



✓ **Congratulations! You passed!**

TO PASS 80% or higher

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Theme 4 Quiz 4

LATEST SUBMISSION GRADE

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1. What is a wrapper function?

1 / 1 point

✓ **Correct**

2. The R function `preprocess_mri_within` (part of the R package `extrantr`) performs which image pre-processing steps?

1 / 1 point

✓ **Correct**

3. Given the following R code from the lecture:

1 / 1 point

```
1 files = c("113-01-MPRAGE.nii.gz",
2           "113-01-T2w.nii.gz",
3           "113-01-FLAIR.nii.gz")
4
5 files = file.path(mridir, files)
6
7 outfiles = c("113-01-MPRAGE_processed.nii.gz",
8              "113-01-T2w_processed.nii.gz",
9              "113-01-FLAIR_processed.nii.gz")
10
11 outfiles = file.path(mridir, outfiles)
12
13 preprocess_mri_within(files = files, retimg = FALSE,
14 outfiles = outfiles, correction = "N4", skull_strip = FALSE)
15
```

which file will the images be registered to?

✓ **Correct**

4. Given the following R code from the lecture:

1 / 1 point

```
1 files = c("113-01-MPRAGE.nii.gz",
2           "113-01-T2w.nii.gz",
3           "113-01-FLAIR.nii.gz")
4
5 files = file.path(mridir, files)
6
7 outfiles = c("113-01-MPRAGE_processed.nii.gz",
8              "113-01-T2w_processed.nii.gz",
9              "113-01-FLAIR_processed.nii.gz")
10
11 outfiles = file.path(mridir, outfiles)
12
13 preprocess_mri_within(files = files, retimg = FALSE,
14 outfiles = outfiles, correction = "N4", skull_strip = FALSE)
15
```

what should be changed if you wish to do N3 correct rather than N4 correct?

✓ **Correct**

5. Why is the `lapply` function used in the following code from the lecture?

1 / 1 point

```
1 masked_imgs = lapply(outfiles, fslmask,
2                       mask = mask, verbose = FALSE)
3
```

✓ Correct