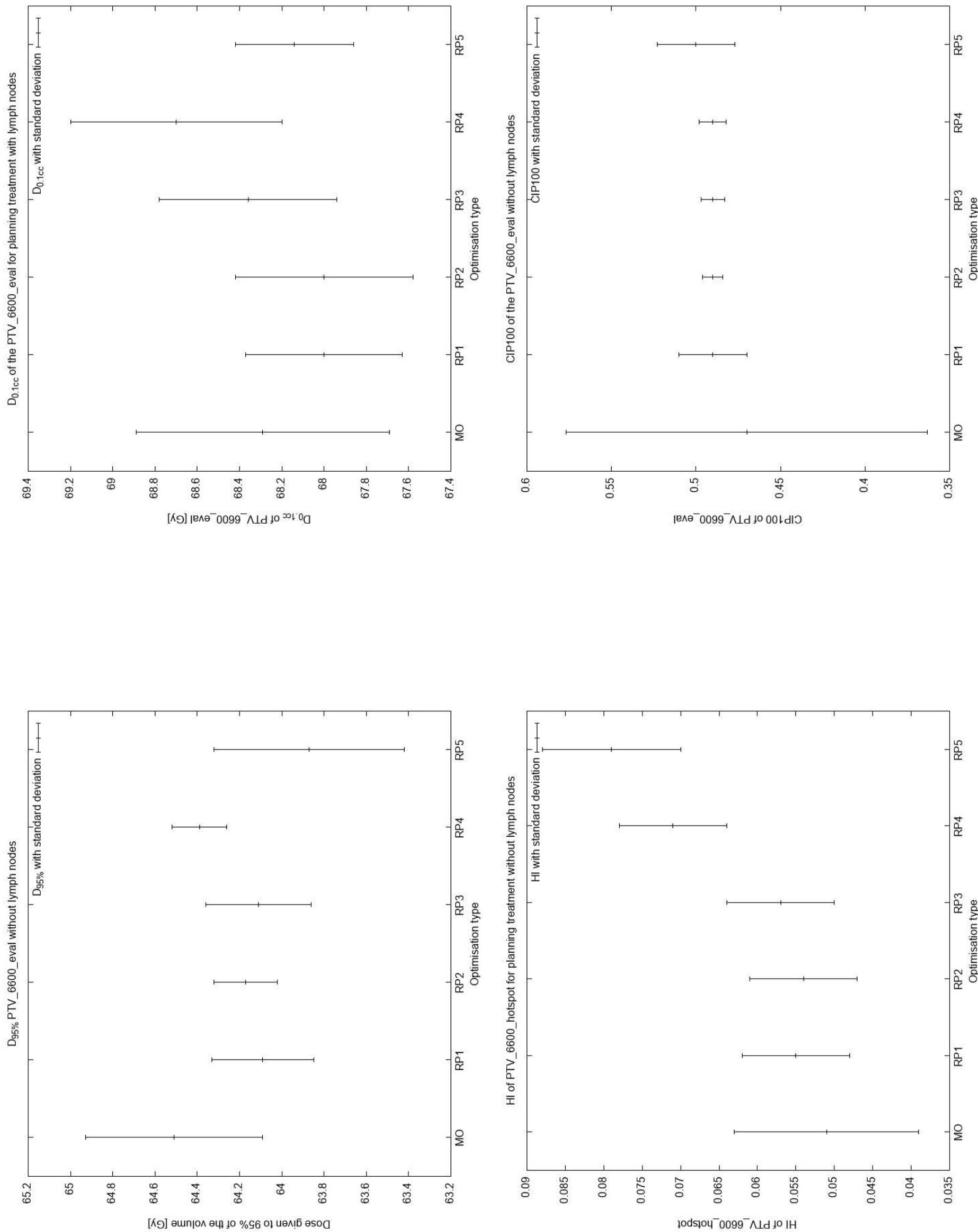
$D_{2\%}$ of the bowel small for planning treatment with lymph nodes

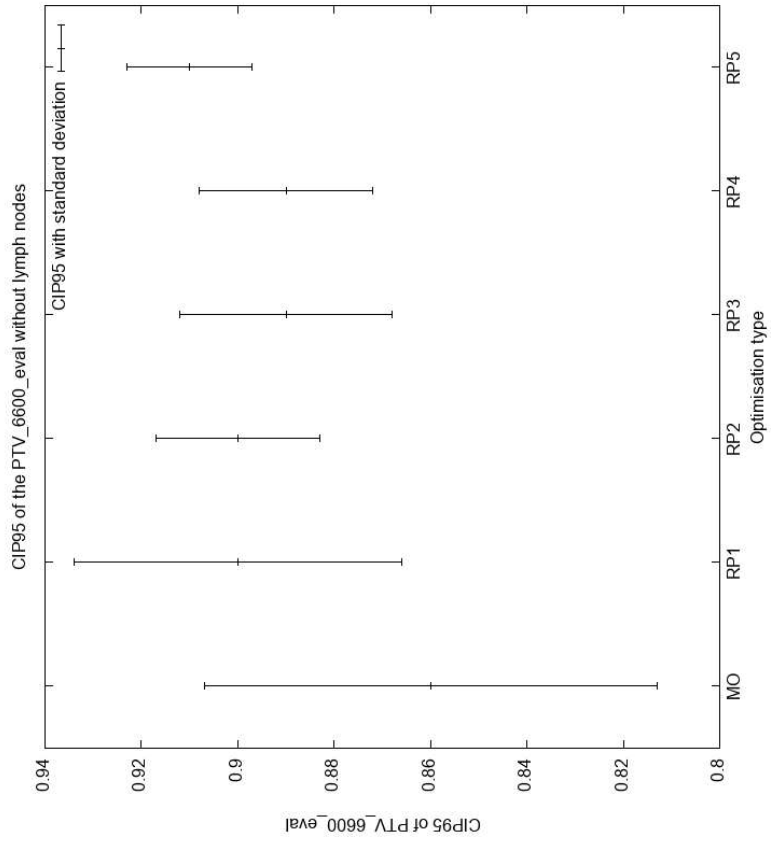


$D_{0.1cc}$ of the bowel small for planning treatment with lymph nodes

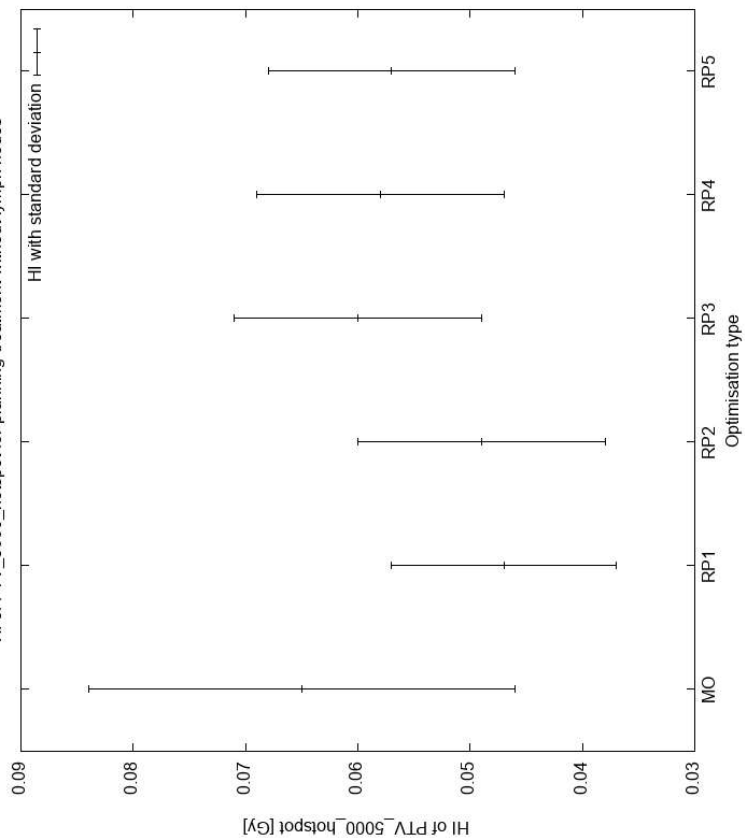


Implementation planification treatment without lymph nodes

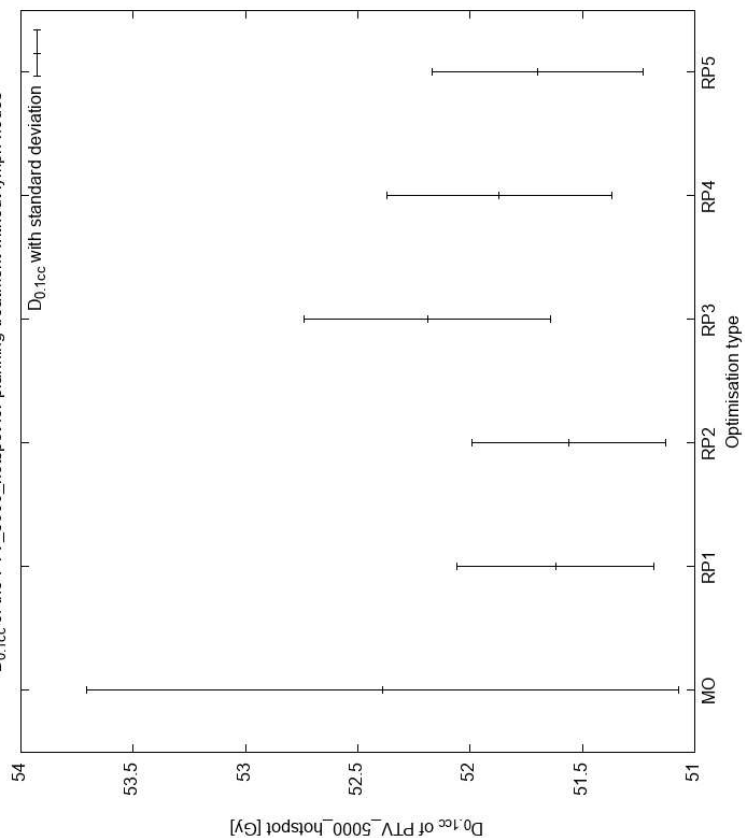




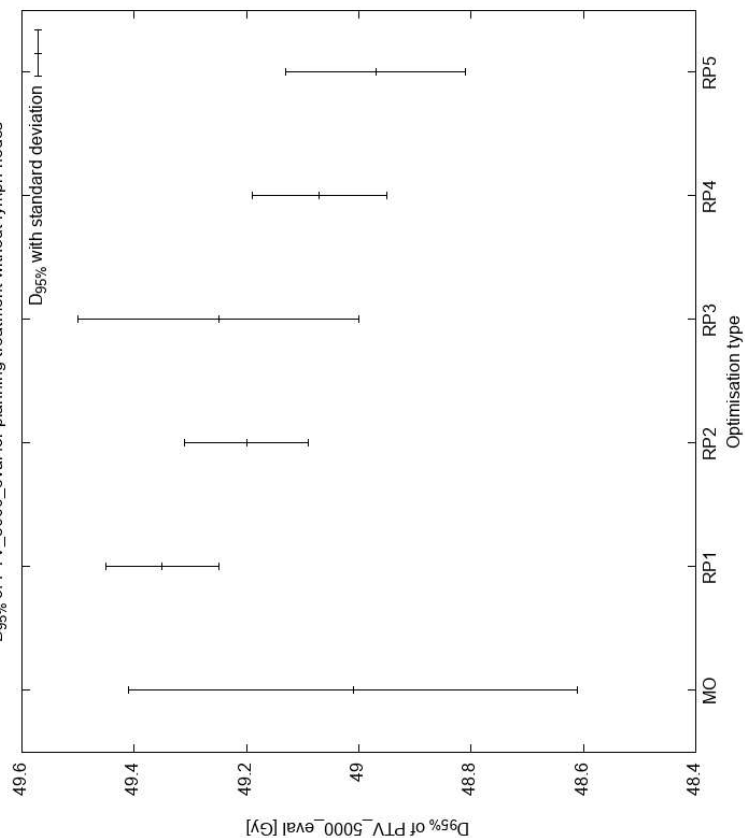
HI of PTV_5000_hotspot for planning treatment without lymph nodes



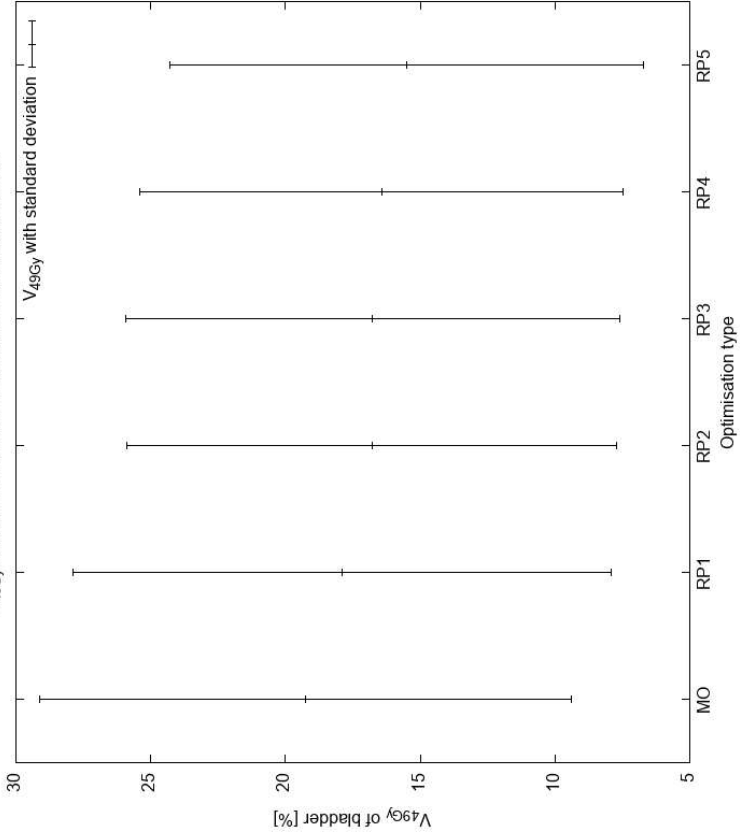
D_{0.1cc} of the PTV_5000_hotspot for planning treatment without lymph nodes



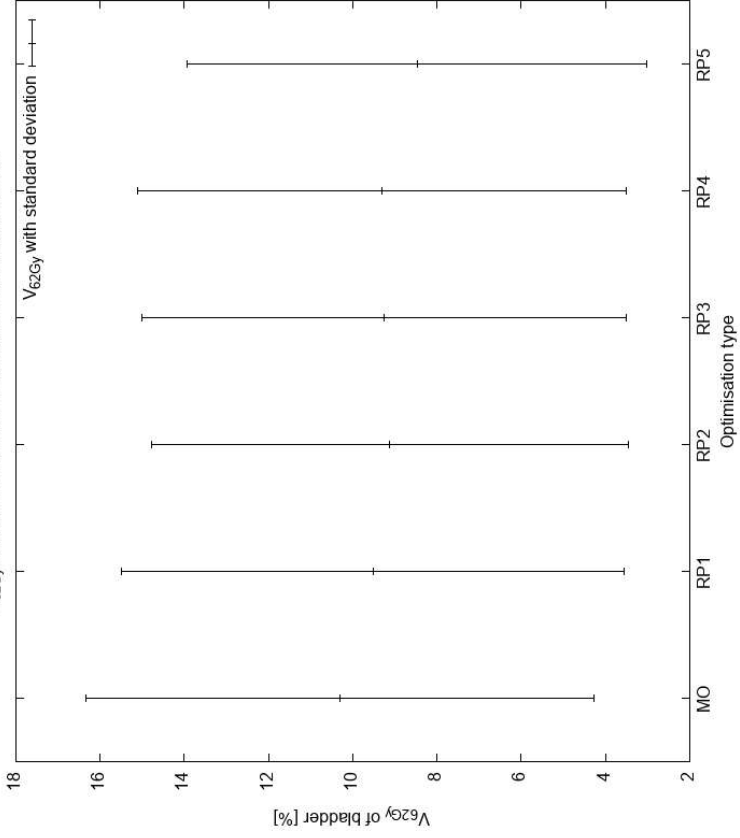
D_{95%} of PTV_5000_eval for planning treatment without lymph nodes



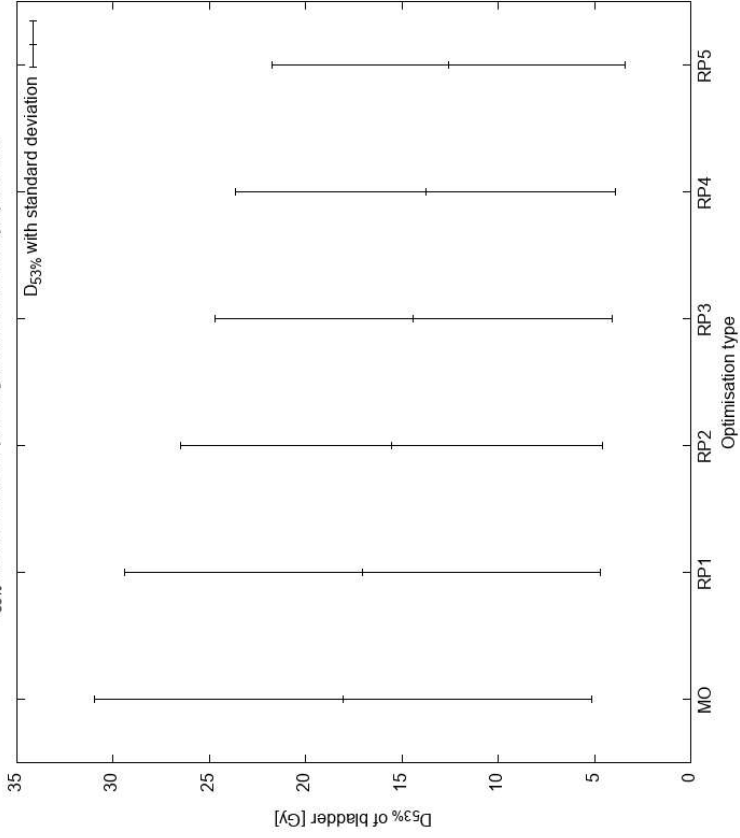
V_{49Gy} of bladder for planning treatment without lymph nodes



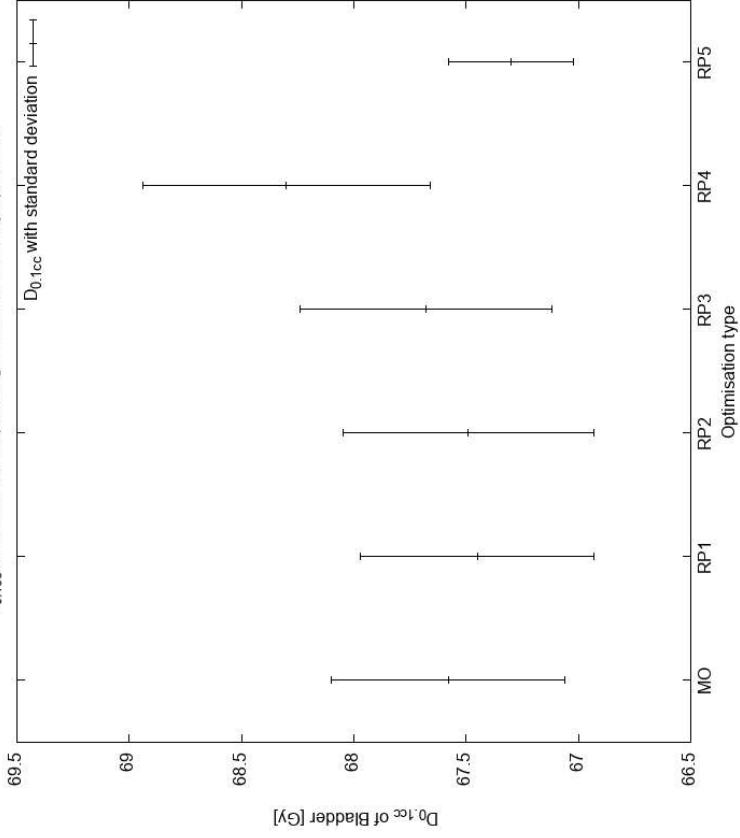
V_{62Gy} of bladder for planning treatment without lymph nodes

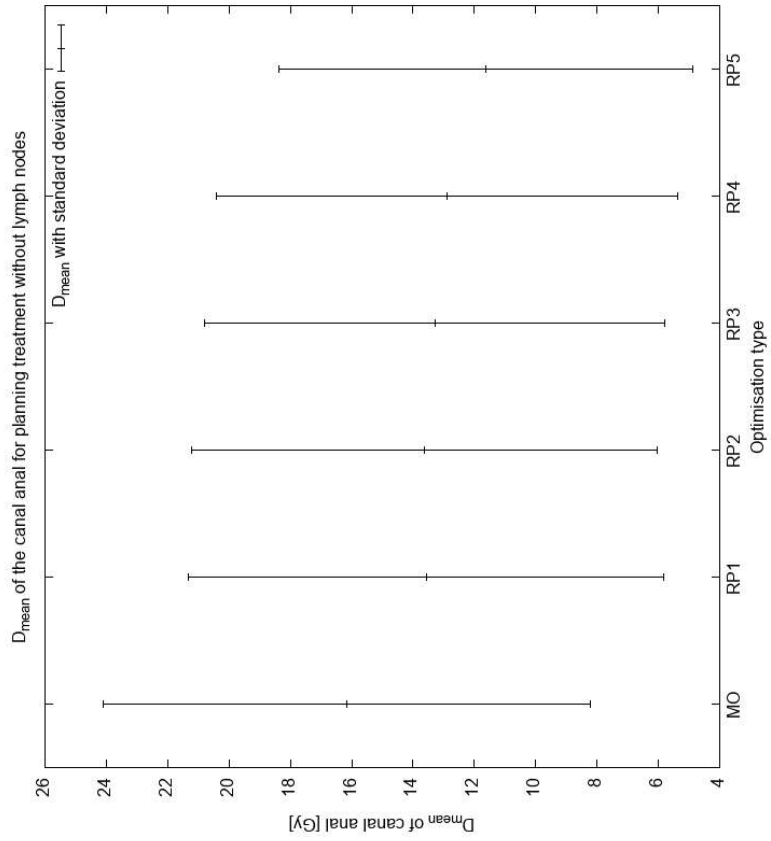


$D_{53\%}$ of the bladder for planning treatment without lymph nodes

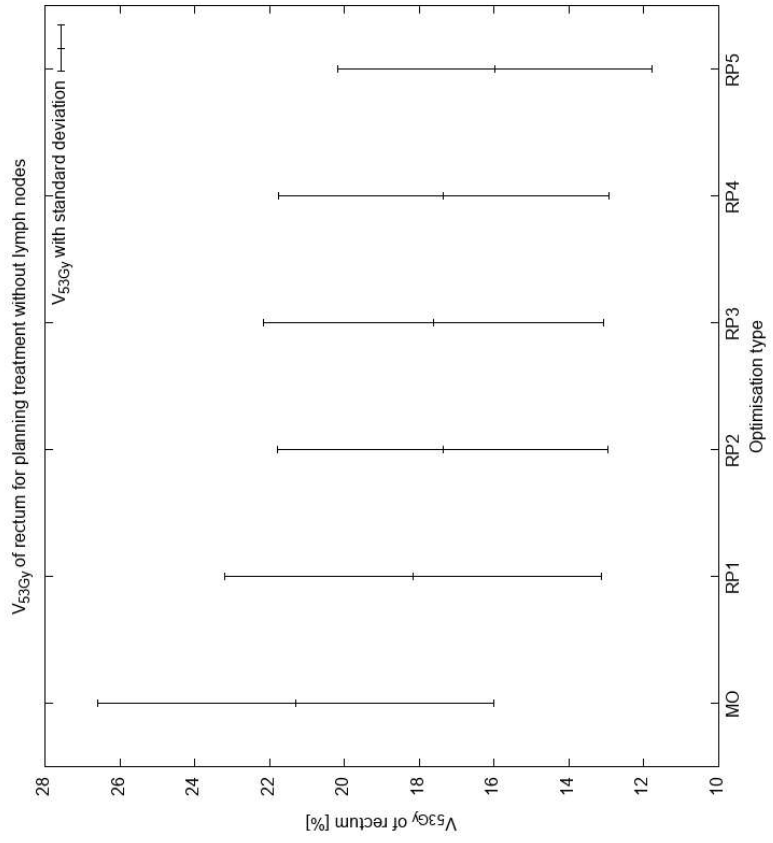


$D_{0.1cc}$ of the bladder for planning treatment without lymph nodes

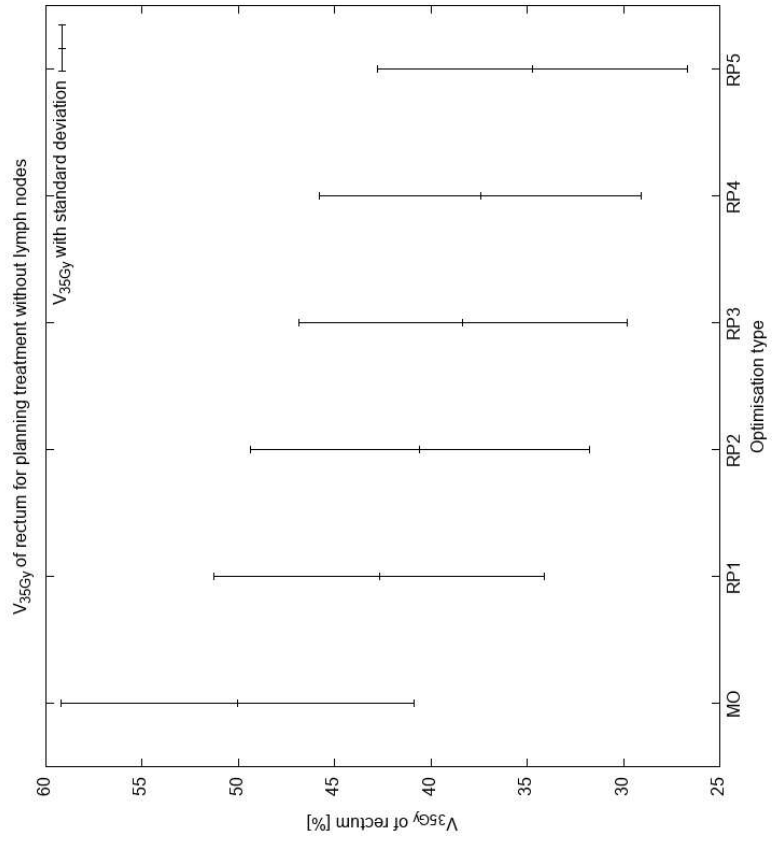




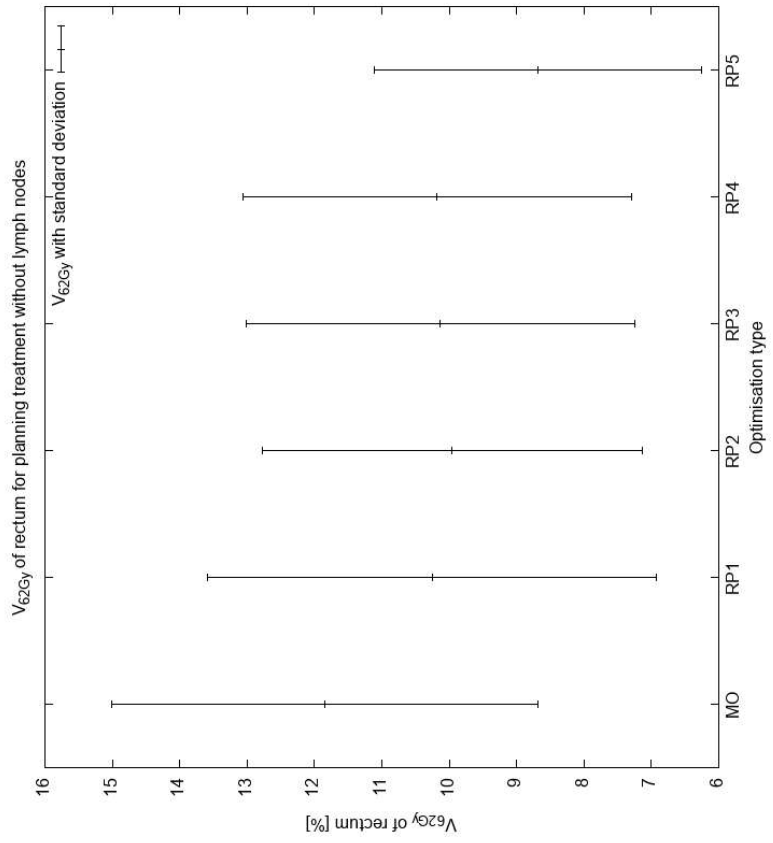
V_{53Gy} of rectum for planning treatment without lymph nodes



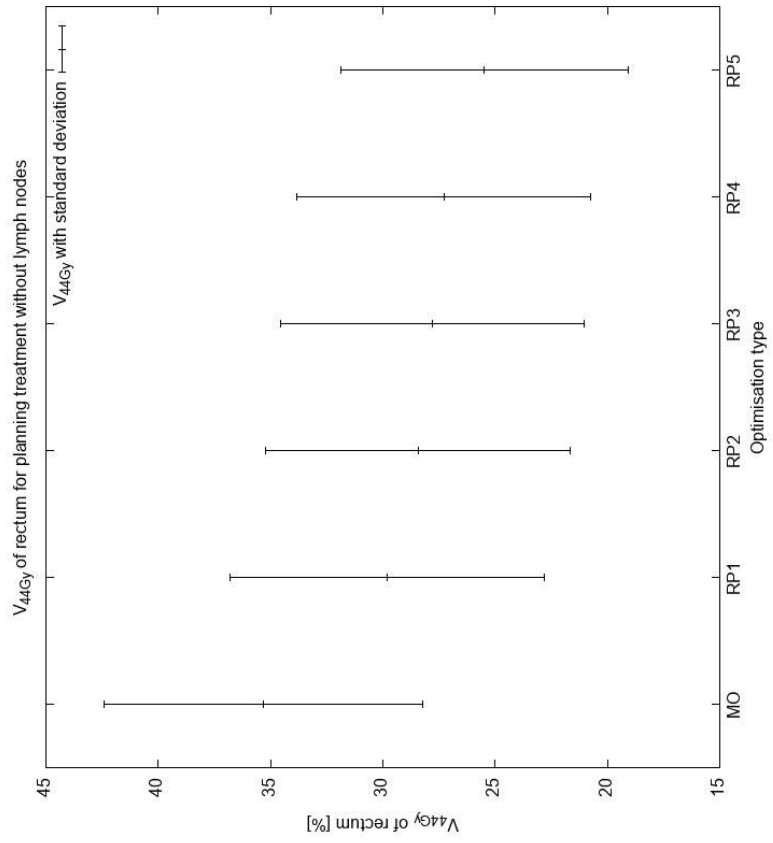
V_{35Gy} of rectum for planning treatment without lymph nodes



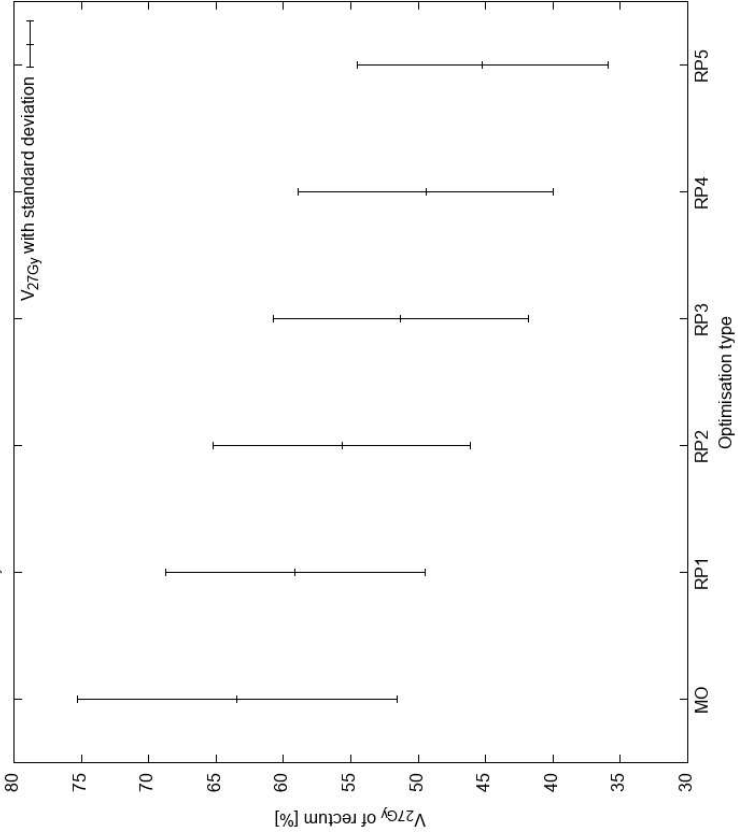
V_{62Gy} of rectum for planning treatment without lymph nodes



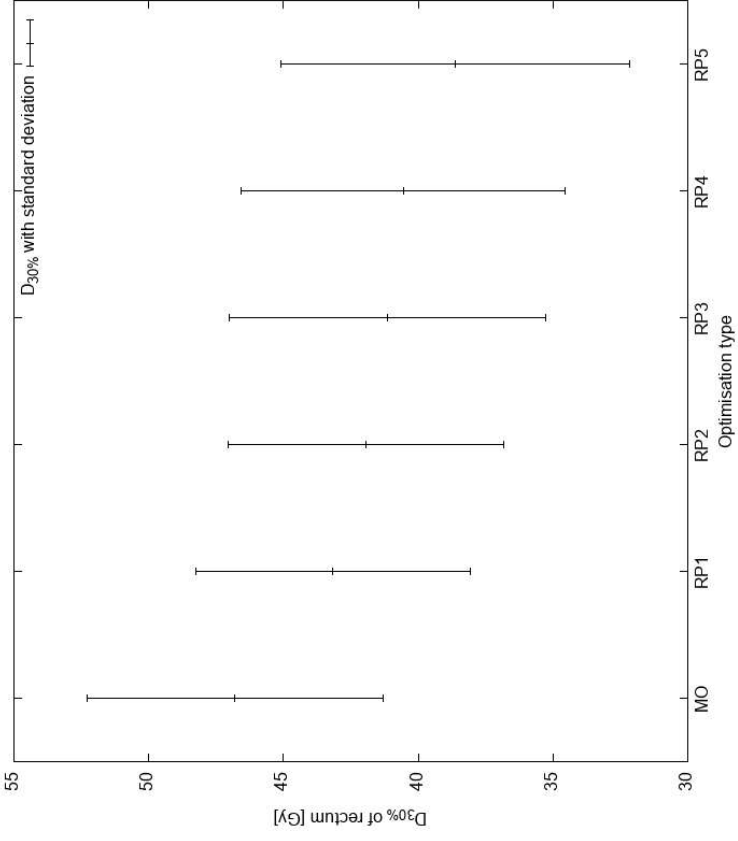
V_{44Gy} of rectum for planning treatment without lymph nodes



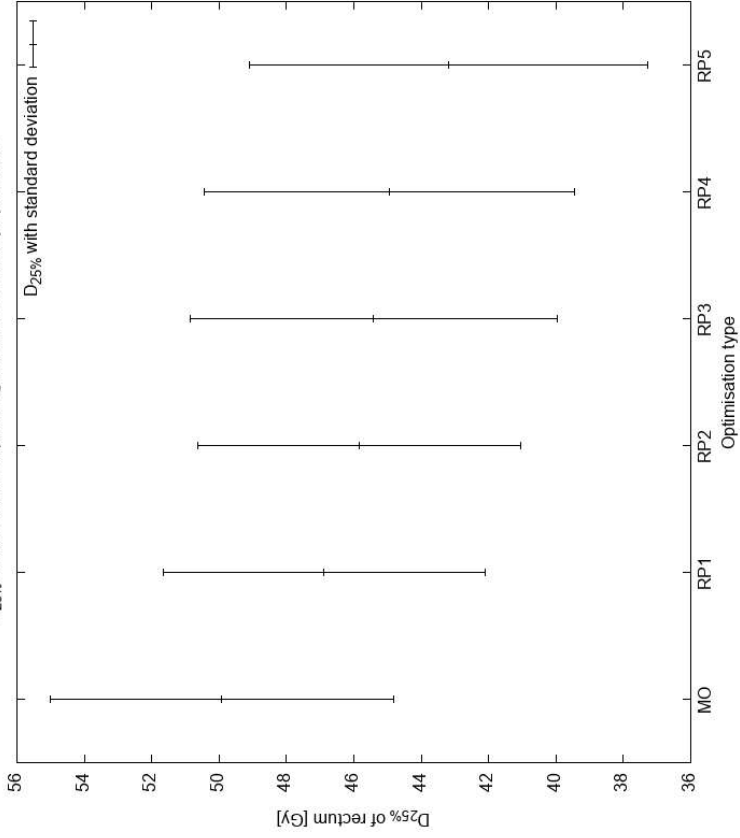
V_{27Gy} of rectum for planning treatment without lymph nodes



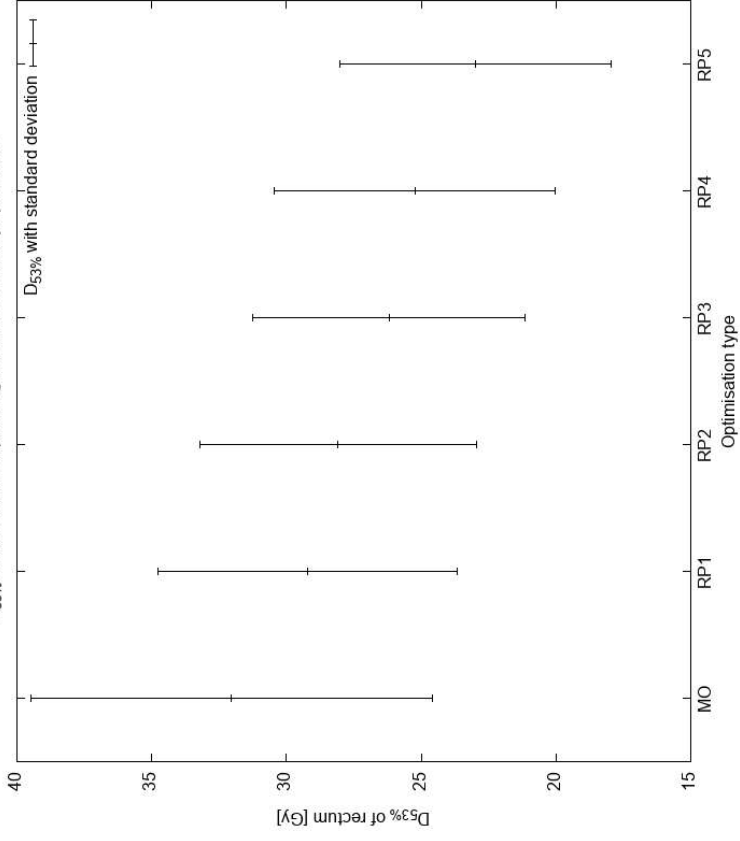
$D_{30\%}$ of the rectum for planning treatment without lymph nodes

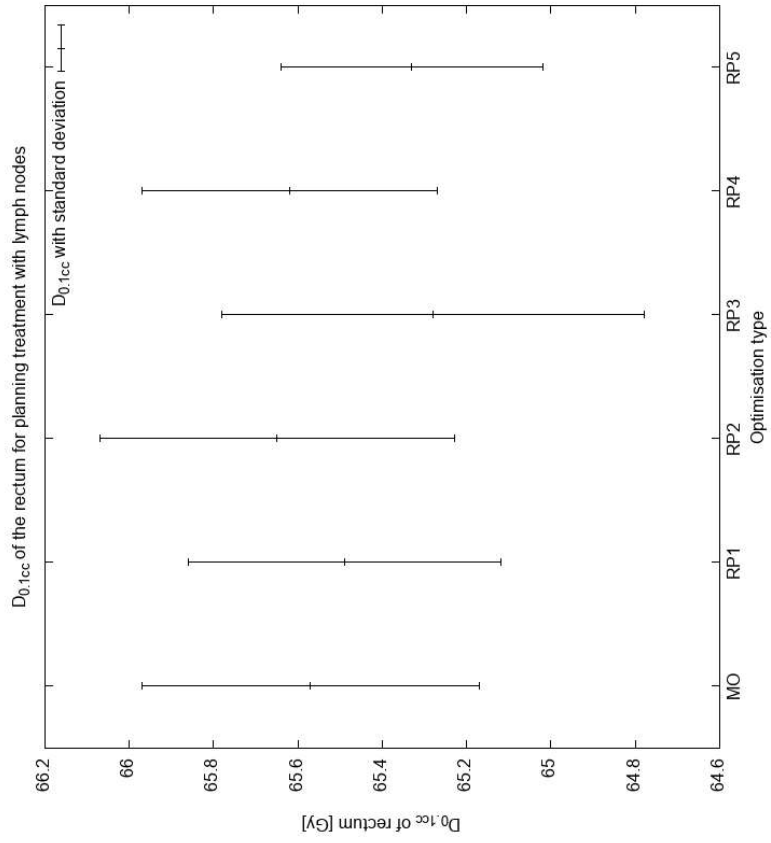


$D_{25\%}$ of the rectum for planning treatment without lymph nodes

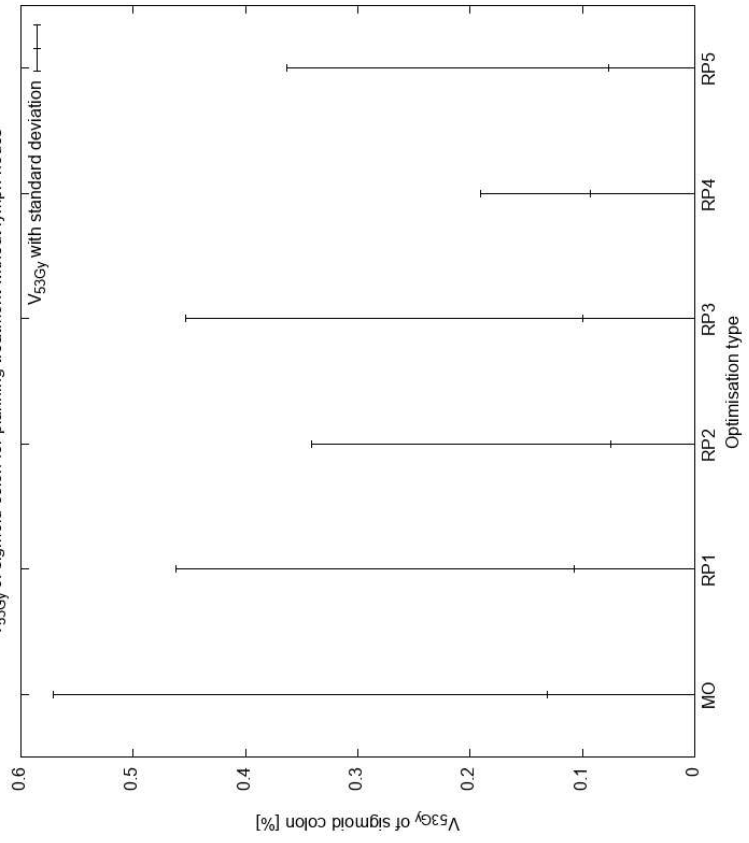


$D_{53\%}$ of the rectum for planning treatment without lymph nodes

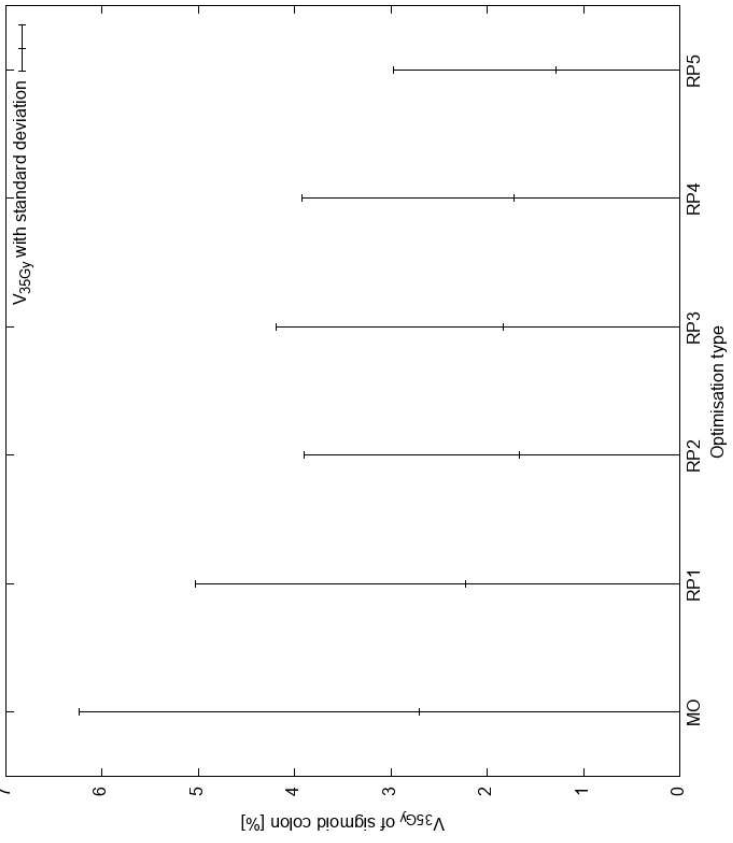




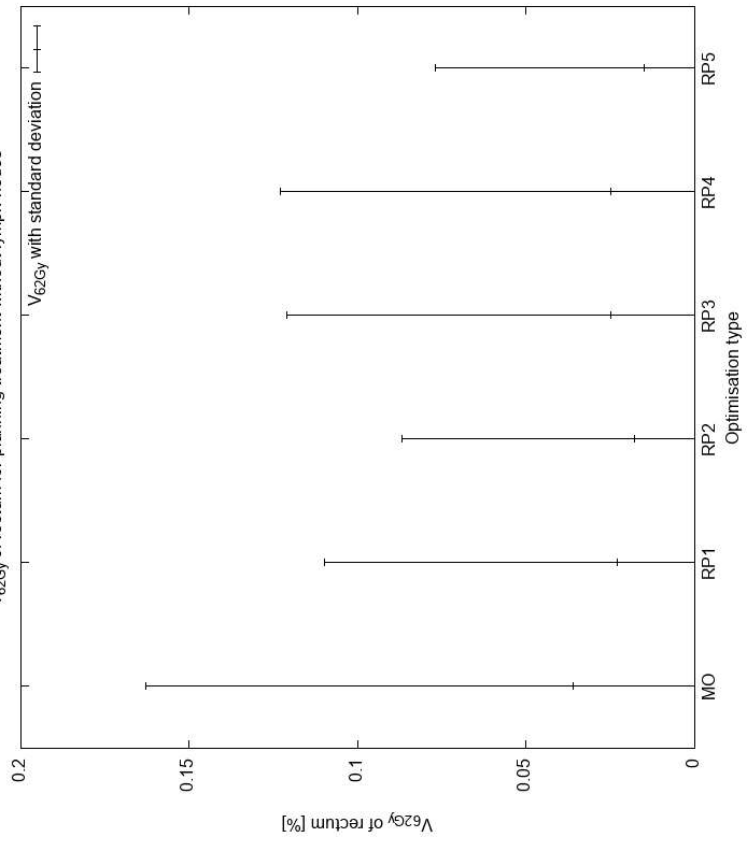
$V_{53\text{Gy}}$ of sigmoid colon for planning treatment without lymph nodes



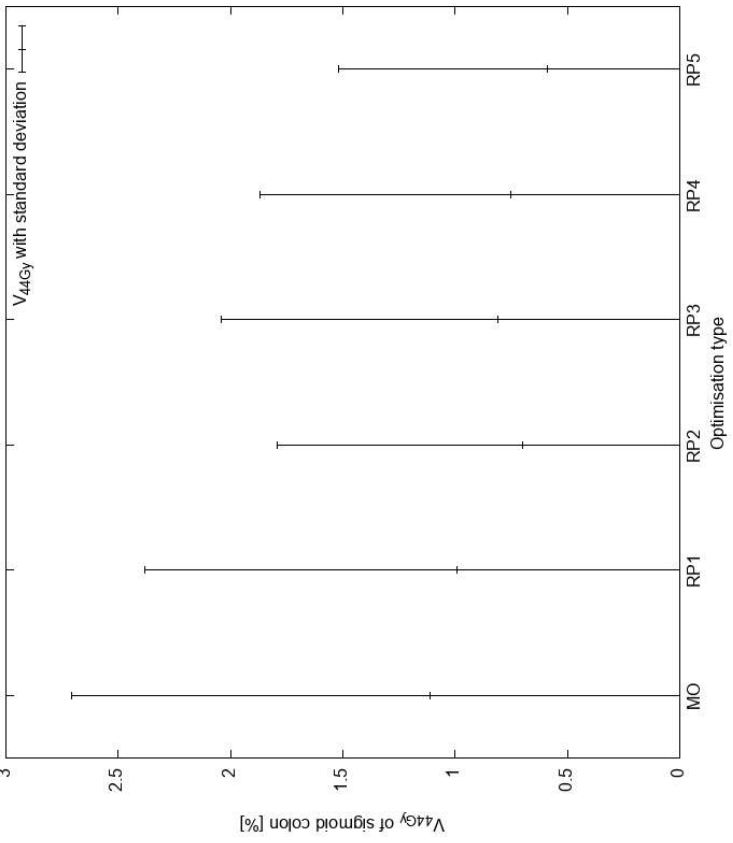
$V_{35\text{Gy}}$ of sigmoid colon for planning treatment without lymph nodes



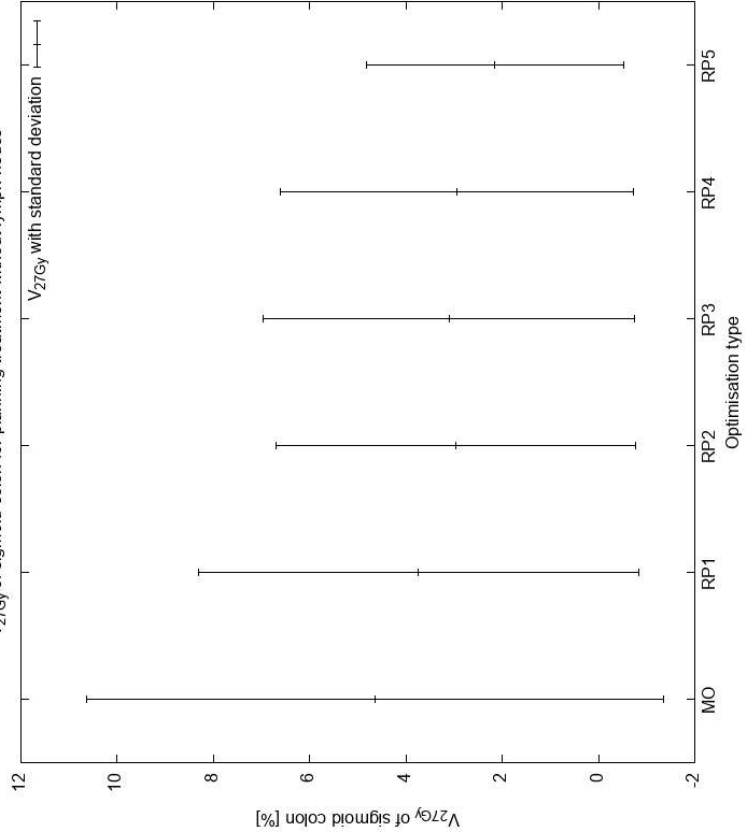
$V_{62\text{Gy}}$ of rectum for planning treatment without lymph nodes



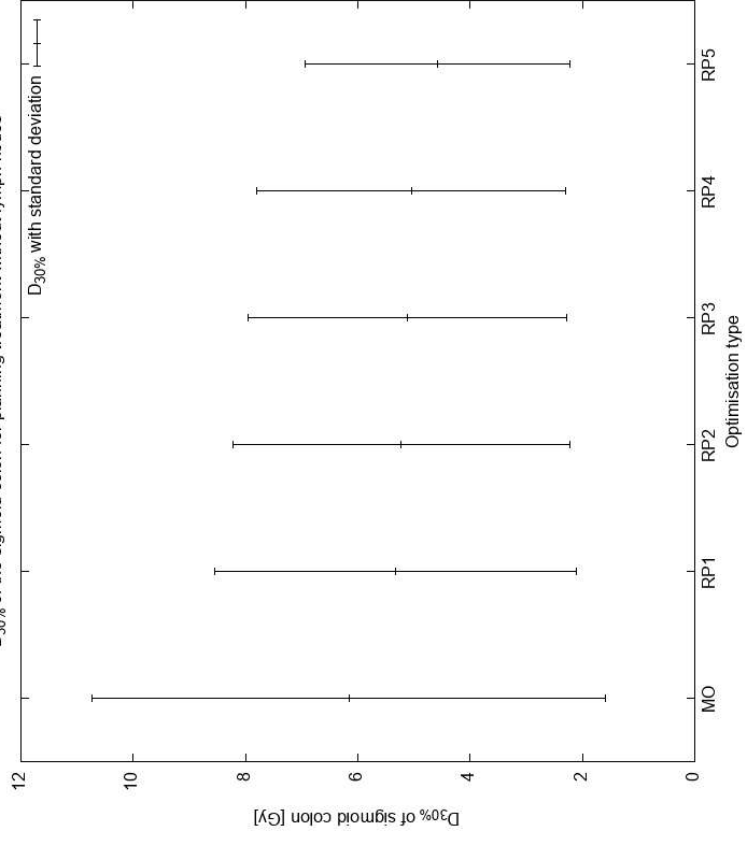
$V_{44\text{Gy}}$ of sigmoid colon for planning treatment without lymph nodes



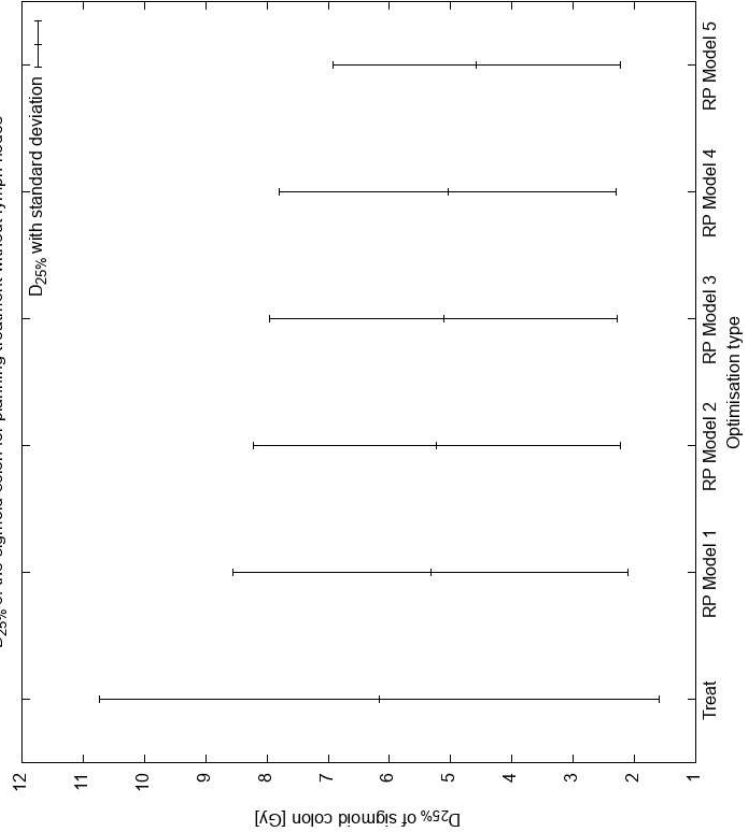
V_{27Gy} of sigmoid colon for planning treatment without lymph nodes



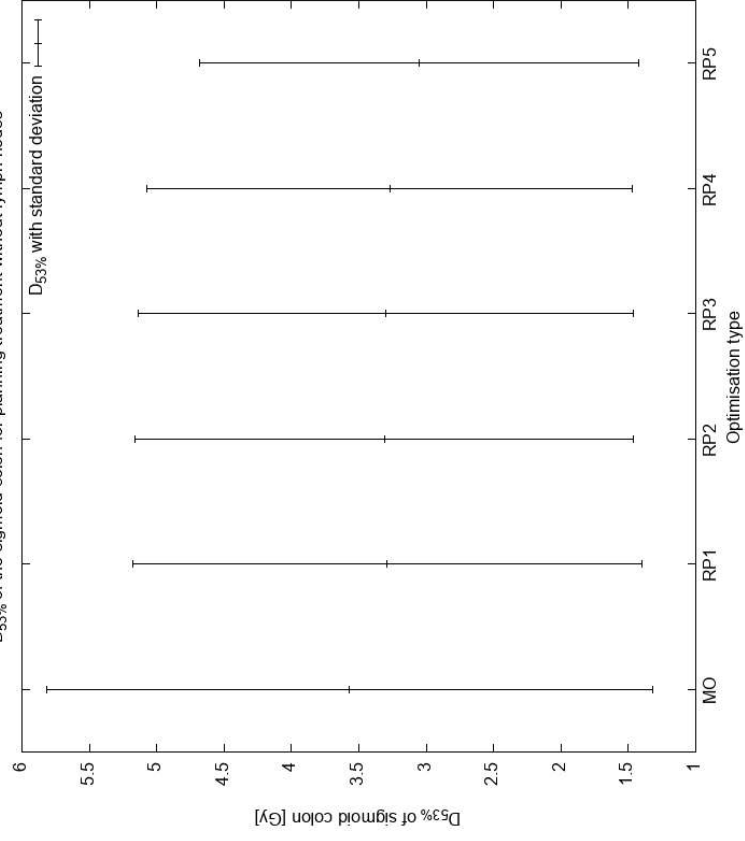
$D_{30\%}$ of the sigmoid colon for planning treatment without lymph nodes

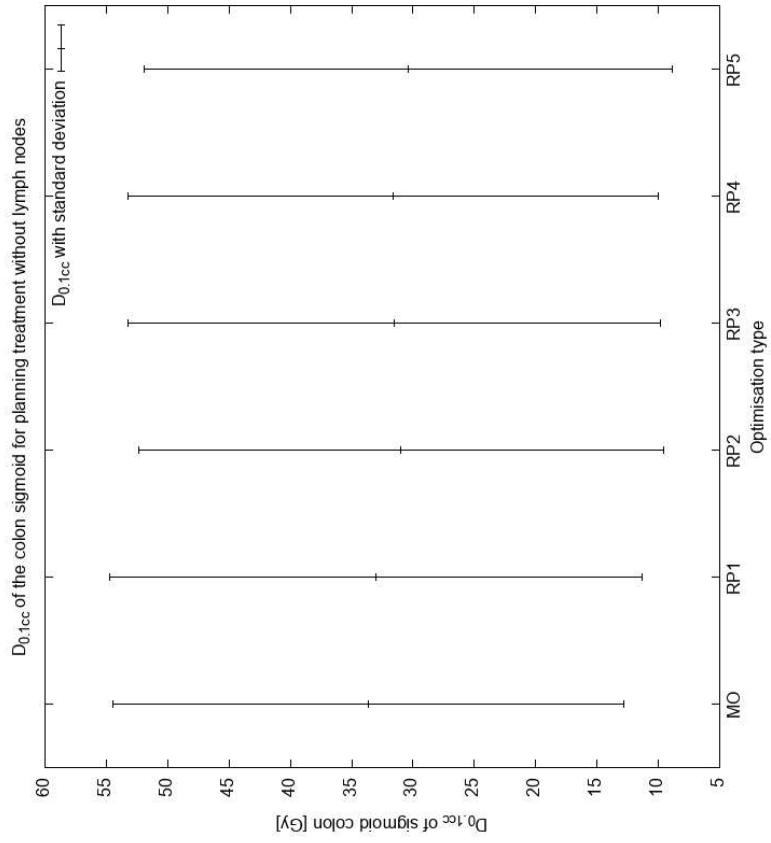


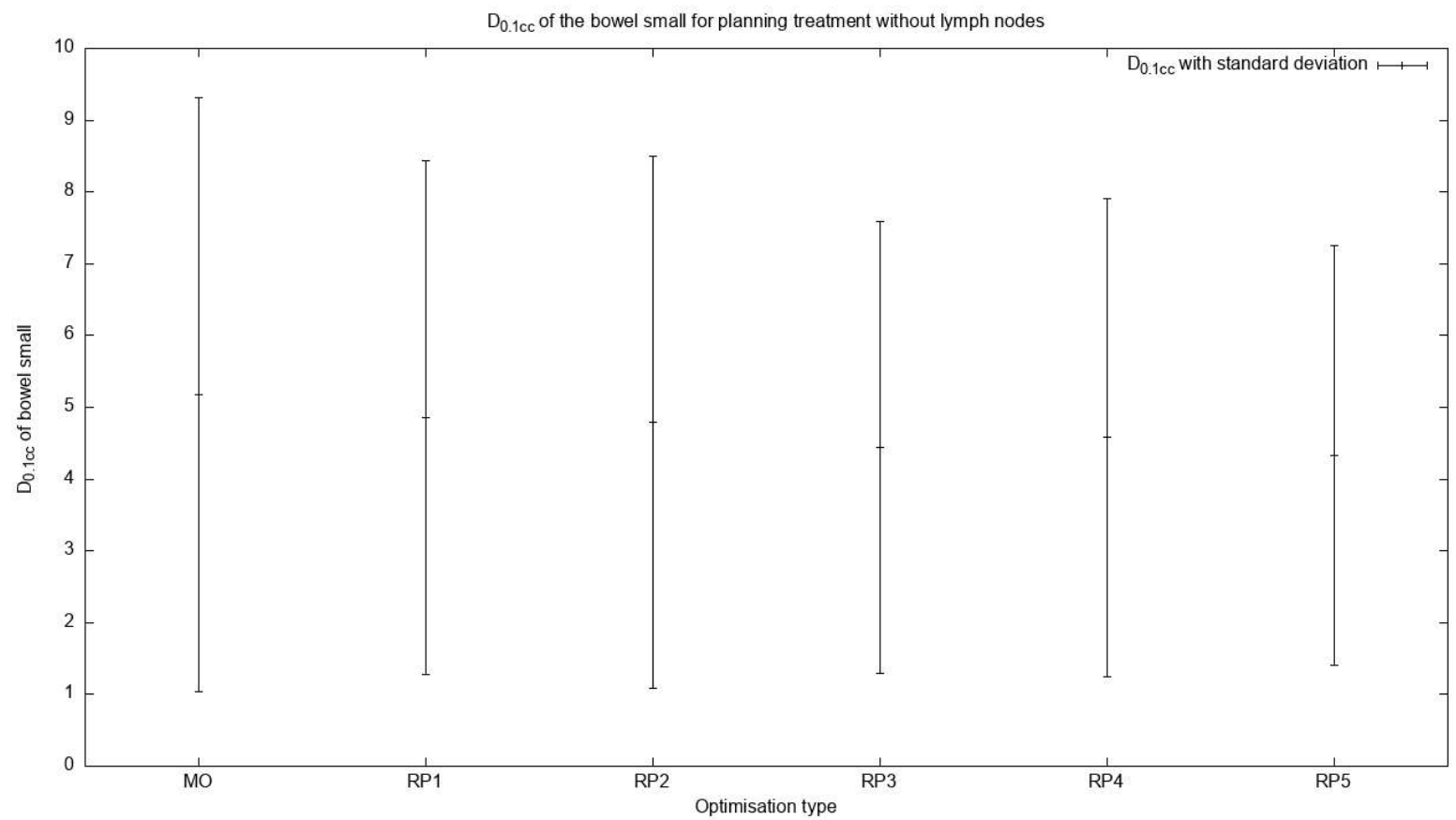
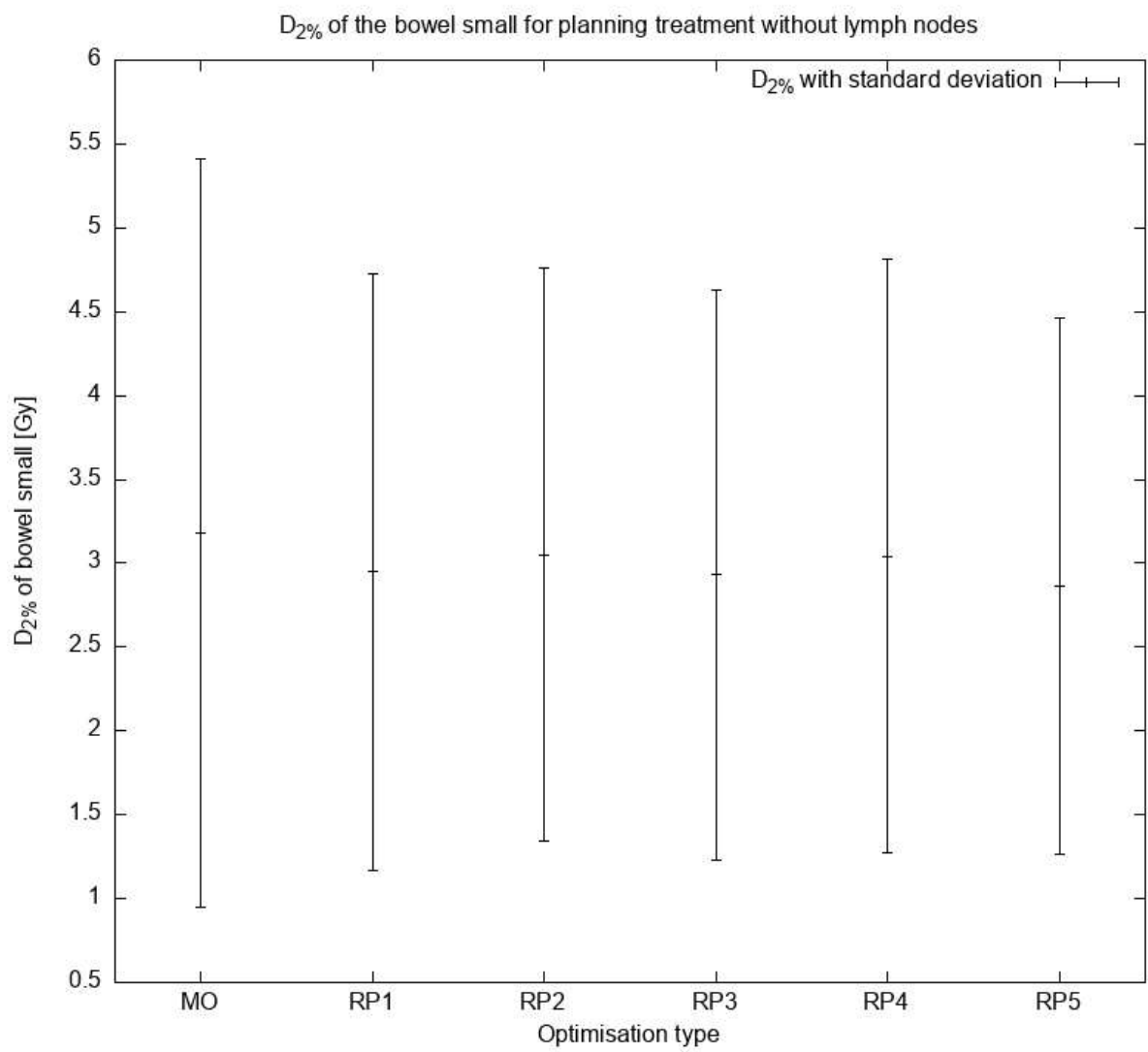
$D_{25\%}$ of the sigmoid colon for planning treatment without lymph nodes



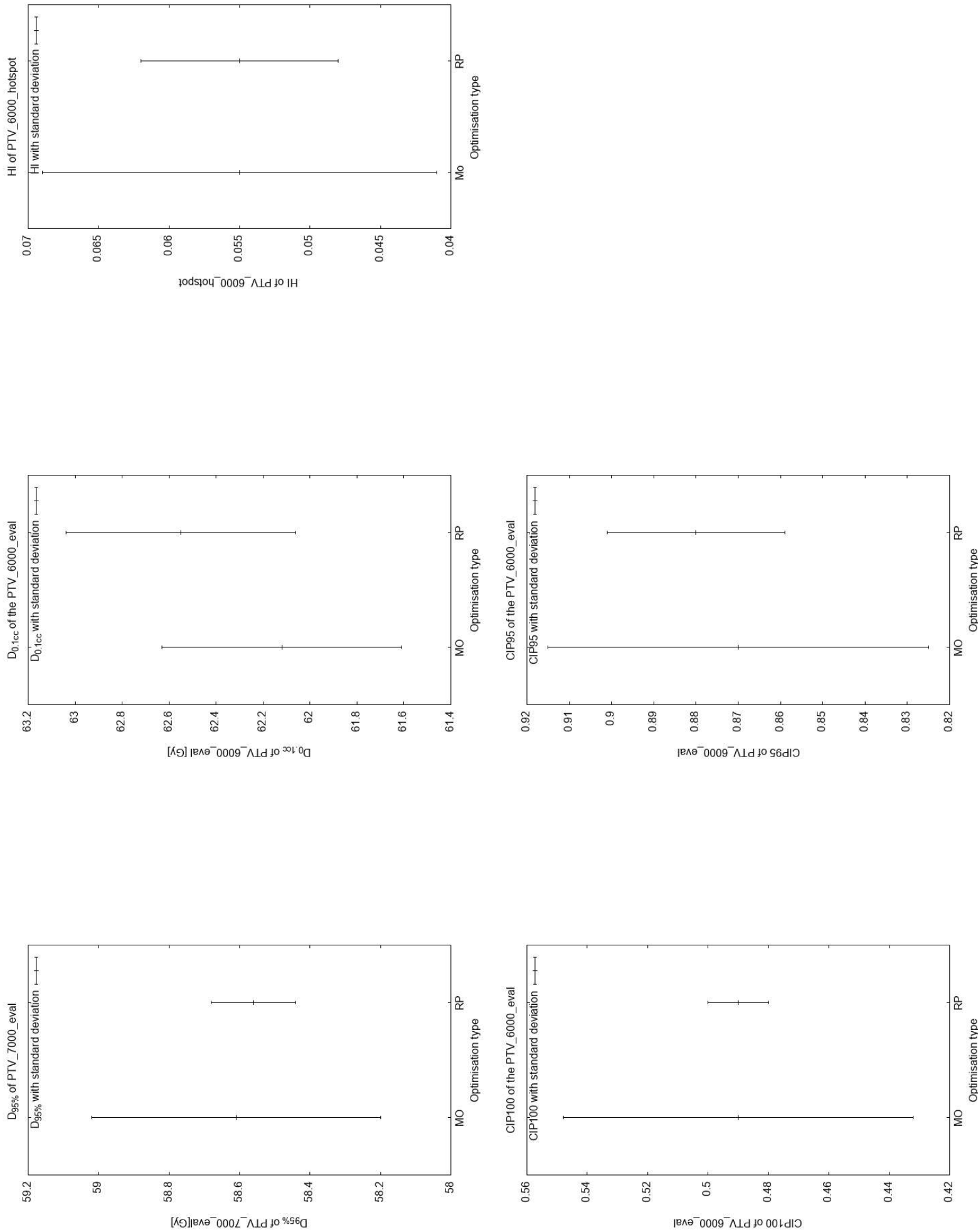
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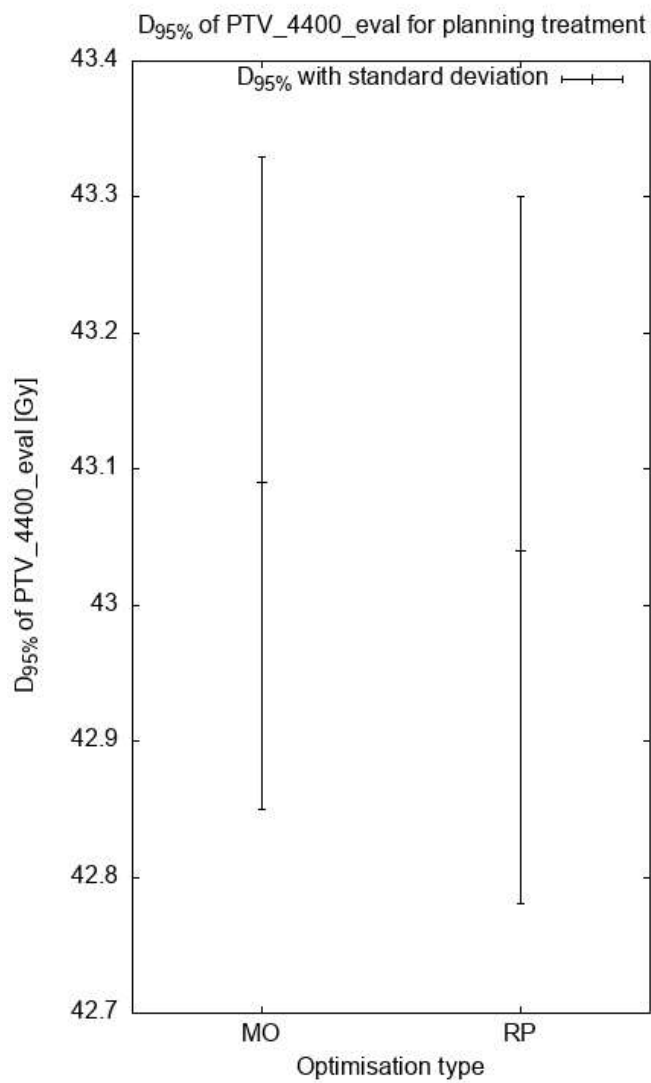
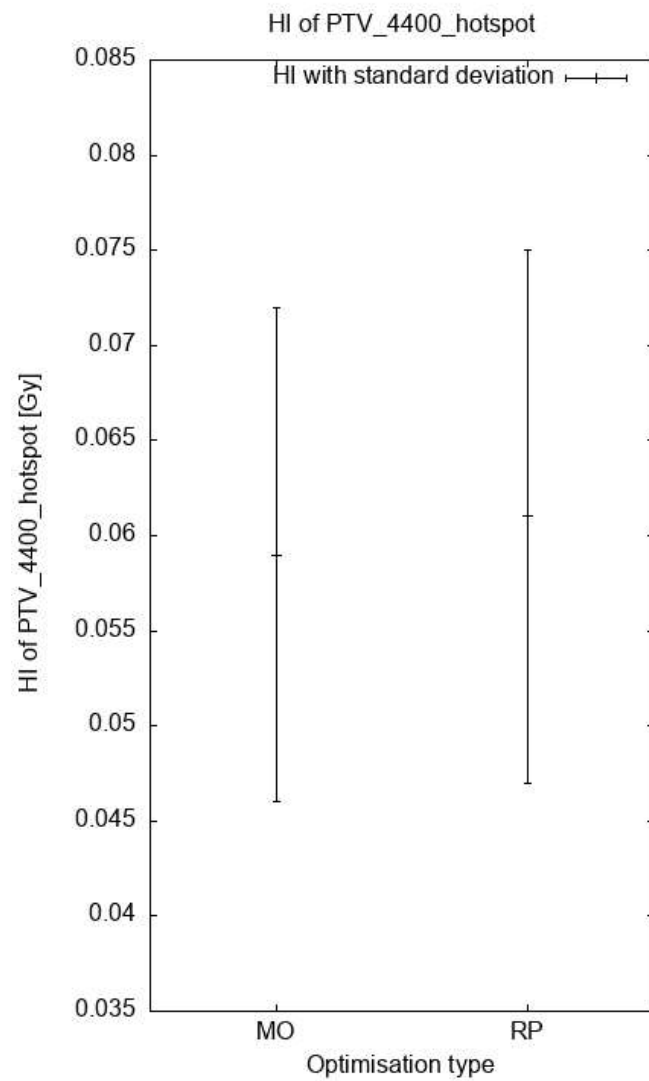
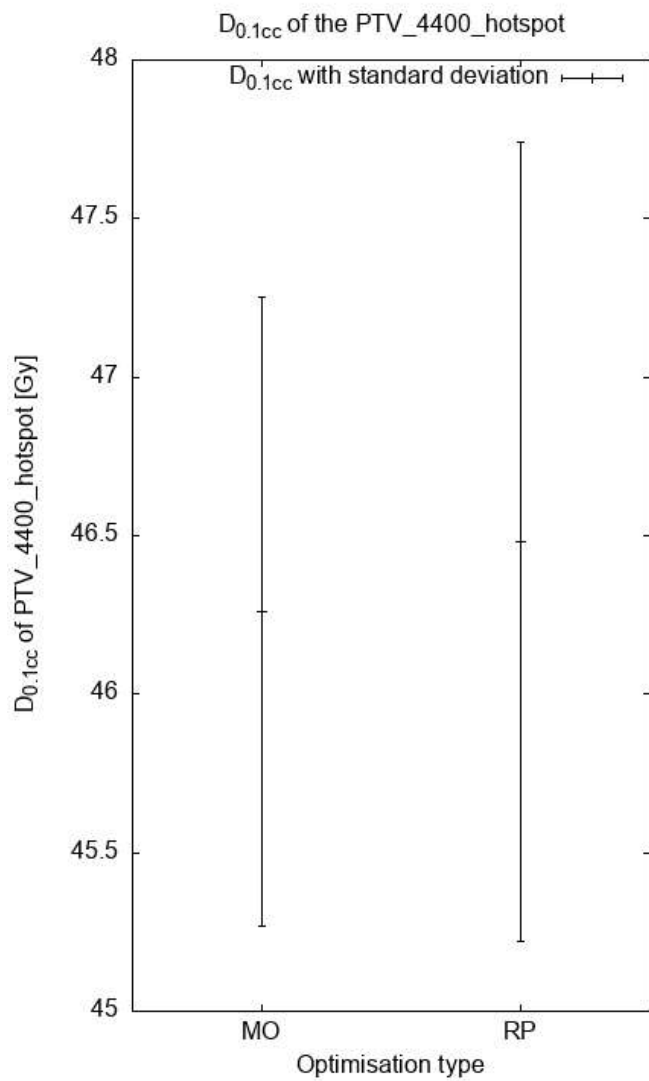


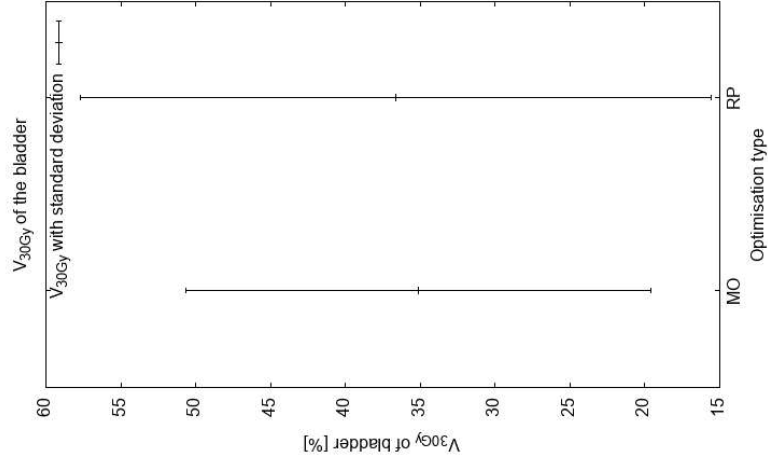
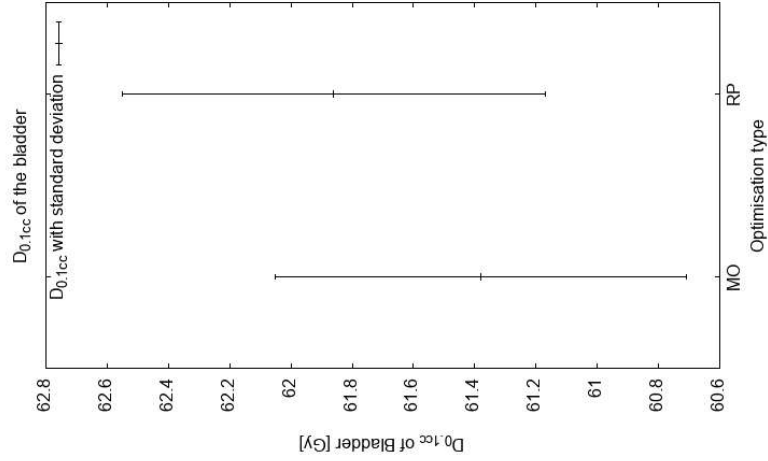
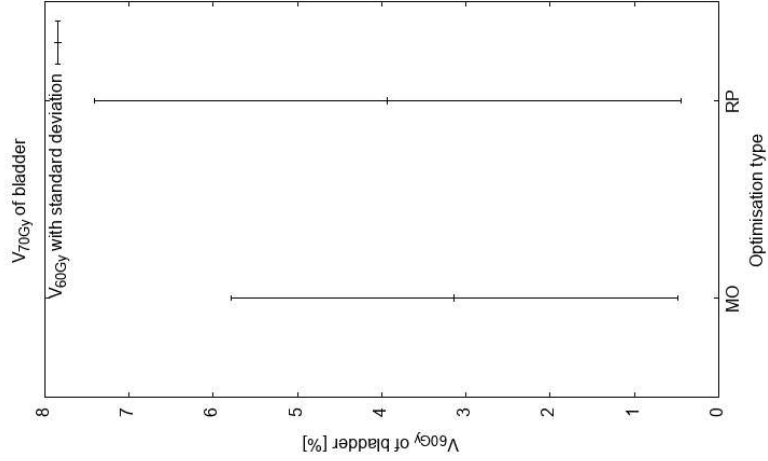
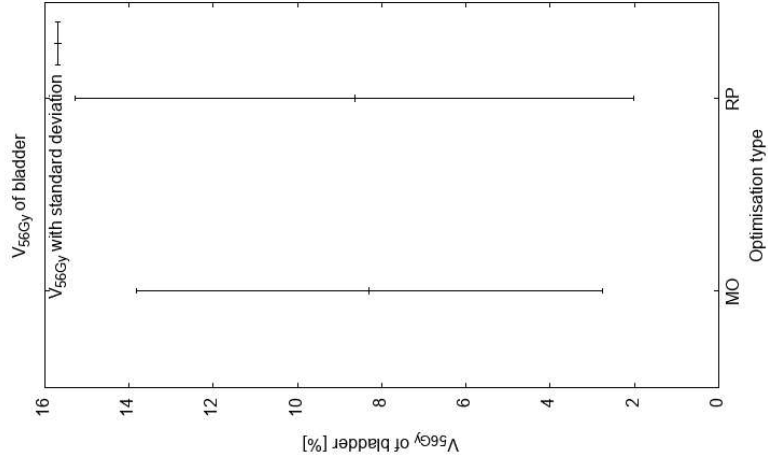
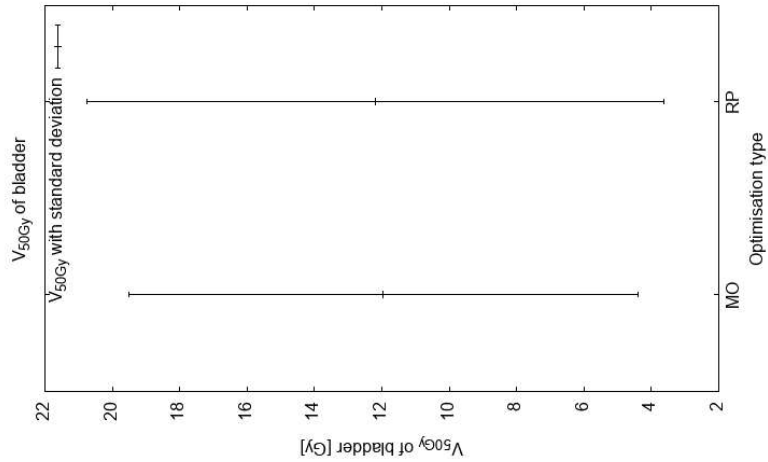


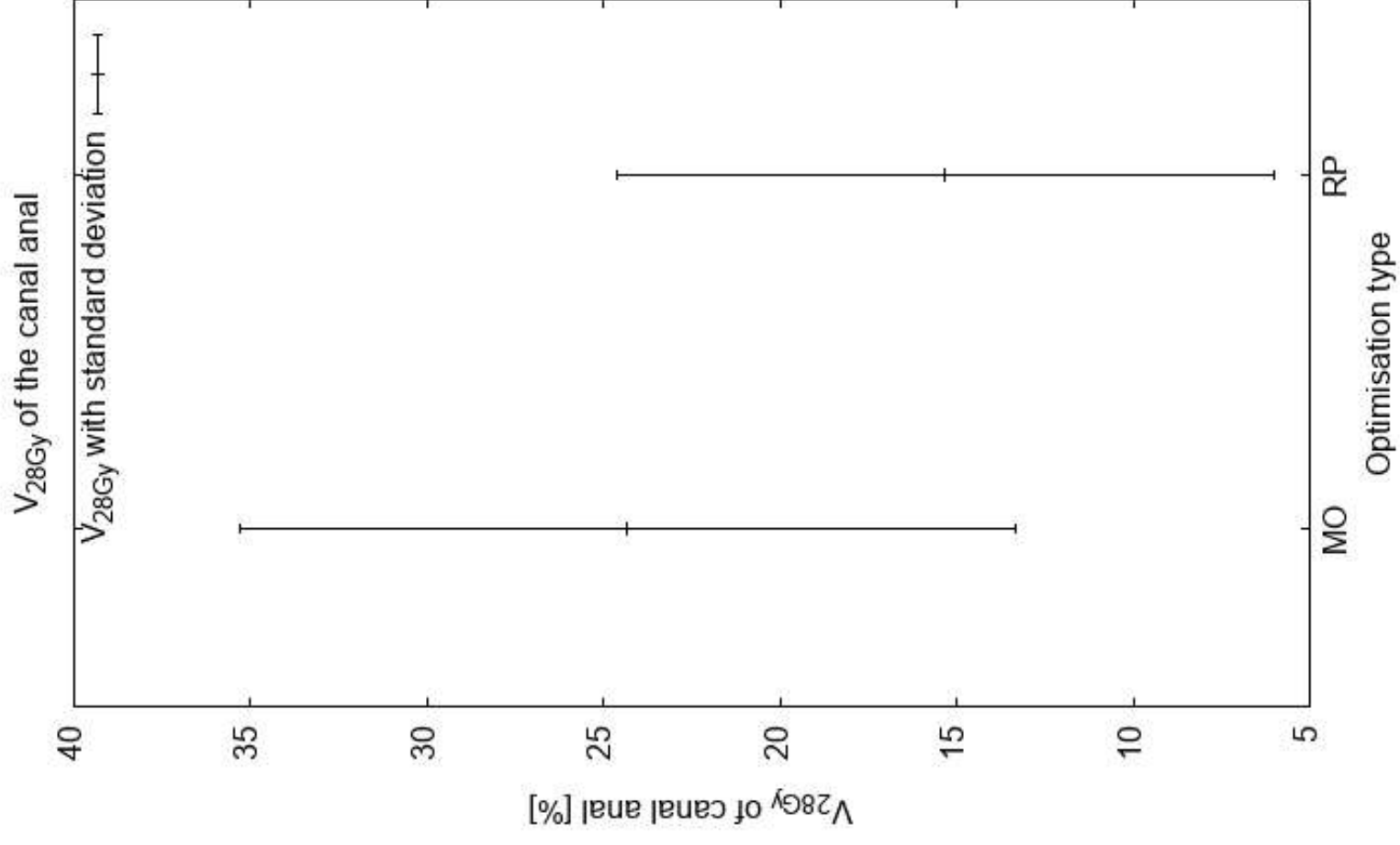
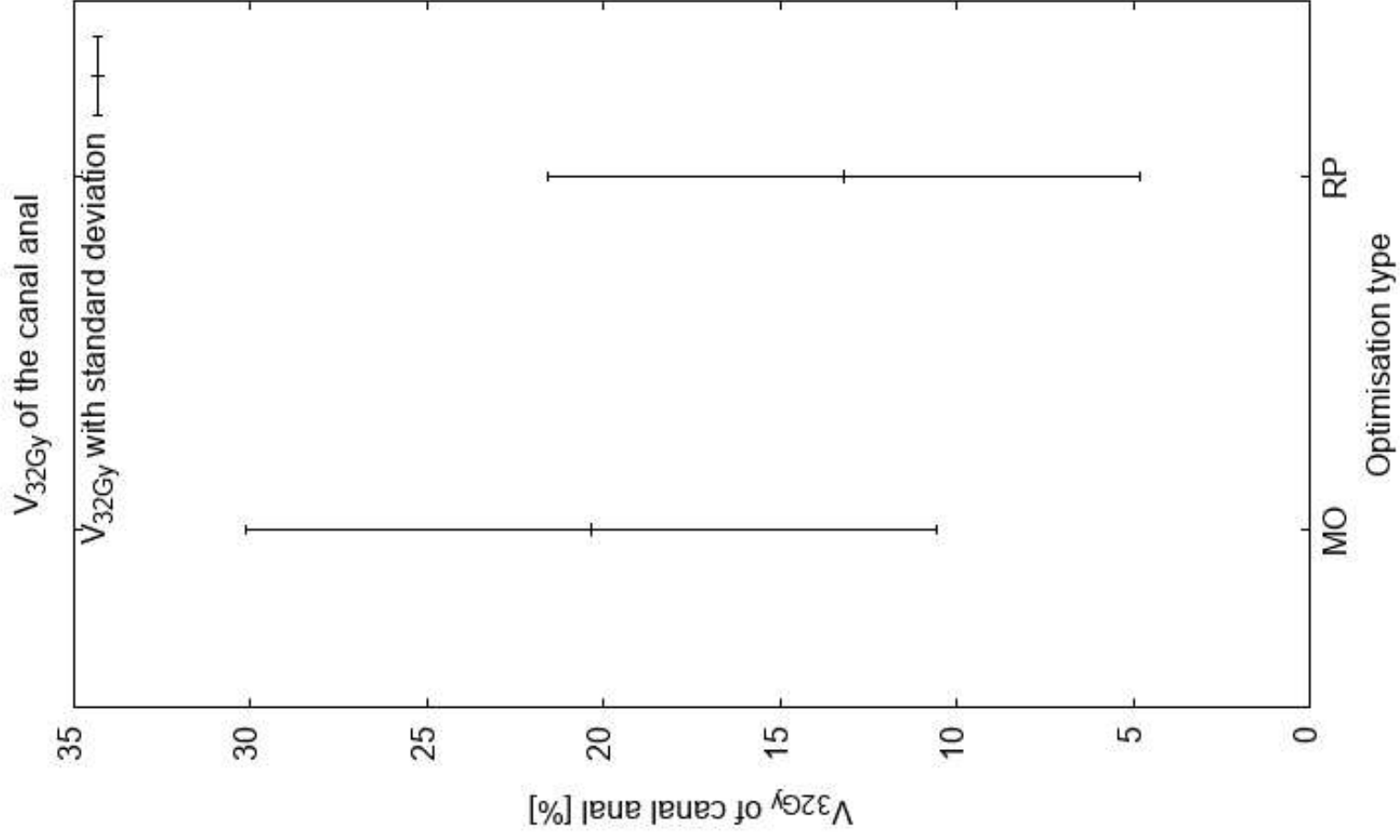


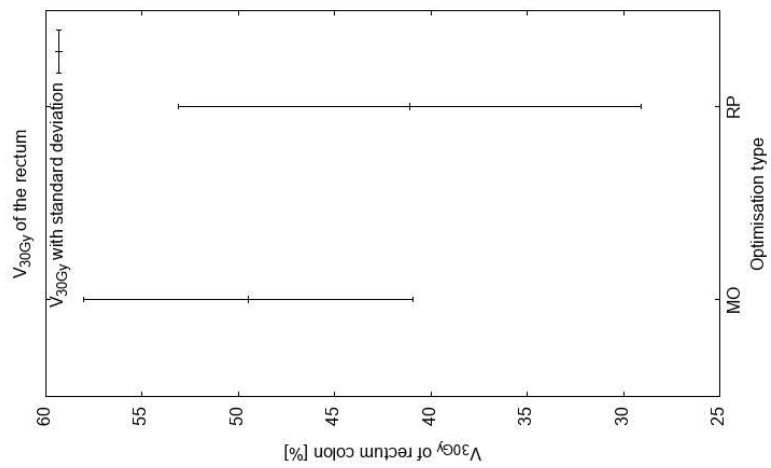
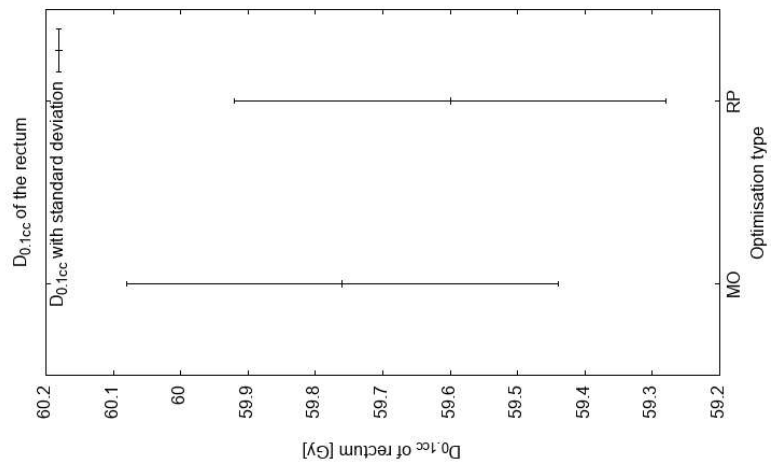
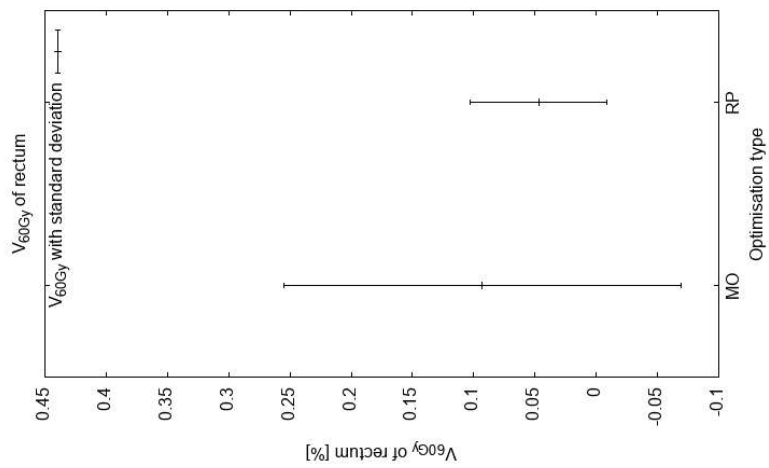
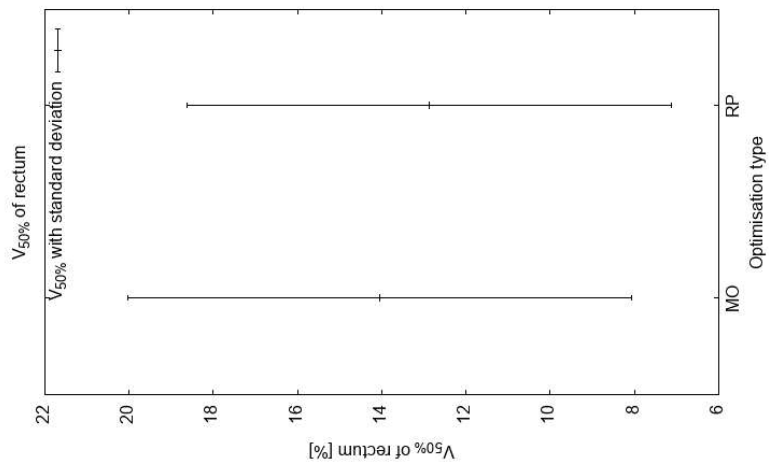
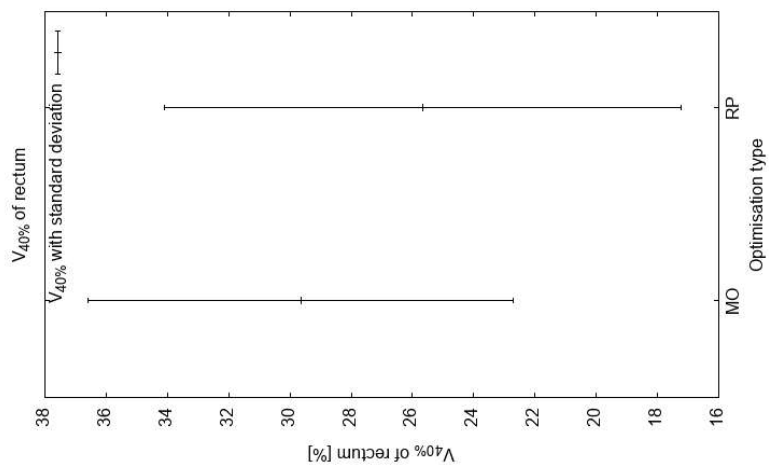
Comparison with other dose prescription : 60Gy - 44Gy

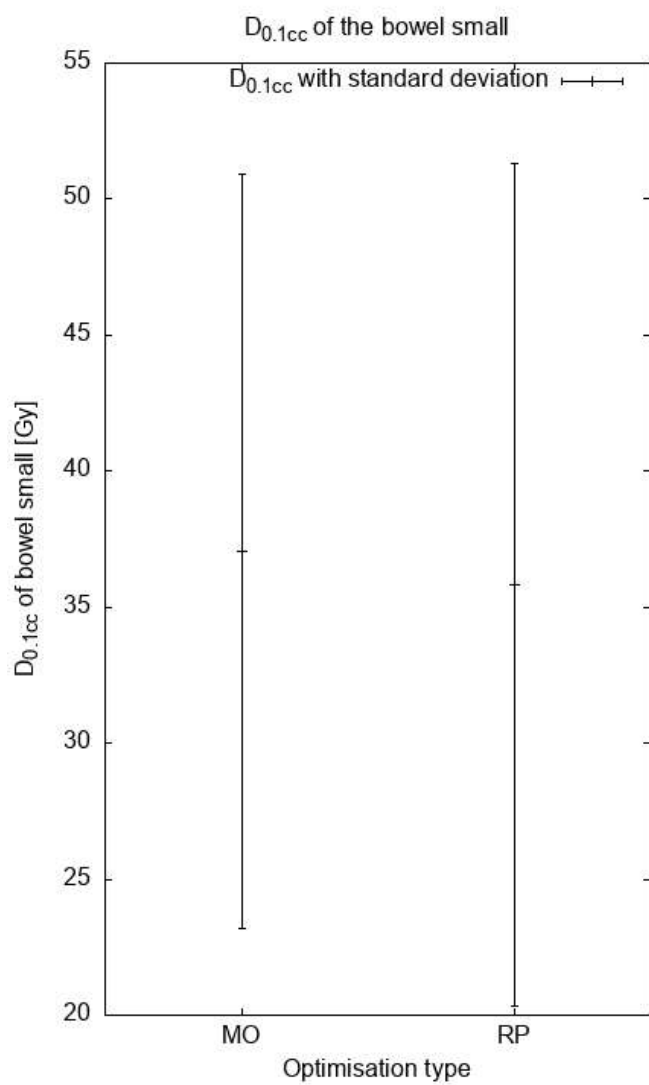
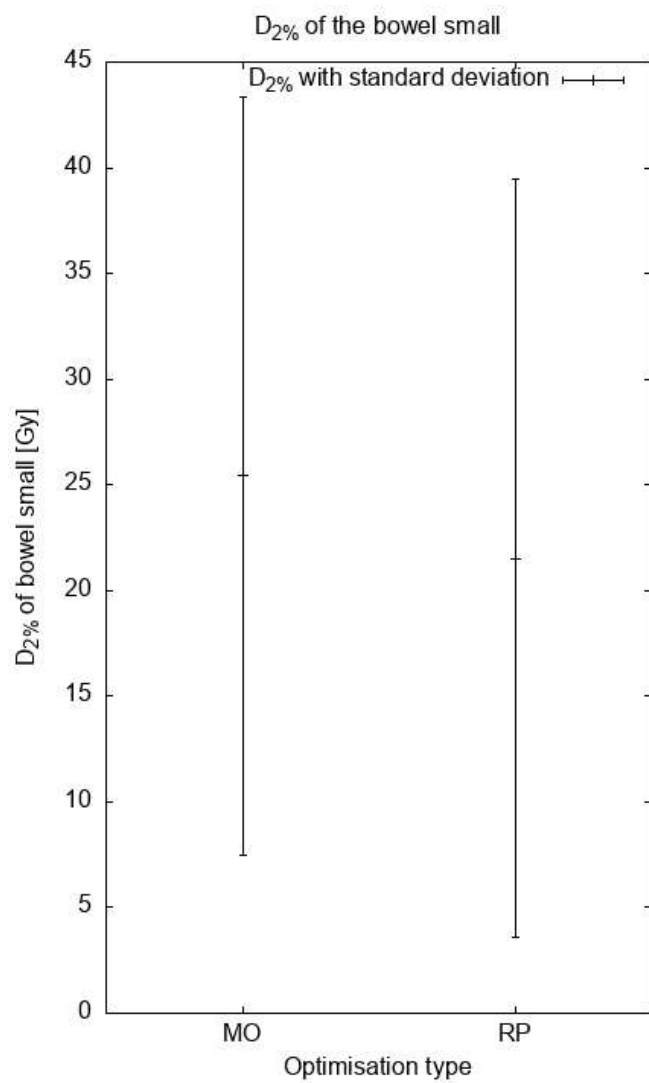
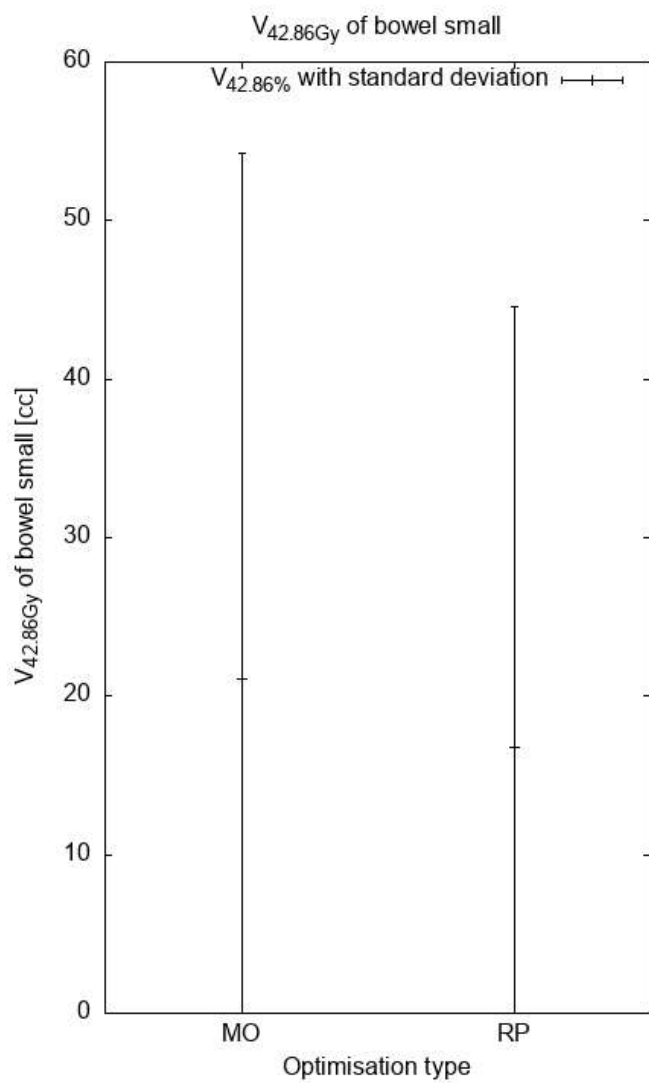




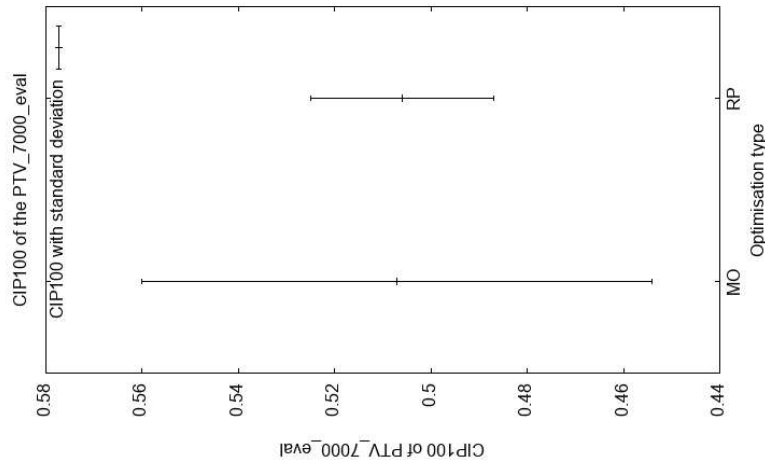
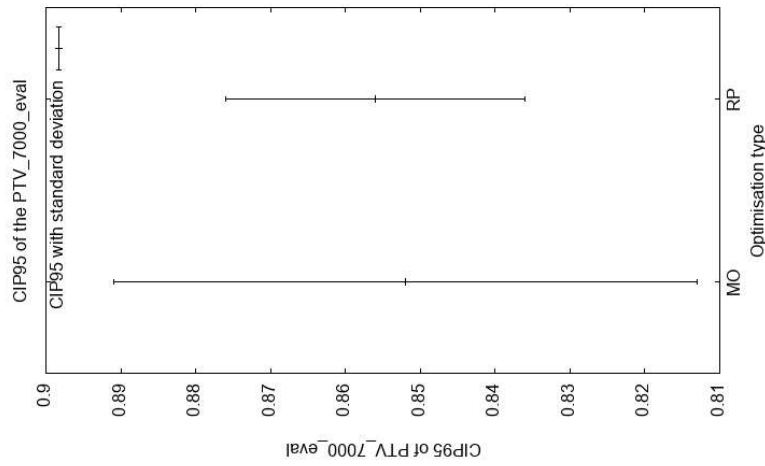
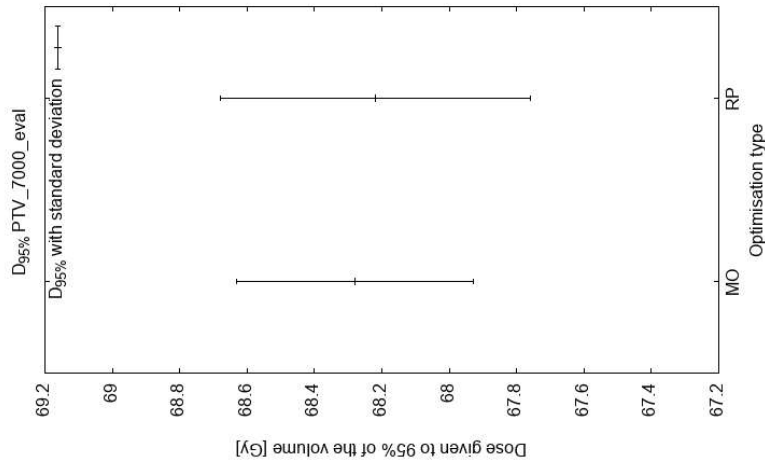
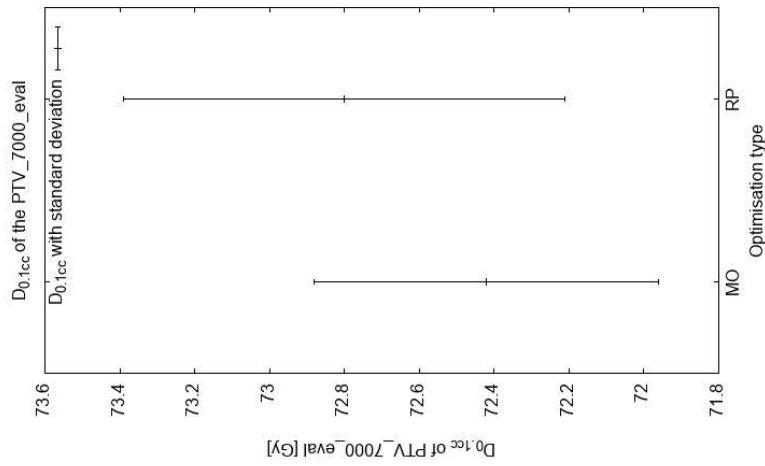
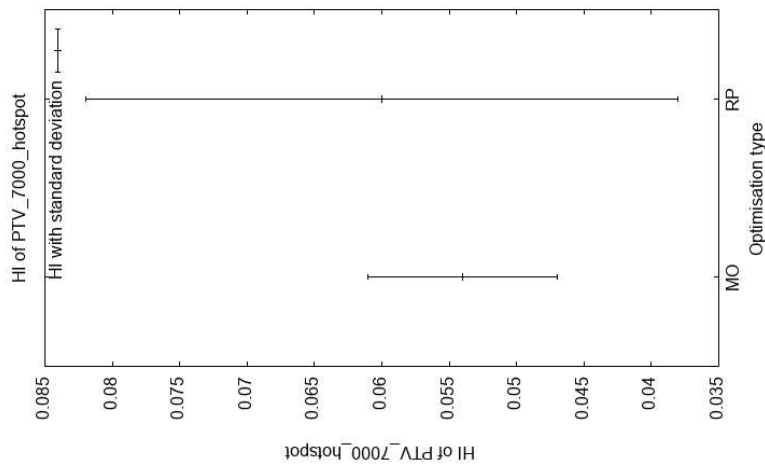


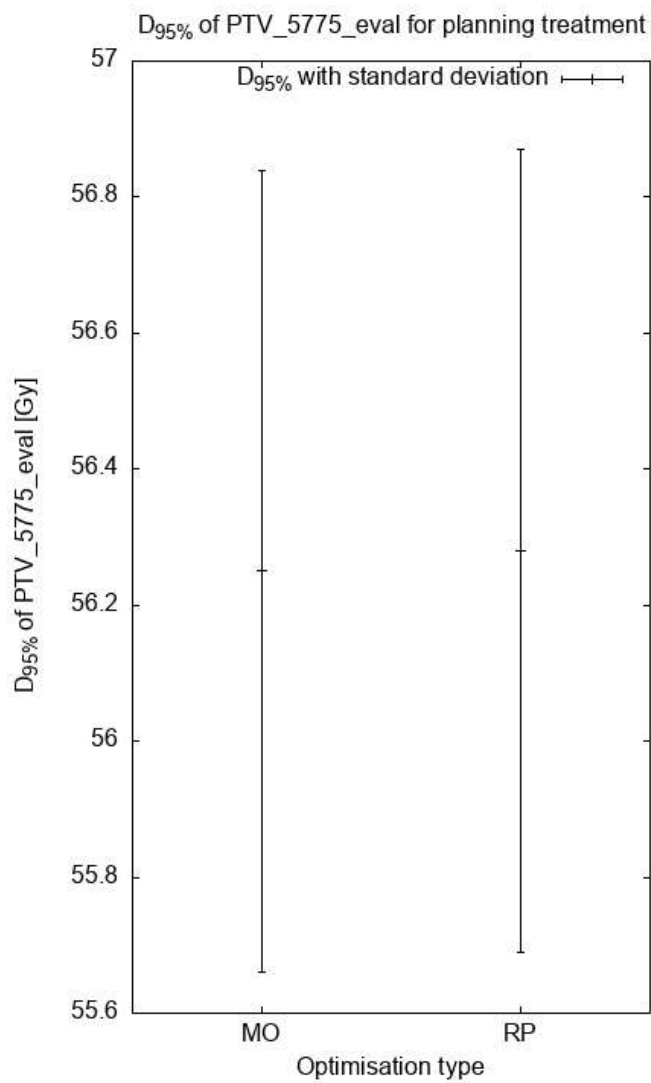
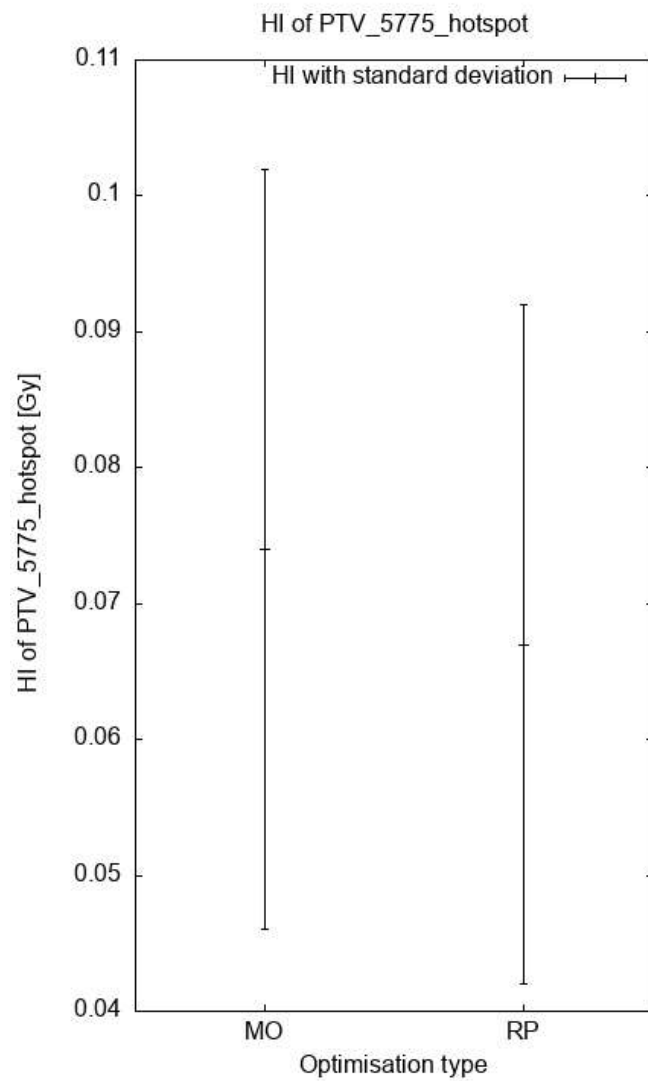
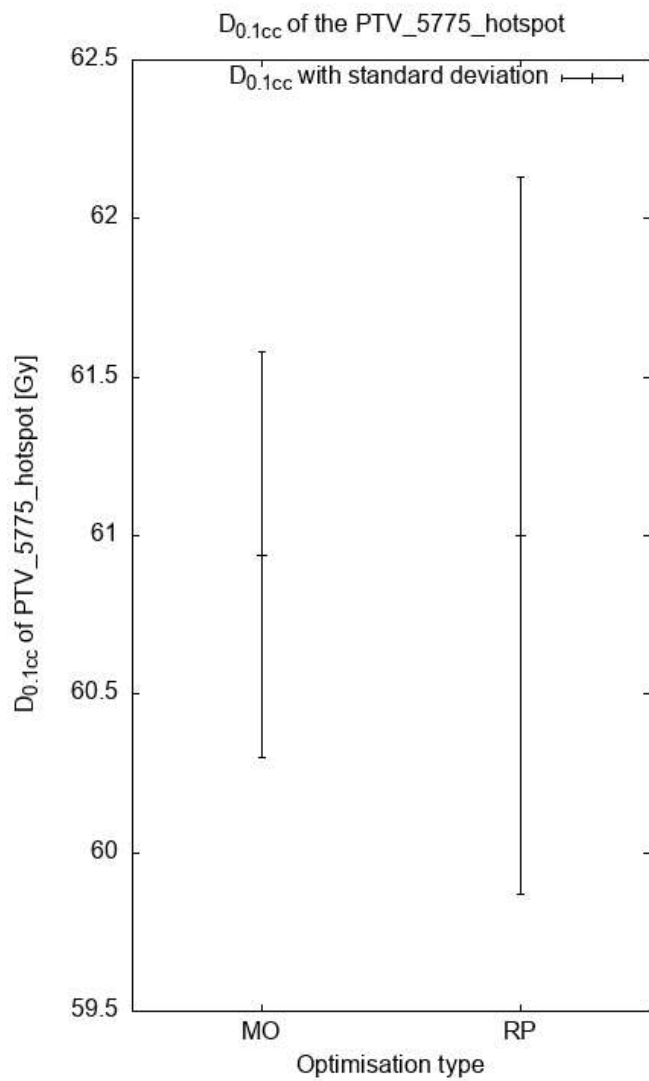


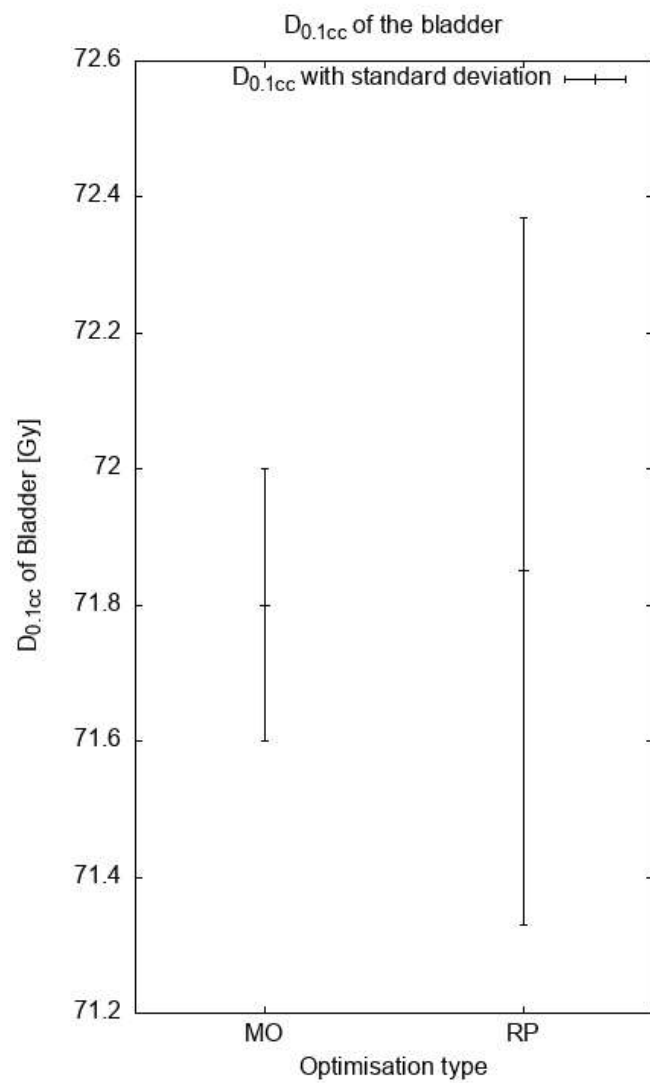
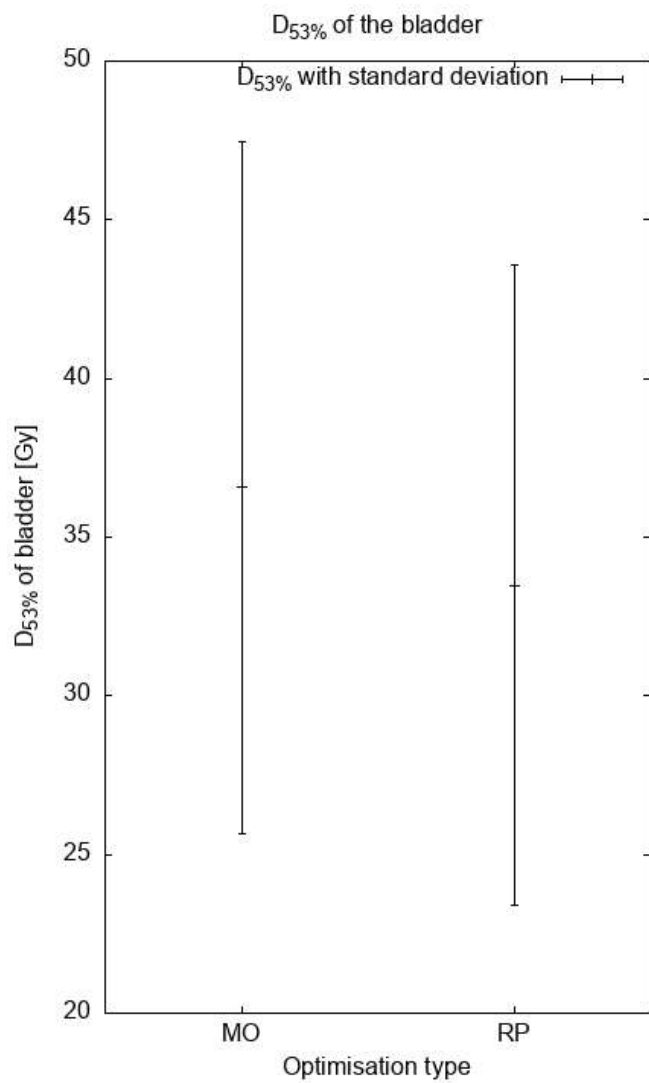
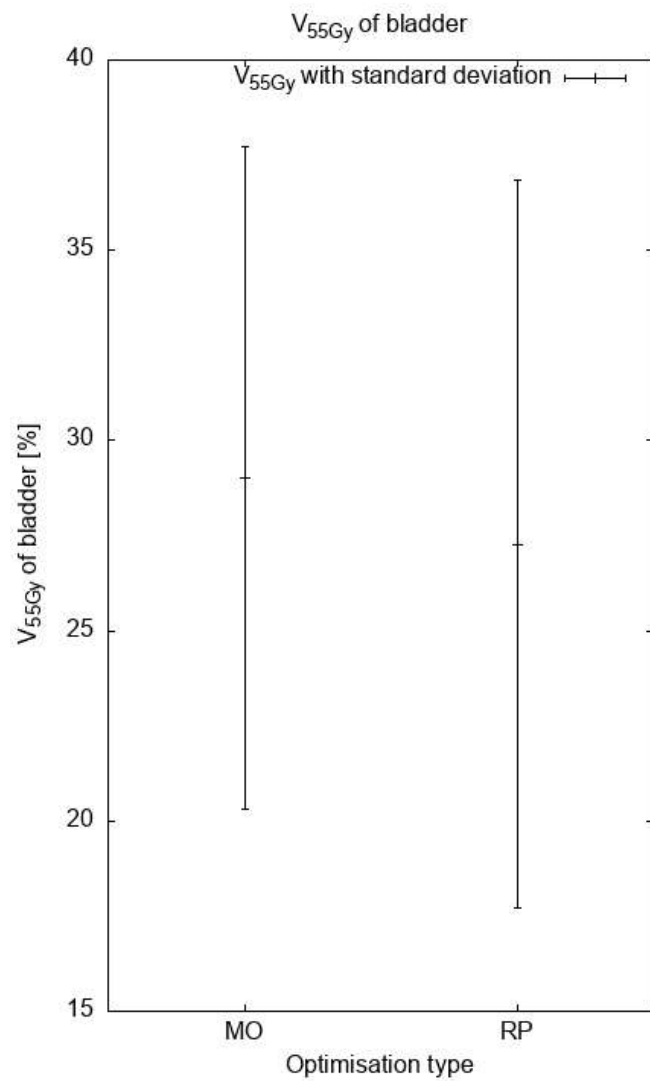
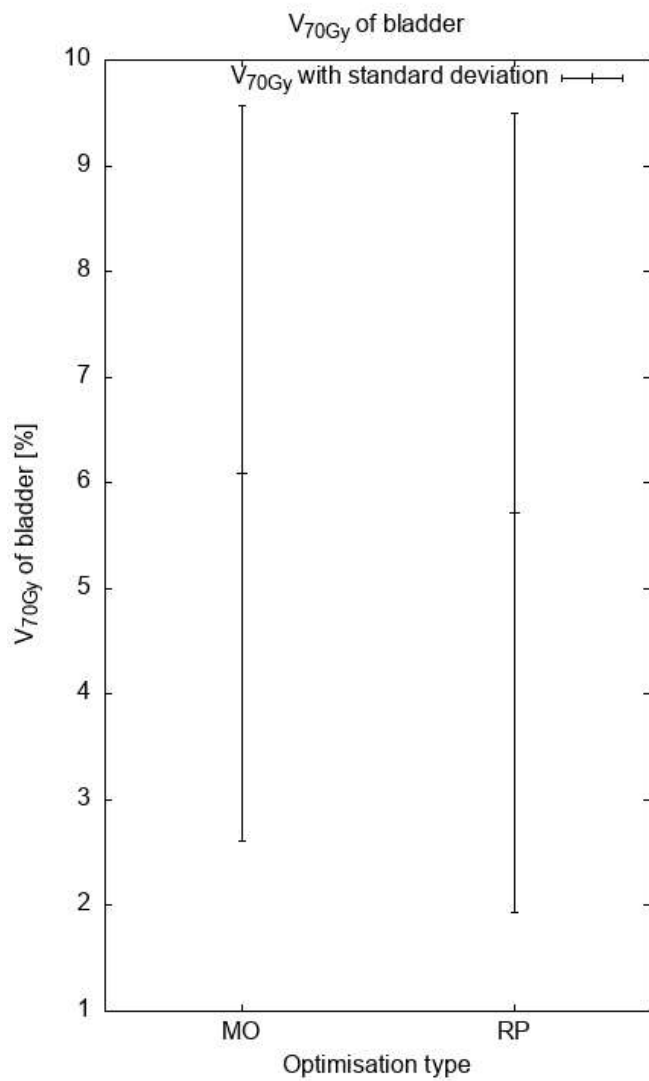


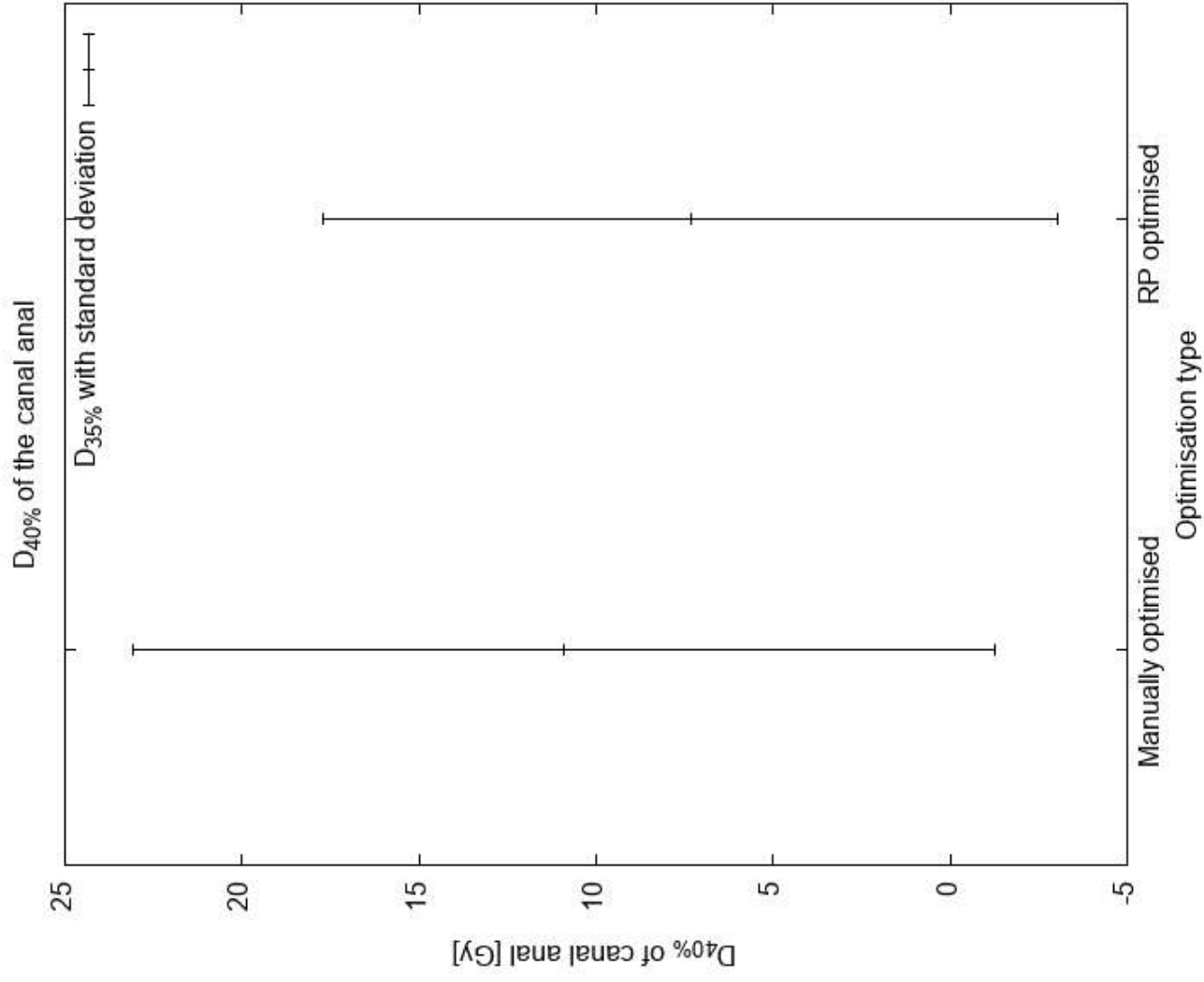
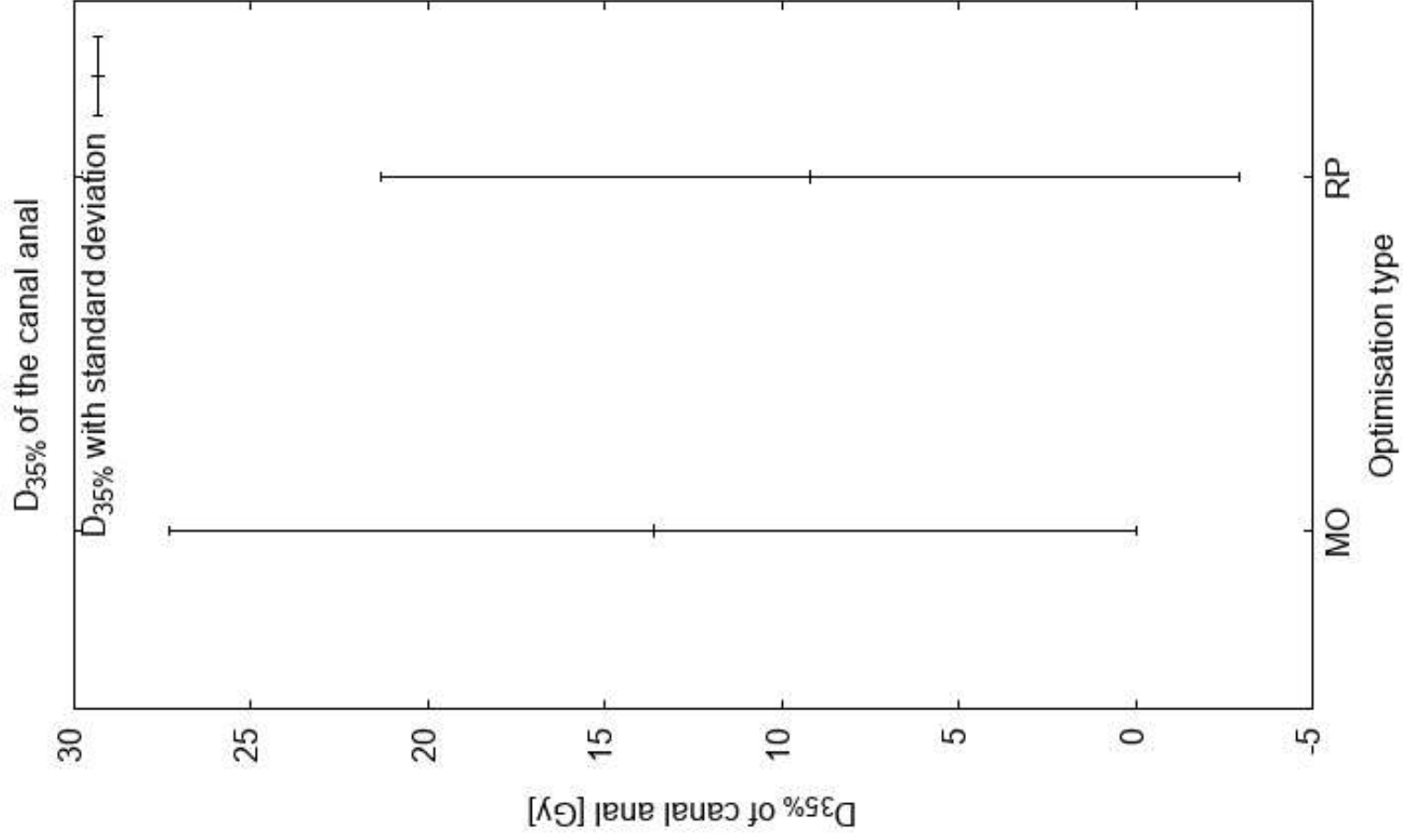


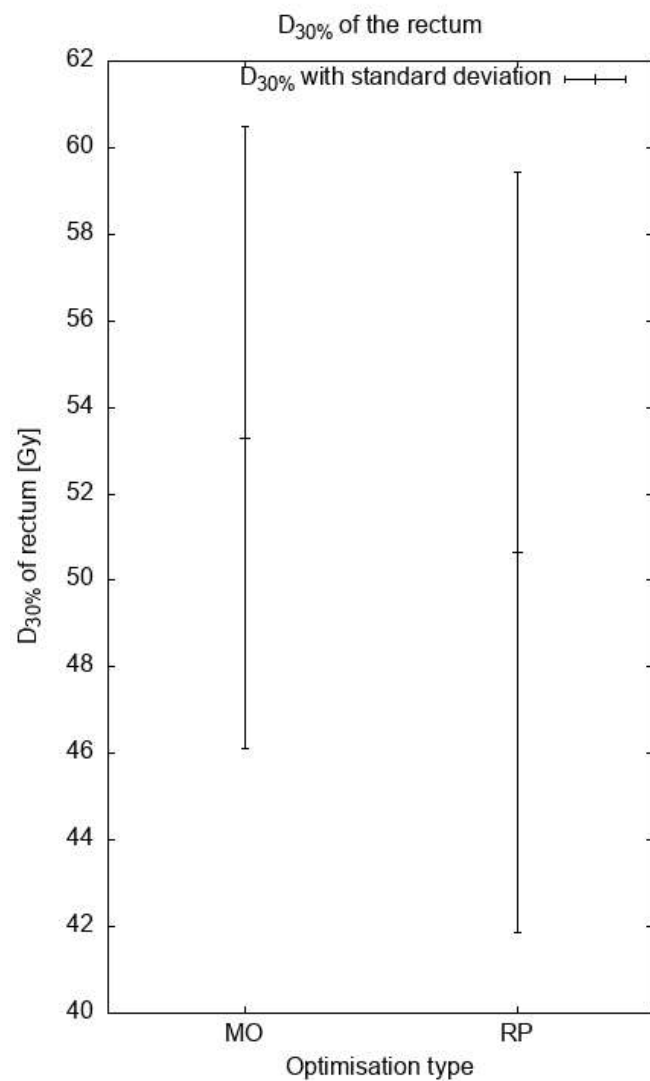
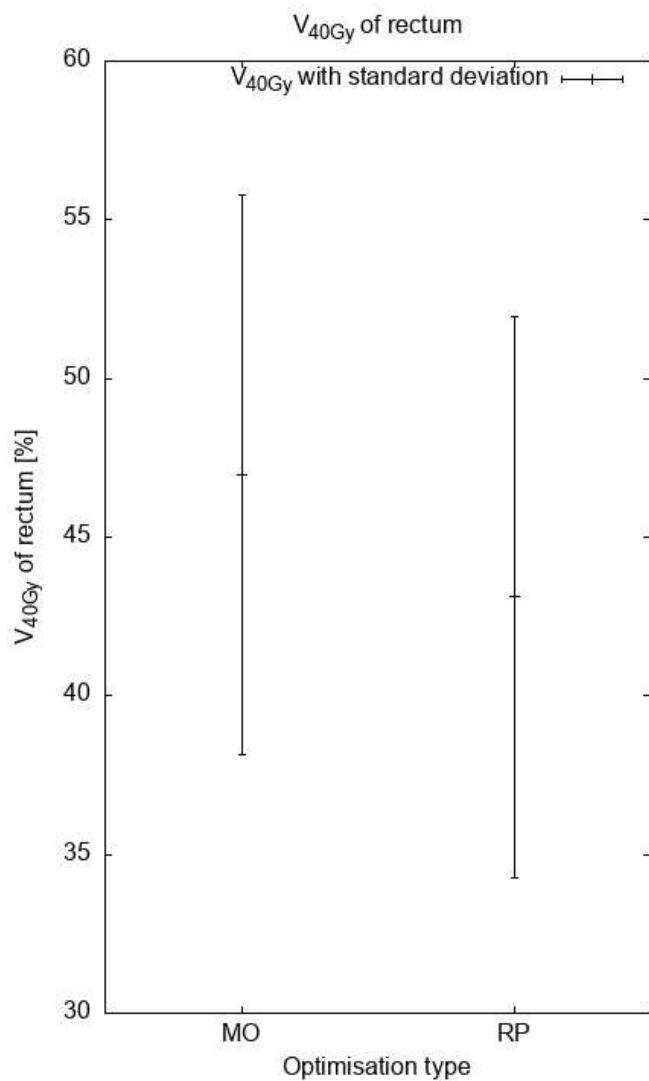
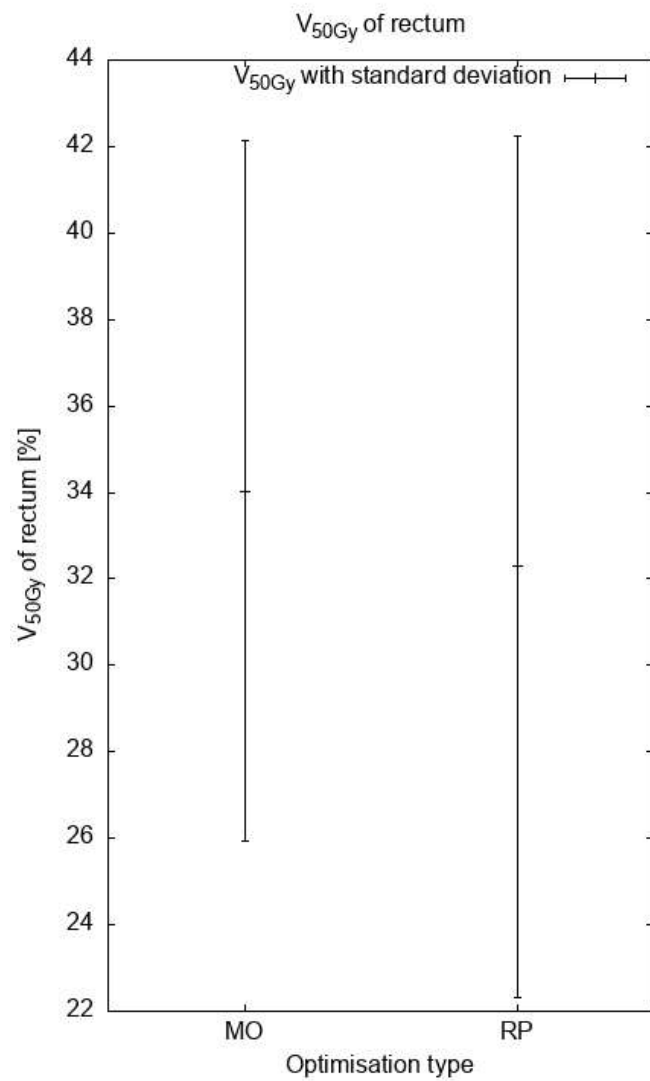
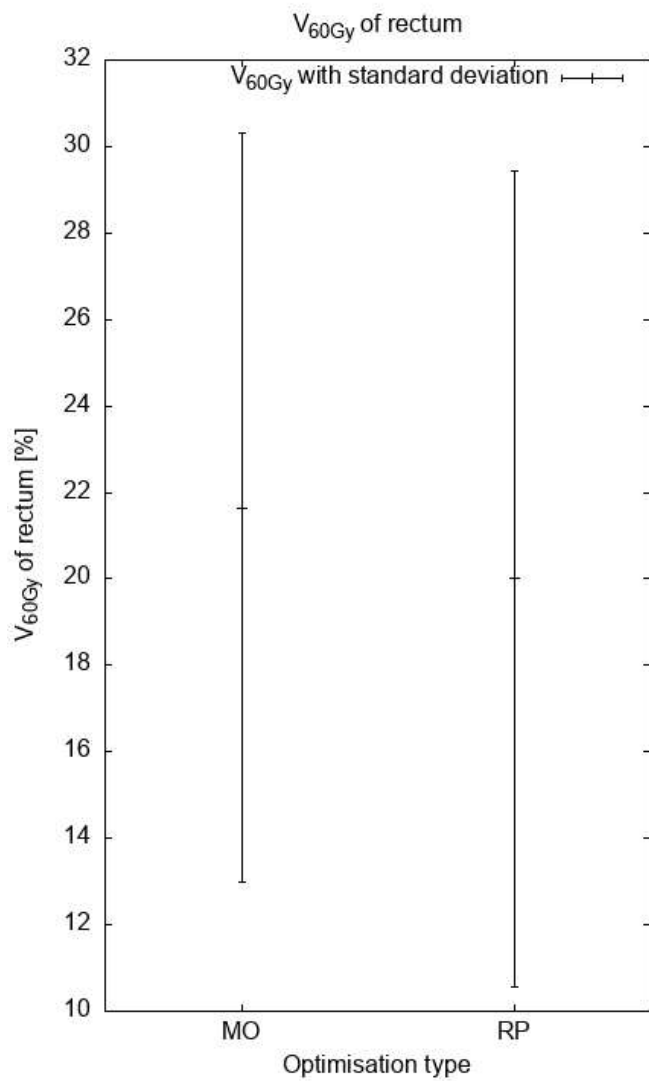
Comparison with other dose prescription : 70Gy - 57.75Gys

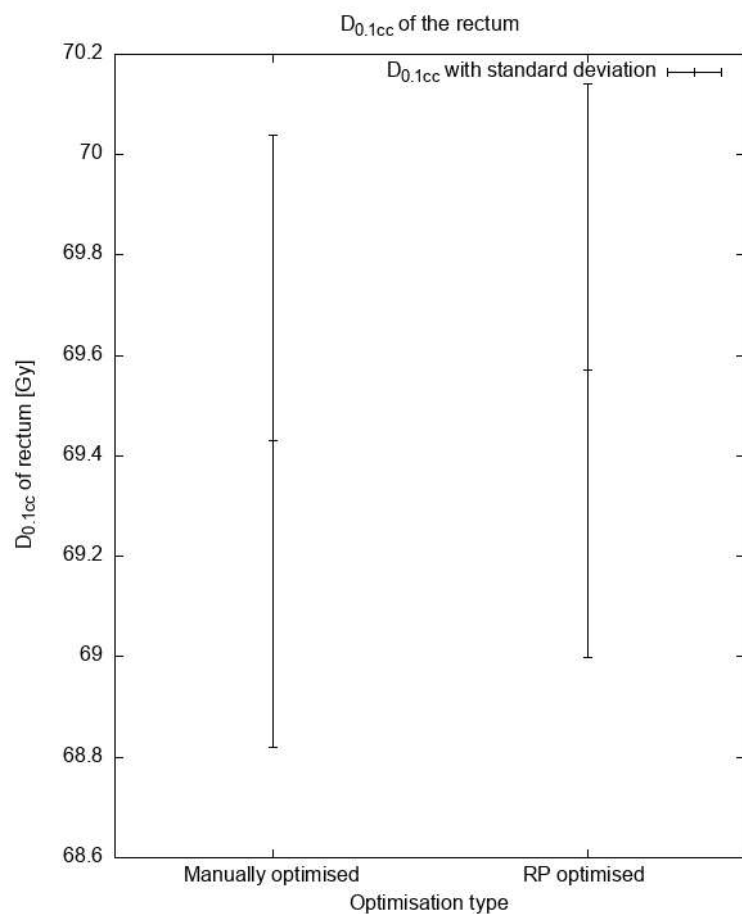
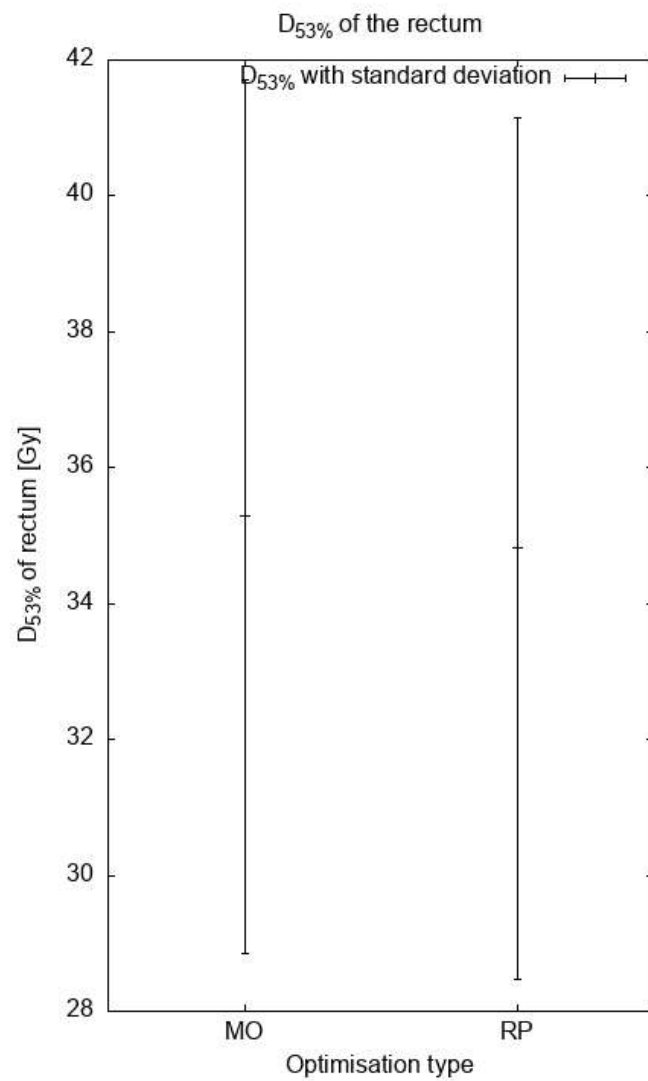
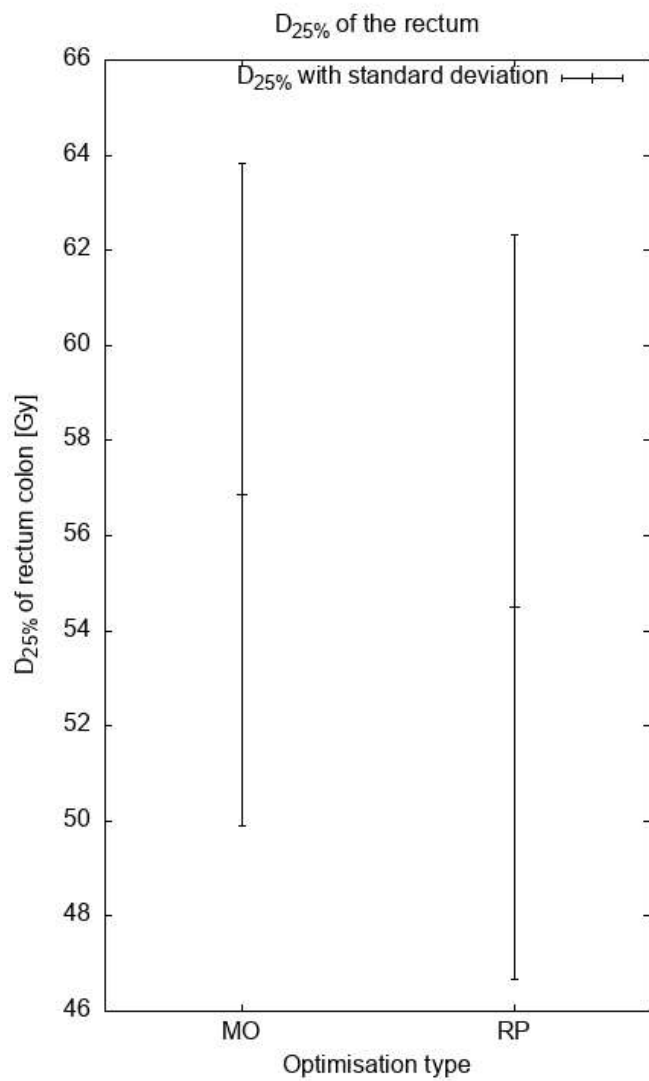


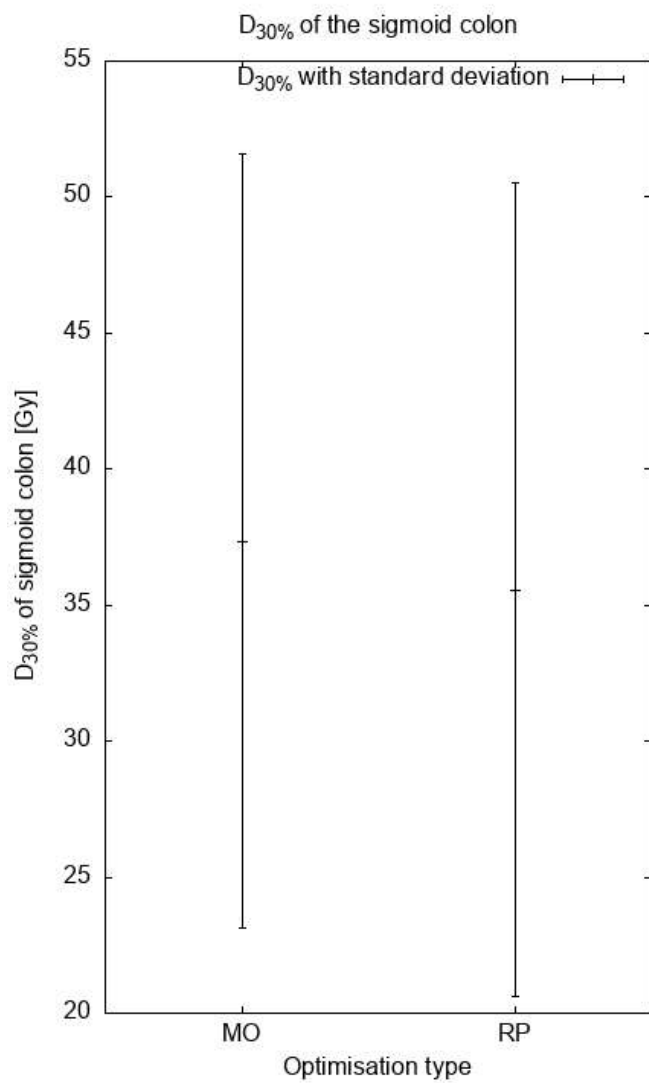
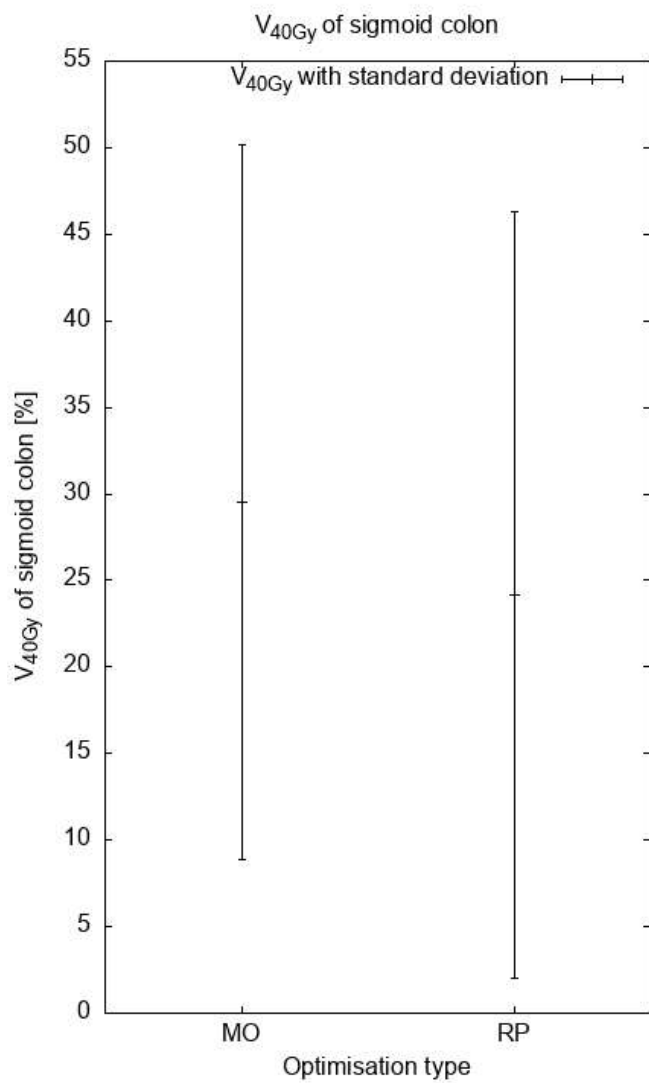
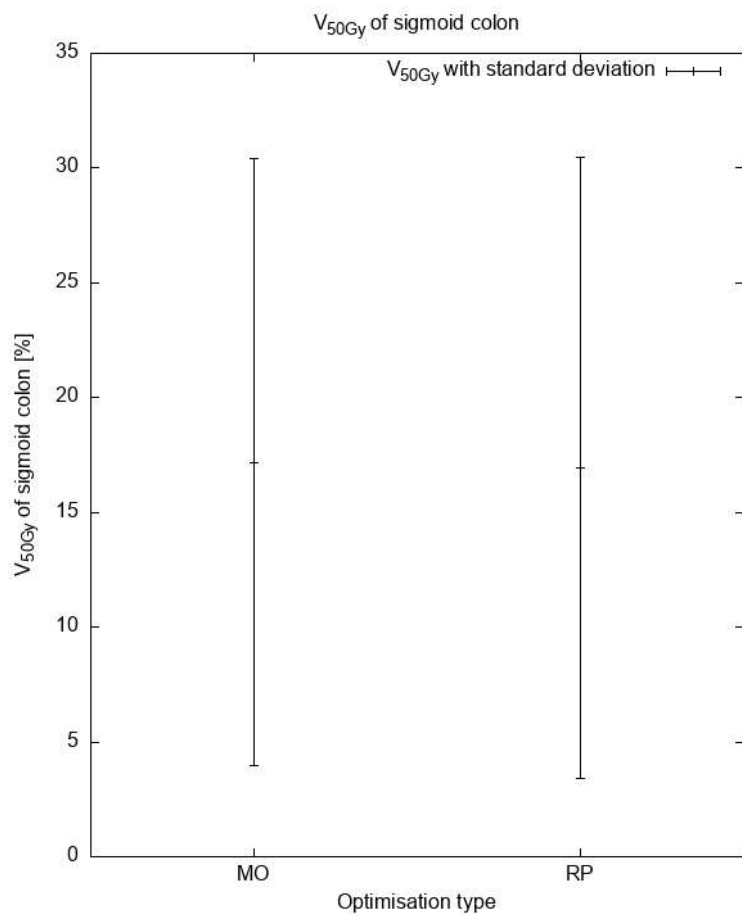
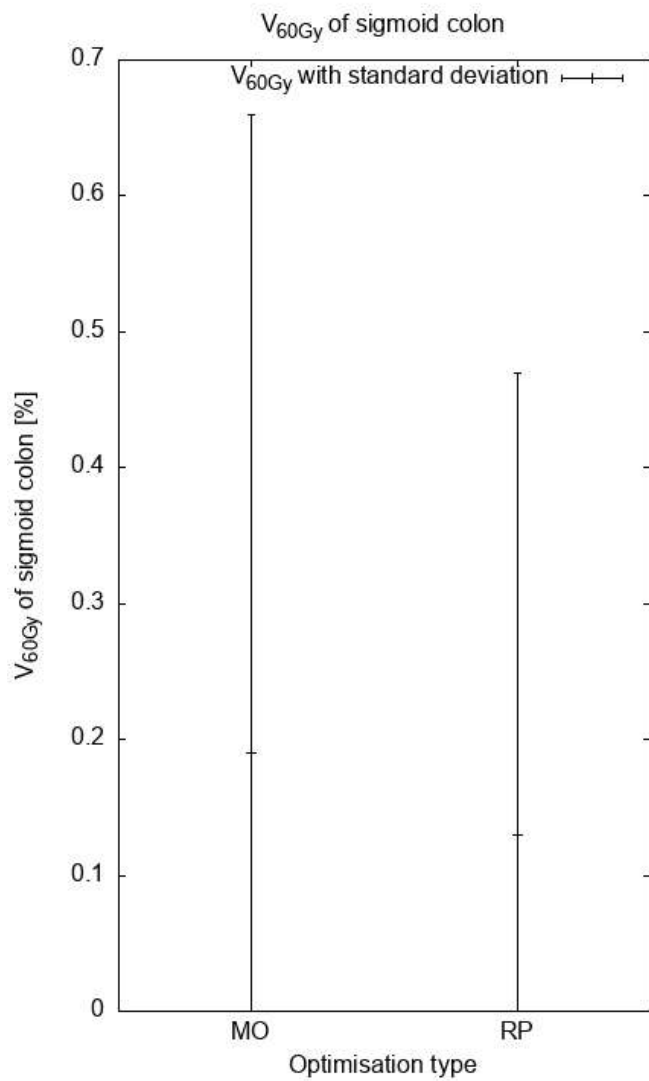


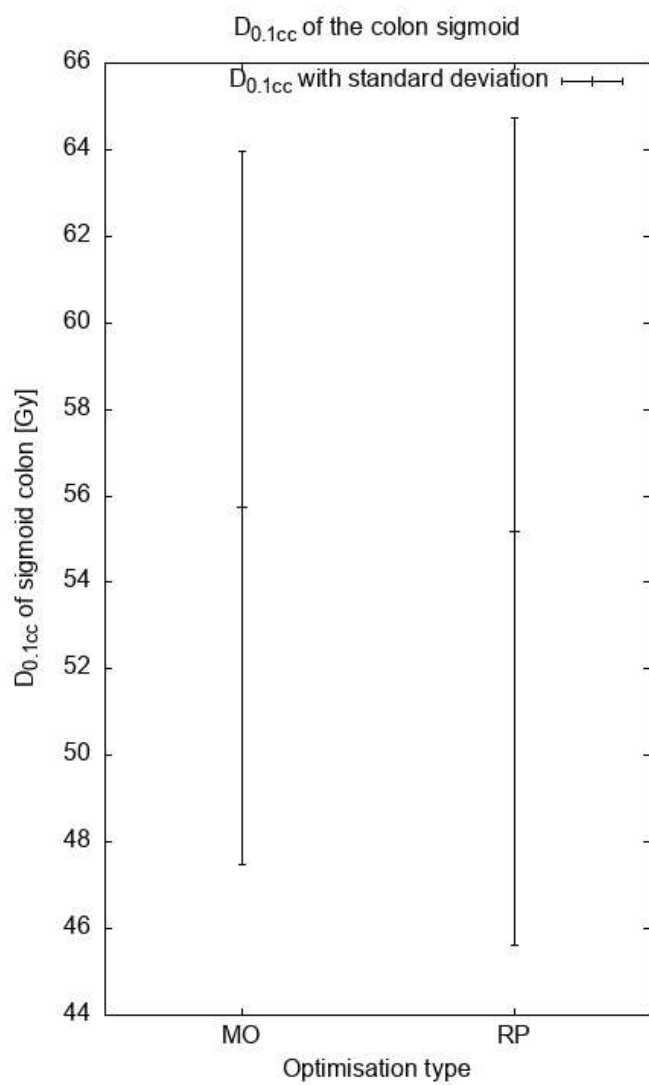
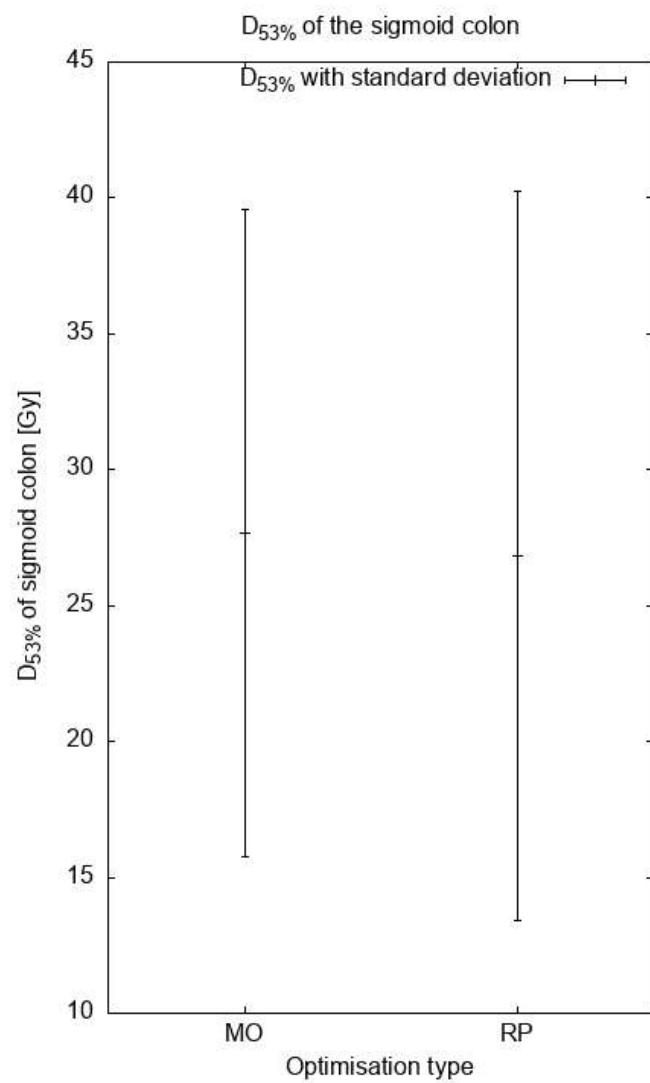
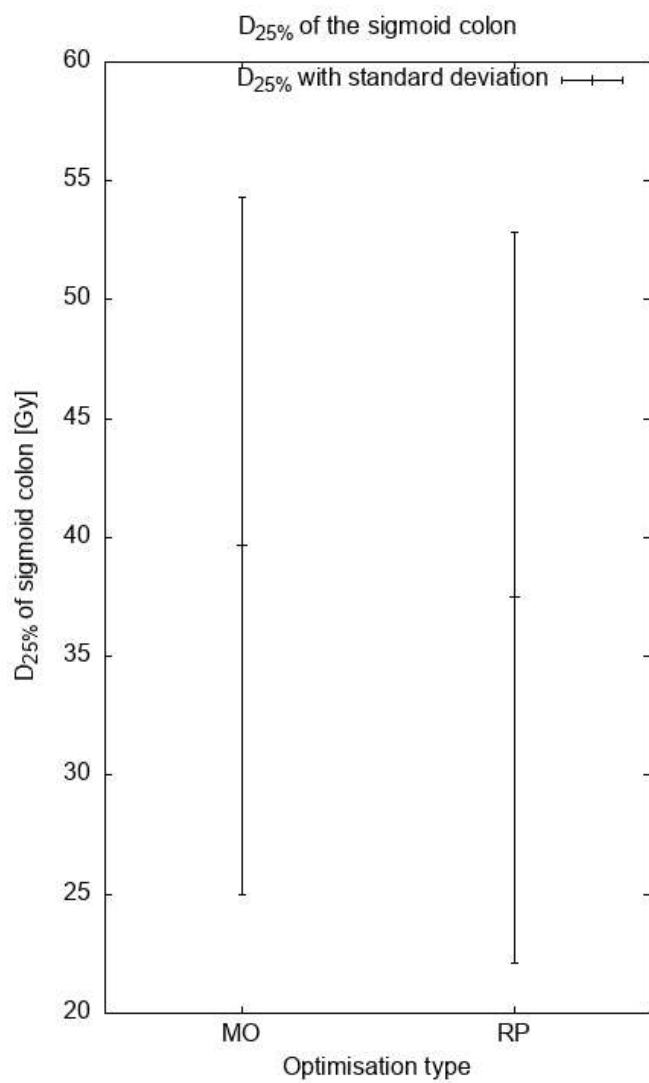


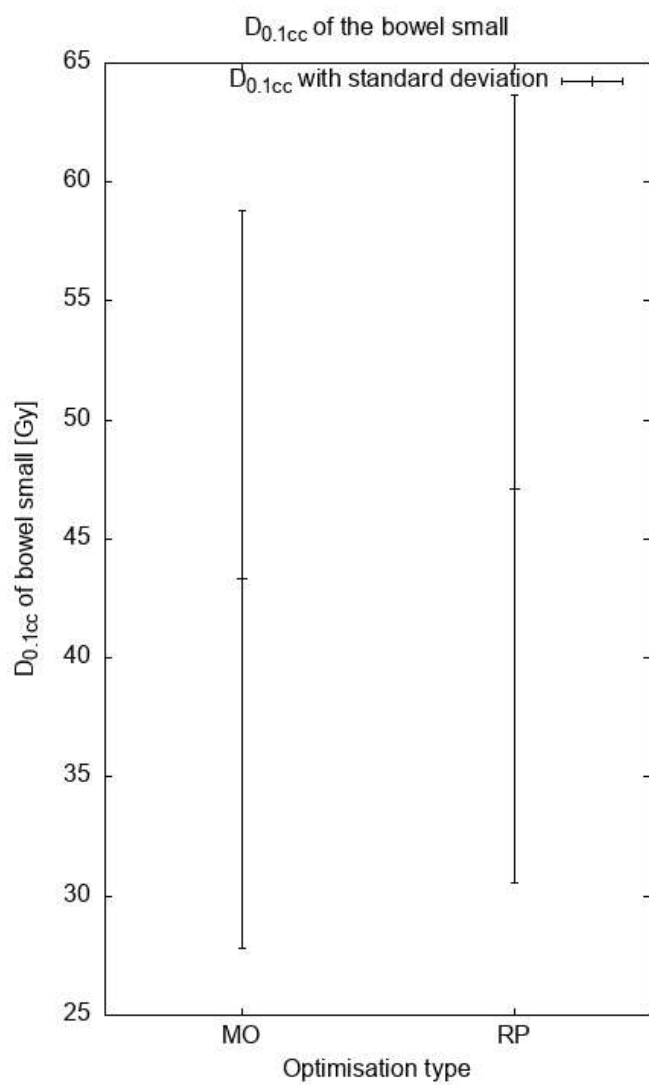
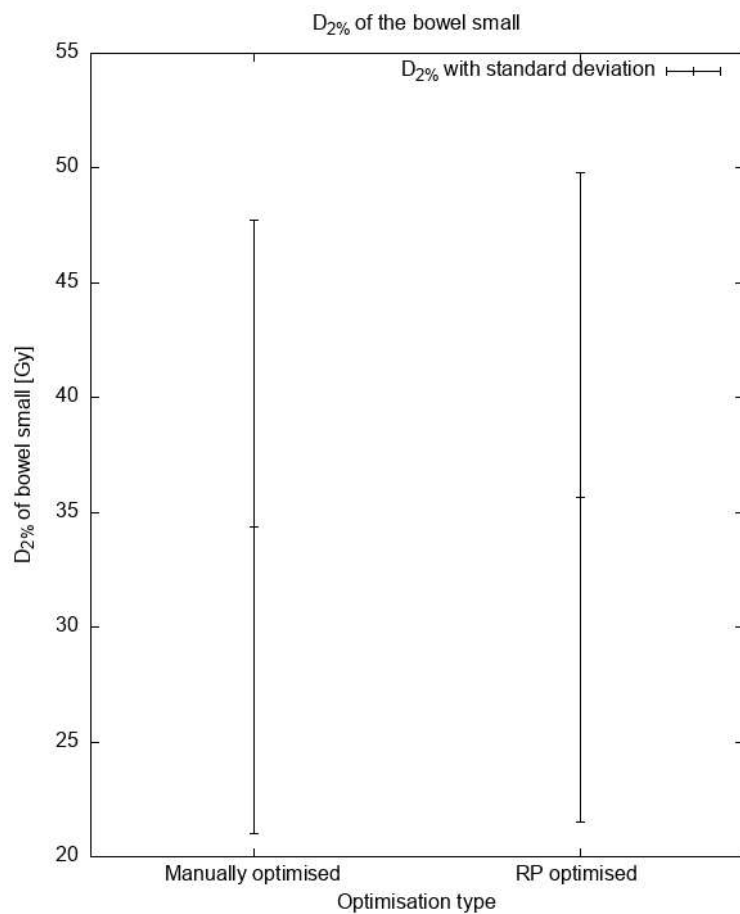
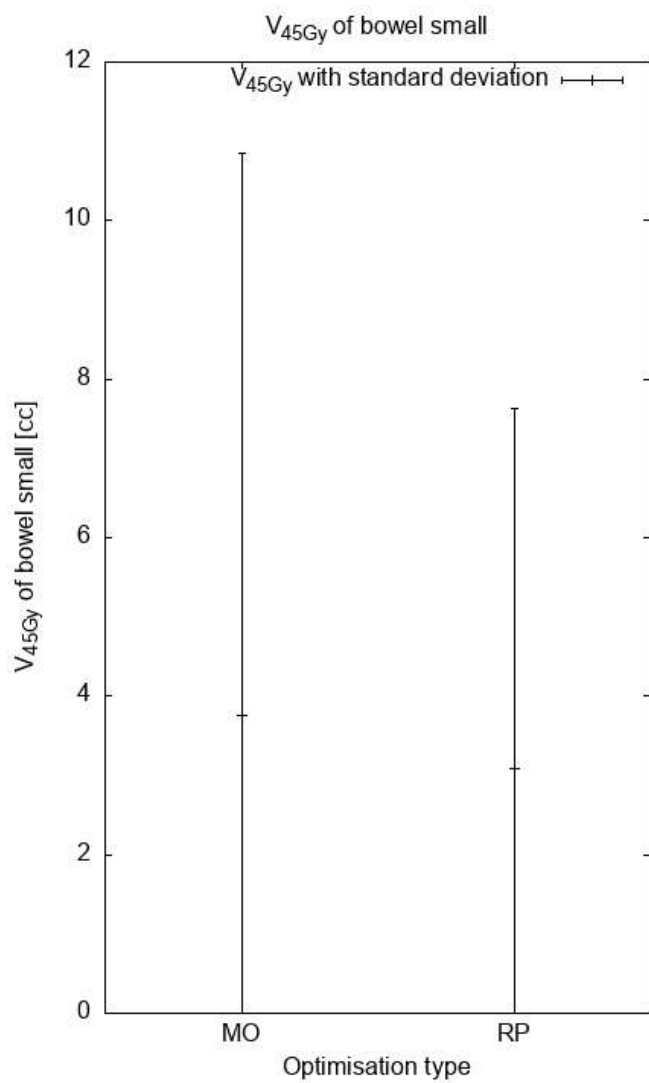




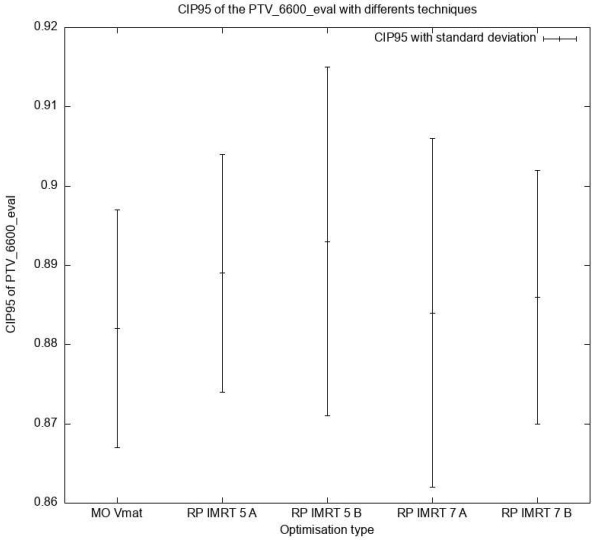
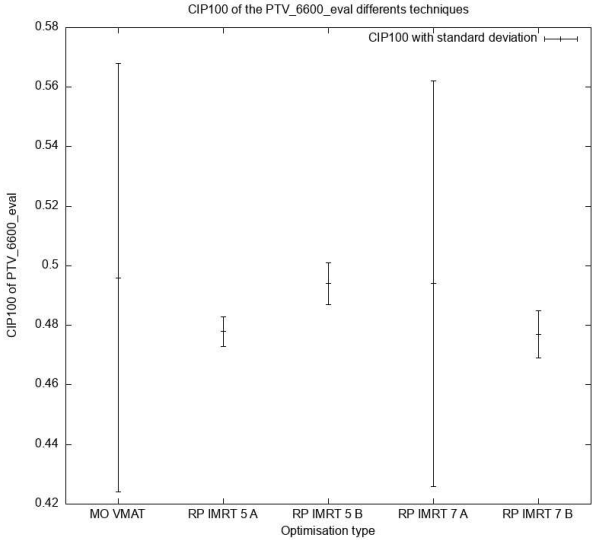
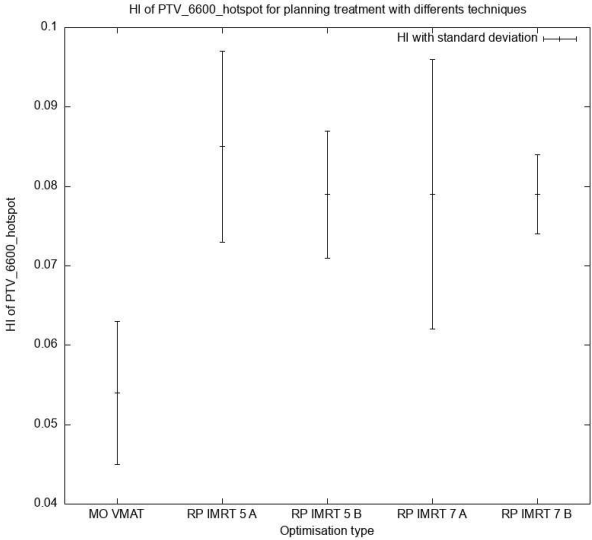
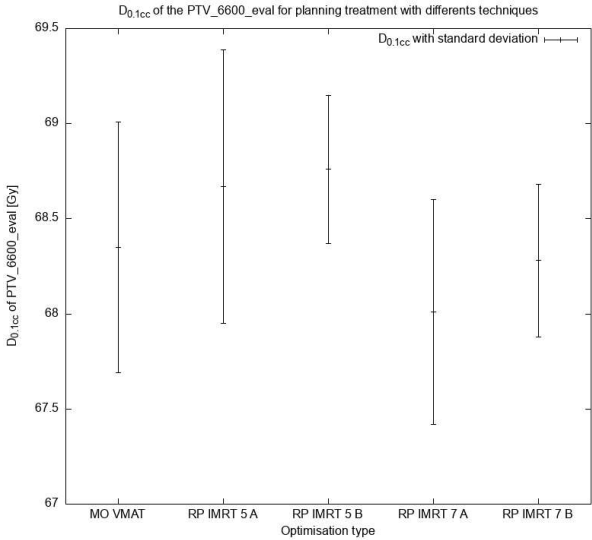
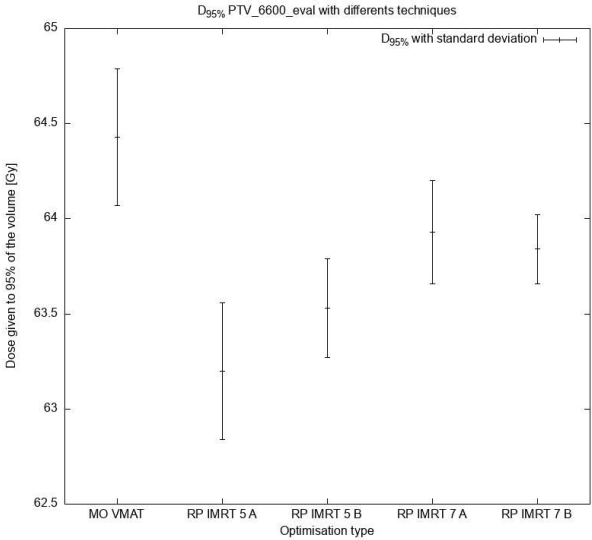


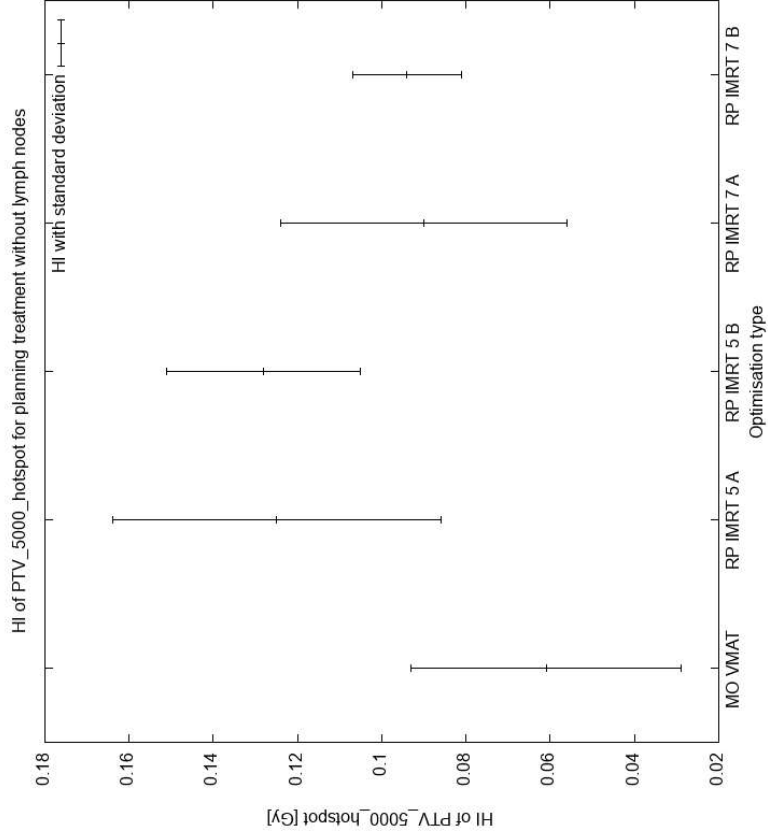
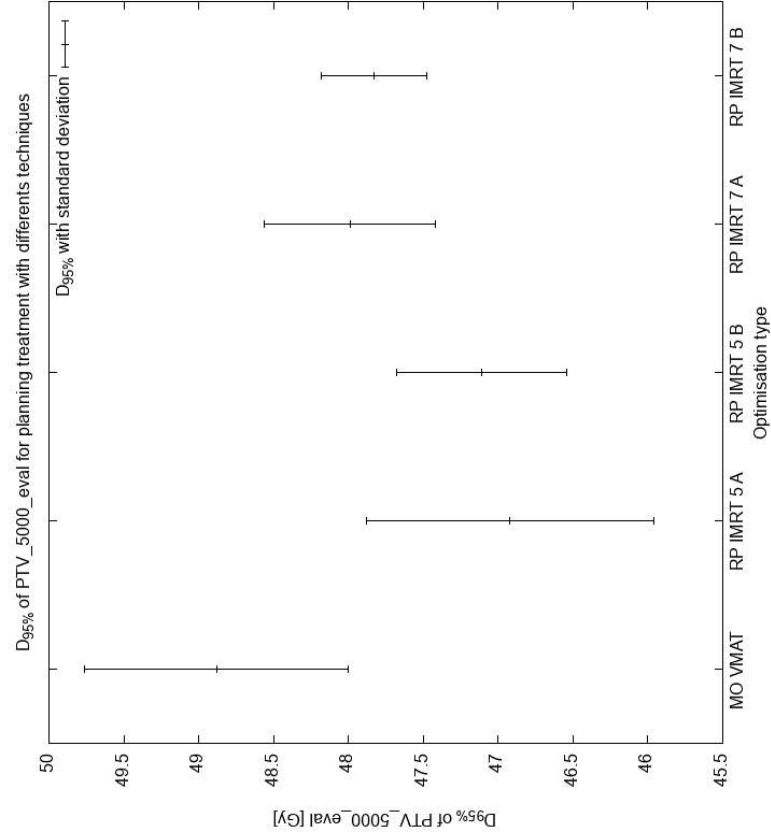
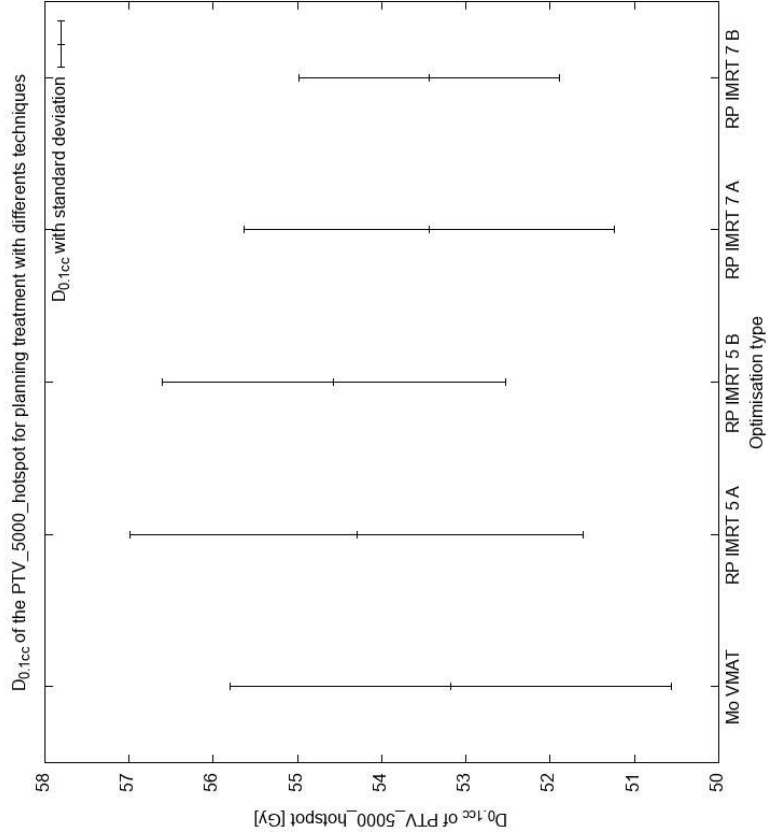




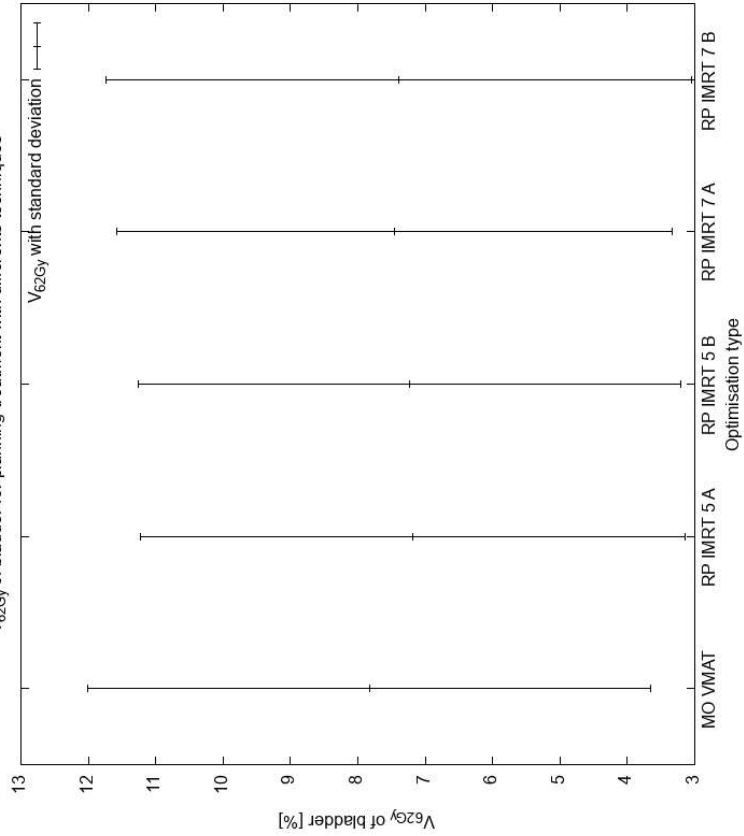


IMRT test RapidPlan

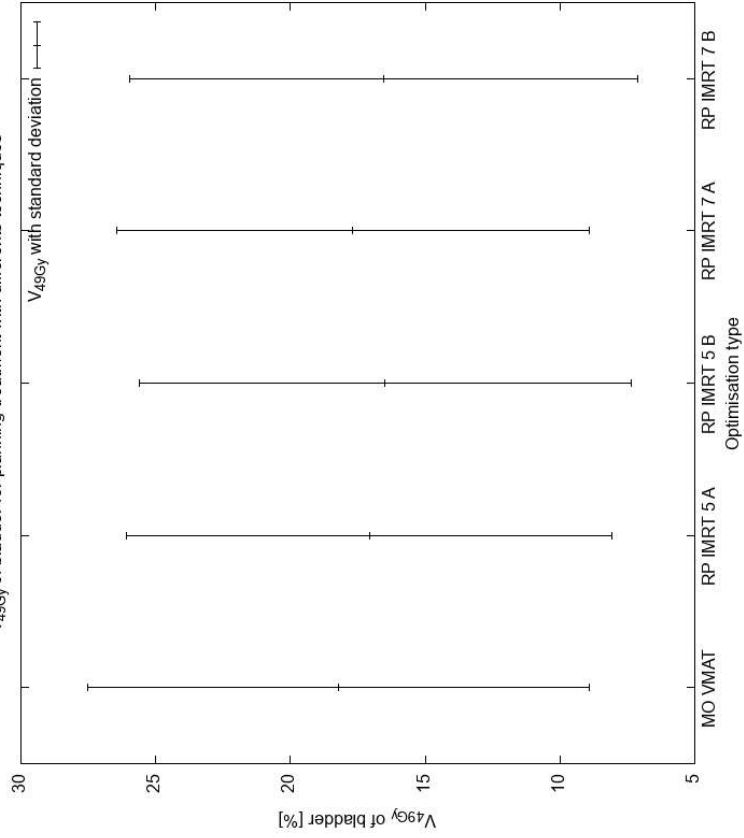




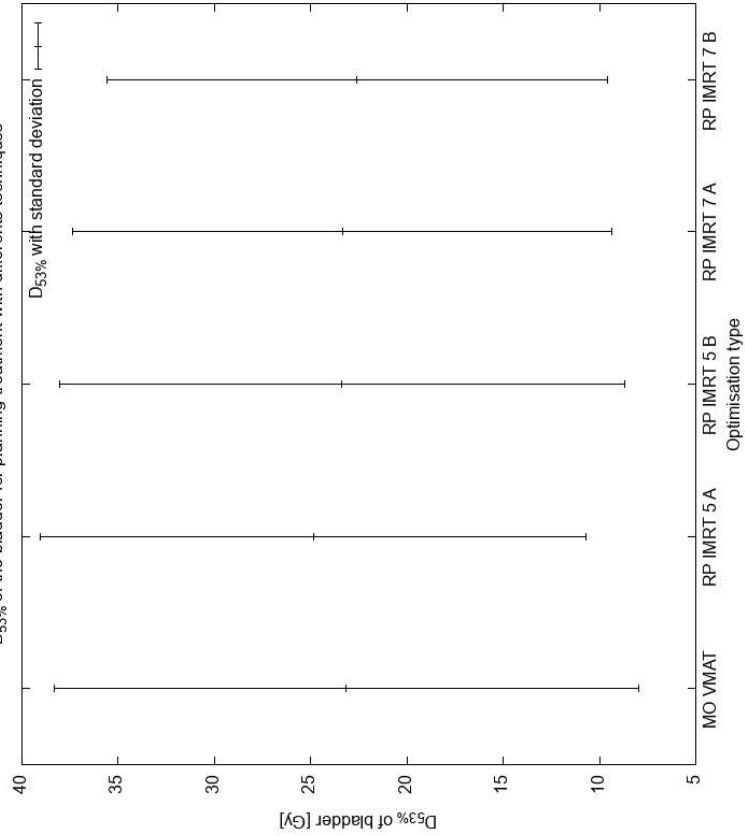
V_{62Gy} of bladder for planning treatment with different techniques



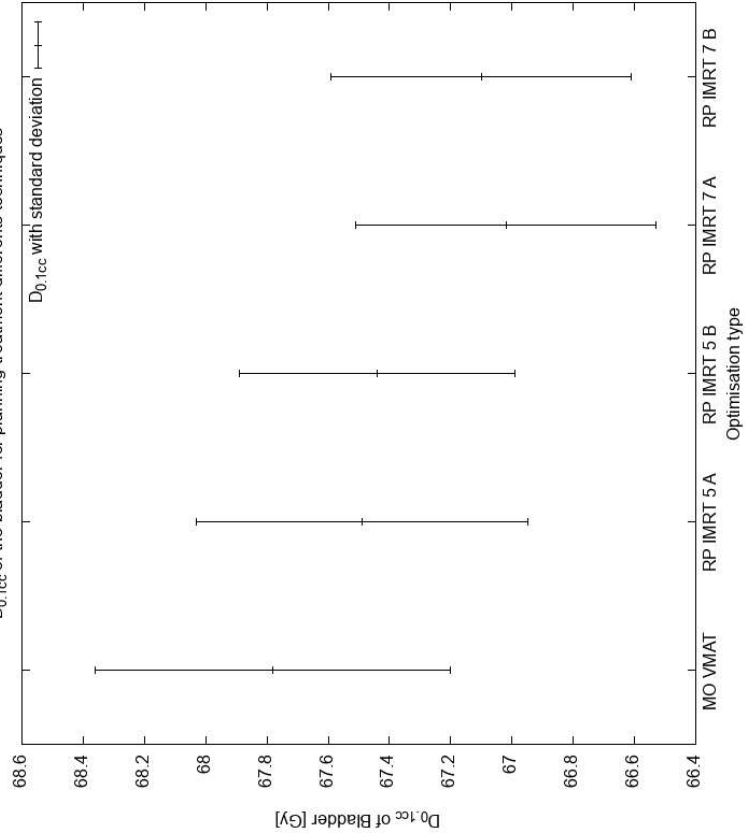
V_{49Gy} of bladder for planning treatment with different techniques

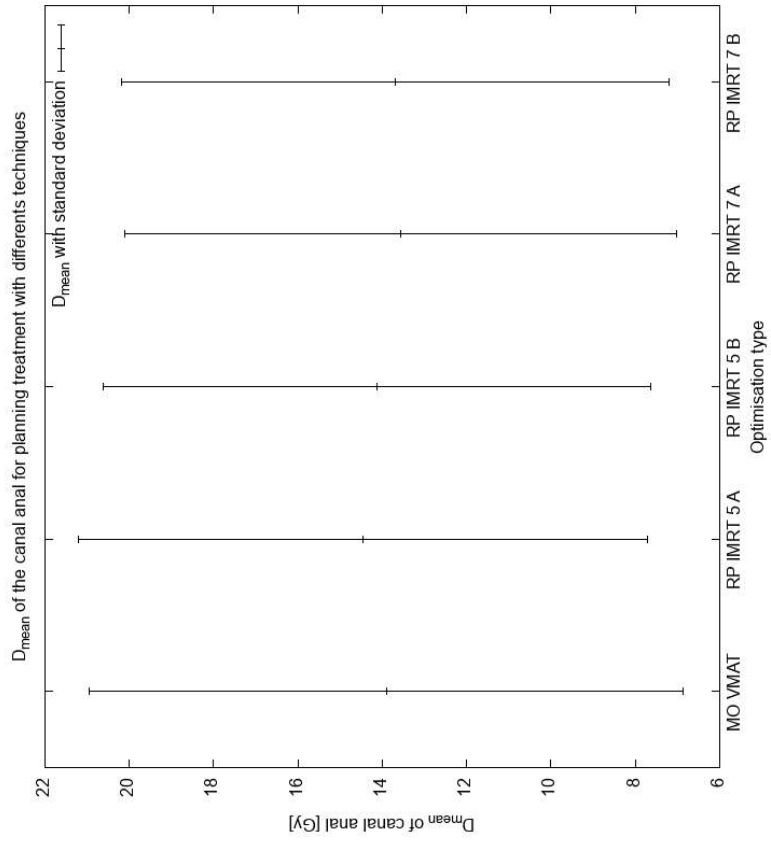


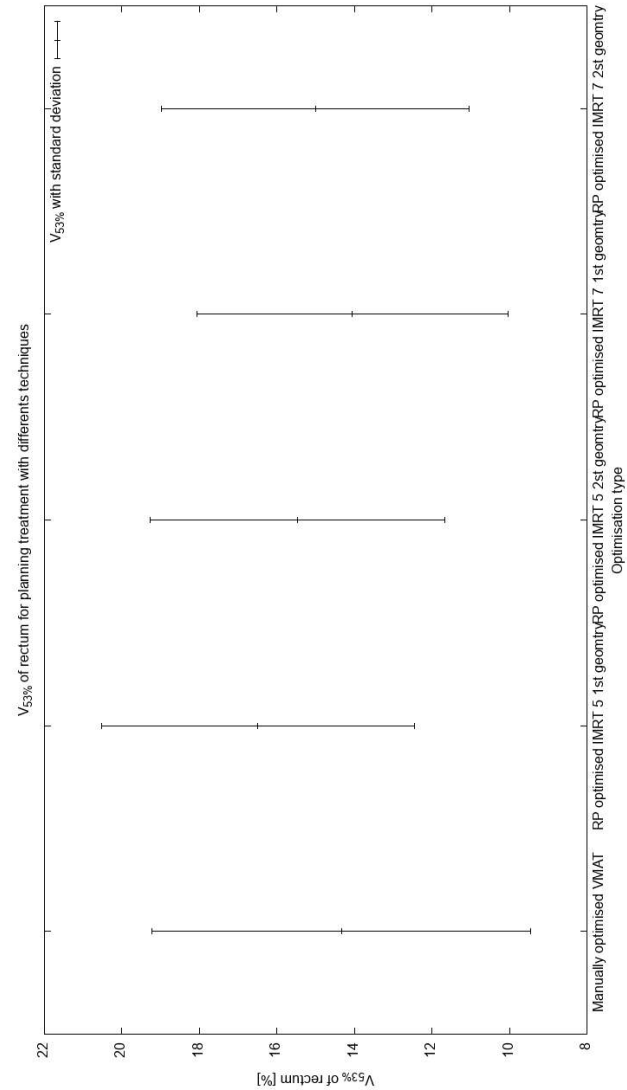
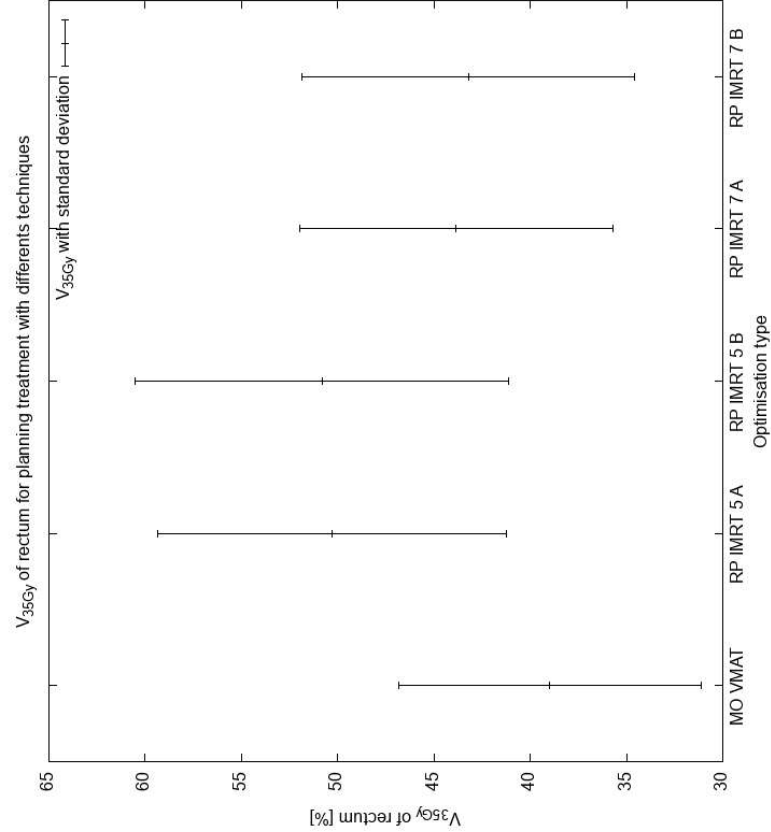
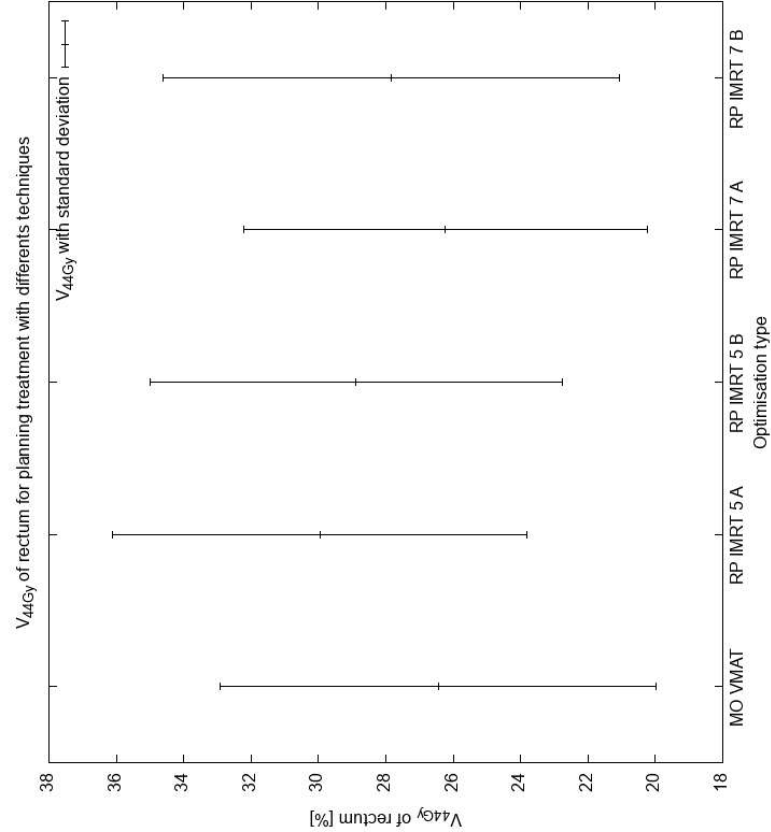
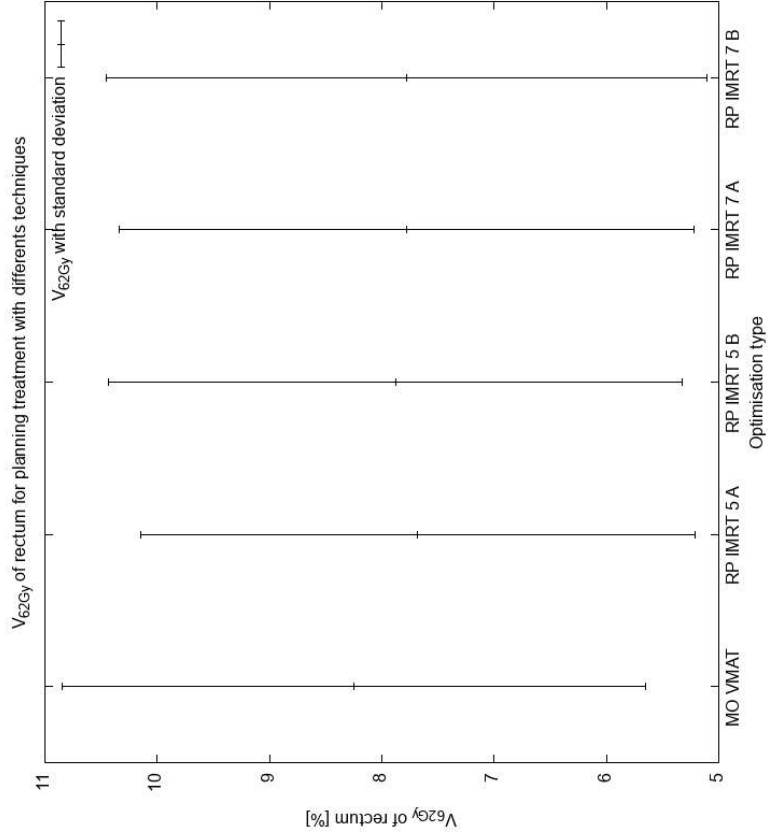
$D_{53\%}$ of the bladder for planning treatment with different techniques



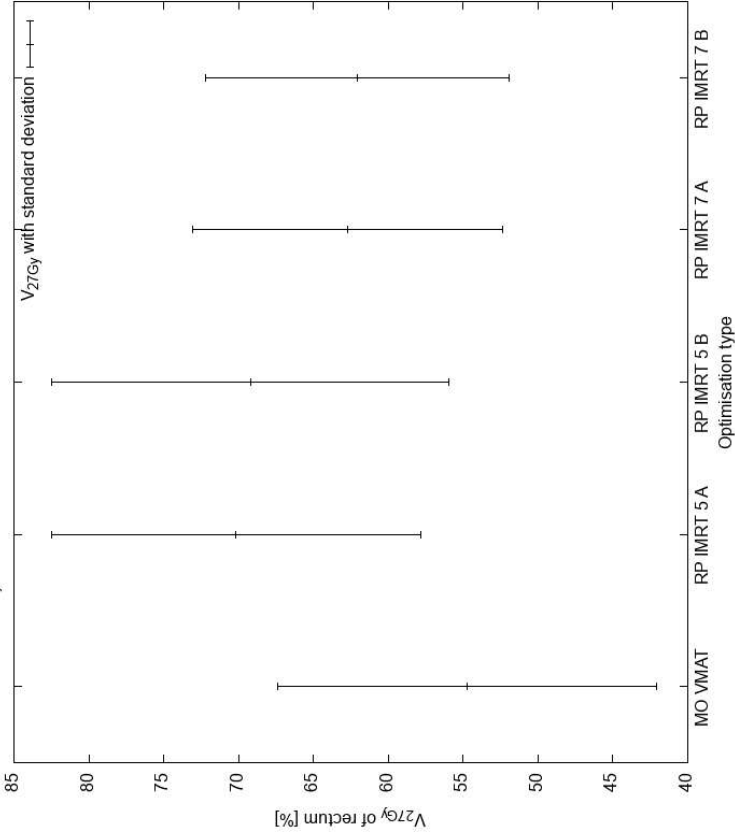
$D_{0.1cc}$ of the bladder for planning treatment different techniques



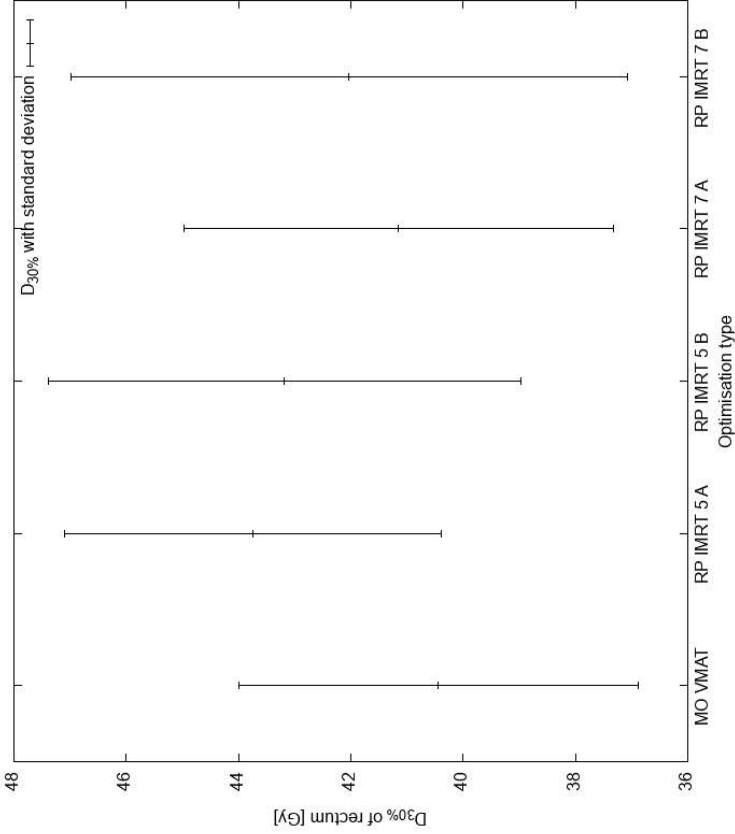




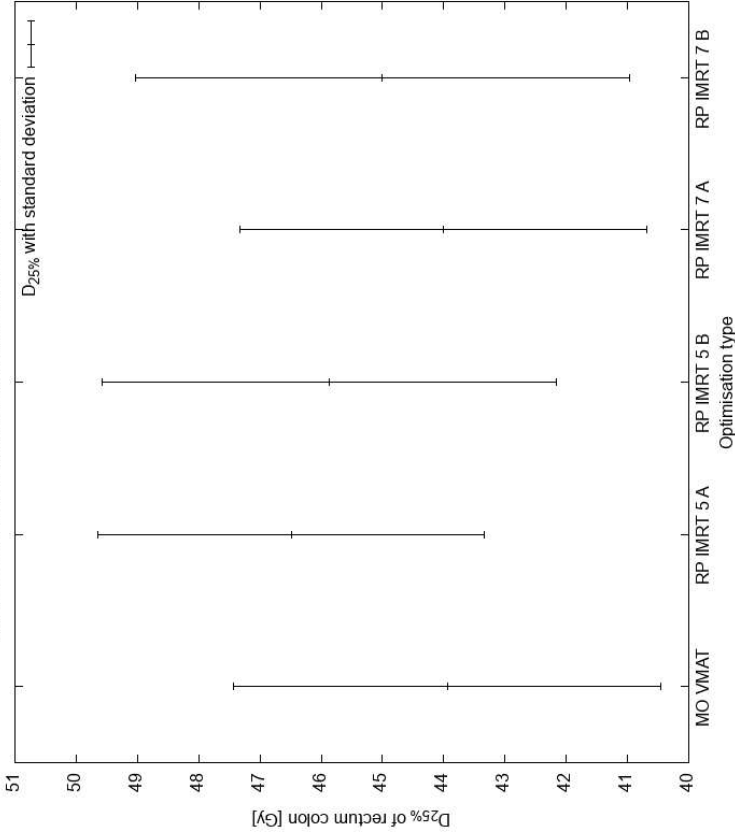
V_{27Gy} of rectum for planning treatment with differents techniques



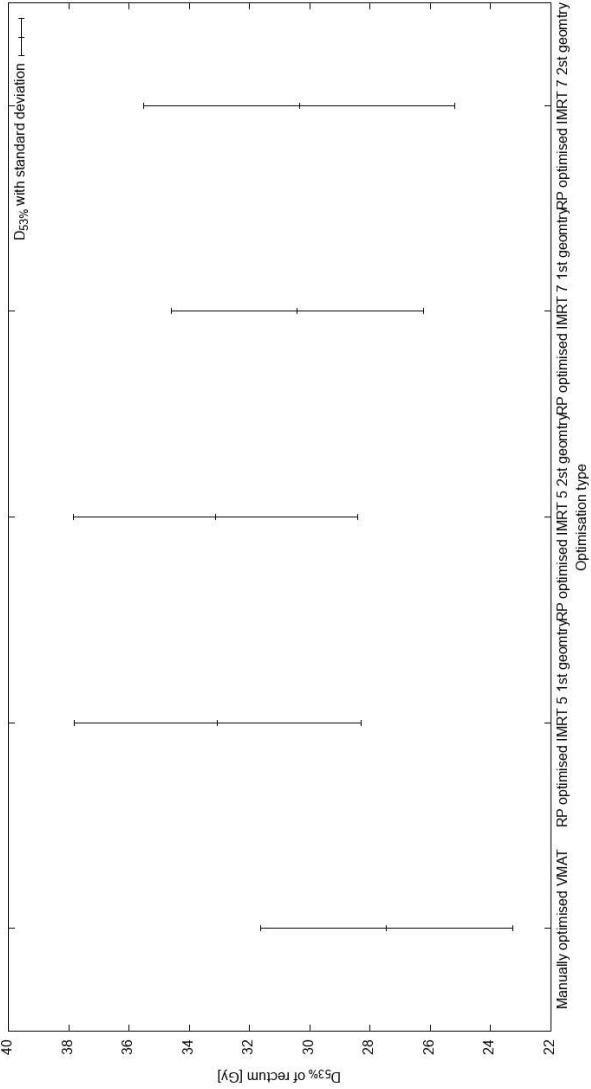
D_{30%} of the rectum for planning treatment with differents techniques

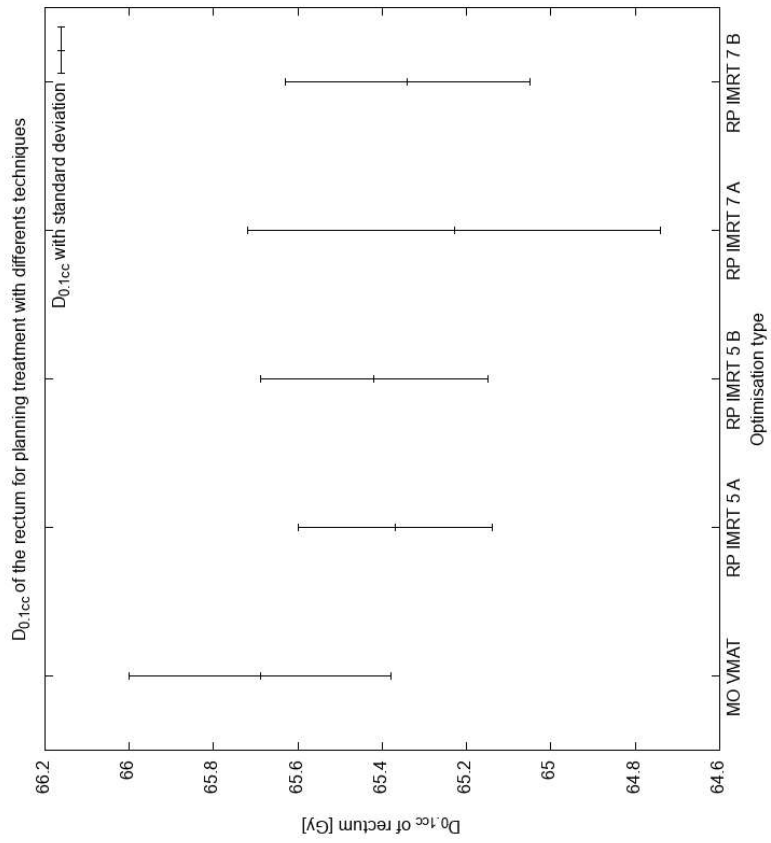


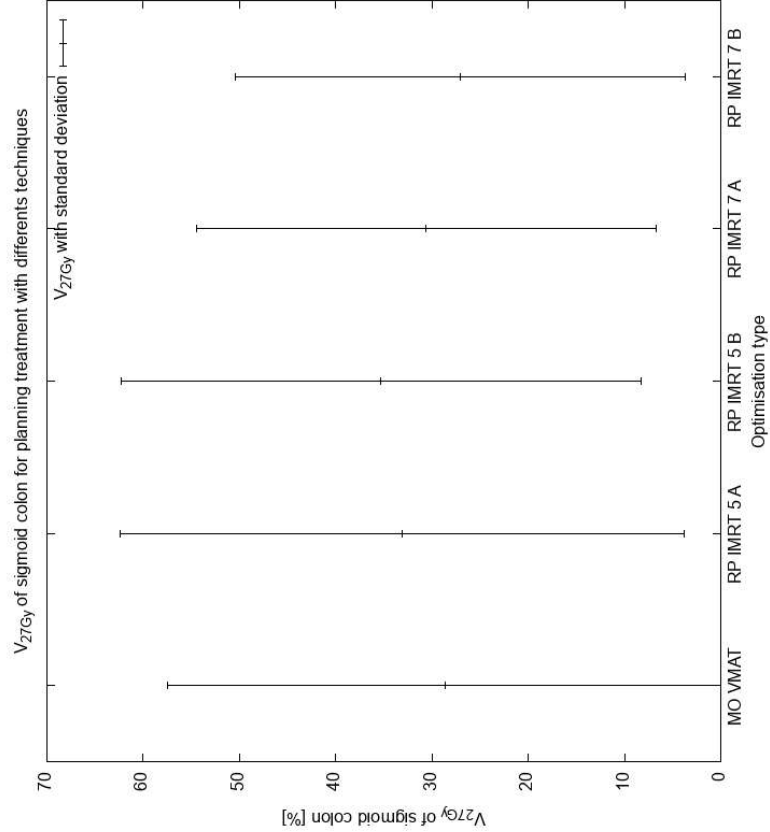
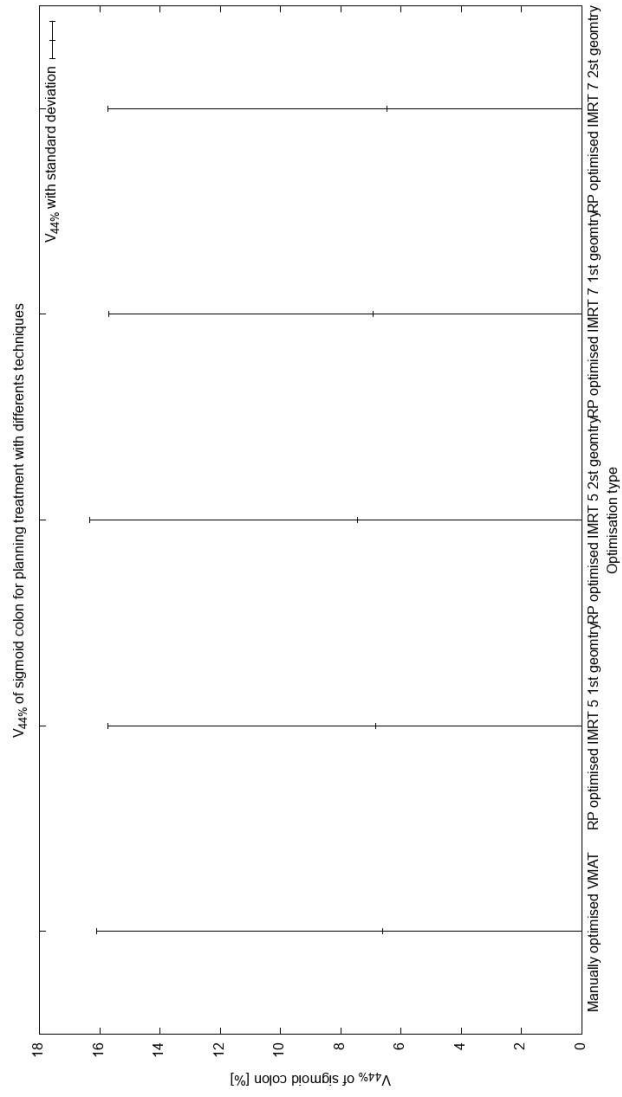
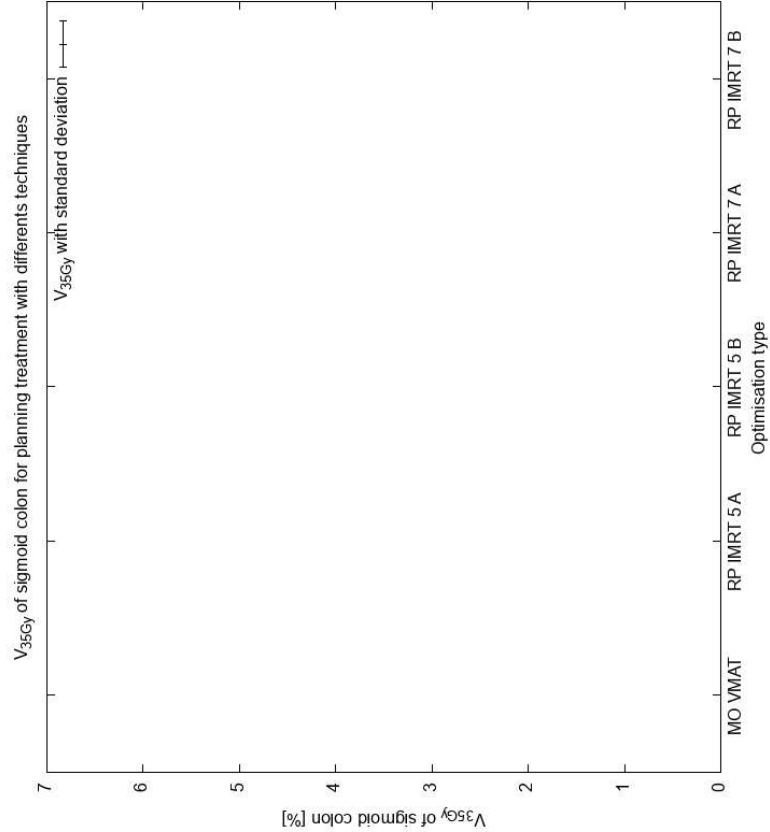
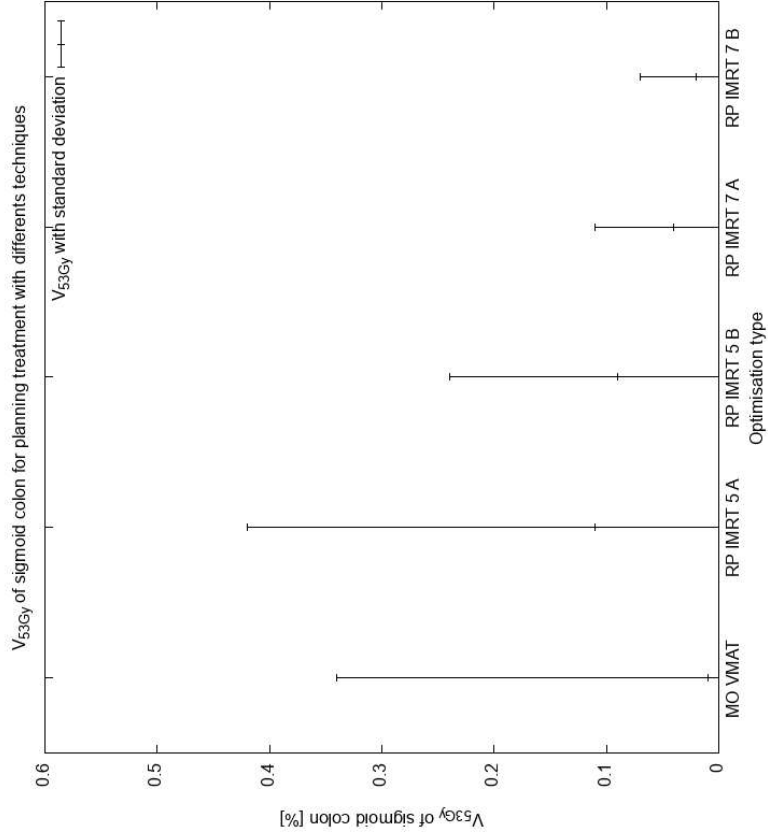
D_{25%} of the rectum for planning treatment with differents techniques



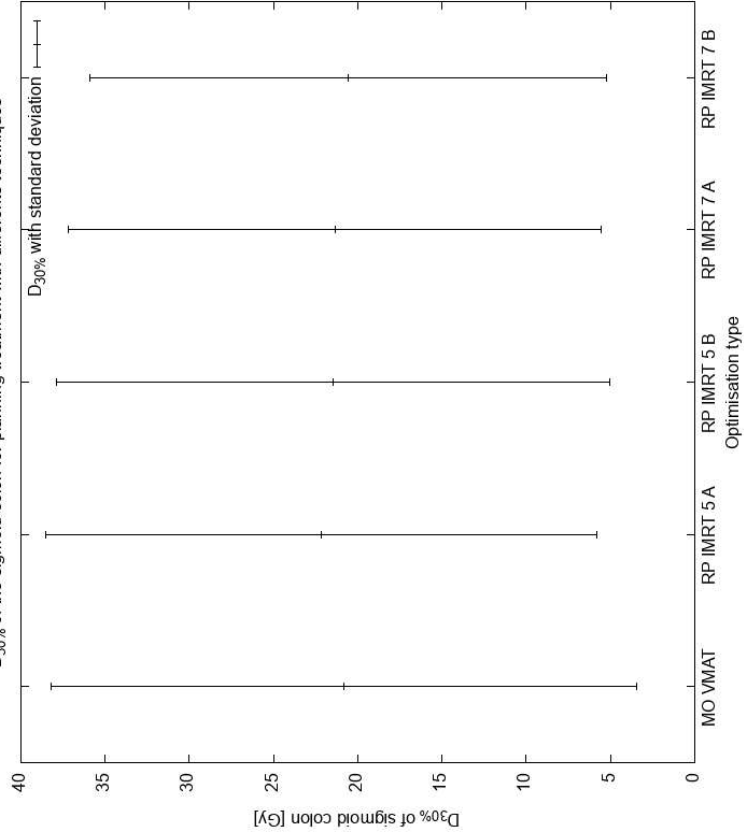
D_{53%} of the rectum for planning treatment with differents techniques



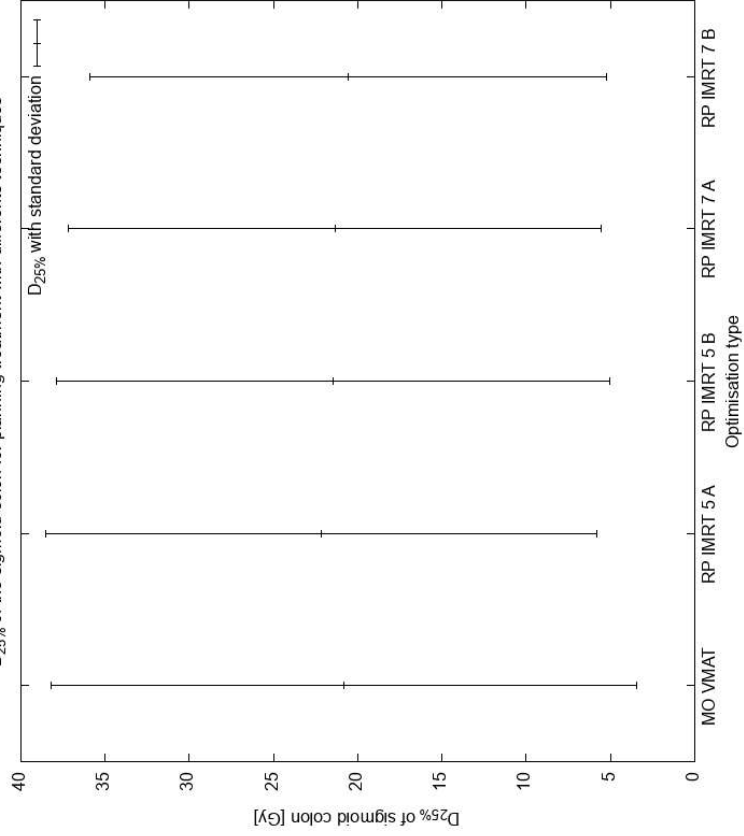




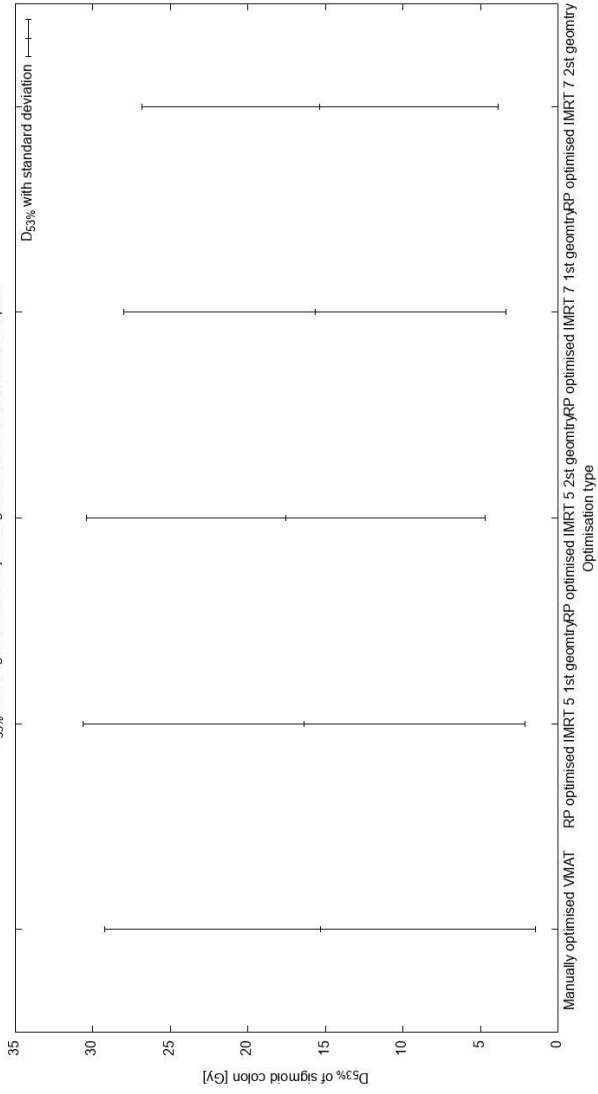
D_{30%} of the sigmoid colon for planning treatment with different techniques



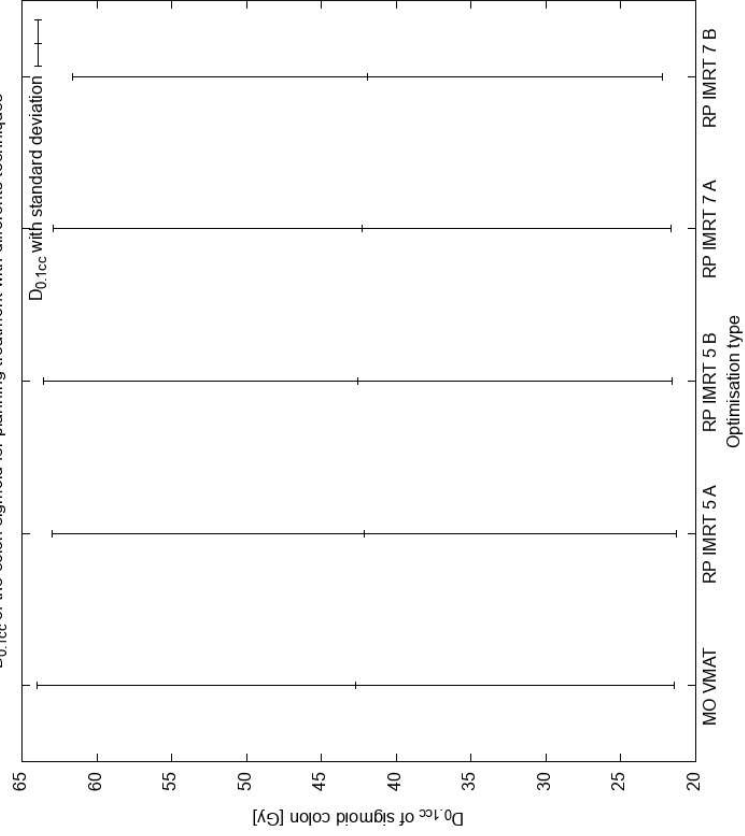
D_{25%} of the sigmoid colon for planning treatment with different techniques



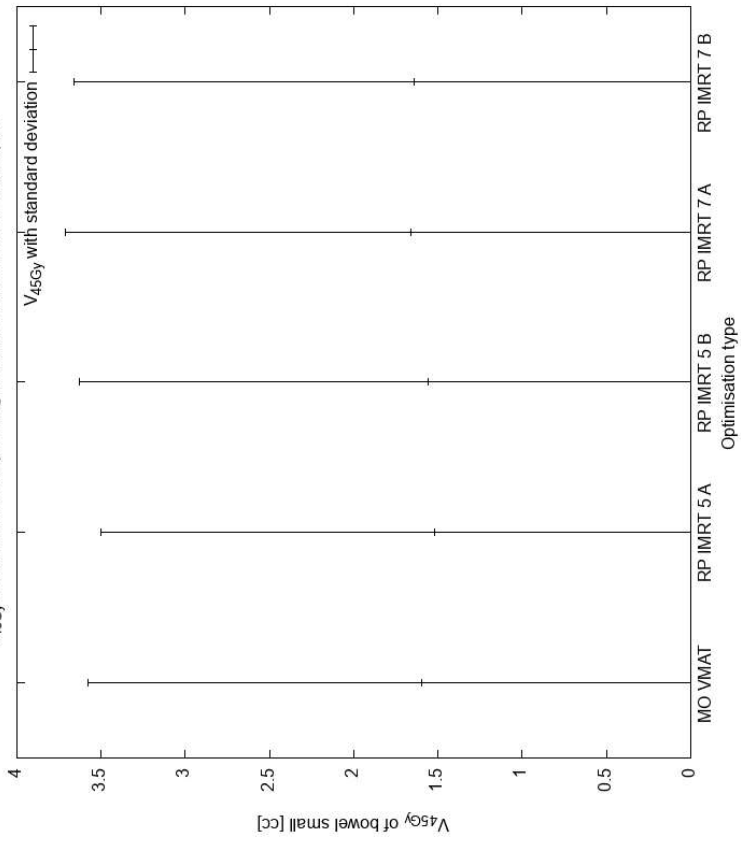
D_{53%} of the sigmoid colon for planning treatment with different techniques



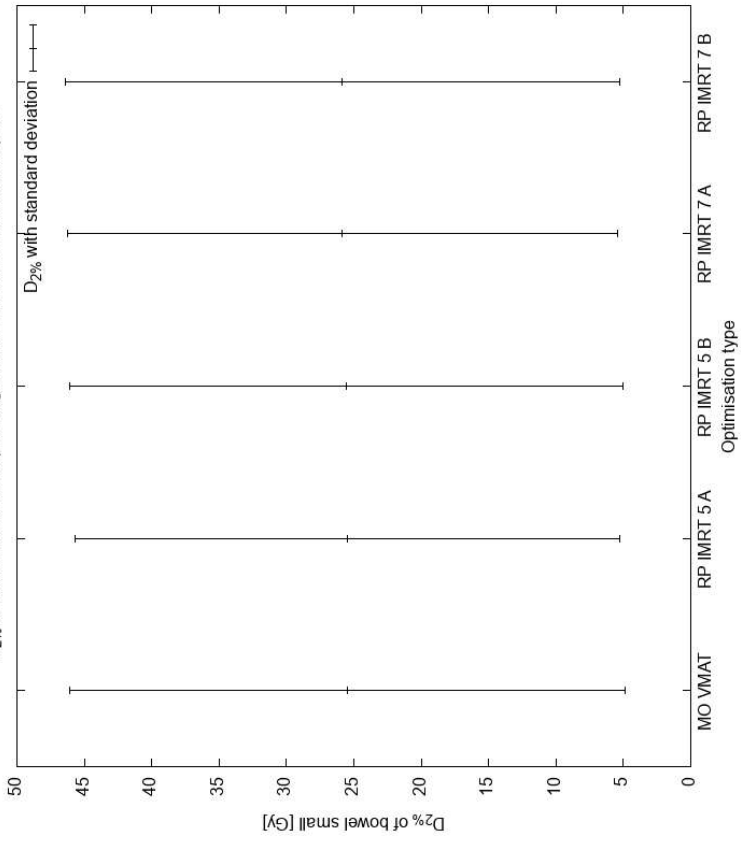
D_{0,1cc} of the colon sigmoid for planning treatment with different techniques



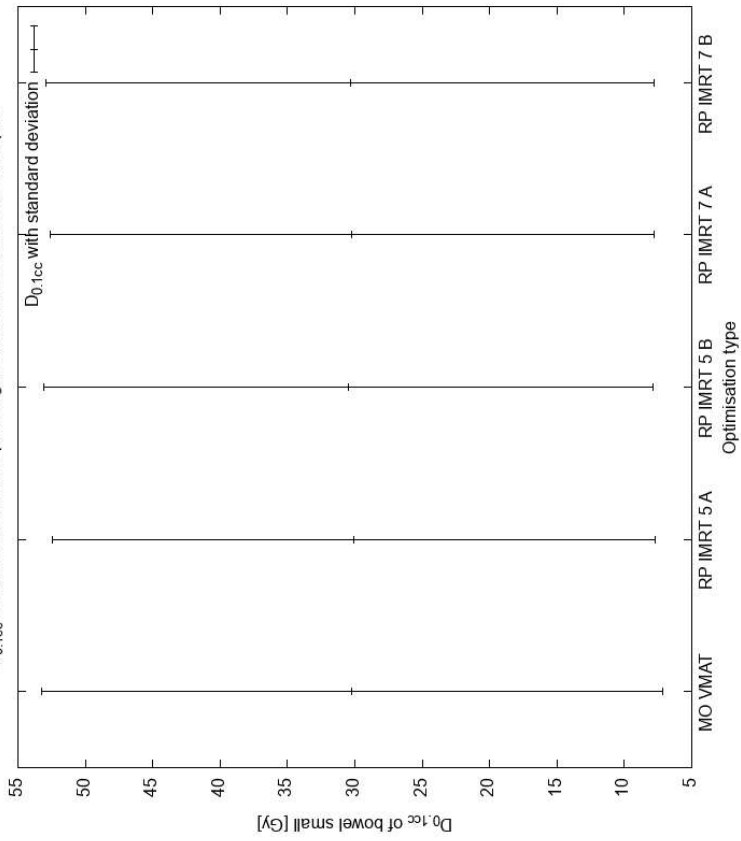
V_{45Gy} of bowel small for planning treatment with different techniques



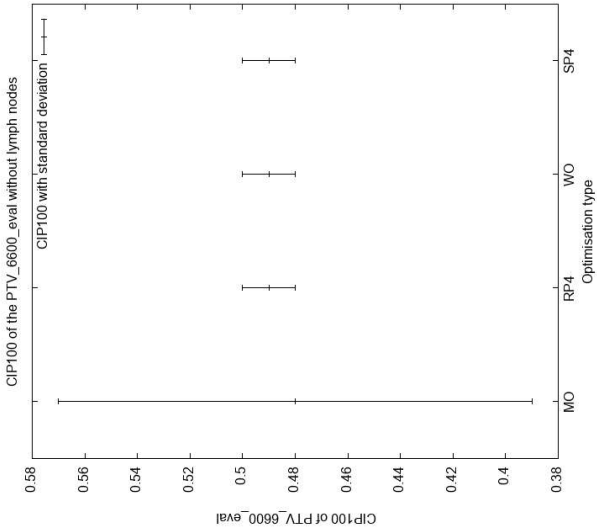
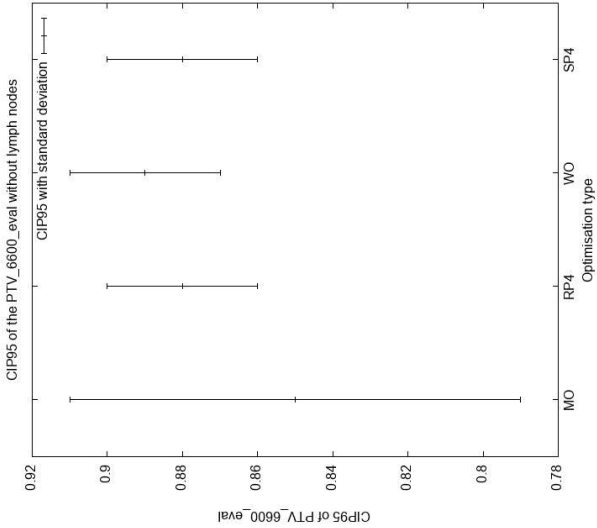
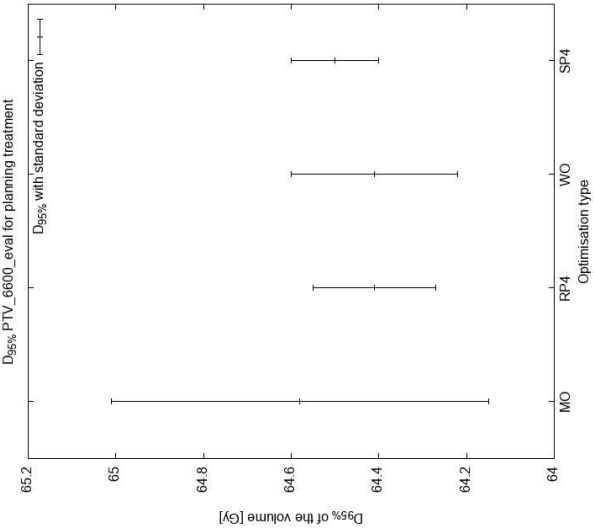
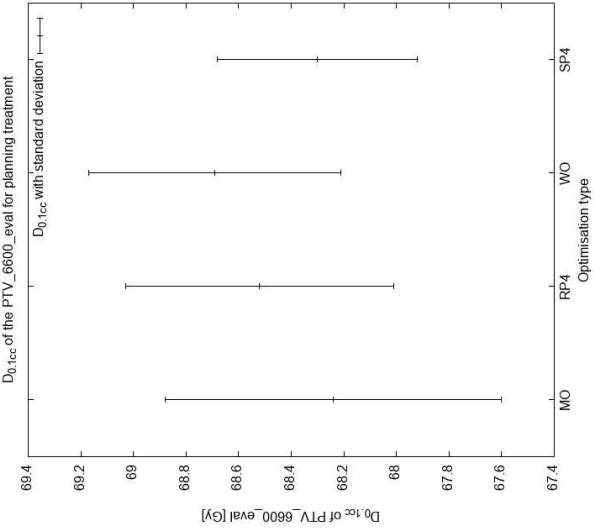
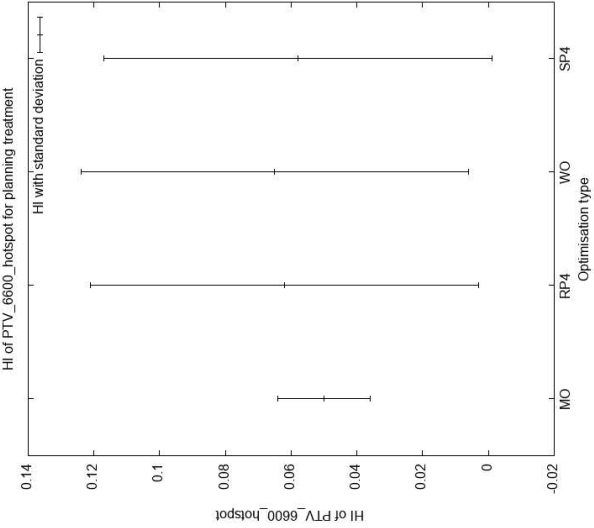
$D_{2\%}$ of the bowel small for planning treatment with different techniques

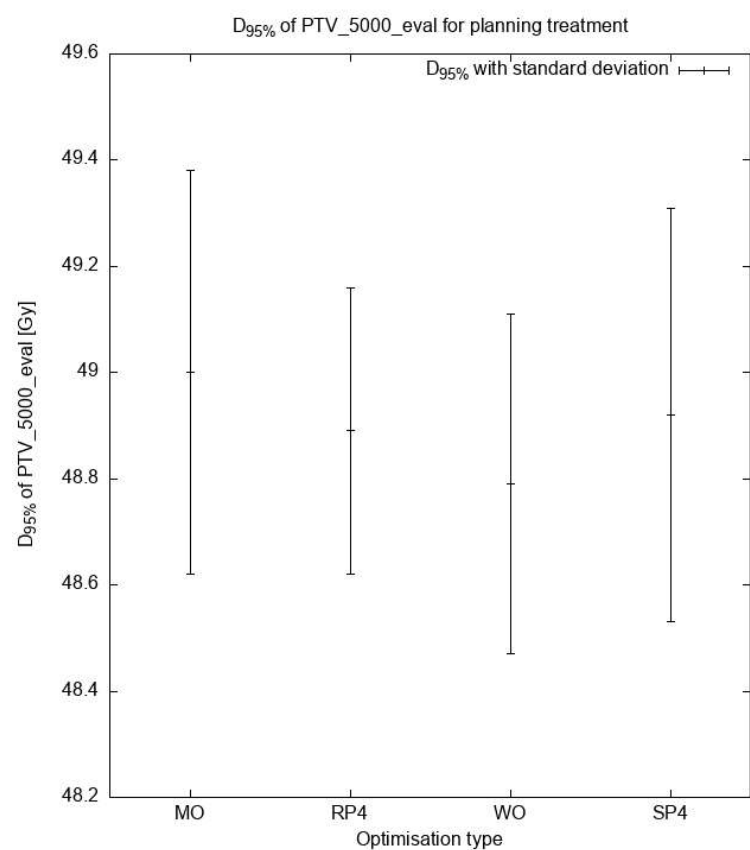
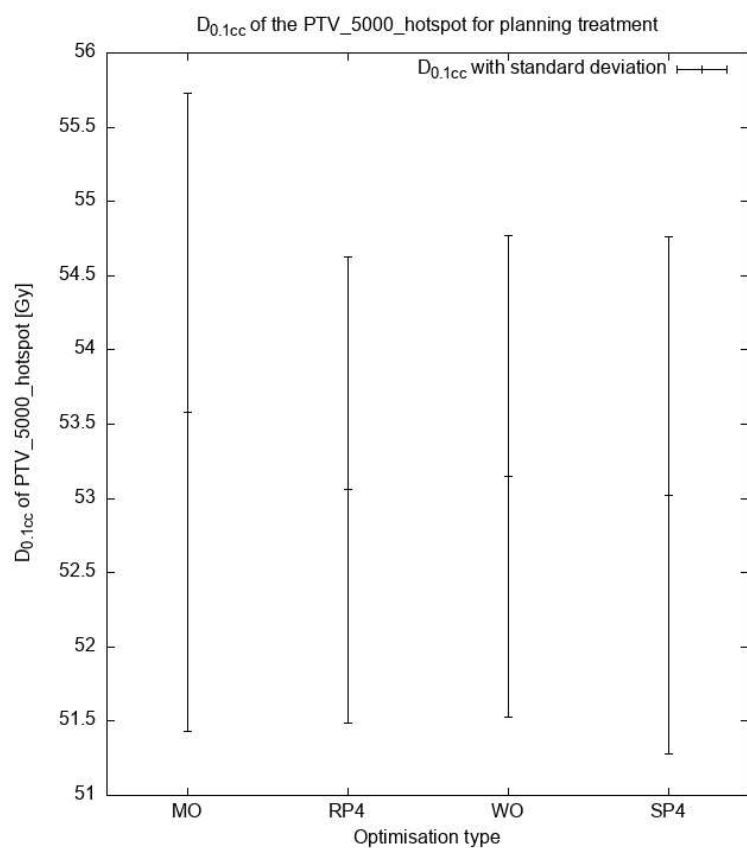
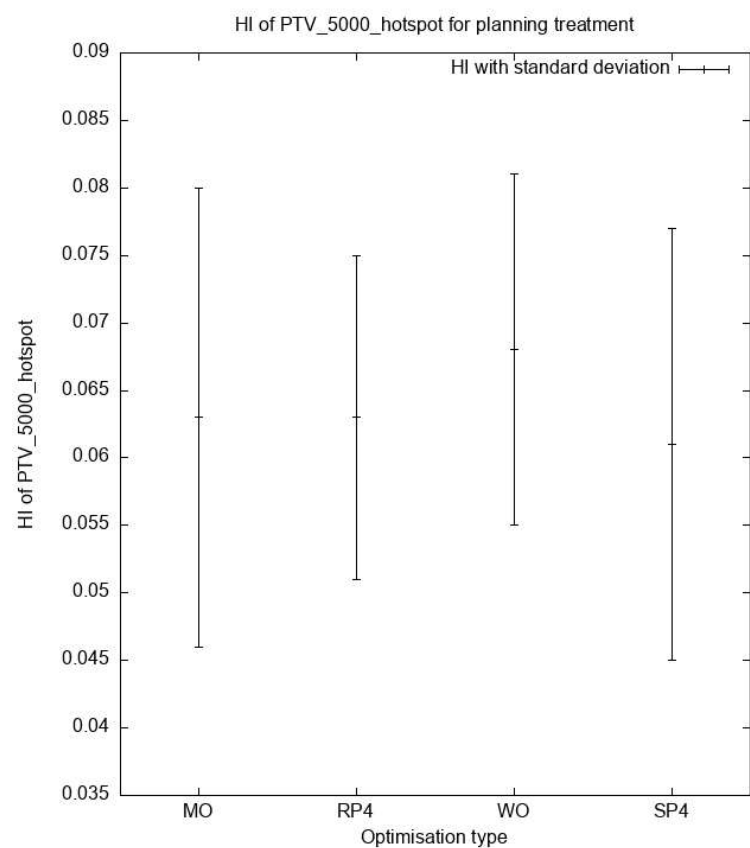


$D_{0.1cc}$ of the bowel small for planning treatment with different techniques

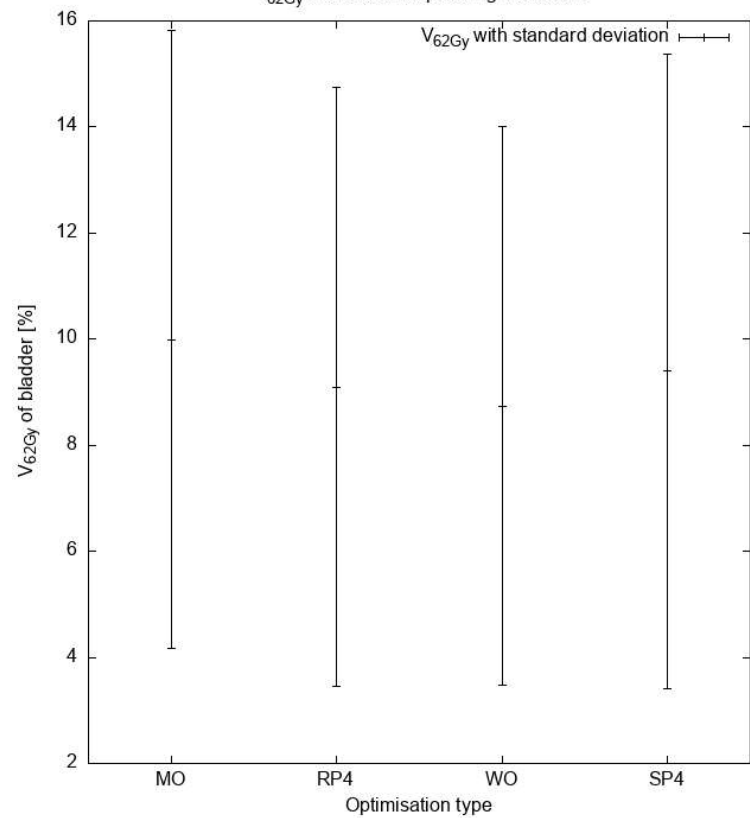


Test for two new models : SP4 and WO

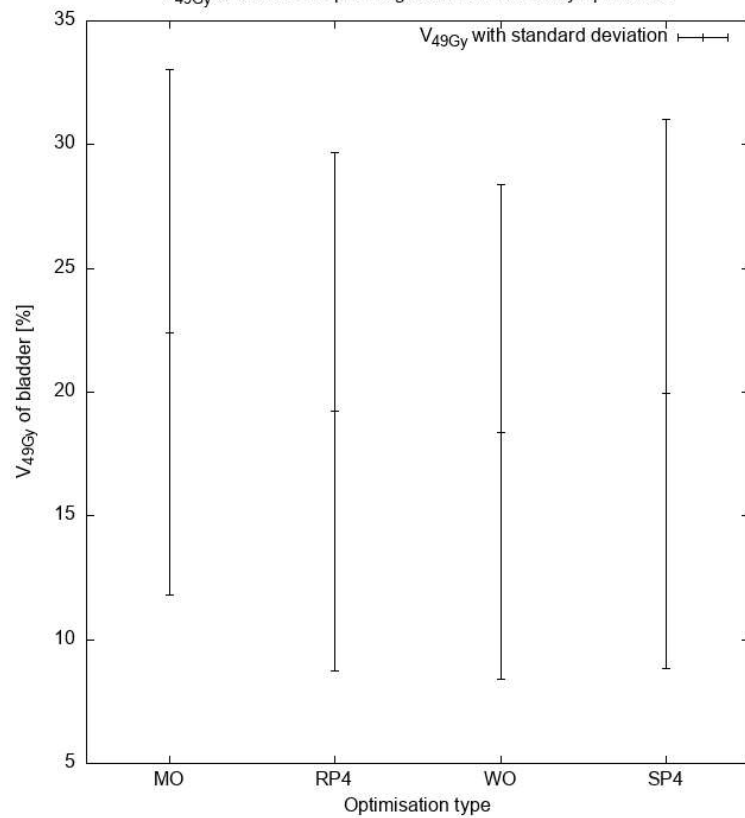




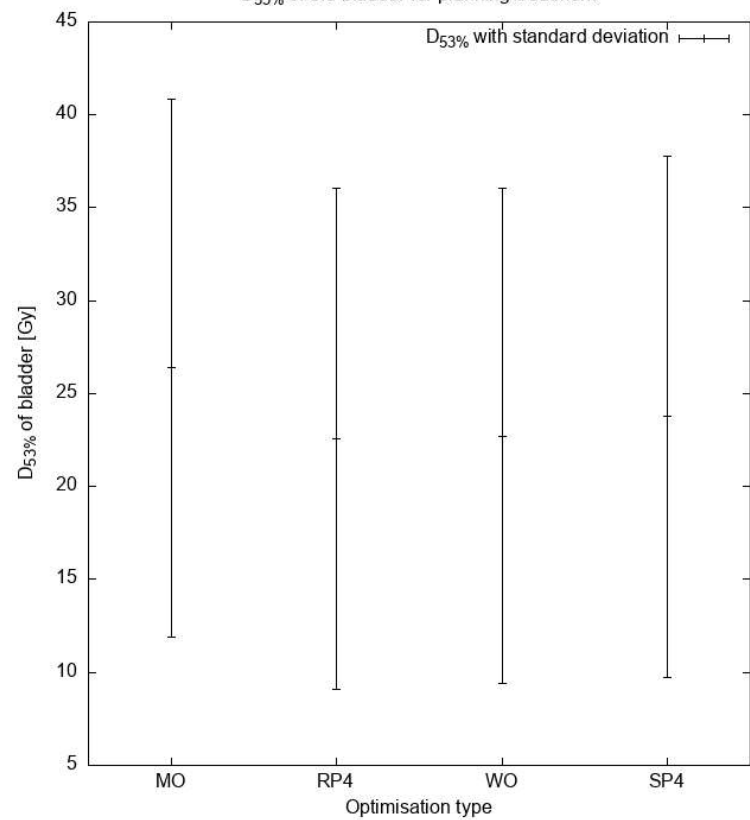
$V_{62\text{Gy}}$ of bladder for planning treatment



$V_{49\text{Gy}}$ of bladder for planning treatment without lymph nodes



$D_{53\%}$ of the bladder for planning treatment



$D_{0.1\text{cc}}$ of the bladder for planning treatment

