

## Supplementary Materials

### Search strategy

Literature searches of the PubMed and Web of Science databases were conducted in Jul 15, 2021; the search strategies are as follows. Specific limited update searches were conducted after Jul 15, 2021.

#### 1. PubMed Search (Publication Date 1/1/1900–7/15/2021)

((“corneal flap”[Title] OR (“femtosecond laser”[Title] OR (“mechanical microkeratome”[Title])) AND (“laser in situ keratomileusis”[Title] OR (“laser-assisted in situ keratomileusis”[Title] OR (“LASIK”[Title])). 362 references.

#### 2. Scopus (Publication Date 1/1/1900–7/15/2021)

(TITLE(“corneal flap”) OR TITLE(“femtosecond laser”) OR TITLE(“mechanical microkeratome”)) AND (TITLE(“laser in situ keratomileusis”) OR TITLE(“laser-assisted in situ keratomileusis”) OR TITLE(“LASIK”)). 476 references

After removing duplicates 495 publications were analyzed. Finally, 114 articles were considered as relevant.