view settings

select point, line, ROI

set landmark

finalize landmark

single point gets corrected

delete landmarks with same number

delete set landmark

delete all landmarks

save or load landmarks

Labels within screenshot: LandmarkGUI · Landmark Points · View · coronal · original image · interpolated (isotropic) · transformed image · Set Points, Lines, ROIs · Points · 1. Set · 2. Fix · G01 G02 G03 G04 · delete row · clear set points · clear all points · Compare · compare · □ link images · set point · fixed points · set line · point gets corrected · set ROI · fixed line · fixed ROI · Gate 01 · Gate 02 · 37/72 · Dataset: data_la_Ph4_Tol100_t000_Ext00_EspOff_closest_recon.mat · Registration Method: elastix, Parameter: elastixParam.txt · selected image is outlined in white for setting landmarks

Single point

1. Set points in reference image
- select 'Points'
- scroll through slices to find matching landmark
- ensure left image is marked (white border)
- press 'Set' or S on keyboard
- set points: ENTER finalizes set points, DEL deletes set points

repeat for all images

2. Set points in moving images
- scroll through slices to find matching landmark
- ensure right image is marked (white border)
- press 'Set' or S on keyboard
- set points: ENTER finalizes set points, DEL deletes set points
- press '+' button or SPACE to change moving image

3. Finalize points
if same amout of point is set in all images:
- press 'Fix' or F on keyboard
  → points are fixed in table

4. Correct or delete points
- correct single point: mark corresponding cell in table and move point in image
- delete all points with number X: enter X into field below table and press 🗑

Points
Left-click sets point

Right-click sets last point

ENTER finalizes input

DEL or BACKSPACE deletes last point

ESC aborts action

Line/ROI

1a. Set line/ROI in reference image
- select 'Lines' or 'ROIs'
- scroll through slices to find matching landmark
- ensure left image is marked (white border)
- press 'Set' or S on keyboard
- set lines/ROIs: 2x left mouse-click finalizes set line/ROI, DEL deletes complete line/ROI

1b. Correct or fix line/ROI in reference image
- as long as you see a yellow line, you can move the individual points
- press 'Fix' or F on keyboard to fix line/ROI

2a. Set line/ROI in moving images
- scroll through slices to find matching landmark
- ensure right image is marked (white border)
- press 'Set' or S on keyboard
- set lines/ROIs: 2x left mouse-click finalizes set line/ROI, DEL deletes complete line/ROI

2b. Correct or fix line/ROI in moving images
- as long as you see a yellow line, you can move the individual points
- press 'Fix' or F on keyboard to fix line/ROI
- press '+' button or SPACE to change moving image

repeat for all images

3. Delete line/ROI in moving images
- delete all lines/ROIs with number X: enter X into field below table and press 🗑

Lines/ROIs
Left-click sets new point

Double-click sets last point and fixes input

Right-click finalizes input (without fixing)
→ A + Left-click sets adds a new point

DEL, BACKSPACE or ESC aborts action

5. Save landmarks (points, lines, ROIs)
- press 💾 to save all landmarks

6. Compare landmarks (points, lines, ROIs)
- press 'Compare' button → new GUI will pop up with the results