

HMRC Technical Note of *Kwan-Jin Jung, Ph.D.*

Subject: Susceptibility artifacts from mascara on the eyelash

1. Mascara

- The black dye in mascara is known to have magnetic susceptibility in the same way as in the black ink.
- Therefore, it induces magnetic susceptibility around the eyes resulting in signal void and geometric distortion of surrounding tissues.
- In addition, it could have heating as in the tattoo.



2. Comparison of effects on MPRAGE: without vs. with mascara



3. Comparison of effects on fieldmap and EPI: without vs. with mascara

