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Outcome of Combined Trabeculotomy-Trabeculectomy in Eyes of Nigerian Children with Primary Congenital Glaucoma

Résultats de la Trabéculotomie et de la Trabéculéctomie Combinées chez des Enfants Nigériens Atteints de Glaucome Congénital Primaire

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ABSTRACT

PURPOSE: To report the outcome of combined trabeculotomy-trabeculectomy among children with primary congenital glaucoma at a child eye health tertiary facility in southwest Nigeria.

METHODS: A retrospective review of children who underwent combined trabeculotomy-trabeculectomy (CTT) surgery on account of primary congenital glaucoma between 2016 and 2020 at the University College Hospital, Ibadan, Nigeria. All surgeries were performed by paediatric ophthalmologists. The main outcome measures were postoperative intraocular pressure, corneal clarity, and complications.

RESULTS: A total of 21 eyes of 13 patients were included. Ten (76.9%) of the patients were males and 8 (61.5%) had bilateral disease. The mean age at presentation was 4.8 (\pm 3.6) months, while the mean age at surgery was 8.1 (\pm 5.9) months. The average waiting time between noticing symptoms and presenting to the clinic was 3.2 (\pm 4.9) months. The mean horizontal corneal diameter was 13.2 (\pm 1.4) mm, while the mean pre-operative intraocular pressure (IOP) was 25.7 (\pm 8.6) mmHg. The surgical success (IOP < 21 mmHg) rates at 3, 6, and 12 months were 86.7%, 64.3%, and 92.9% respectively. The Kaplan-Meier estimates of the probability that IOP remained below 21 mmHg up till 3, 6, and 12 months were 74%, 53%, and 53% respectively. Postoperatively, 85.7% of the eyes had complete resolution of corneal oedema. One eye had an intraoperative complication of vitreous loss. The post-operative clinic follow-up rate reduced to 52.4% by 1 year.

CONCLUSION: Combined trabeculotomy-trabeculectomy is a relatively safe procedure that is associated with favorable success in Nigerian children with primary congenital glaucoma. **WAJM 2023; 40(8): 826–830.**

Keywords: Congenital glaucoma, Trabeculotomy-trabeculectomy, Surgical outcome, Intraocular pressure.

RÉSUMÉ

OBJECTIF: Présenter le résultat de la combinaison de la trabéculotomie et la trabéculéctomie chez les enfants atteints de glaucome congénital primitif dans un hôpital tertiaire du sud-ouest du Nigéria.

METHODES: Une revue rétrospective des enfants qui avaient subi une combinaison de trabéculotomie et trabéculéctomie pour le traitement de glaucome congénital primitif entre 2016 et 2020 à l'University College Hospital, Ibadan, Nigeria. Toutes les chirurgies avaient été effectuées par des ophtalmologistes pédiatres. Les principaux résultats étaient la pression intraoculaire postopératoire, la clarté cornéenne et les complications.

RESULTATS: Au total 21 yeux de 13 patients étaient étudiés. Dix (76,9%) patients étaient des garçons et 8 (61,5%) avaient une atteinte bilatérale. La moyenne d'âge à la présentation était de 4,8 (\pm 3,6) mois, tandis que la moyenne d'âge au moment de la chirurgie était de 8,1 (\pm 5,9) mois. Le temps d'attente moyen entre l'observation des symptômes et la présentation à la consultation était de 3,2 (\pm 4,9) mois. Le diamètre cornéen horizontal moyen était de 13,2 (\pm 1,4) mm, tandis que la pression intraoculaire (PIO) préopératoire moyen était de 25,7 (\pm 8,6) mmHg. Les taux de succès chirurgical (PIO < 21 mmHg) à 3, 6 et 12 mois étaient respectivement de 86,7%, 64,3% et 92,9%. Les estimations de Kaplan-Meier de la probabilité que la PIO restait en dessous de 21 mmHg jusqu'à 3, 6 et 12 mois étaient respectivement 74%, 53% et 53%. Après l'opération, 85,7% des yeux avaient une résolution complète de l'œdème cornéen. Un œil avait une complication peropératoire de perte de vitré. Le taux de visites médicales en postopératoire était réduit à 52,4% en 1 an.

CONCLUSION: La combinaison de la trabéculotomie et de la trabéculéctomie est une procédure chirurgicale relativement sûre associée à un succès favorable chez les enfants Nigériens atteints de glaucome congénital primitif. **WAJM 2023; 40(8): 826–830.**

Mots clés: Glaucome congénital, Trabéculotomie et Trabéculéctomie, Résultat chirurgical, Pression intraoculaire.

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