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The First Retinoblastoma Local Experience in Kuwait: A Retrospective Case Series

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INTRODUCTION

Retinoblastoma (RB) is the most intraocular tumour that affects pediatric age group. Due to COVID-19 pandemic, abroad treatment of cases with RB was restricted and therefore the healthcare system in Kuwait established the first RB team for the management of RB cases at AlBahar Ophthalmology Center.

AIM

To report the first series of retinoblastoma (RB) cases that were managed locally in Kuwait by the RB team that was established during the COVID-19 pandemic.

RESULTS

- Six standard of care for RB in Kcases with RB were included. The ages ranged from 3 months to 2 years with a male to female ratio of 2:1. All cases presented with an abnormal pupillary reflex with or without strabismus.
- Examination mostly showed leukocoria and an intra-retinal mass with calcification with or without vitreous seeding. Most cases were unilateral except for one case, which had bilateral RB. International classification of RB staging ranged from group B to E.
- Multidisciplinary approach was followed to manage these cases. All cases were successfully treated with no mortalities reported.

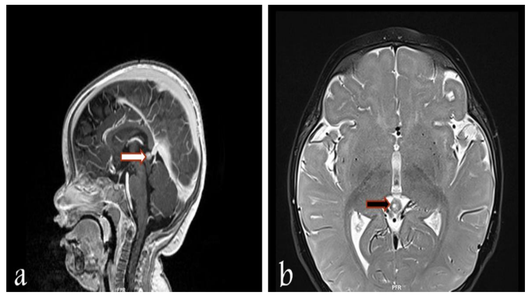
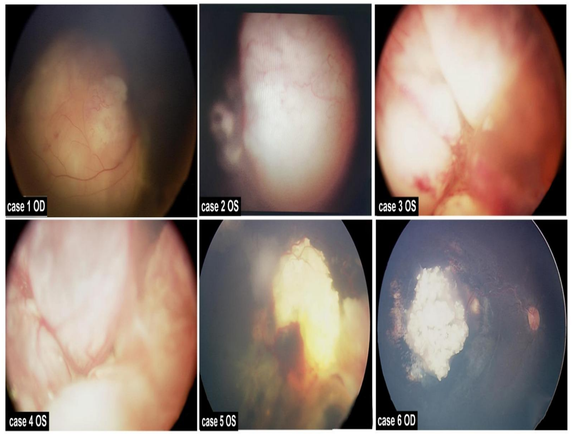


Figure 1. MRI brain findings of case 2 demonstrating pineal involvement (a) sagittal plane (b) axial plane. The pineal gland was relatively prominent with heterogeneous appearance and enhancement. No sellar or suprasellar mass was noted.

CONCLUSION

The COVID-19 pandemic revolutionized the uwait and mandated the establishment of a multidisciplinary team to follow a standardized protocol to manage RB cases successfully.



Retcam images of posterior segment of the retinoblastoma cases at presentation:
Case 1 OD - large single subretinal mass obscuring the temporal border of the optic nerve with calcification and small cuff of SRF without vitreous.
Case 2 OS - advanced group D RB obscuring the optic nerve with multiple vitreous seeds.
Case 3 OS - large vascular retrolental mass obscuring the optic disc with anterior vitreous seeding.
Case 4 OS - retro-lental mass obscuring the view to examine the optic nerve and macula.
Case 5 OS - exudative RD with pre retinal haemorrhages and vitreous seeds.
Case 6 OD - inactive chronic calcified solitary lesion without seeding.
Key: OD: Right Eye; OS: Left Eye.

CONTACT INFORMATION