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HOW MANY PATIENTS DIAGNOSED WITH RETINOPATHY OF PREMATURETY TYPE 1 ACTUALLY HAVE TYPE 1 ROP?

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Introduction:

To determine what proportion of patients with a clinical diagnosis of type 1 retinopathy of prematurity (ROP) actually have type 1 ROP on angiography.

Materials and methods:

From March 2023 to May 2024, fundus fluorescein angiography (FFA) was performed in patients who were found to require treatment for ROP during examinations at external centers and referred to us for treatment. Patients whose diagnosis of type 1 ROP was confirmed by indirect ophthalmoscopy and FFA were included in group 1 and treated immediately. Patients who were not diagnosed with type 1 ROP according to the FFA results were followed up as group 2. Demographic data were compared between the two groups.

Results:

A total of 22 preterm infants underwent FFA. The mean gestational age of 10 (45.5%) babies in group 1 was 30.10 ± 2.96 weeks and the mean birth weight was 1478.0 ± 477.13 grams. The mean gestational age of the 12 (54.5%) babies in Group 2 was 27.41 ± 3.08 weeks and the mean birth weight was 1125.91 ± 538.28 grams. The mean length of stay in the hospitalization was 47.8 and 93.3 days, and the mean number of oxygens/day during hospitalization was 26.8 and 48.0 days in the treated and non-treated groups, respectively.

Conclusions:

Retinal collaterals can be mistaken for neovascularisation. These collaterals may be seen in stages of healing. Plus disease can also be evaluated as a false positive. By differentiating these with FFA, unnecessary treatment can be avoided. However, large studies are needed before this can be included in the protocol.