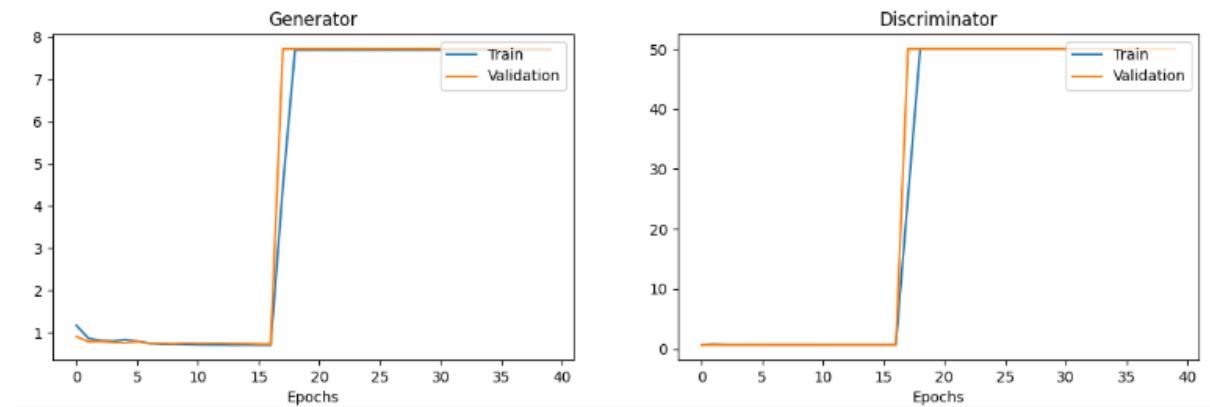


Sweep10:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 4,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": false,  
    "intensity": 0.3157719473254114,  
    "noise_mean": 0.7469069764183585,  
    "noise_std": 0.17845815118827982,  
    "criterion": "BCELoss",  
    "regularizer": "MSE",  
    "regularization_level": 8,  
    "optimizer_lr": 0.0003112552399642628,  
    "optimizer_beta": 0.4597517629105646  
}
```

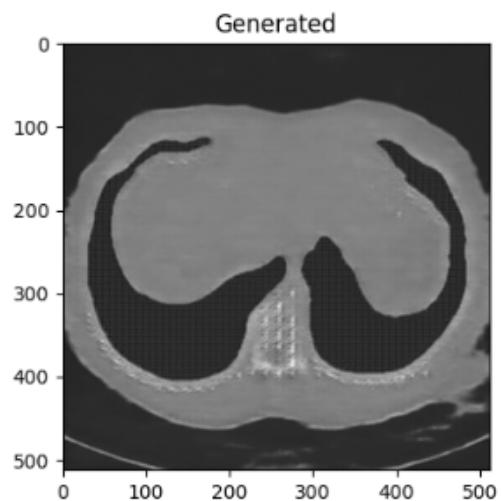
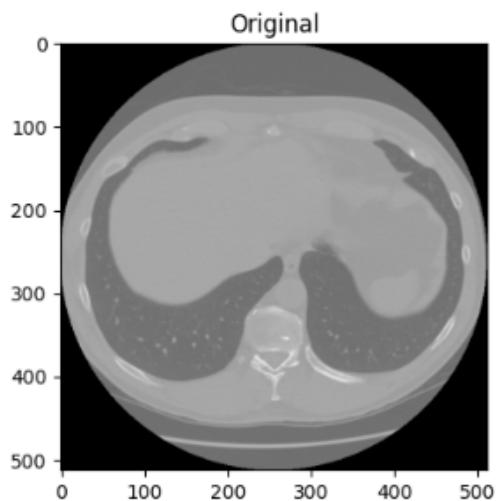
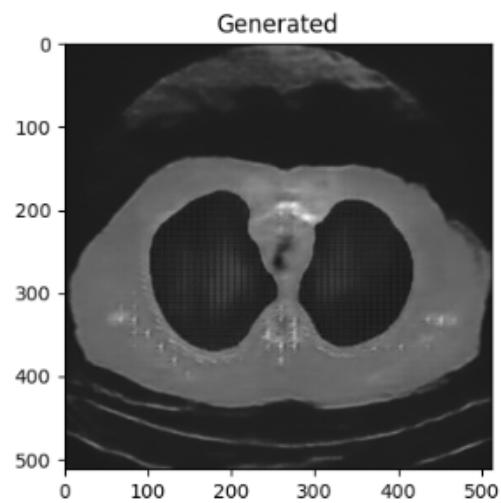
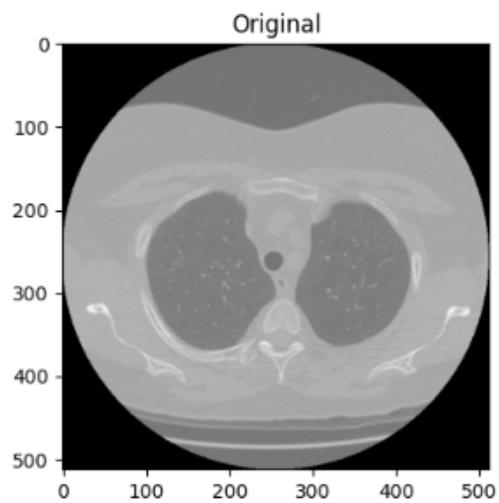
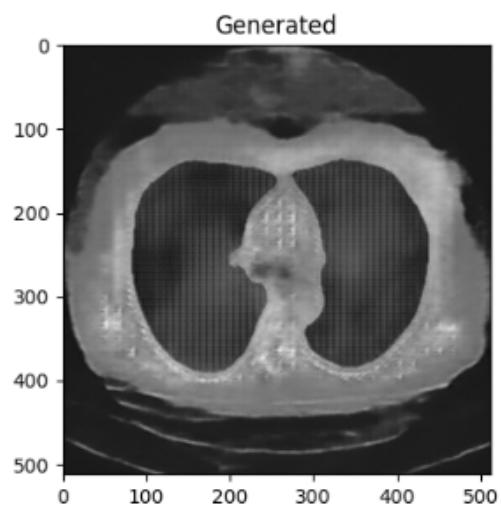
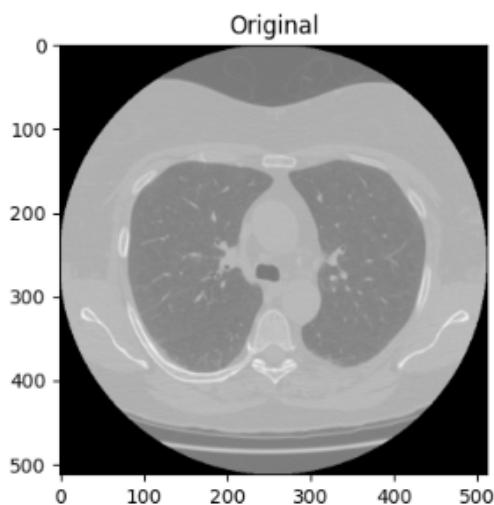
Melhor modelo: época 17

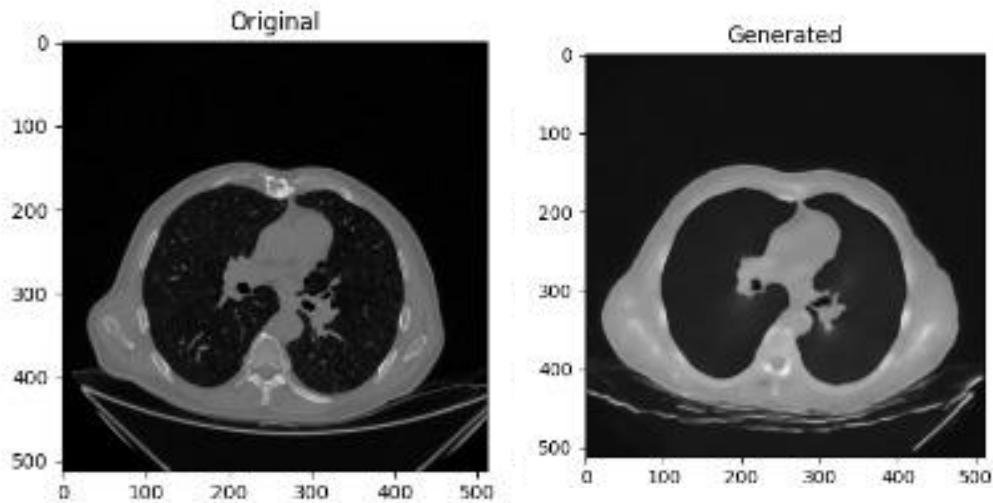


Métricas:

```
{  
    "fid": 335.2427761838304,  
    "ssim_complete_mean": 0.6254112471415655,  
    "ssim_complete_std": 0.24085973511049694,  
    "luminance_complete": 0.7481749338945958,  
    "contrast_complete": 0.9314571242492827,  
    "struct_sim_complete": 0.8668365623247514,  
    "ssim_center_mean": 0.7065009961027625,  
    "ssim_center_std": 0.21001197291512,  
    "luminance_center": 0.7457765783522318,  
    "contrast_center": 0.9815769862876147,  
    "struct_sim_center": 0.9652826558076644  
}
```

Exemplos:



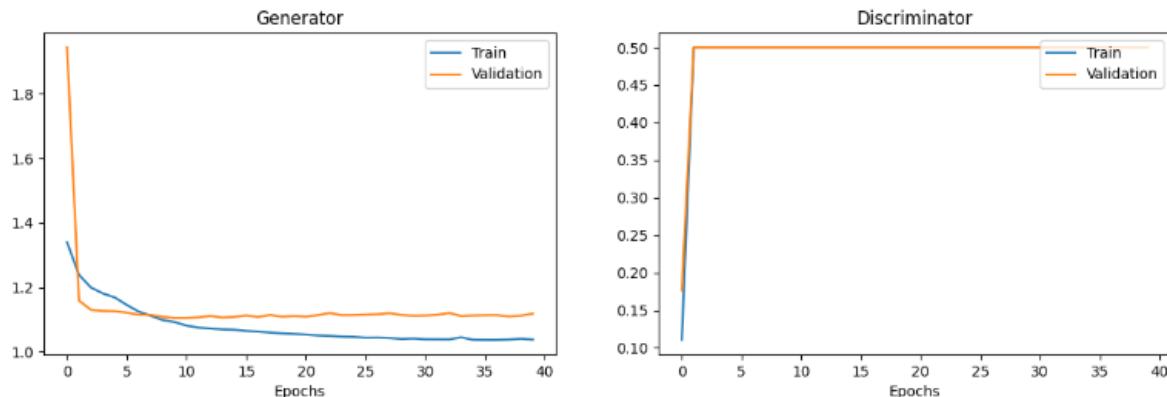


Sweep64:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 1,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.8185145299699786,  
    "noise_mean": 0.5597838196435154,  
    "noise_std": 0.2229110594696566,  
    "criterion": "MSELoss",  
    "regularizer": "MAE",  
    "regularization_level": 3,  
    "optimizer_lr": 0.0003745064623468397,  
    "optimizer_beta": 0.8659691522594926  
}
```

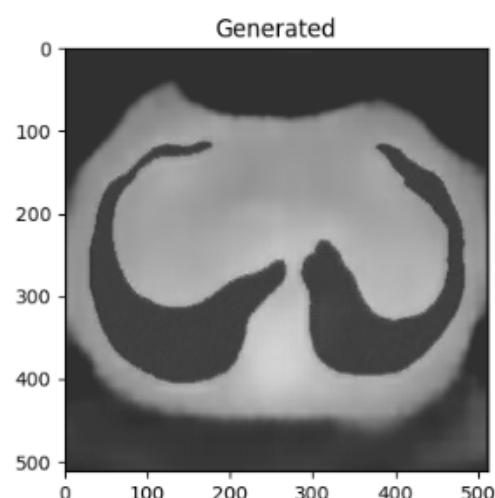
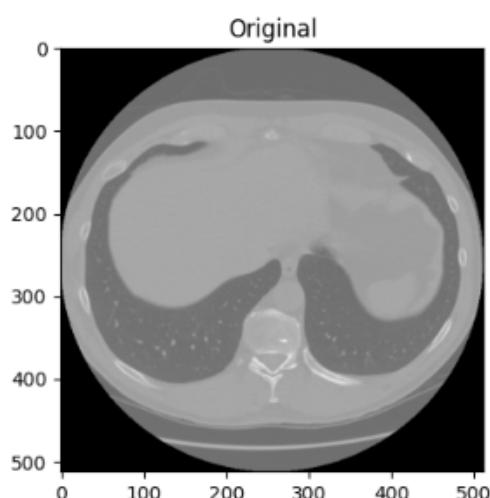
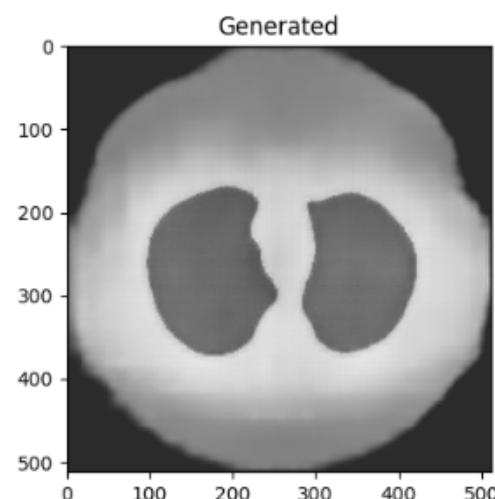
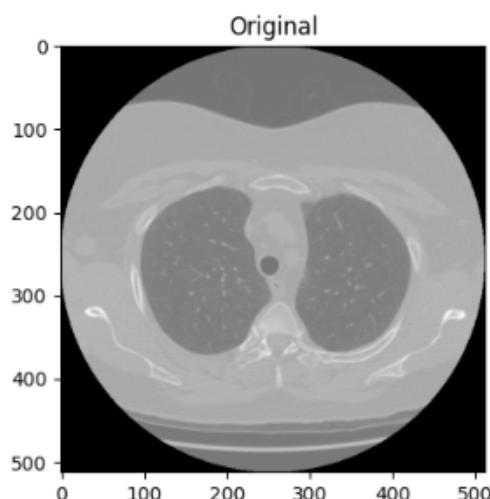
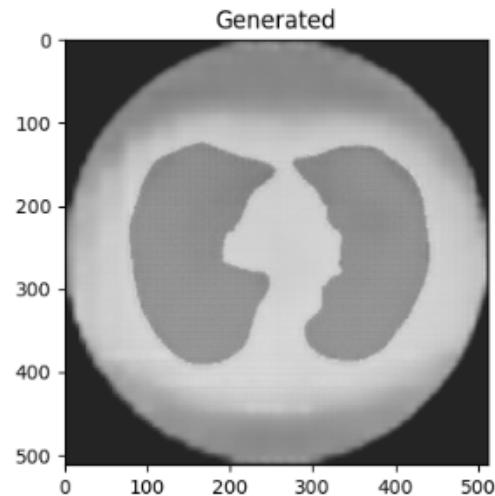
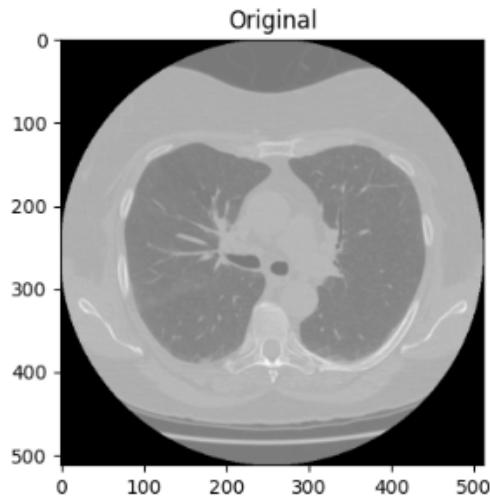
Melhor época: 10



Métricas:

```
{  
    "fid": 343.0240464178991,  
    "ssim_complete_mean": 0.6772848534221604,  
    "ssim_complete_std": 0.23130588401007984,  
    "luminance_complete": 0.7910447603449968,  
    "contrast_complete": 0.9373070289562984,  
    "struct_sim_complete": 0.8869572900339748,  
    "ssim_center_mean": 0.757489510753504,  
    "ssim_center_std": 0.18277912457213663,  
    "luminance_center": 0.8034635937311292,  
    "contrast_center": 0.9755279245995363,  
    "struct_sim_center": 0.9686317999360812  
}
```

Exemplos:

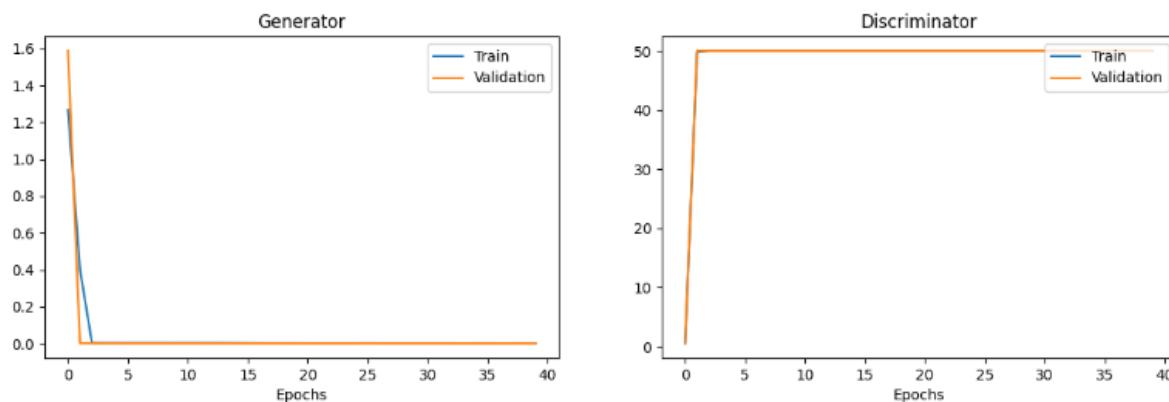


Sweep71:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 2,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.817263543849578,  
    "noise_mean": 0.5489842759520254,  
    "noise_std": 0.32654563087216937,  
    "criterion": "BCELoss",  
    "regularizer": "MSE_mask",  
    "regularization_level": 1,  
    "optimizer_lr": 0.00028163549654243805,  
    "optimizer_beta": 0.5263101599693434  
}
```

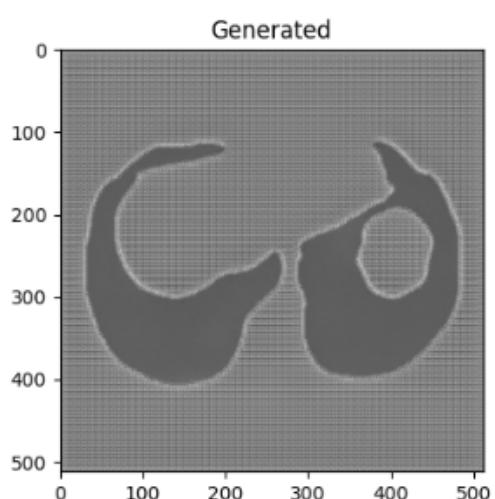
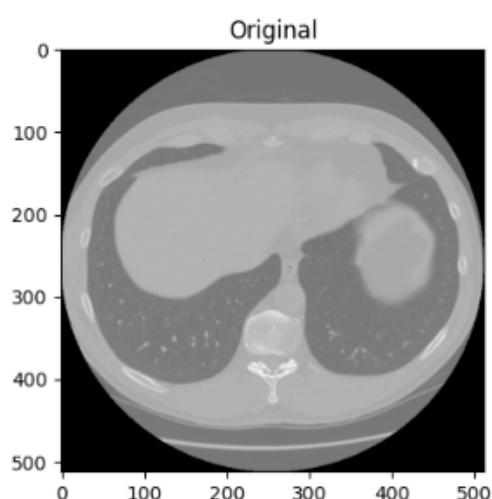
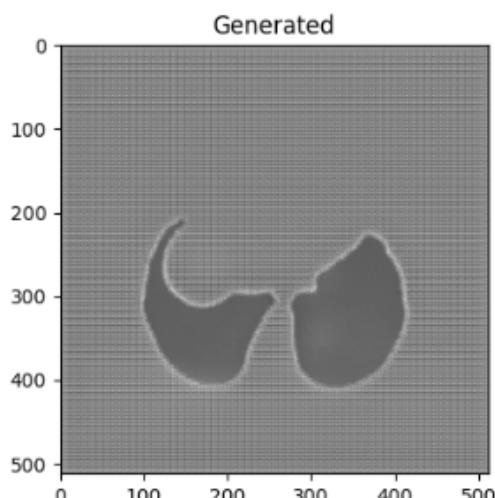
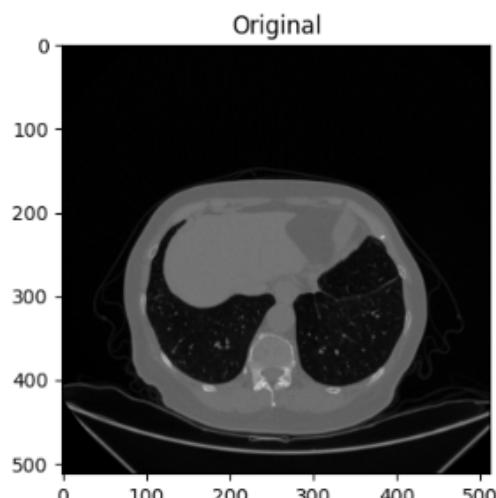
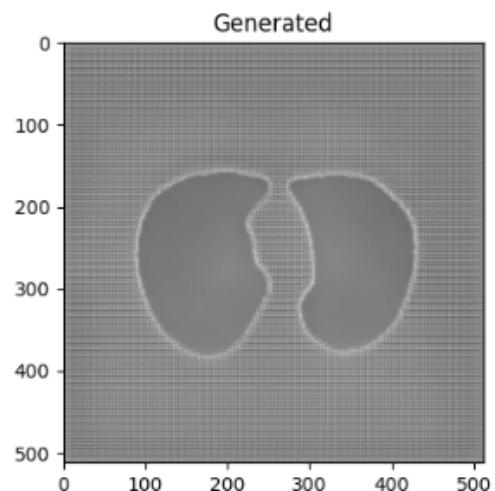
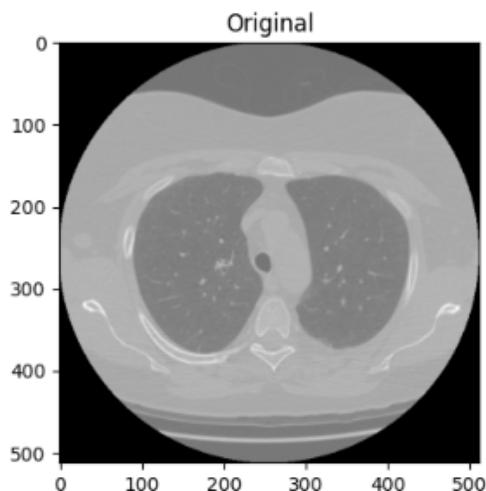
Melhor época: 32



Métricas:

```
{  
    "fid": 357.1096513079564,  
    "ssim_complete_mean": 0.4619159808610548,  
    "ssim_complete_std": 0.1733929896051814,  
    "luminance_complete": 0.7840866159370568,  
    "contrast_complete": 0.9351567576085396,  
    "struct_sim_complete": 0.6043046785052895,  
    "ssim_center_mean": 0.5573162100888142,  
    "ssim_center_std": 0.175224979614437,  
    "luminance_center": 0.683626044933784,  
    "contrast_center": 0.9894166765942916,  
    "struct_sim_center": 0.8346184796736925  
}
```

Exemplos:

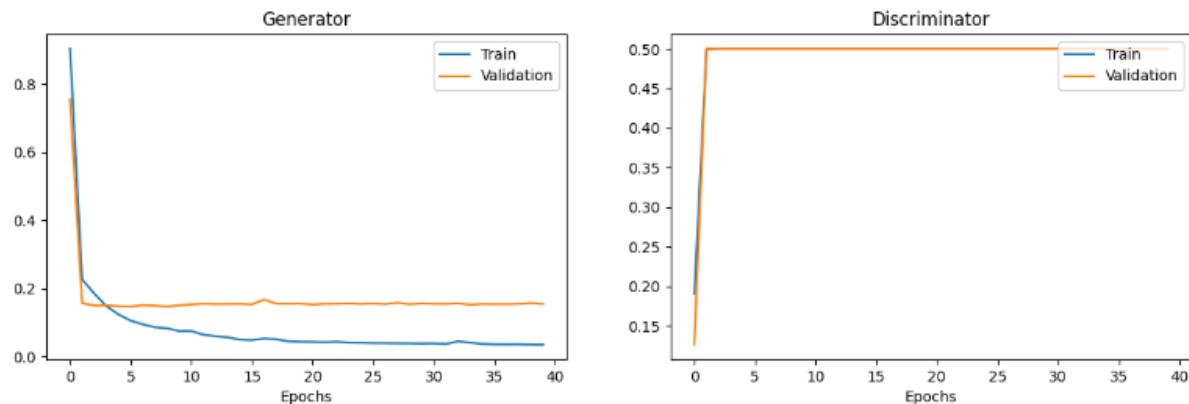


Sweep123:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 2,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.3320755603100042,  
    "noise_mean": 0.652635057975322,  
    "noise_std": 0.3347731657699059,  
    "criterion": "MSELoss",  
    "regularizer": "MAE",  
    "regularization_level": 4,  
    "optimizer_lr": 0.00015541750970596085,  
    "optimizer_beta": 0.6252443893406139  
}
```

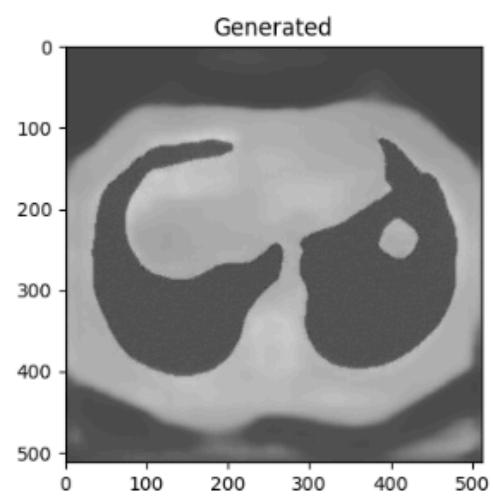
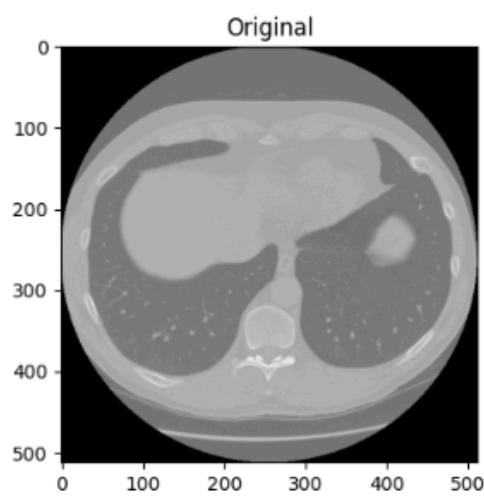
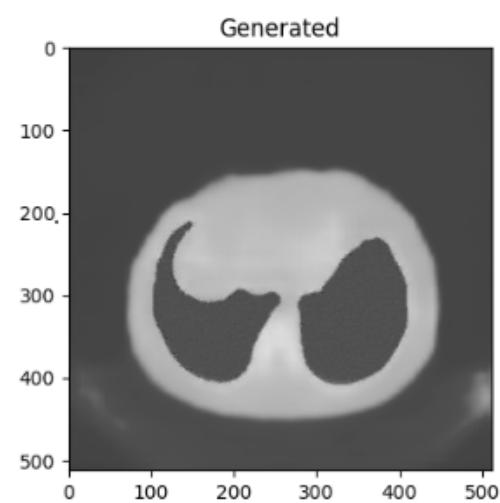
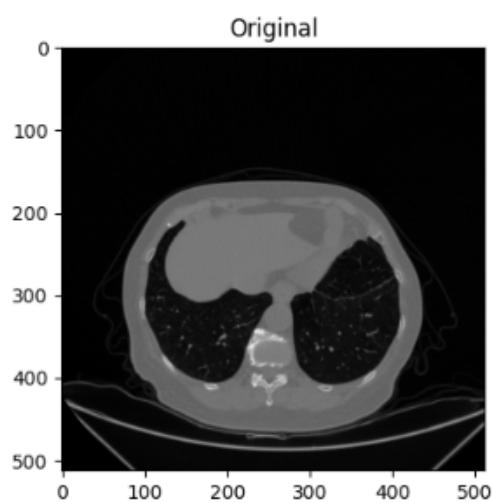
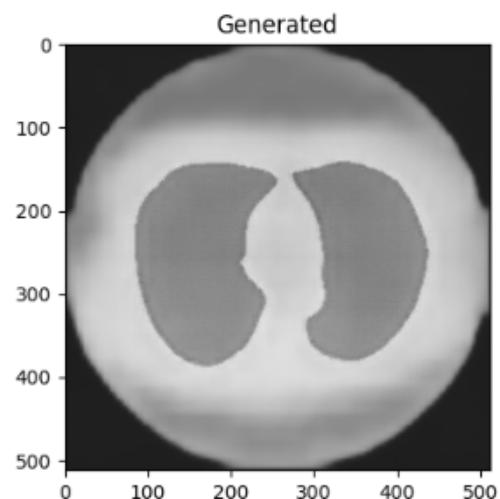
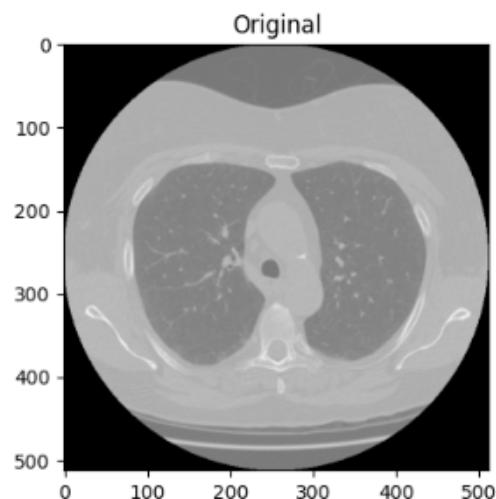
Melhor época: 6



Métricas:

```
{  
    "fid": 346.1855131276852,  
    "ssim_complete_mean": 0.6975064599547528,  
    "ssim_complete_std": 0.22186568539928958,  
    "luminance_complete": 0.808651796840664,  
    "contrast_complete": 0.9409498357660372,  
    "struct_sim_complete": 0.8934618555221362,  
    "ssim_center_mean": 0.7709673863854559,  
    "ssim_center_std": 0.17936713320049444,  
    "luminance_center": 0.808839941663499,  
    "contrast_center": 0.9842859645431435,  
    "struct_sim_center": 0.9683449493266001  
}
```

Exemplos:

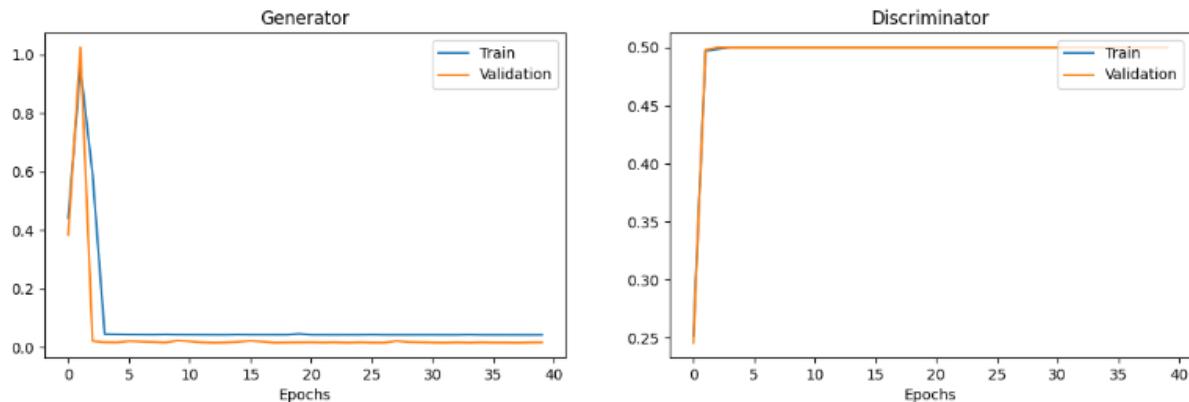


Sweep185:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 4,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddUniformNoise",  
    "lung_area": true,  
    "intensity": 0.3563791548997288,  
    "noise_mean": 0.5899638112470305,  
    "noise_std": 0.21586502774929991,  
    "criterion": "MSELoss",  
    "regularizer": "MAE_mask",  
    "regularization_level": 5,  
    "optimizer_lr": 0.0002819676223203354,  
    "optimizer_beta": 0.4240341338469822  
}
```

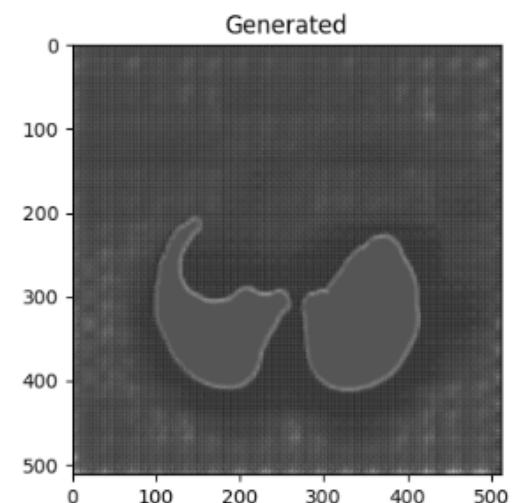
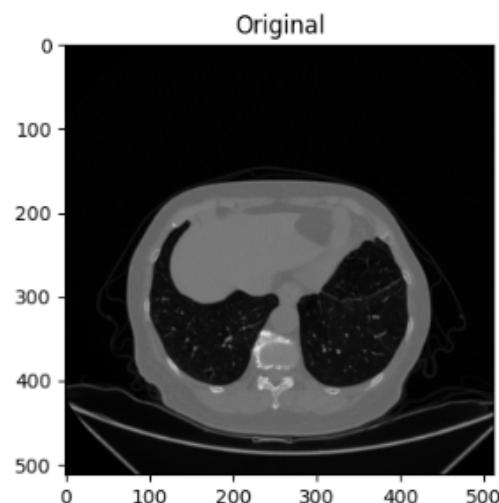
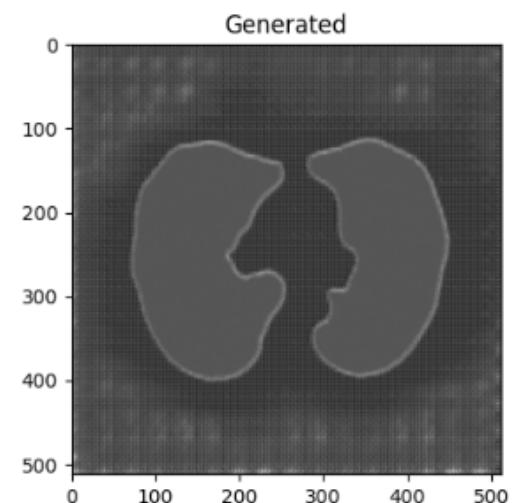
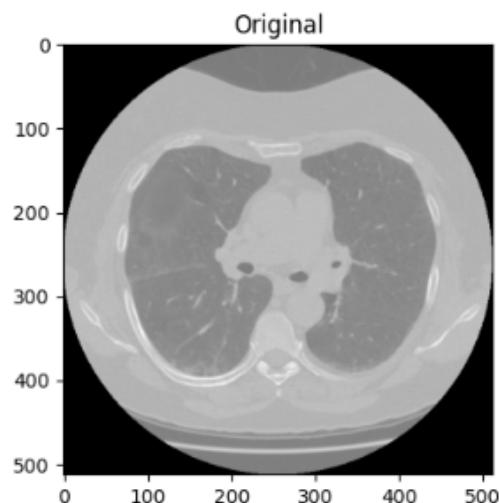
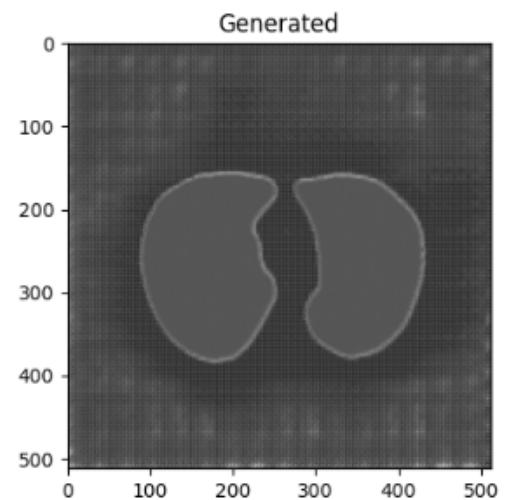
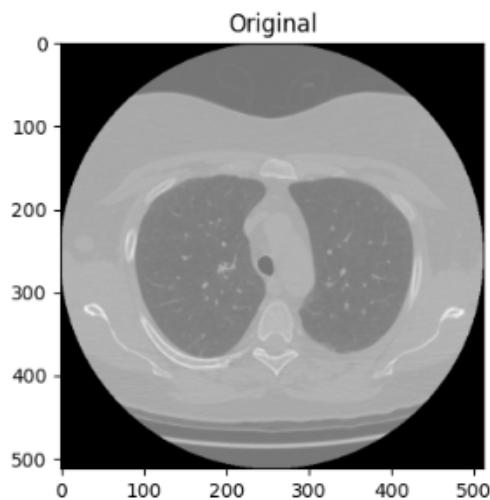
Melhor época: 38



Métricas:

```
{  
    "fid": 370.72935248683257,  
    "ssim_complete_mean": 0.08566336384992071,  
    "ssim_complete_std": 0.1088423919138196,  
    "luminance_complete": 0.1536329512852586,  
    "contrast_complete": 0.9510486341759861,  
    "struct_sim_complete": 0.48739093639674985,  
    "ssim_center_mean": 0.11414783781111829,  
    "ssim_center_std": 0.11665291317529802,  
    "luminance_center": 0.1845125583507479,  
    "contrast_center": 0.9859247174569796,  
    "struct_sim_center": 0.6418470678764336  
}
```

Exemplos:

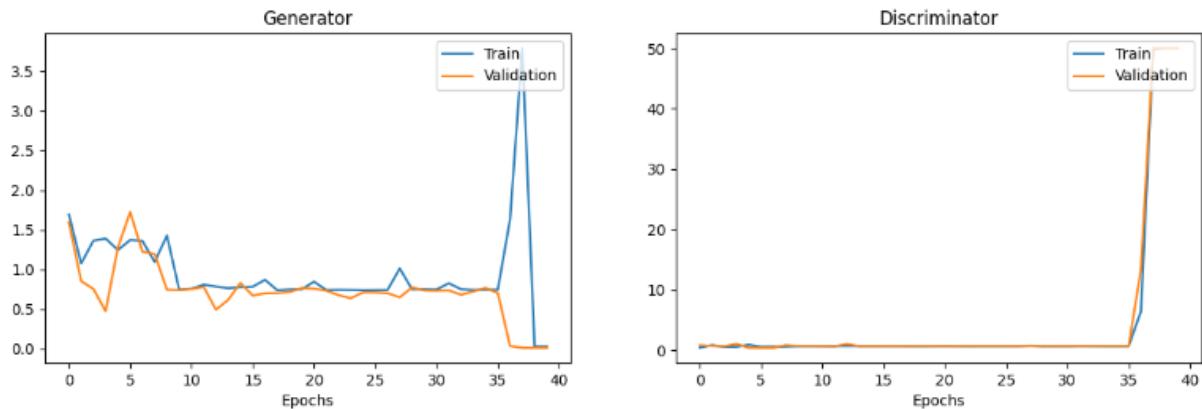


Sweep186:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 2,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddUniformNoise",  
    "lung_area": true,  
    "intensity": 0.9795390853658572,  
    "noise_mean": 0.5310213914790365,  
    "noise_std": 0.26235822260698494,  
    "criterion": "BCELoss",  
    "regularizer": "MAE_mask",  
    "regularization_level": 4,  
    "optimizer_lr": 0.00018745716724458925,  
    "optimizer_beta": 0.6069949071016576  
}
```

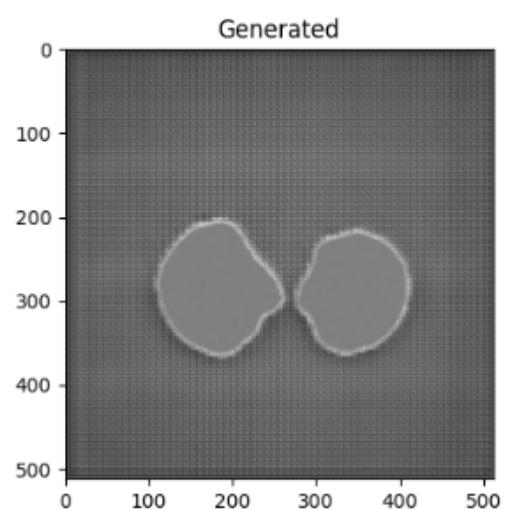
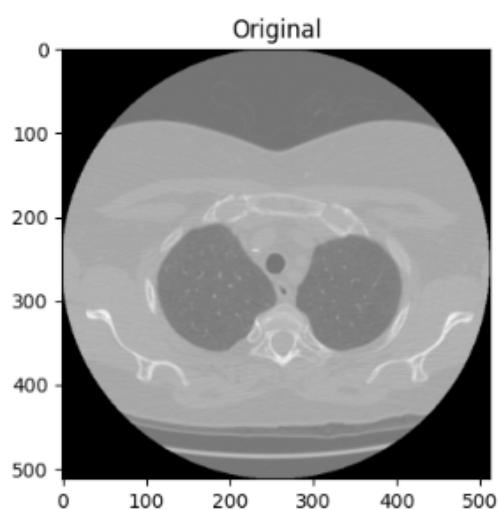
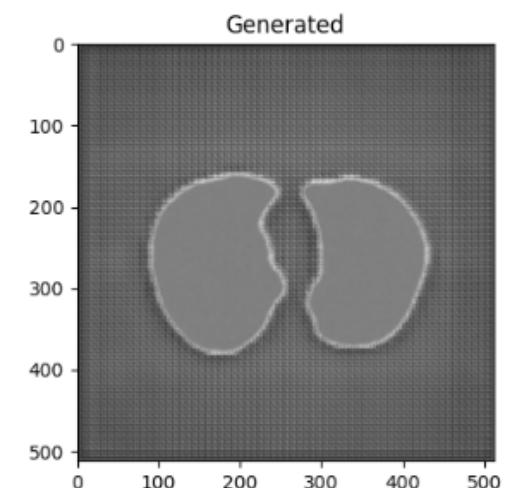
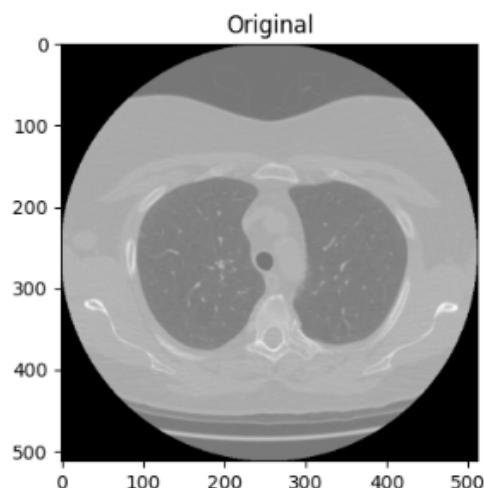
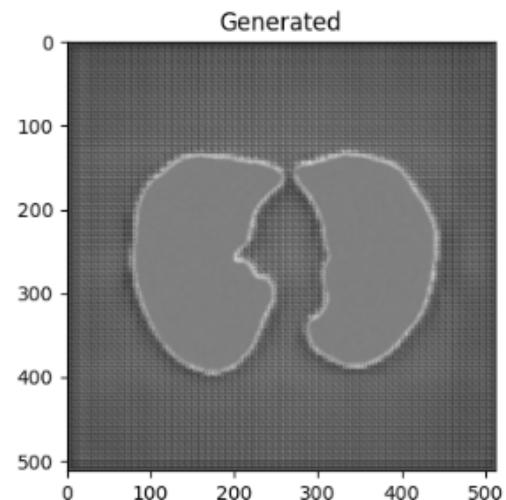
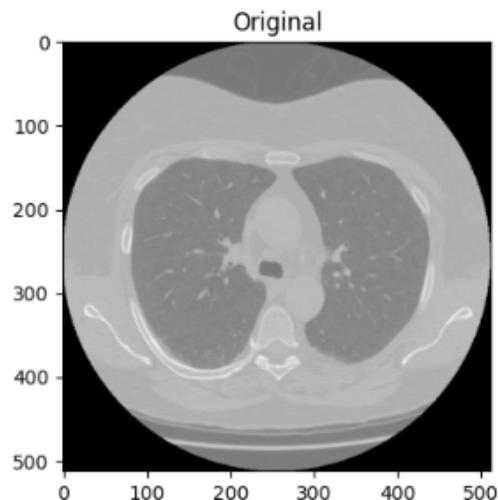
Melhor época: 40



Métricas:

```
{  
    "fid": 412.328408180655,  
    "ssim_complete_mean": -0.17667137325595214,  
    "ssim_complete_std": 0.03875996470046492,  
    "luminance_complete": -0.3041721770265389,  
    "contrast_complete": 0.9700812173834912,  
    "struct_sim_complete": 0.5997450161858383,  
    "ssim_center_mean": 0.10727002796127341,  
    "ssim_center_std": 0.11168985904442294,  
    "luminance_center": 0.1858722752709691,  
    "contrast_center": 0.9626529256931299,  
    "struct_sim_center": 0.6050361463484625  
}
```

Exemplos:

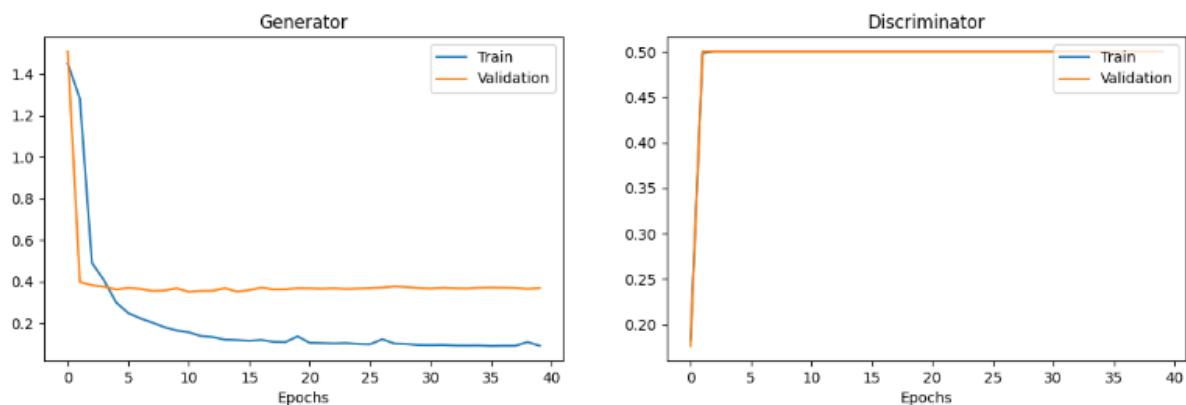


Sweep205:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 3,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.5566831094118717,  
    "noise_mean": 0.5120044952795599,  
    "noise_std": 0.3903814624058676,  
    "criterion": "MSELoss",  
    "regularizer": "MAE",  
    "regularization_level": 10,  
    "optimizer_lr": 0.0002848841036056081,  
    "optimizer_beta": 0.7555202559122287  
}
```

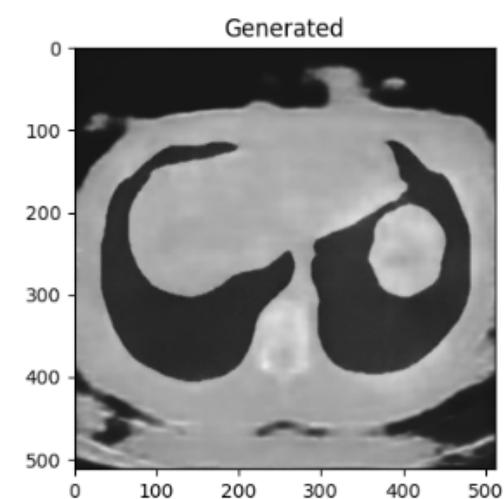
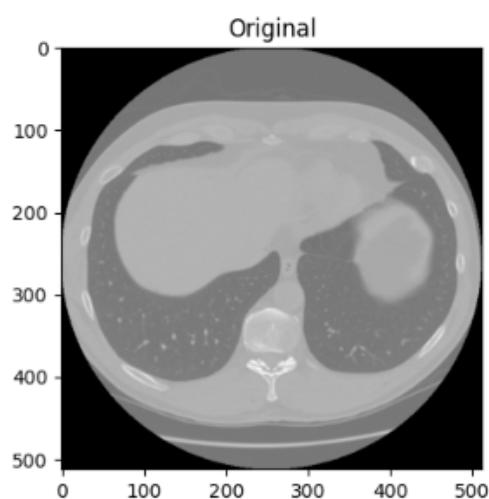
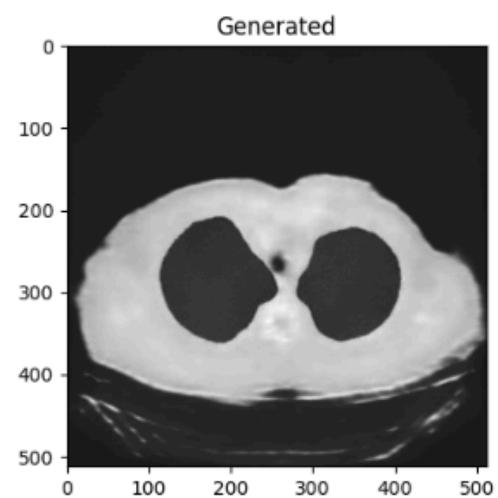
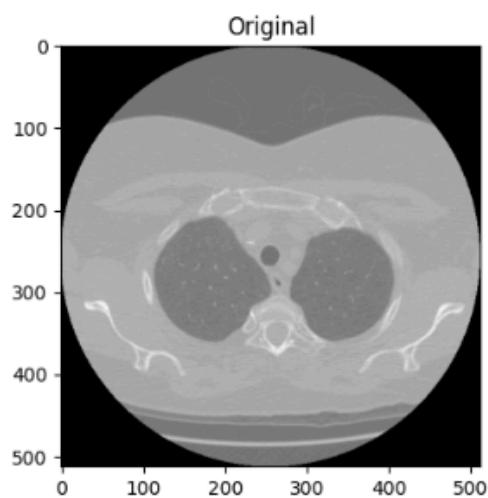
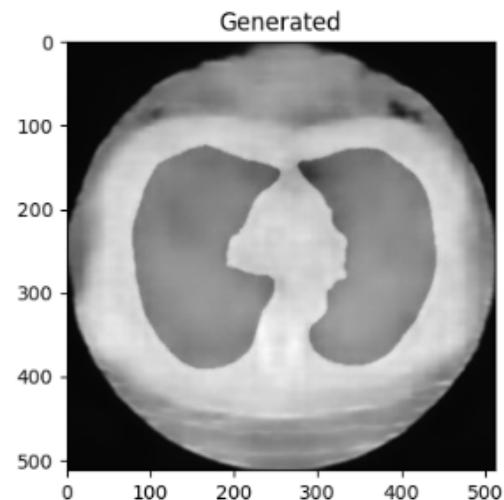
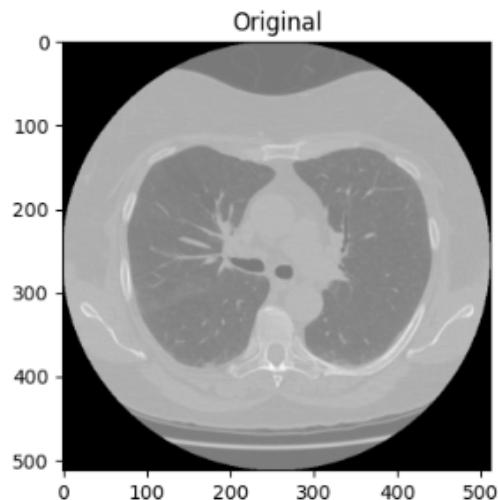
Melhor época: 11



Métricas:

```
{  
    "fid": 327.52689178408133,  
    "ssim_complete_mean": 0.6430093517319526,  
    "ssim_complete_std": 0.23893143933984787,  
    "luminance_complete": 0.7707459253460825,  
    "contrast_complete": 0.9213829072906238,  
    "struct_sim_complete": 0.874886884710851,  
    "ssim_center_mean": 0.7408941452705249,  
    "ssim_center_std": 0.19407037910322725,  
    "luminance_center": 0.7726069884129072,  
    "contrast_center": 0.9879985682247993,  
    "struct_sim_center": 0.9713082849397373  
}
```

Exemplos:

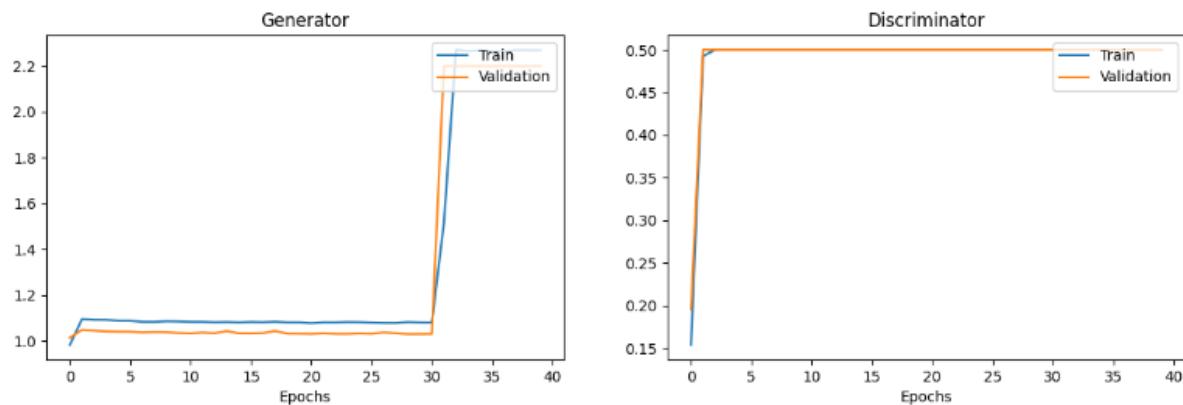


Sweep256:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 1,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.3085178606574801,  
    "noise_mean": 0.6810390549148861,  
    "noise_std": 0.1347611367032965,  
    "criterion": "MSELoss",  
    "regularizer": "MAE_mask",  
    "regularization_level": 8,  
    "optimizer_lr": 0.0003155922118613779,  
    "optimizer_beta": 0.4703302187780869  
}
```

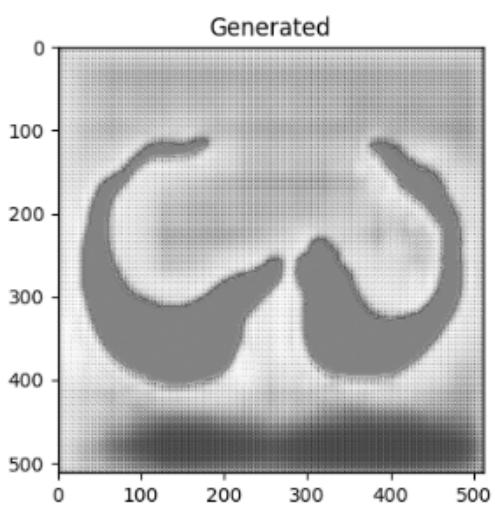
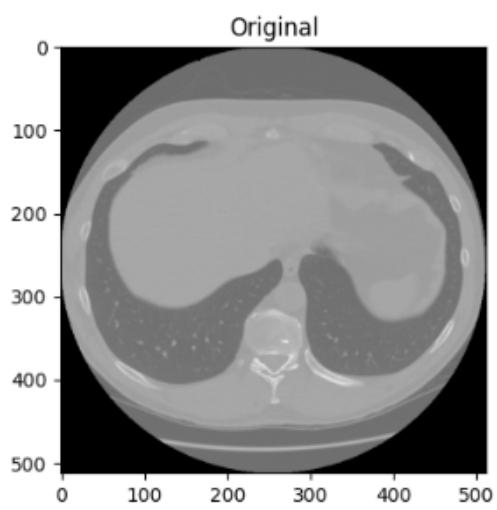
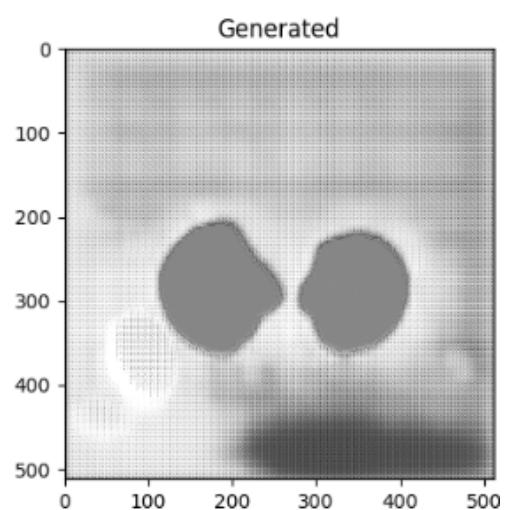
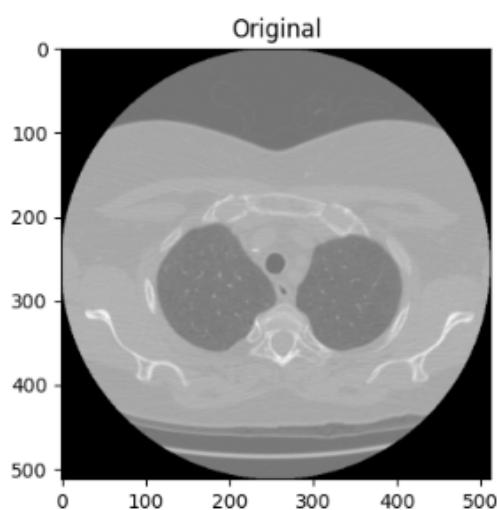
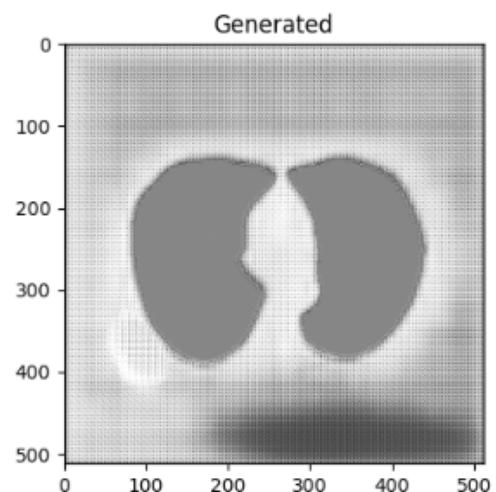
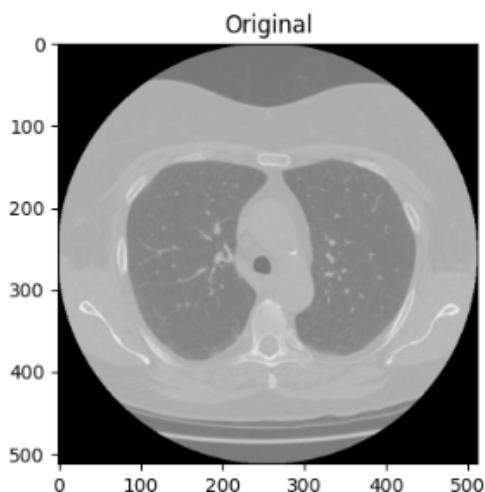
Melhor época: 1



Métricas:

```
{  
    "fid": 477.79755901593353,  
    "ssim_complete_mean": 0.20311219306950132,  
    "ssim_complete_std": 0.04599052302304225,  
    "luminance_complete": 0.8600357880608365,  
    "contrast_complete": 0.6603463168228869,  
    "struct_sim_complete": 0.37560463839811753,  
    "ssim_center_mean": 0.33126632208876905,  
    "ssim_center_std": 0.04807331043399149,  
    "luminance_center": 0.8501308245744882,  
    "contrast_center": 0.5109679559618472,  
    "struct_sim_center": 0.7707378101937213  
}
```

Exemplos:

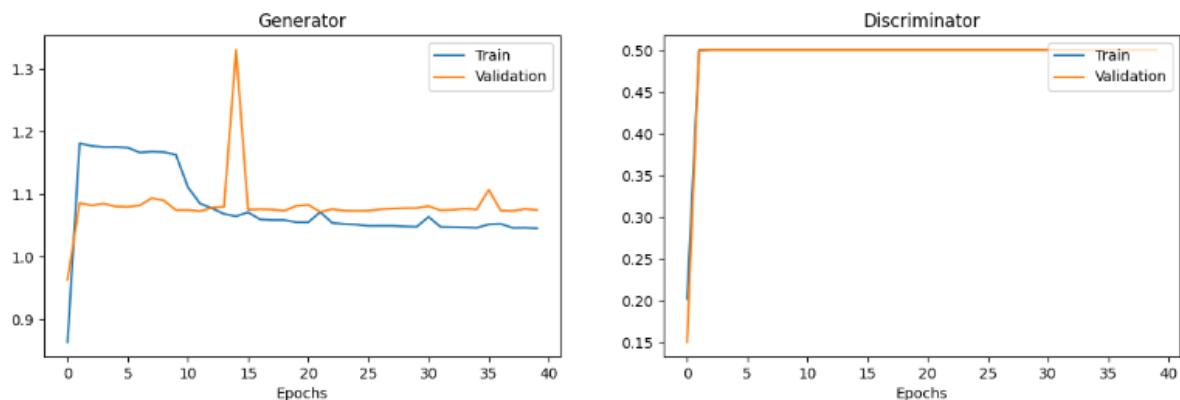


Sweep279:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 4,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": false,  
    "intensity": 0.6821396702622843,  
    "noise_mean": 0.968195803512638,  
    "noise_std": 0.10241003414037744,  
    "criterion": "MSELoss",  
    "regularizer": "MAE_mask",  
    "regularization_level": 15,  
    "optimizer_lr": 0.00025765907273600963,  
    "optimizer_beta": 0.6470046351422237  
}
```

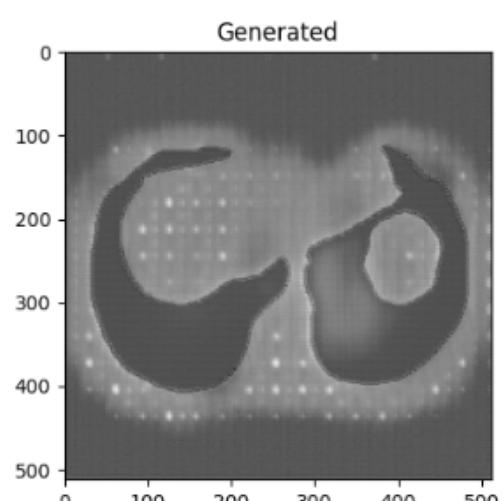
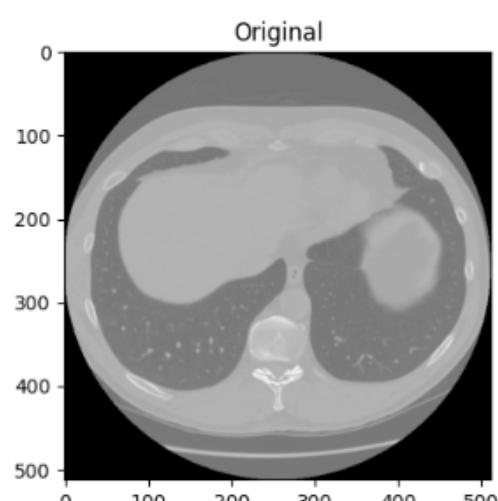
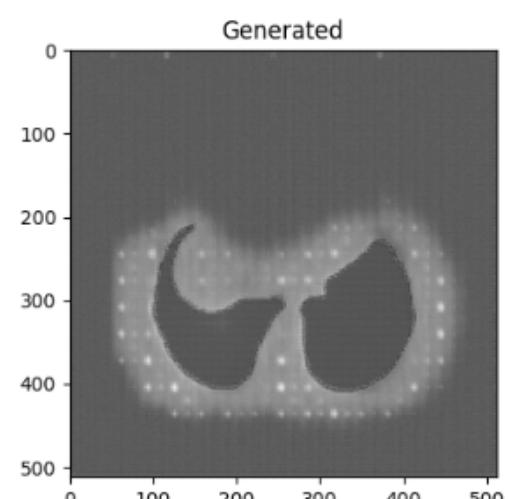
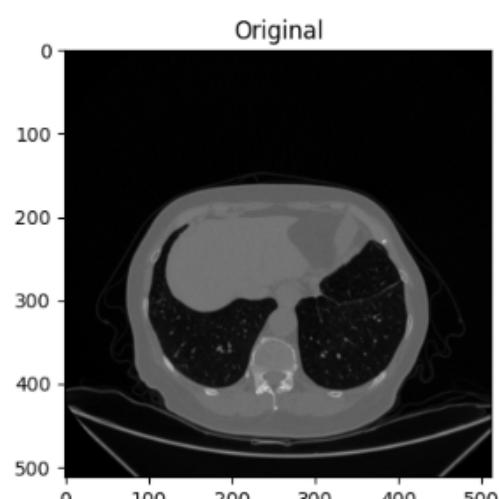
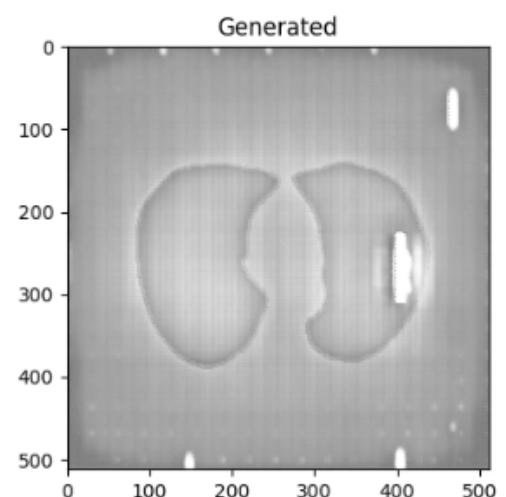
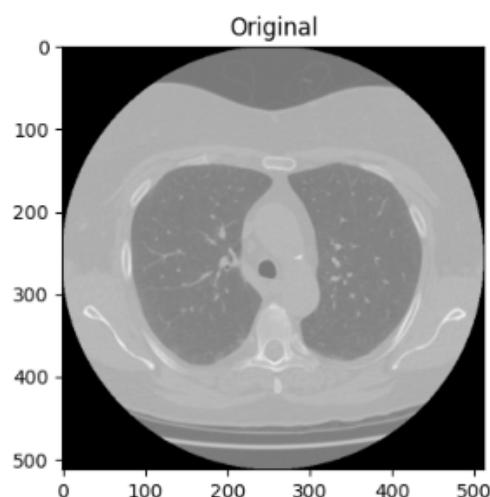
Melhor época: 1



Métricas:

```
{  
    "fid": 419.9495798044177,  
    "ssim_complete_mean": 0.5901057423447672,  
    "ssim_complete_std": 0.20416495930213538,  
    "luminance_complete": 0.7609869252626325,  
    "contrast_complete": 0.9544779155395279,  
    "struct_sim_complete": 0.7945375028850509,  
    "ssim_center_mean": 0.6409691911658585,  
    "ssim_center_std": 0.16827347781547755,  
    "luminance_center": 0.7638550486314089,  
    "contrast_center": 0.9612134812884225,  
    "struct_sim_center": 0.8734711459136028  
}
```

Exemplos:

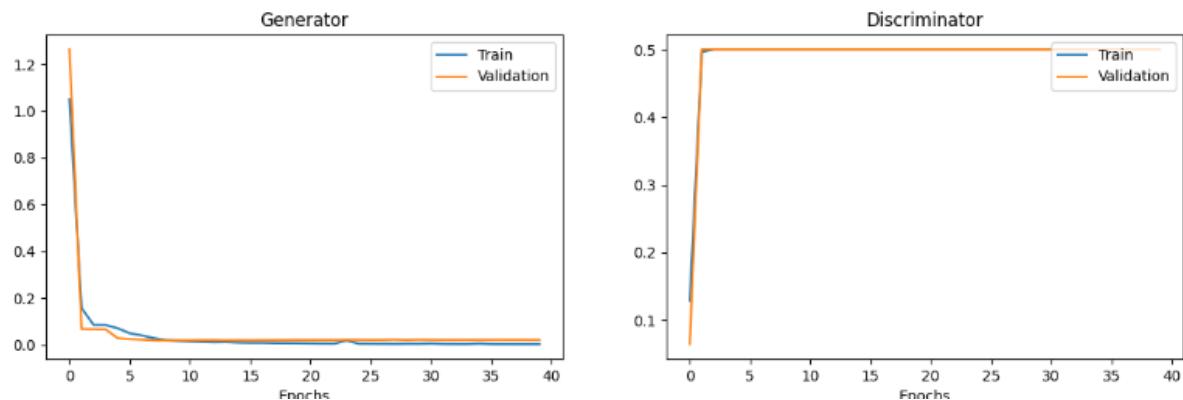


Sweep284:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 1,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.4882098593554058,  
    "noise_mean": 0.8720905330234994,  
    "noise_std": 0.4466720448719509,  
    "criterion": "MSELoss",  
    "regularizer": "MSE",  
    "regularization_level": 4,  
    "optimizer_lr": 0.0002242324411234465,  
    "optimizer_beta": 0.67810616858202  
}
```

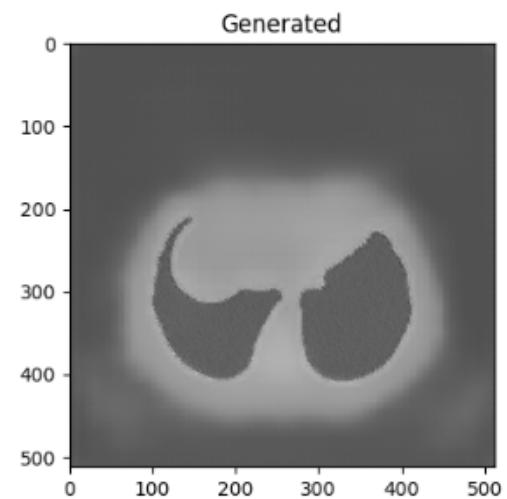
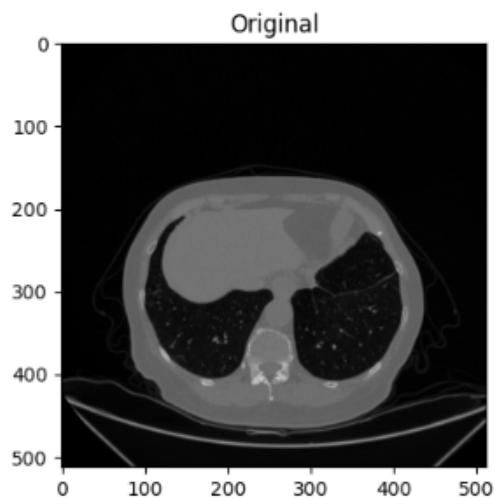
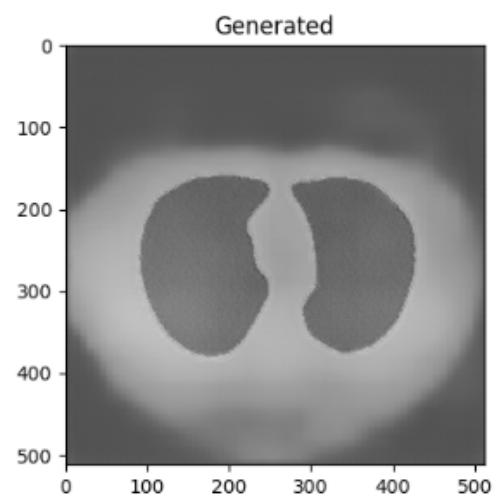
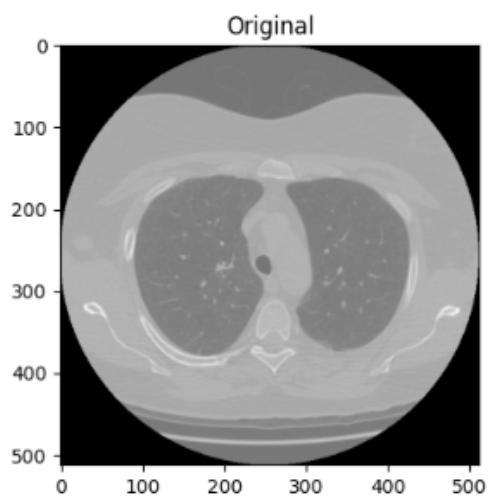
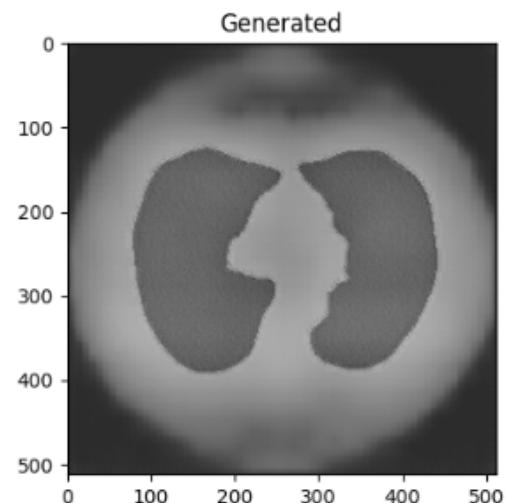
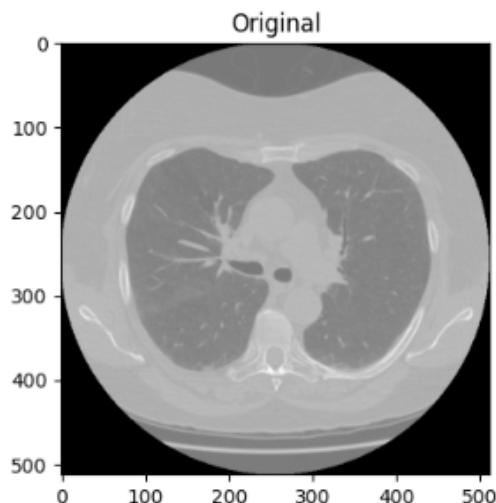
Melhor época: 9



Métricas:

```
{  
    "fid": 376.5126097100414,  
    "ssim_complete_mean": 0.7020403104609059,  
    "ssim_complete_std": 0.21607146924403858,  
    "luminance_complete": 0.8128286300792441,  
    "contrast_complete": 0.933340371480956,  
    "struct_sim_complete": 0.9018600658640931,  
    "ssim_center_mean": 0.7848078331898669,  
    "ssim_center_std": 0.16354389155618282,  
    "luminance_center": 0.8242162587693629,  
    "contrast_center": 0.9883616849921796,  
    "struct_sim_center": 0.9633175875044874  
}
```

Exemplos:

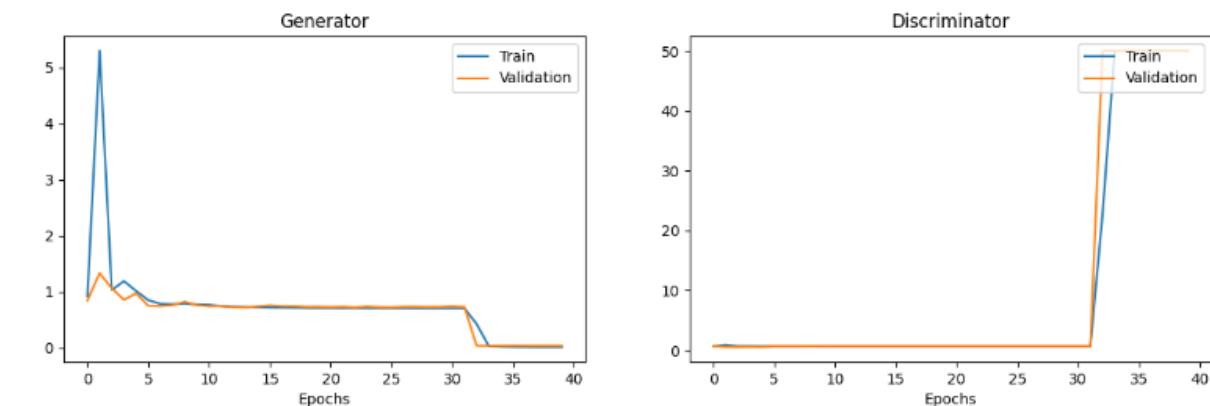


Sweep394:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 2,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": false,  
    "intensity": 0.3715918515461394,  
    "noise_mean": 0.6996284577857399,  
    "noise_std": 0.2871496533014539,  
    "criterion": "BCELoss",  
    "regularizer": "MAE",  
    "regularization_level": 1,  
    "optimizer_lr": 0.0003399348777186626,  
    "optimizer_beta": 0.4792751887070691  
}
```

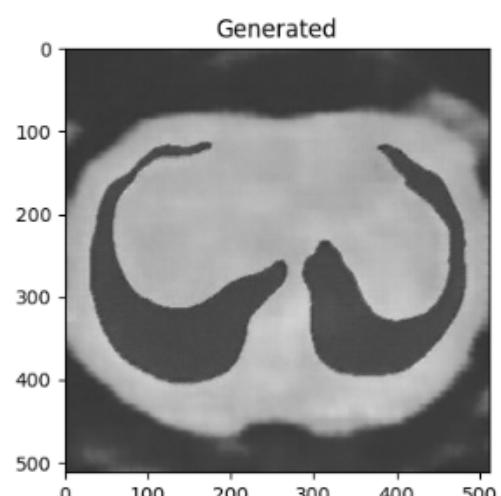
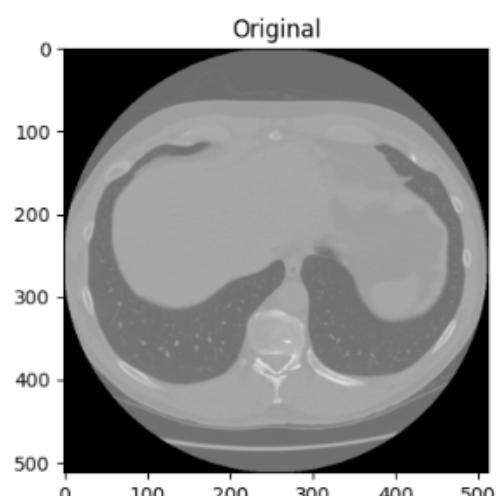
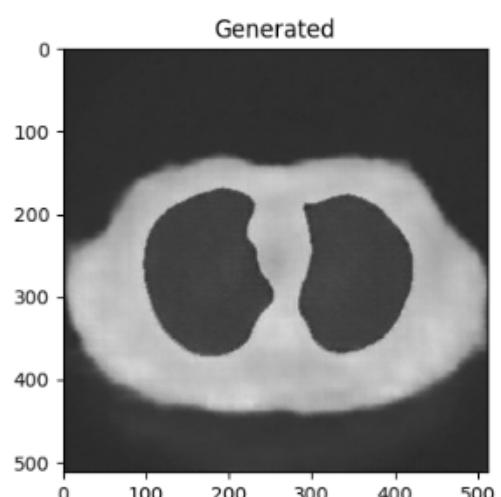
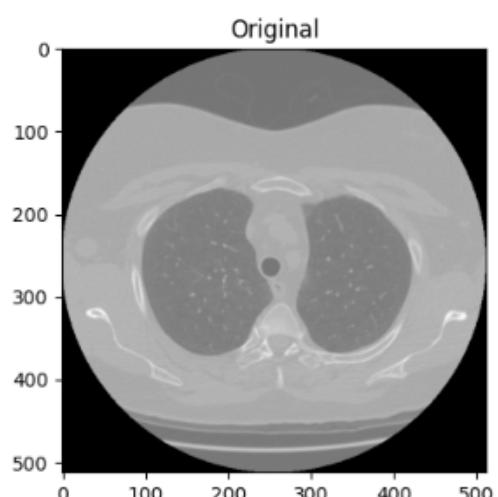
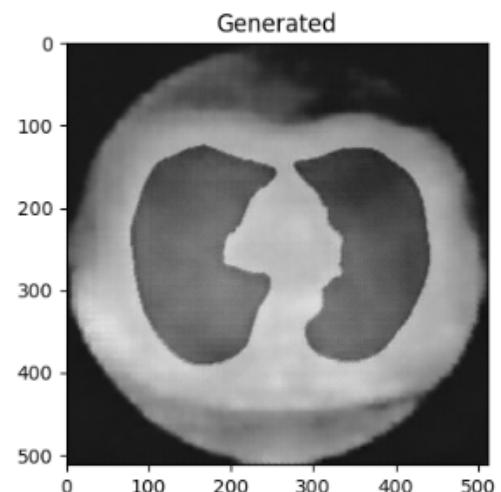
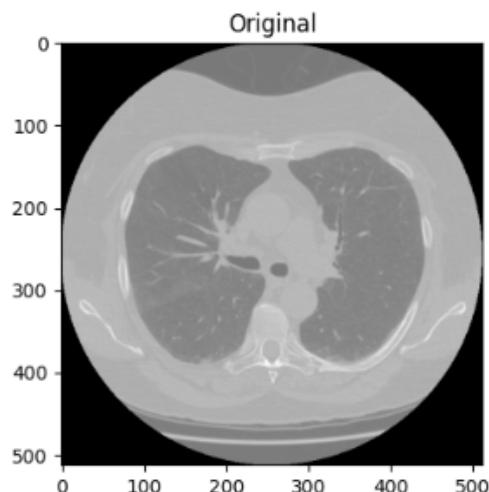
Melhor época: 34



Métricas:

```
{  
    "fid": 318.0595213974301,  
    "ssim_complete_mean": 0.6507842008996143,  
    "ssim_complete_std": 0.23429208739080762,  
    "luminance_complete": 0.771365153323371,  
    "contrast_complete": 0.9188045562504373,  
    "struct_sim_complete": 0.8876554807557377,  
    "ssim_center_mean": 0.7492489132673358,  
    "ssim_center_std": 0.18388924352774427,  
    "luminance_center": 0.7825220690856218,  
    "contrast_center": 0.988318064279544,  
    "struct_sim_center": 0.9696984833498933  
}
```

Exemplos:

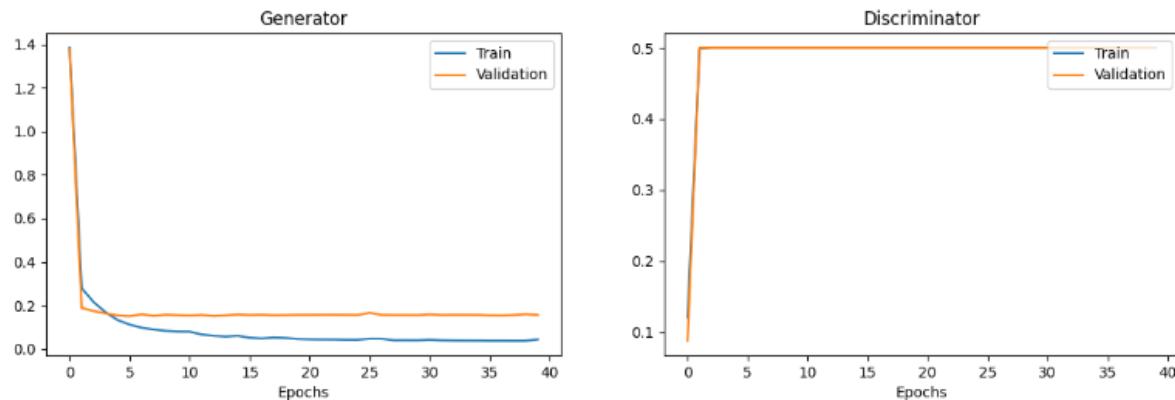


Sweep412:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 1,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": false,  
    "intensity": 0.7572552489767528,  
    "noise_mean": 0.525049557342425,  
    "noise_std": 0.4755411392298655,  
    "criterion": "MSELoss",  
    "regularizer": "MAE",  
    "regularization_level": 4,  
    "optimizer_lr": 0.00017003757801424408,  
    "optimizer_beta": 0.8811316699367162  
}
```

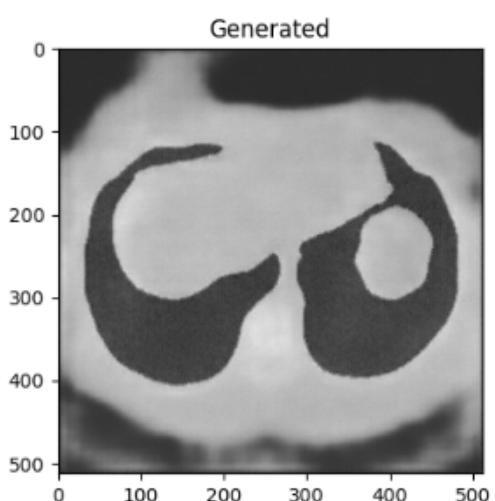
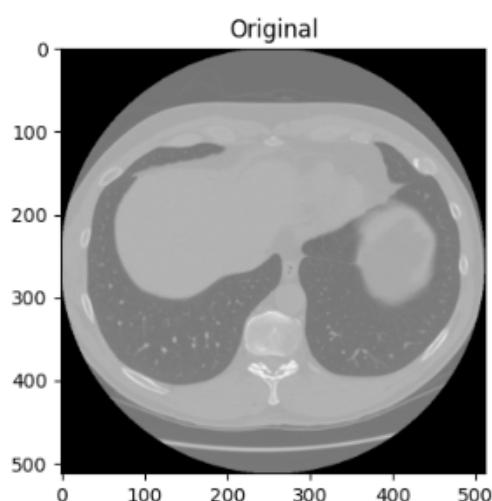
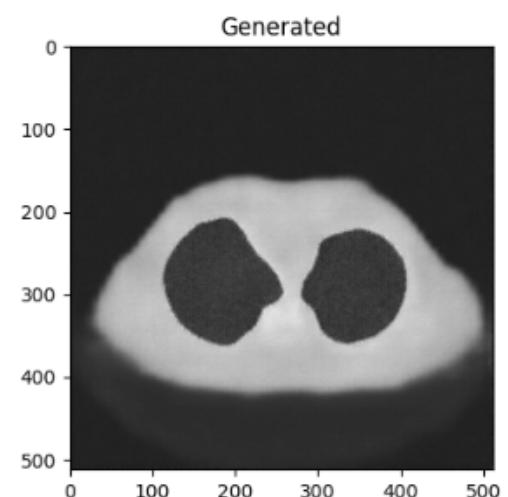
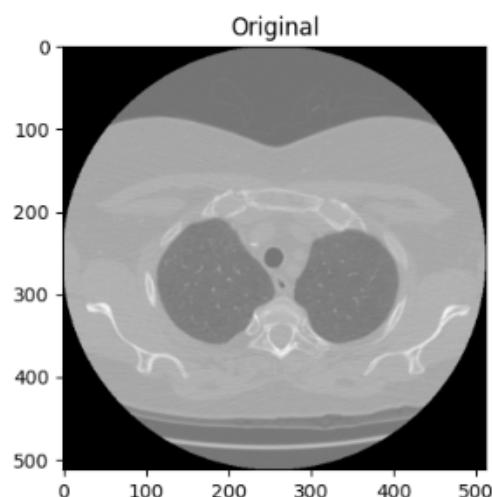
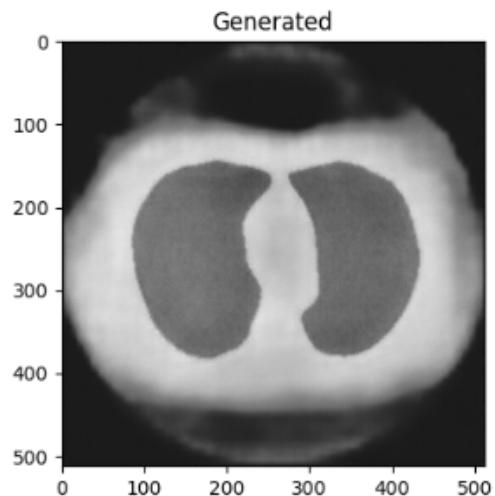
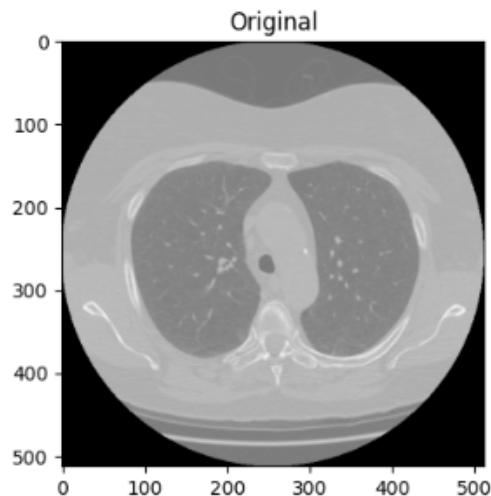
Melhor época: 6



Métricas:

```
{  
    "fid": 320.07174504683894,  
    "ssim_complete_mean": 0.6932878879454677,  
    "ssim_complete_std": 0.2317557196412487,  
    "luminance_complete": 0.7993812960045933,  
    "contrast_complete": 0.9404086873712877,  
    "struct_sim_complete": 0.8961127511813266,  
    "ssim_center_mean": 0.7859251088659772,  
    "ssim_center_std": 0.17404220837041773,  
    "luminance_center": 0.8218103836928453,  
    "contrast_center": 0.9880628424583706,  
    "struct_sim_center": 0.9686885448987215  
}
```

Exemplos:

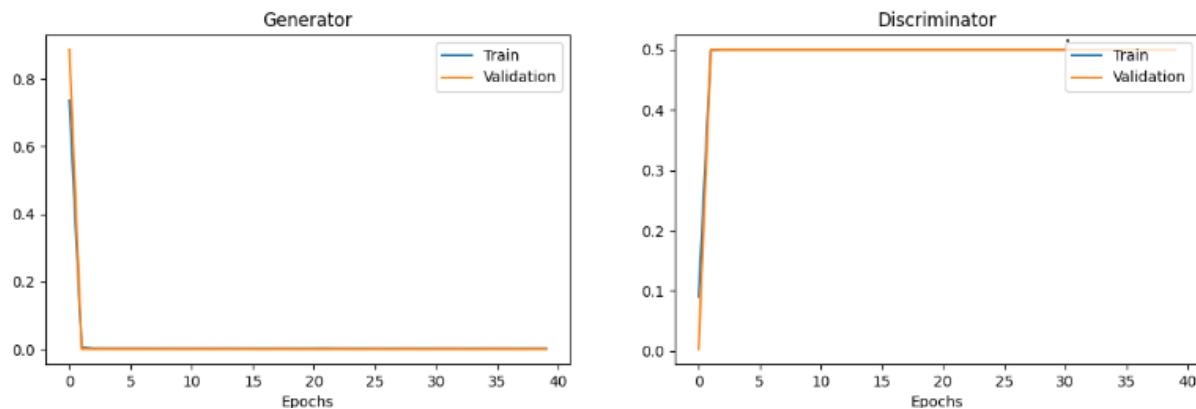


Sweep464:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 2,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.986411006299392,  
    "noise_mean": 0.9929413807720122,  
    "noise_std": 0.10072331521439072,  
    "criterion": "MSELoss",  
    "regularizer": "MSE_mask",  
    "regularization_level": 1,  
    "optimizer_lr": 0.00029107081787826716,  
    "optimizer_beta": 0.4393293660933553  
}
```

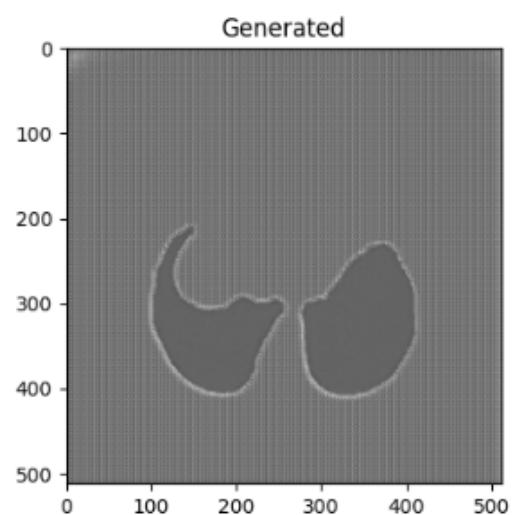
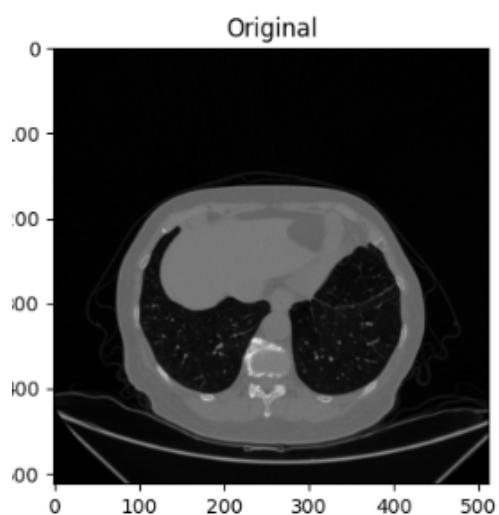
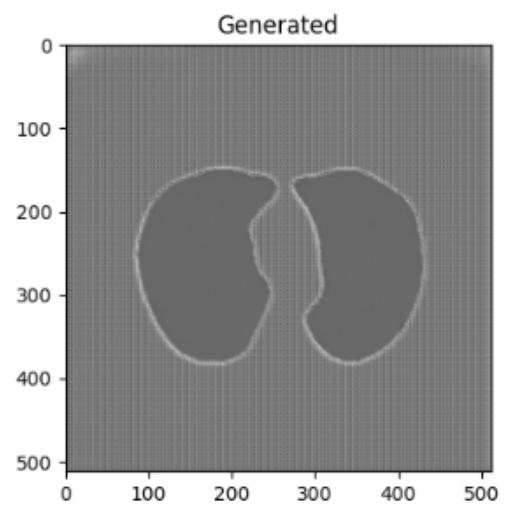
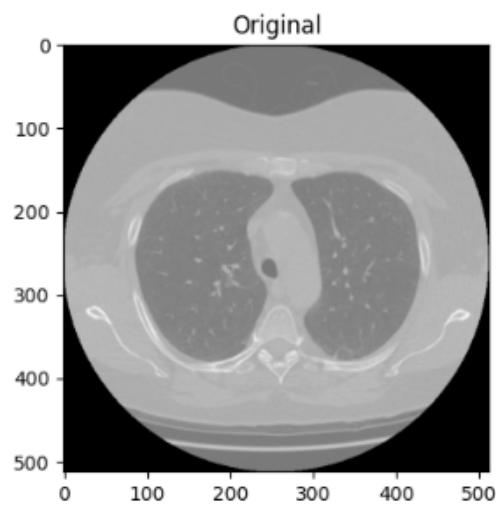
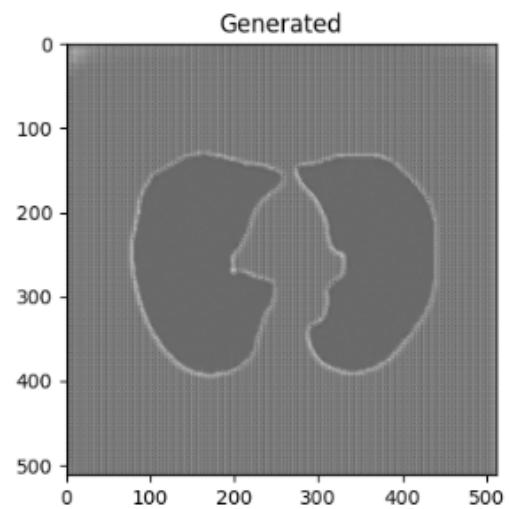
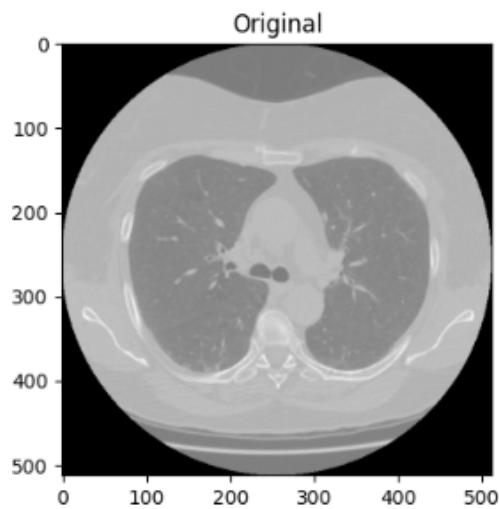
Melhor época: 38



Métricas:

```
{  
    "fid": 315.33711330882386,  
    "ssim_complete_mean": 0.428774338024707,  
    "ssim_complete_std": 0.2000862948020822,  
    "luminance_complete": 0.7178583254827876,  
    "contrast_complete": 0.9208716058761287,  
    "struct_sim_complete": 0.6110829666188075,  
    "ssim_center_mean": 0.4970560212110909,  
    "ssim_center_std": 0.19010203750402727,  
    "luminance_center": 0.6073843092668091,  
    "contrast_center": 0.9894372863021327,  
    "struct_sim_center": 0.8400318752921381  
}
```

Exemplos:

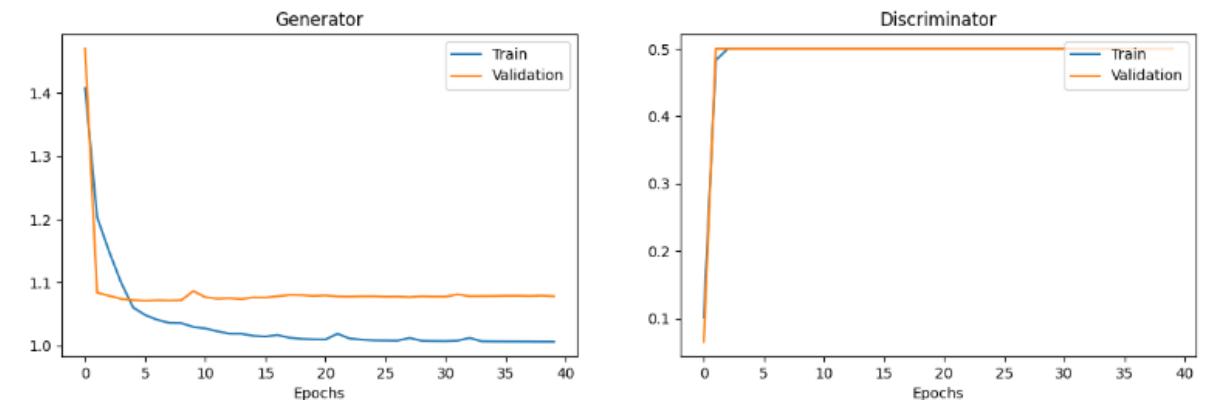


Sweep497:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 1,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.30394495541716654,  
    "noise_mean": 0.874971124713672,  
    "noise_std": 0.289759916262091,  
    "criterion": "MSELoss",  
    "regularizer": "MSE",  
    "regularization_level": 15,  
    "optimizer_lr": 0.0001318850372130876,  
    "optimizer_beta": 0.8406719479579337  
}
```

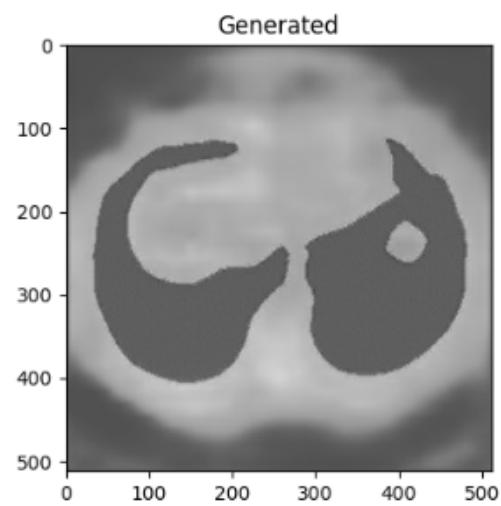
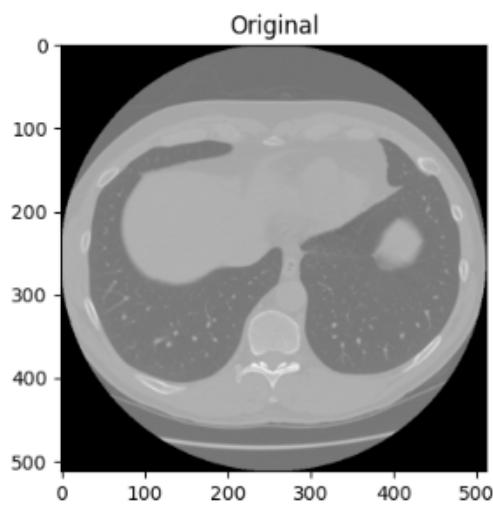
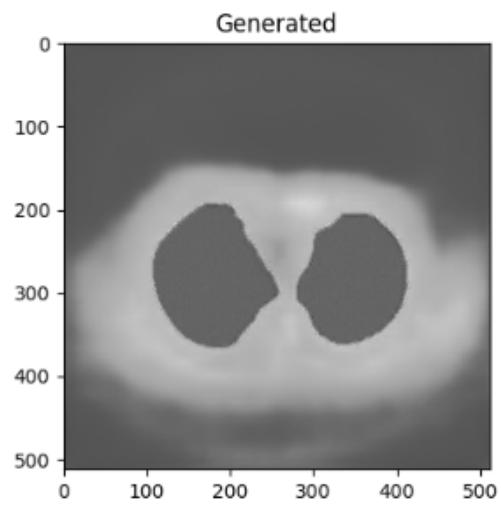
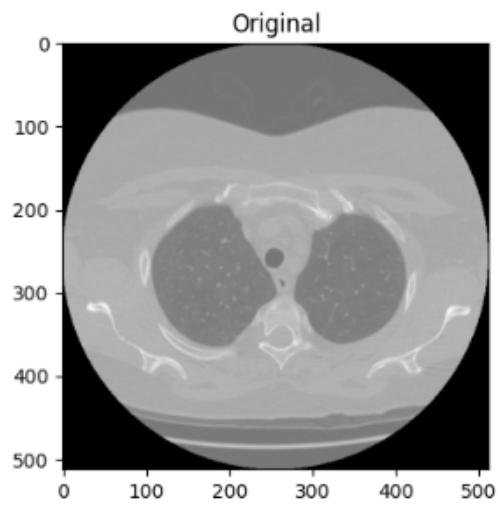
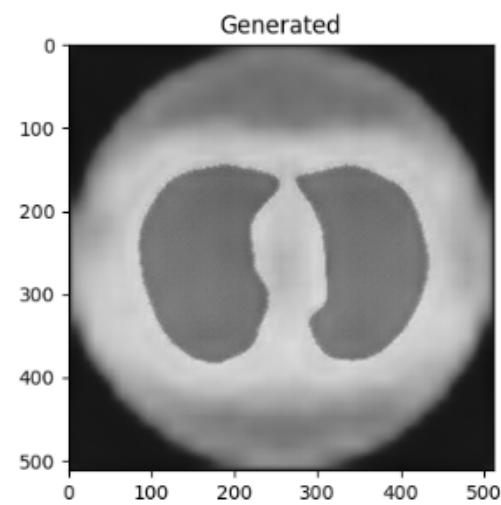
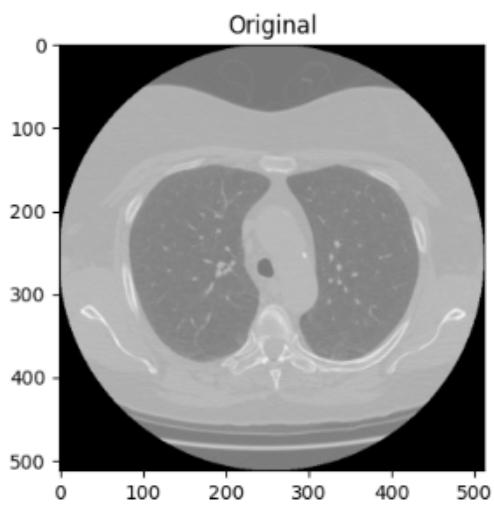
Melhor época: 6



Métricas:

```
{  
    "fid": 357.58479830547003,  
    "ssim_complete_mean": 0.696391891065423,  
    "ssim_complete_std": 0.2195011764006659,  
    "luminance_complete": 0.8096977616583645,  
    "contrast_complete": 0.936378299704664,  
    "struct_sim_complete": 0.8940156351292929,  
    "ssim_center_mean": 0.7673227055008661,  
    "ssim_center_std": 0.18155662808264786,  
    "luminance_center": 0.8067303030658903,  
    "contrast_center": 0.9820898310052819,  
    "struct_sim_center": 0.9693395257304551  
}
```

Exemplos:

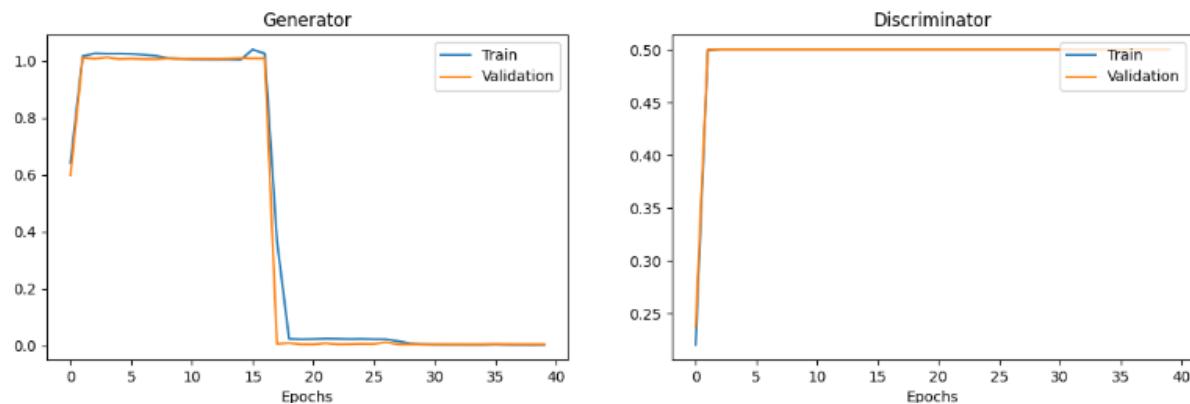


Sweep522:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 4,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": false,  
    "intensity": 0.8766142328449825,  
    "noise_mean": 0.6935412609028916,  
    "noise_std": 0.37904603349118104,  
    "criterion": "MSELoss",  
    "regularizer": "MSE_mask",  
    "regularization_level": 13,  
    "optimizer_lr": 0.0003400316268127069,  
    "optimizer_beta": 0.5728743005135345  
}
```

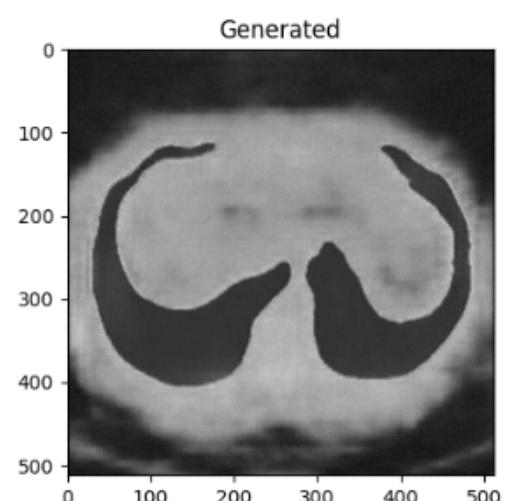
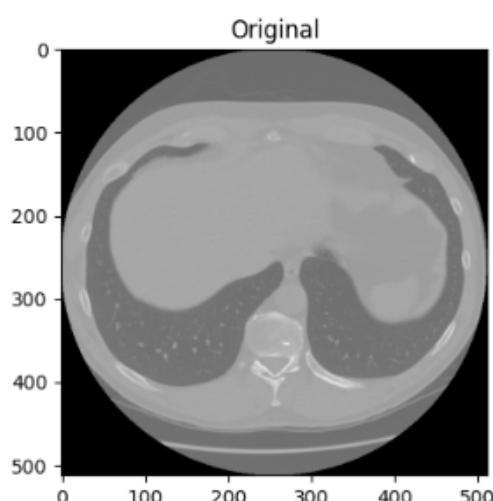
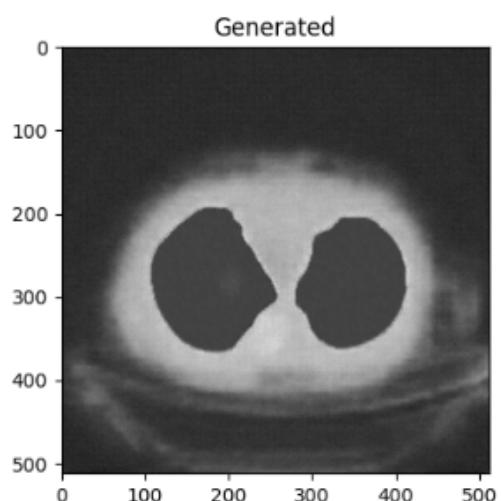
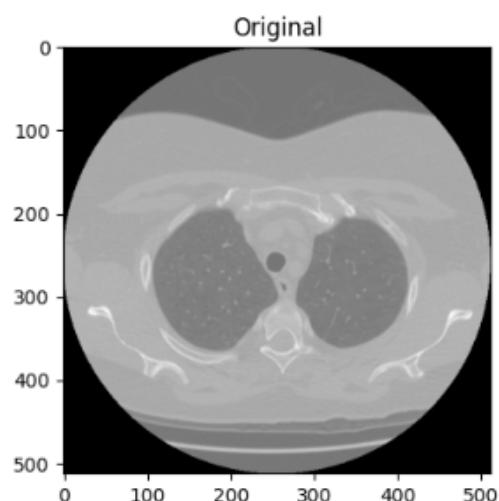
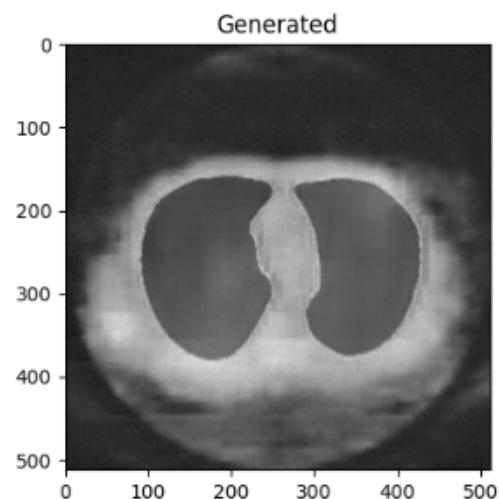
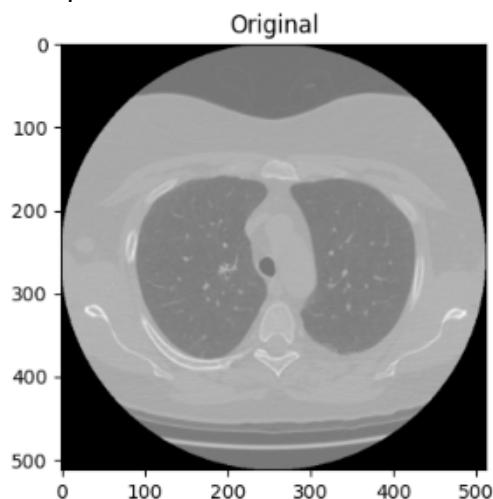
Melhor época: 29



Métricas:

```
{  
    "fid": 333.5730063519733,  
    "ssim_complete_mean": 0.684689454145156,  
    "ssim_complete_std": 0.2257325141835899,  
    "luminance_complete": 0.8089497106509685,  
    "contrast_complete": 0.9368868952741086,  
    "struct_sim_complete": 0.8773142968447891,  
    "ssim_center_mean": 0.7711134074235189,  
    "ssim_center_std": 0.1709905682939687,  
    "luminance_center": 0.8099810013974341,  
    "contrast_center": 0.9869020908477464,  
    "struct_sim_center": 0.9652183261345186  
}
```

Exemplos:



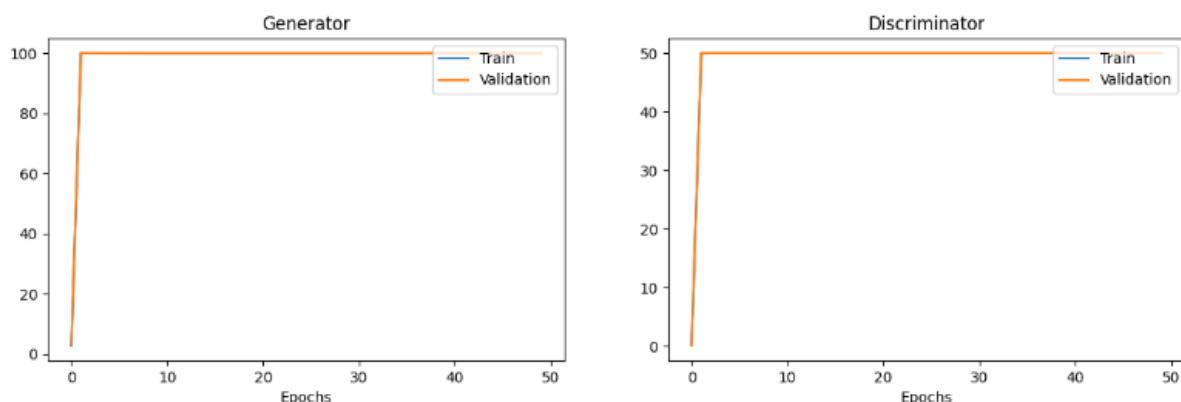
MODELOS TREINADOS COM DATASET COMPLETO:

Sweep10 - Continuação:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 4,  
    "steps_to_complete_bfr_upd_gen": 2,  
    "transformations": "AddGaussianNoise",  
    "lung_area": false,  
    "intensity": 0.3157719473254114,  
    "noise_mean": 0.7469069764183585,  
    "noise_std": 0.17845815118827982,  
    "criterion": "BCELoss",  
    "regularizer": "MSE",  
    "regularization_level": 8,  
    "optimizer_lr": 0.0002,  
    "optimizer_beta": 0.4597517629105646  
}
```

Época final

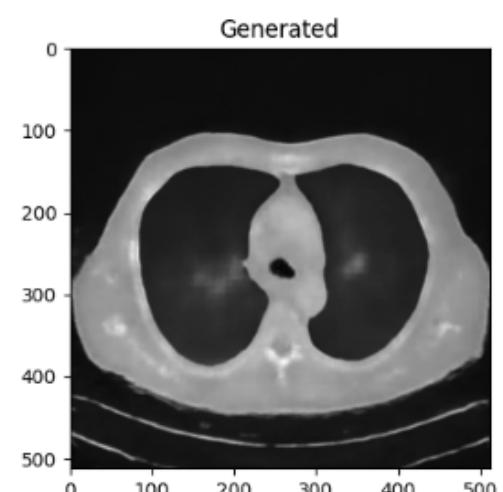
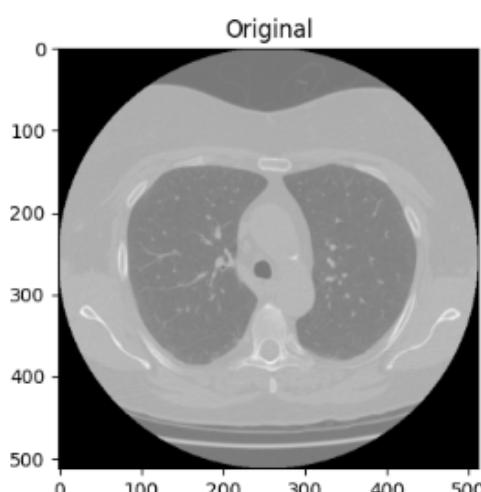
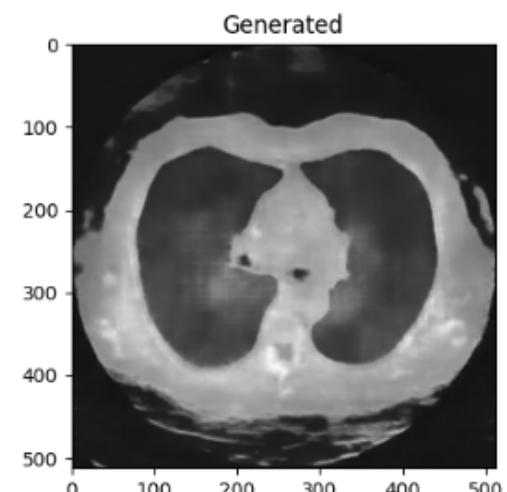
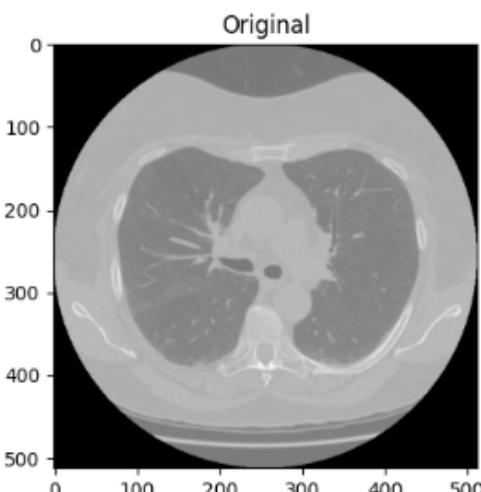
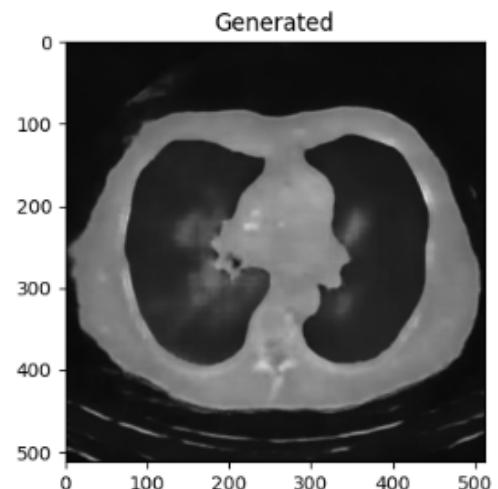
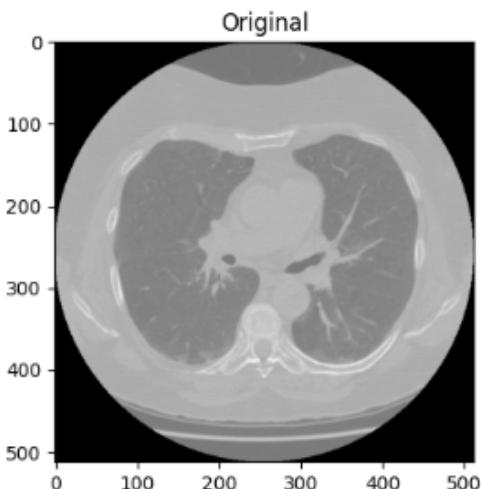


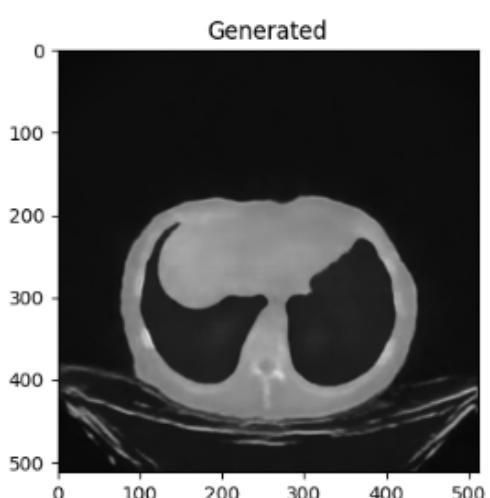
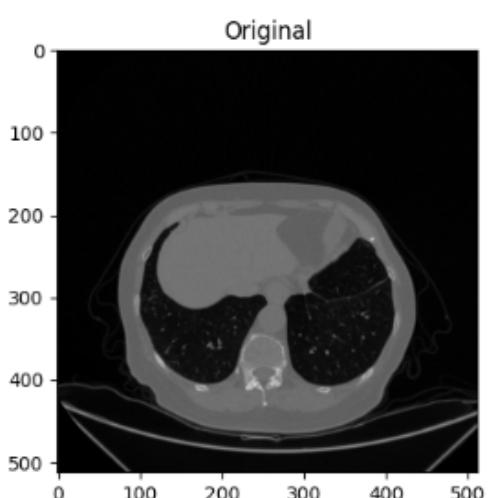
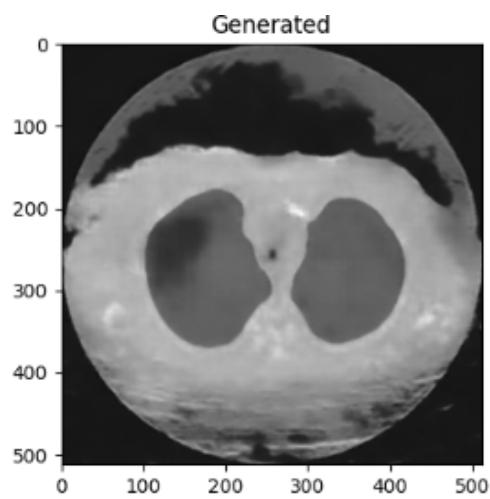
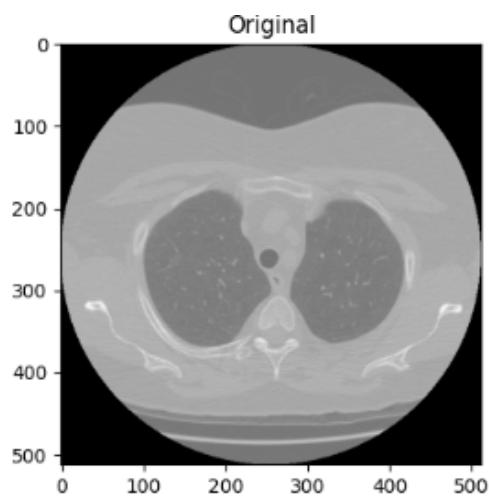
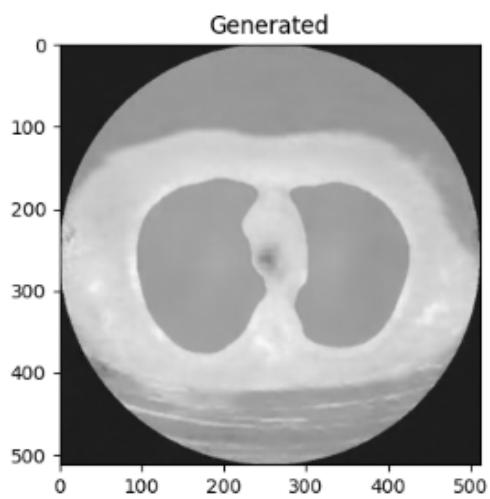
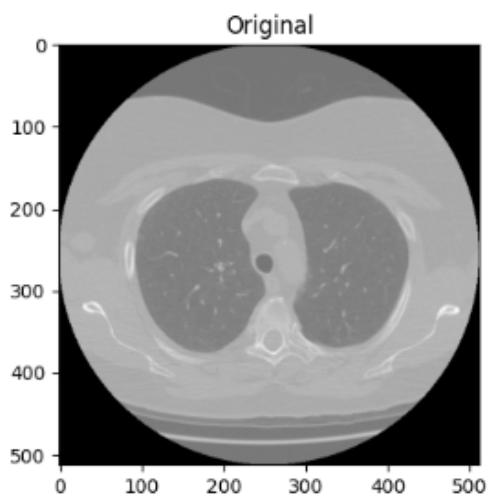
Métricas:

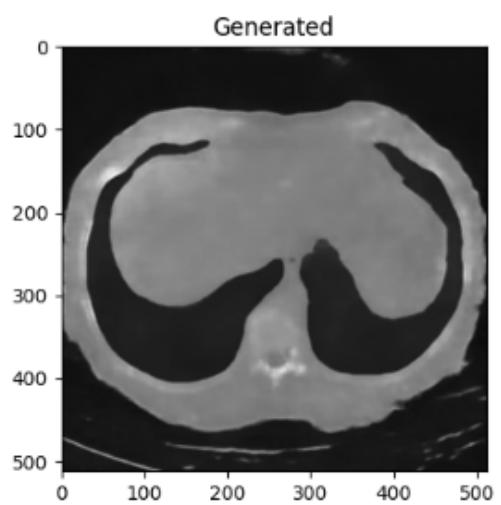
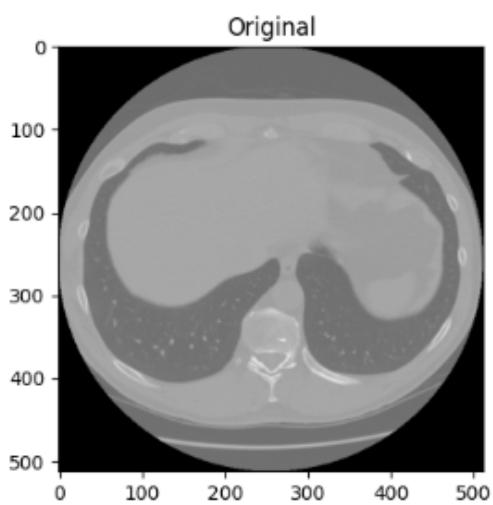
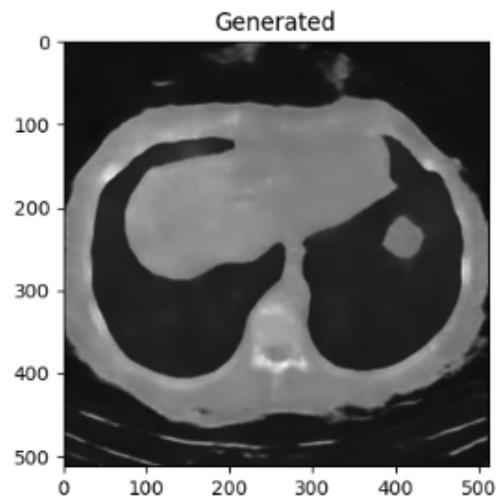
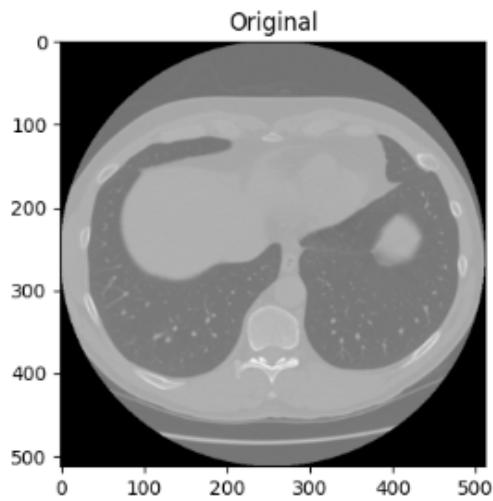
```
{  
    "fid": 293.994238421036,  
    "ssim_complete_mean": 0.6824532200521825,  
    "ssim_complete_std": 0.2379720225297553,  
    "luminance_complete": 0.7924966879151369,  
    "contrast_complete": 0.948633212973406,  
    "struct_sim_complete": 0.8803608040163259,  
    "ssim_center_mean": 0.7728551928415837,  
    "ssim_center_std": 0.1802642799563599,  
    "luminance_center": 0.8090385119547658,  
}
```

```
        "contrast_center": 0.9814862490038679,  
        "struct_sim_center": 0.973256627486669  
    }
```

Exemplos:





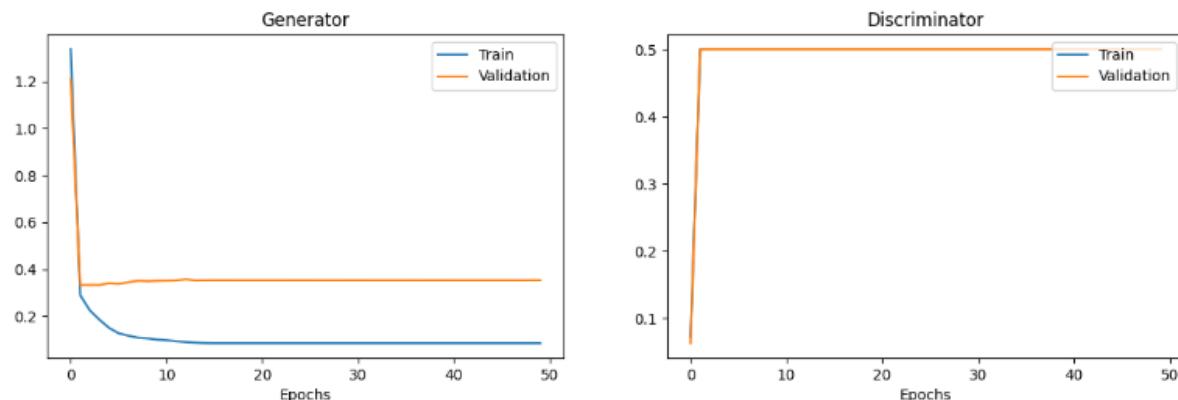


Sweep205 - Continuação:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 3,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": true,  
    "intensity": 0.5566831094118717,  
    "noise_mean": 0.5120044952795599,  
    "noise_std": 0.3903814624058676,  
    "criterion": "MSELoss",  
    "regularizer": "MAE",  
    "regularization_level": 10,  
    "optimizer_lr": 0.0002,  
    "optimizer_beta": 0.7555202559122287  
}
```

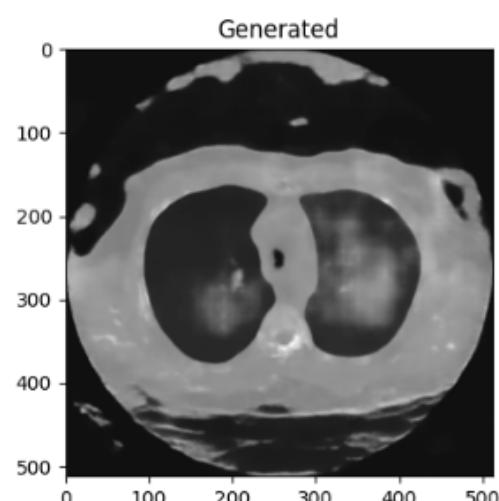
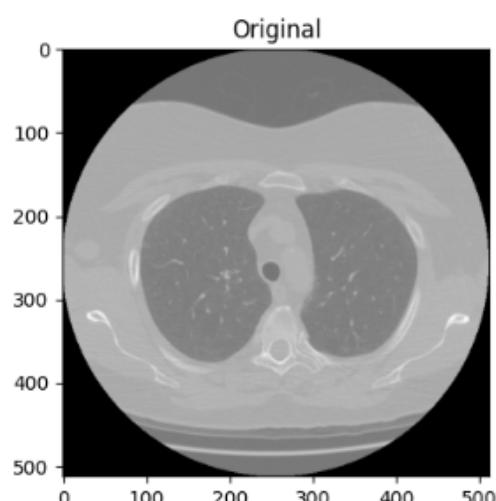
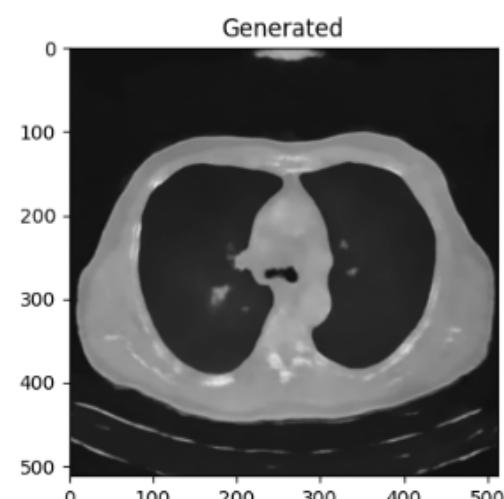
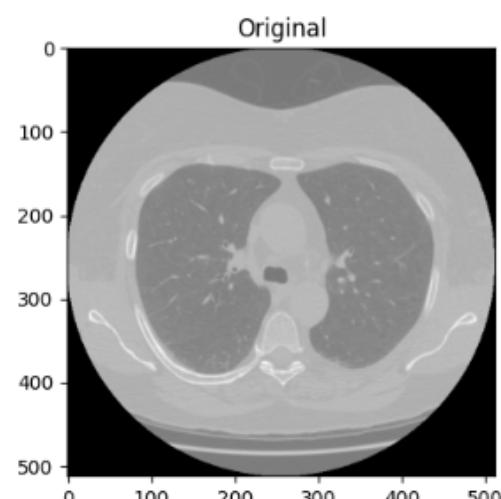
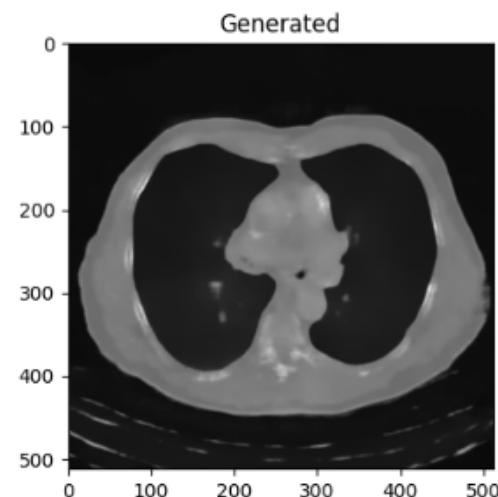
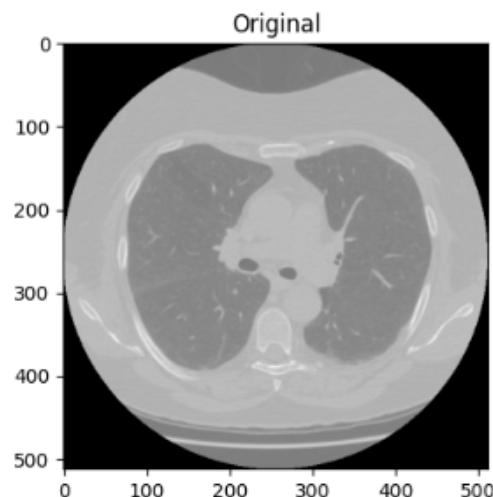
Época final

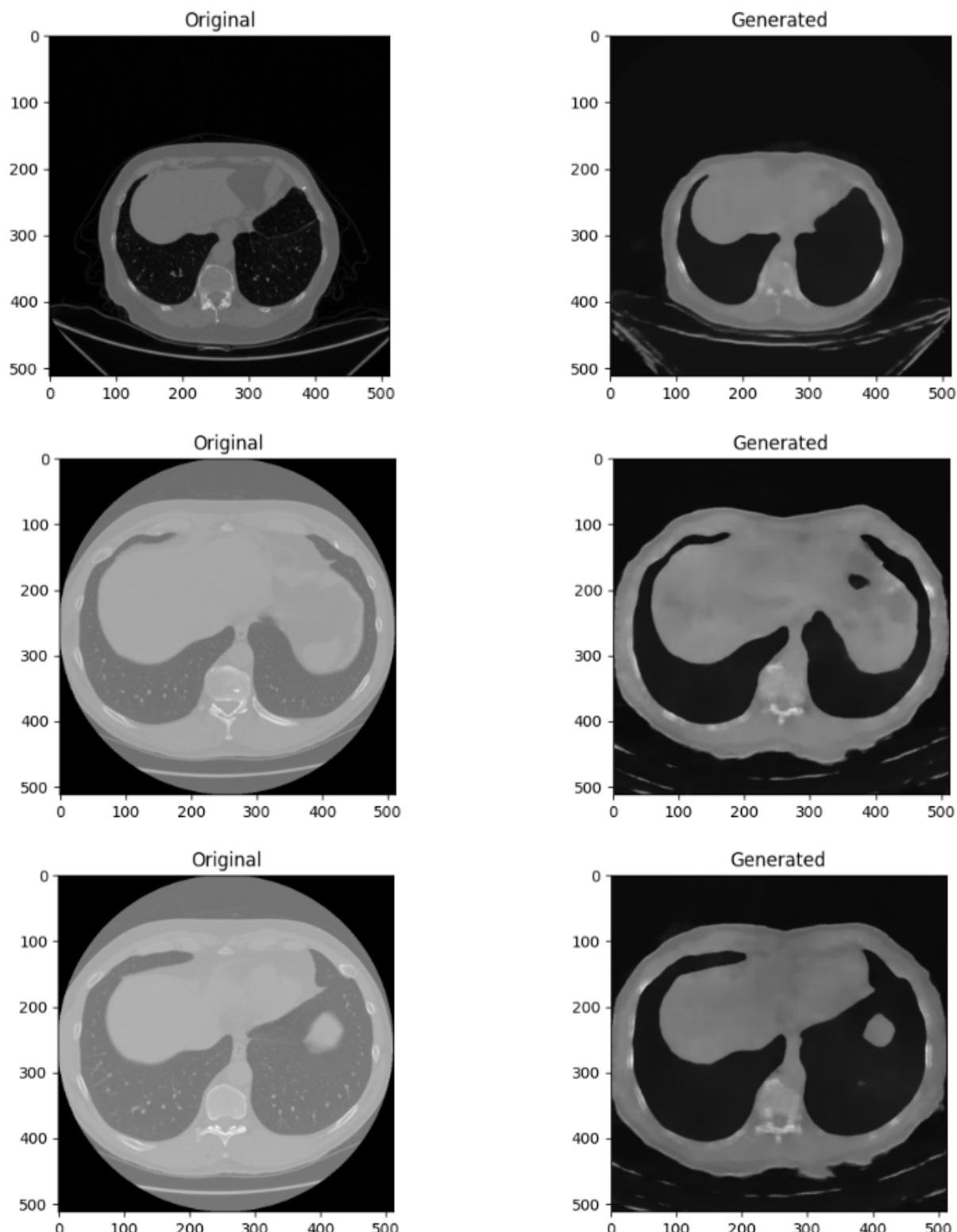


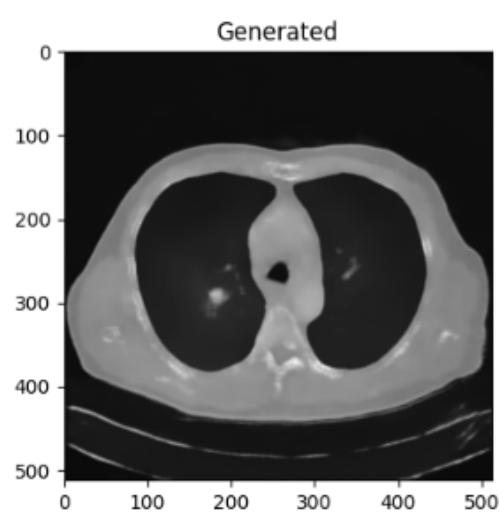
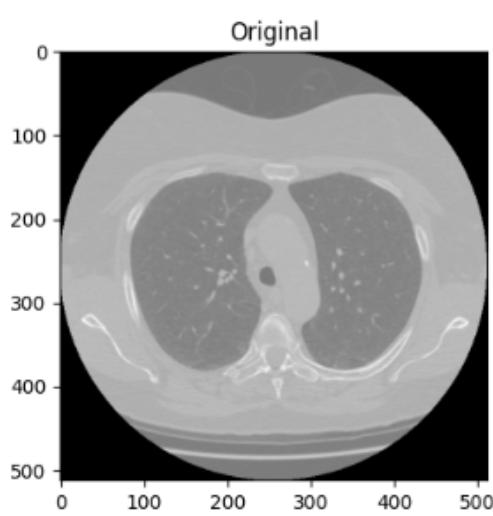
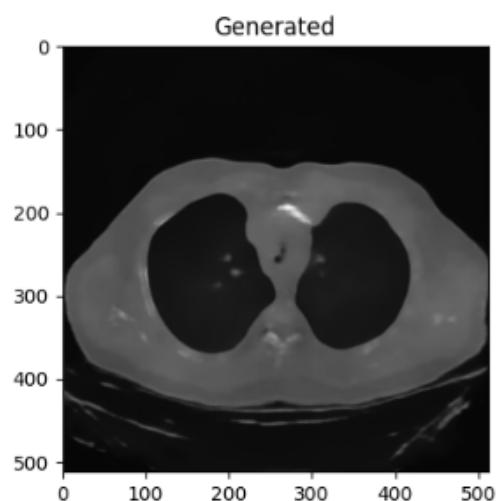
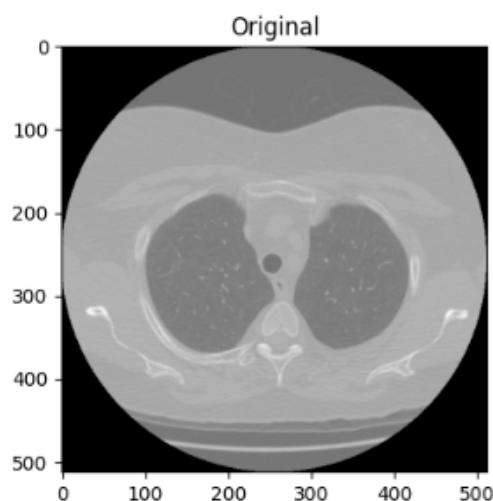
Métricas:

```
{  
    "fid": 311.54110516417313,  
    "ssim_complete_mean": 0.6352922878176526,  
    "ssim_complete_std": 0.23498065222278722,  
    "luminance_complete": 0.7567174886843316,  
    "contrast_complete": 0.9462934434119359,  
    "struct_sim_complete": 0.859104974492586,  
    "ssim_center_mean": 0.7254140055600942,  
    "ssim_center_std": 0.1844585892111588,  
    "luminance_center": 0.7716685526859265,  
    "contrast_center": 0.9709915913485119,  
    "struct_sim_center": 0.9677367786883592  
}
```

Exemplos:





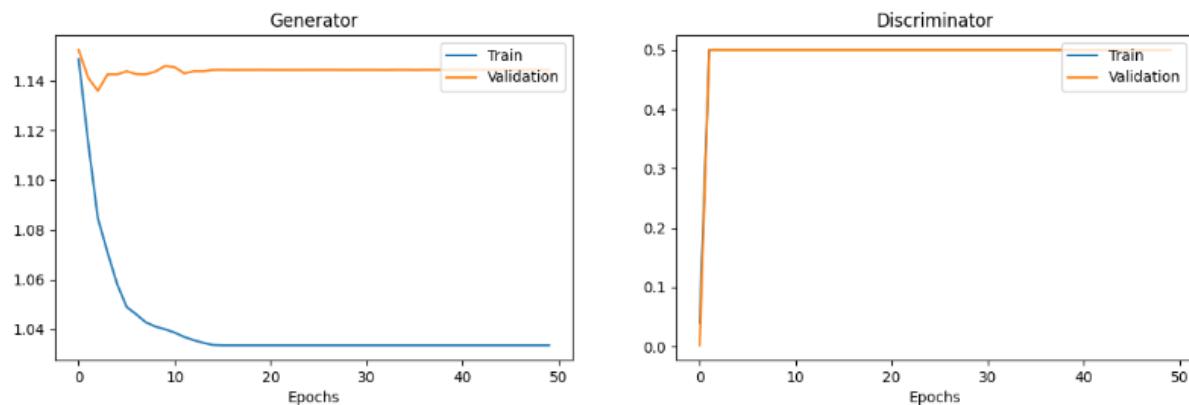


Sweep412 - Continuação:

Configuração de treino:

```
{  
    "steps_to_complete_bfr_upd_disc": 1,  
    "steps_to_complete_bfr_upd_gen": 1,  
    "transformations": "AddGaussianNoise",  
    "lung_area": false,  
    "intensity": 0.7572552489767528,  
    "noise_mean": 0.525049557342425,  
    "noise_std": 0.4755411392298655,  
    "criterion": "MSELoss",  
    "regularizer": "MAE",  
    "regularization_level": 4,  
    "optimizer_lr": 0.0002,  
    "optimizer_beta": 0.8811316699367162  
}
```

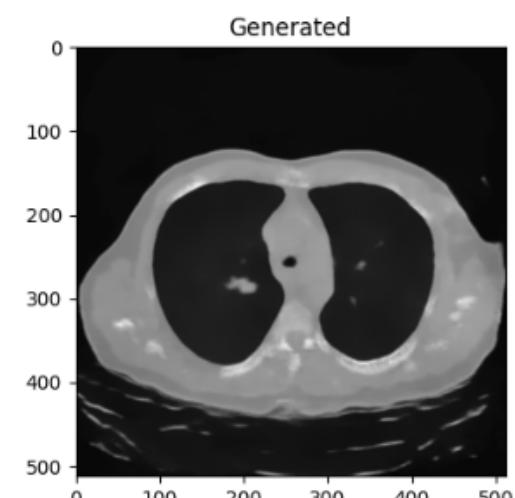
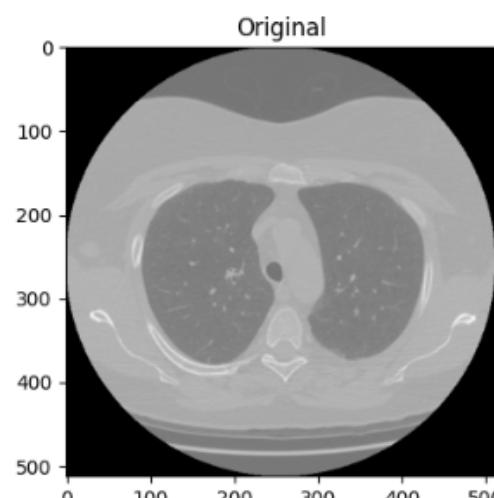
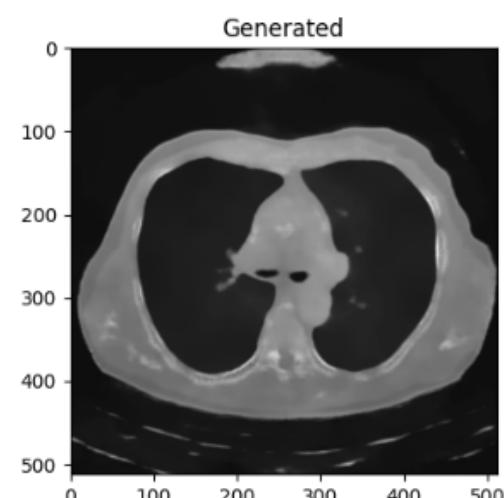
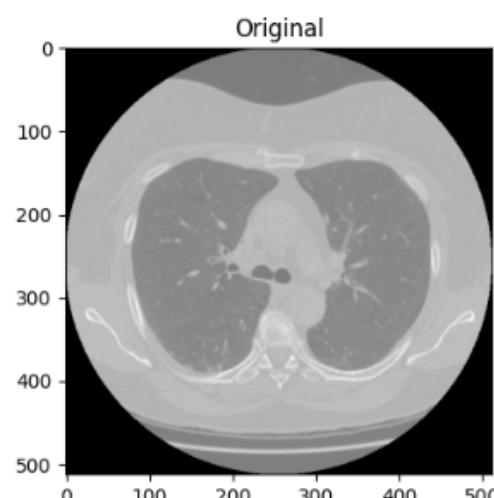
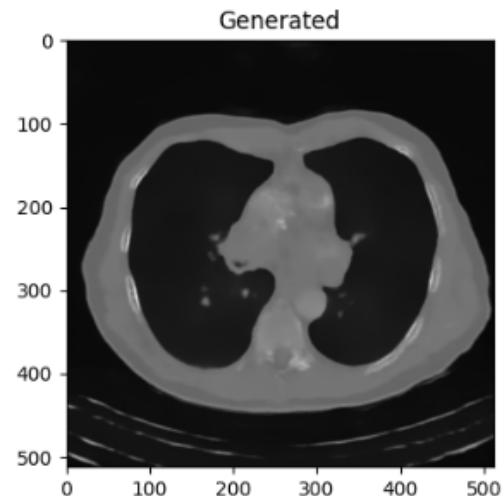
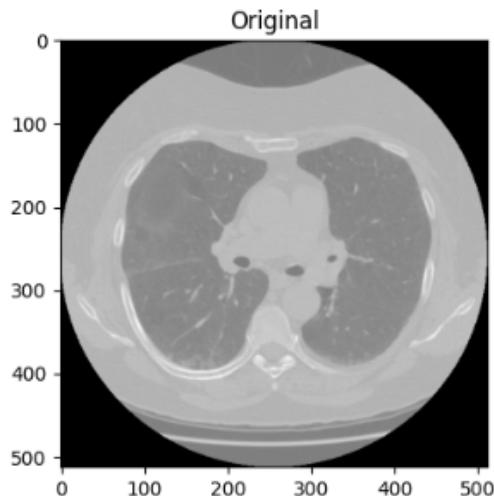
Época final

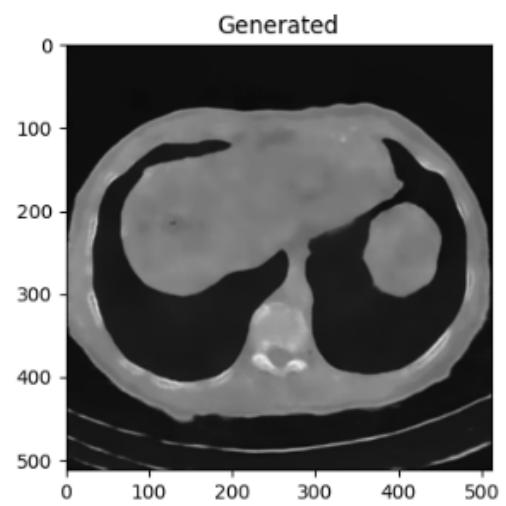
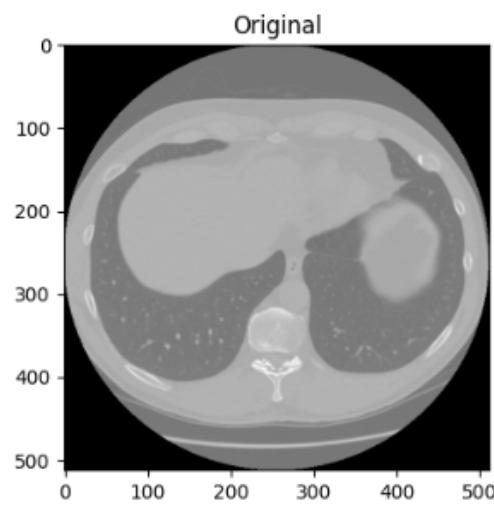
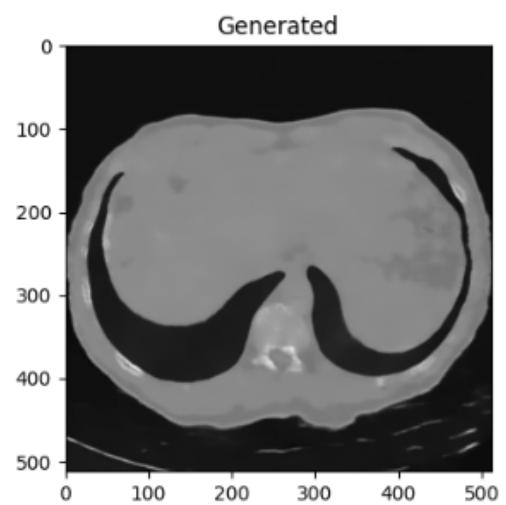
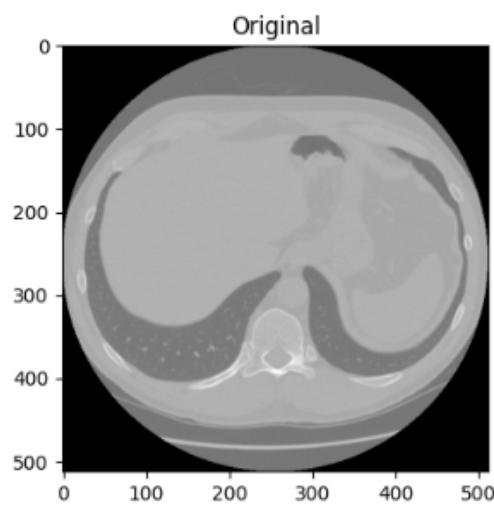
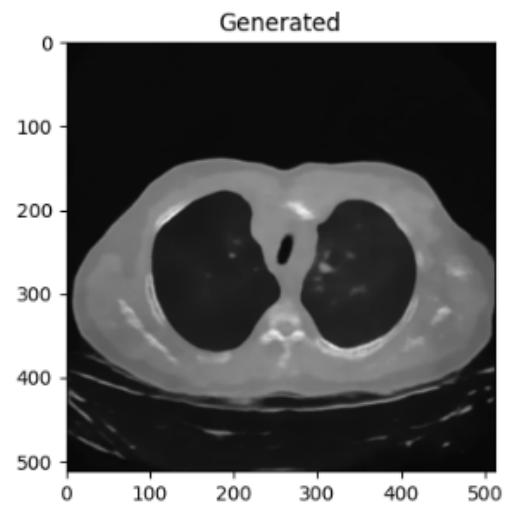
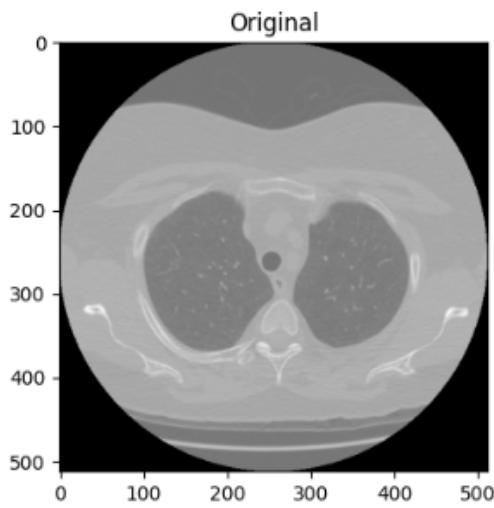


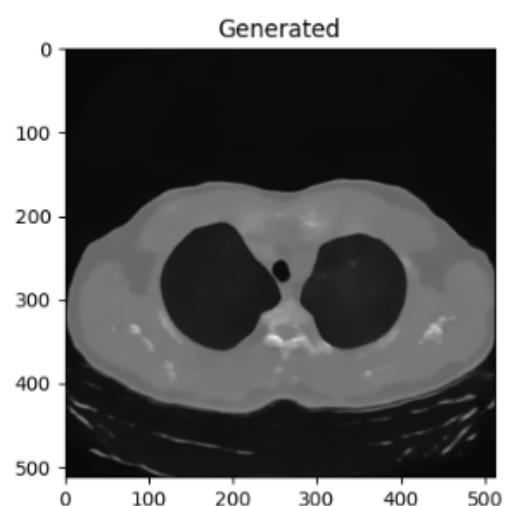
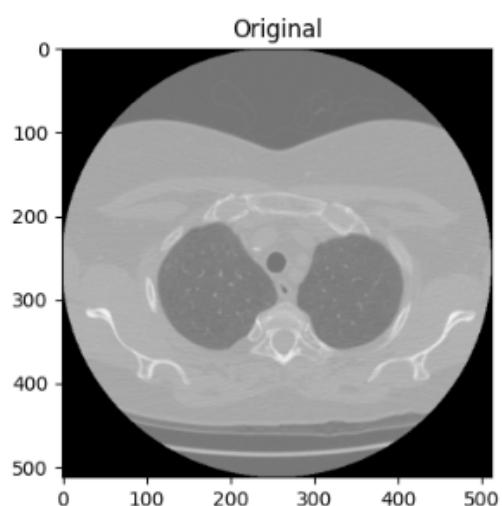
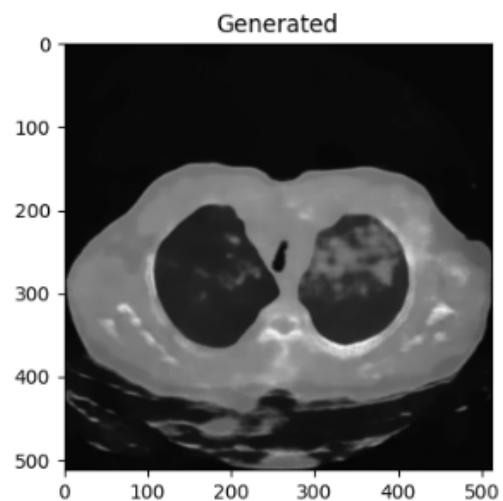
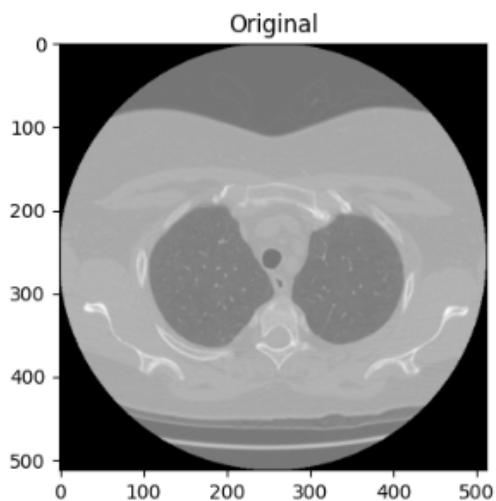
Métricas

```
{  
    "fid": 304.826262102015,  
    "ssim_complete_mean": 0.6161909340086005,  
    "ssim_complete_std": 0.23712984568136655,  
    "luminance_complete": 0.7402314918158885,  
    "contrast_complete": 0.940618978079939,  
    "struct_sim_complete": 0.8555982899610189,  
    "ssim_center_mean": 0.7086681423114665,  
    "ssim_center_std": 0.19055641930566072,  
    "luminance_center": 0.7540400874299389,  
    "contrast_center": 0.9716505518703348,  
    "struct_sim_center": 0.9674923083985821  
}
```

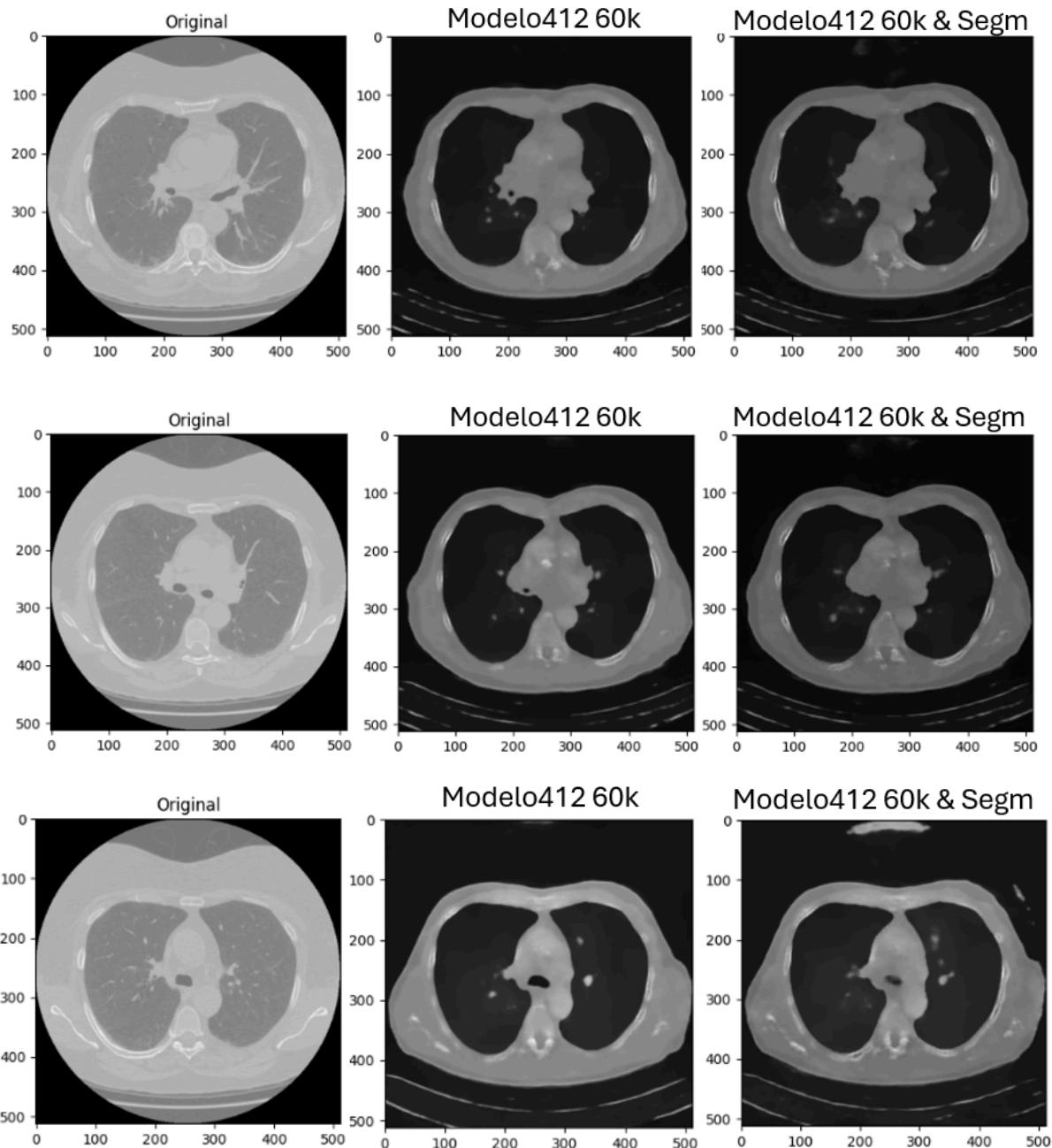
Exemplos:

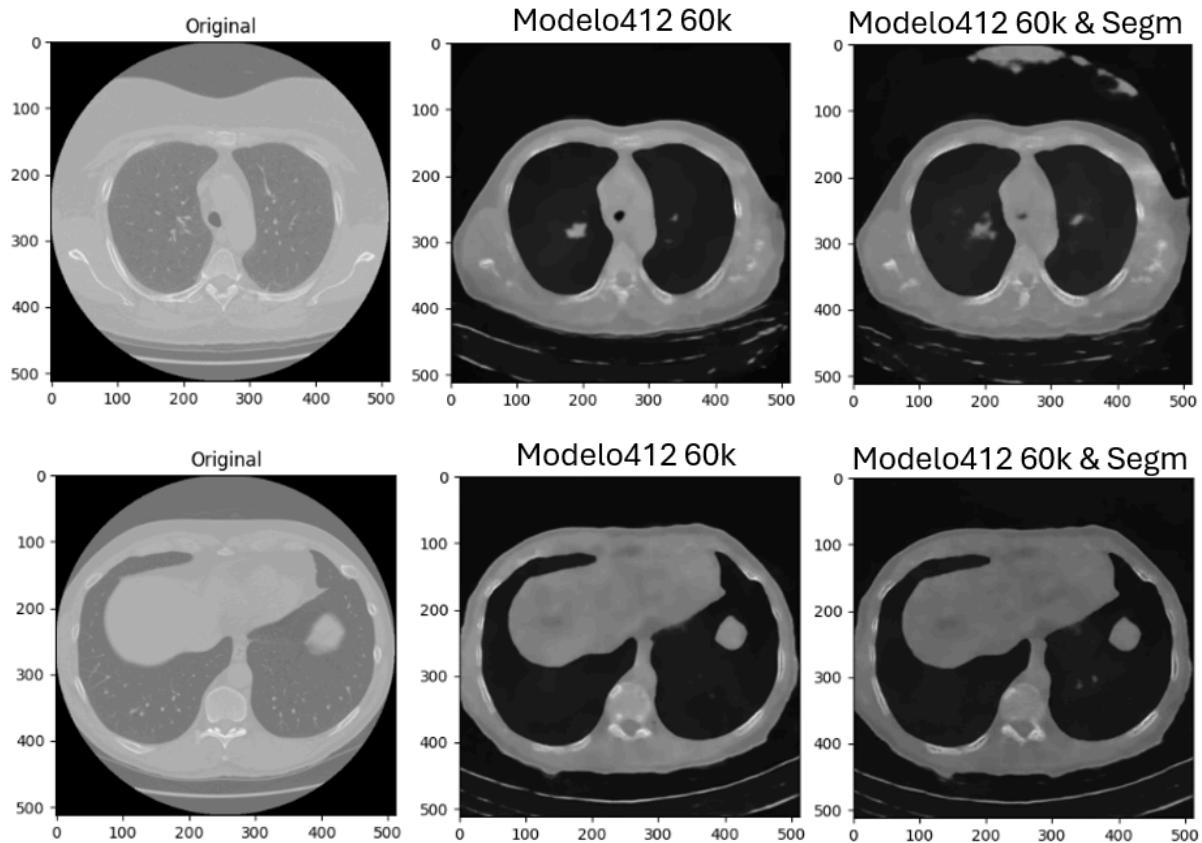






MODELO 412 TREINADO COM MÁSCARA INCORPORANDO AS VIAS AÉREAS:





Modelo412 60k

Modelo412 60k & Segm

```
{
  "fid": 304.826262102015,
  "ssim_complete_mean": 0.6161909340086005,
  "ssim_complete_std": 0.23712984568136655,
  "luminance_complete": 0.7402314918158885,
  "contrast_complete": 0.940618978079939,
  "struct_sim_complete": 0.8555982899610189,
  "ssim_center_mean": 0.7086681423114665,
  "ssim_center_std": 0.19055641930566072,
  "luminance_center": 0.7540400874299389,
  "contrast_center": 0.9716505518703348,
  "struct_sim_center": 0.9674923083985821
}
```

```
{
  "fid": 308.8794812015558,
  "ssim_complete_mean": 0.6261808714511164,
  "ssim_complete_std": 0.2315087198976508,
  "luminance_complete": 0.7521876930606582,
  "contrast_complete": 0.9449768652511529,
  "struct_sim_complete": 0.8538489772927959,
  "ssim_center_mean": 0.712722622652941,
  "ssim_center_std": 0.1858334732299439,
  "luminance_center": 0.7622936748175564,
  "contrast_center": 0.9679114672510198,
  "struct_sim_center": 0.9663454933041039
}
```