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| **Title:**  Indocyanine Green (ICG) Guided Endoscopic Extended Transphenoidal Surgery for Recurrent Craniopharyngioma  **Authors:**  NG Chat Fong1, Calvin Hoi Kwan MAK1 , TSE Tat Shing1  **Institution(s):**  1 Department of Neurosurgery, Queen Elizabeth Hospital  **Abstract:**  ***Objective*:**  To describe the techniques of extended transsphenoidal excision of recurrent craniopharyngioma and application of indocyanine green to better illustrate the surgical anatomy  ***Method:***  Extended transsphenoidal surgery was done for a middle aged lady with enlarging recurrent craniopharyngioma on MRI scan. During the operation, indocyanine green (ICG) was injected. With the aid of ICG endoscope, surgical anatomy was better illustrated. This operative video aim to describe the techniques of extended transsphenoidal excision of recurrent craniopharyngioma and application of indocyanine green to better illustrate the surgical anatomy.  ***Result:***  Gross total excision was achieved with good patient outcome. There was no visual impairment nor diabetes insipidus.  ***Conclusion:***  Recurrent craniopharyngioma can be approached by endoscopic extended transsphenoidal surgery with good outcome. Indocyanine green is an useful adjunct aiding tumor dissection. |