Purpose

The cause of the DONFL appearance remains unclear. We investigated the incidence of and predisposing factors for DONFL after PPV for the treatment of ERM.

Subjects & Methods

We retrospectively reviewed 165 eyes in 89 consecutive patients who had undergone vitrectomy surgery (PPV). A total of 155 eyes underwent ILM peeling. DONFL occurred in 30 eyes (incidence, 19.9%). The cause of the DONFL appearance remains unclear.

Results

The overall incidence of the DONFL appearance after ERM surgery in our study was 10.1%, and that in cases involving ILM peeling was 18.7%.

IPLM peeling and intravitreal gas tamponade were strongly correlated with postoperative DONFL formation.

Table 3. Comparison of clinical characteristics and surgical procedures between DONFL and non-DONFL groups

DOGFL in 30 of the 296 eyes (incidence, 10.1%) developed in patients who underwent vitrectomy surgery (PPV) and internal limiting membrane (ILM) peeling procedures. The cause of the DONFL appearance remains unclear.

Discussion

The overall incidence of the DONFL appearance after ERM surgery in our study was 10.1%, and that in cases involving ILM peeling was 18.7%.

IPLM peeling and intravitreal gas tamponade were strongly correlated with postoperative DONFL formation.

Compared with IPLM peeling alone, IPLM peeling plus intravitreal gas tamponade was more strongly correlated with postoperative DONFL formation.

Another possible factor associated with DONFL formation is ICG dye, which is used to stain the ILM as necessary. IPLM peeling plus intravitreal gas tamponade was more strongly correlated with postoperative DONFL formation.

References