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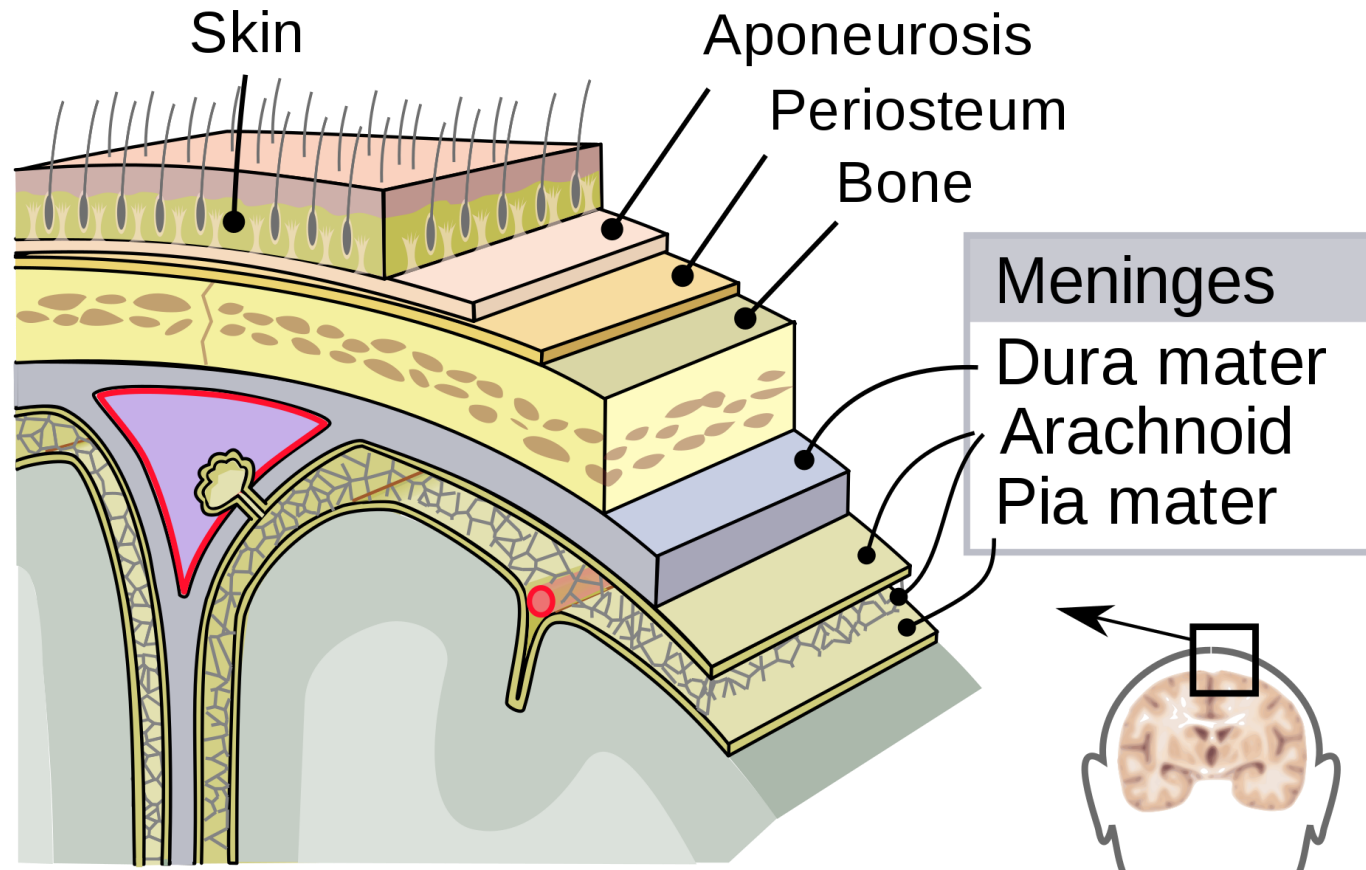
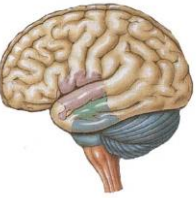
GLUBRAN[®]2

NEURO SURGERY



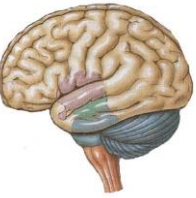
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NEUROSURGERY



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NEUROSURGERY



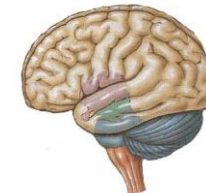
**Glubran 2 as a sealant of the dura (cranial or spinal)
to reinforce the suture
and to prevent fistulas**

CONTRAINDICATIONS on IFU

Do not apply the product directly to cerebral tissue.
Do not use the product for anastomoses of peripheral nerves.



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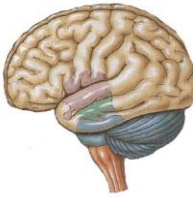


APPLICATION OF GLUBRAN 2 IN ENDOSCOPIC TRANSSPHENOIDAL SURGERY

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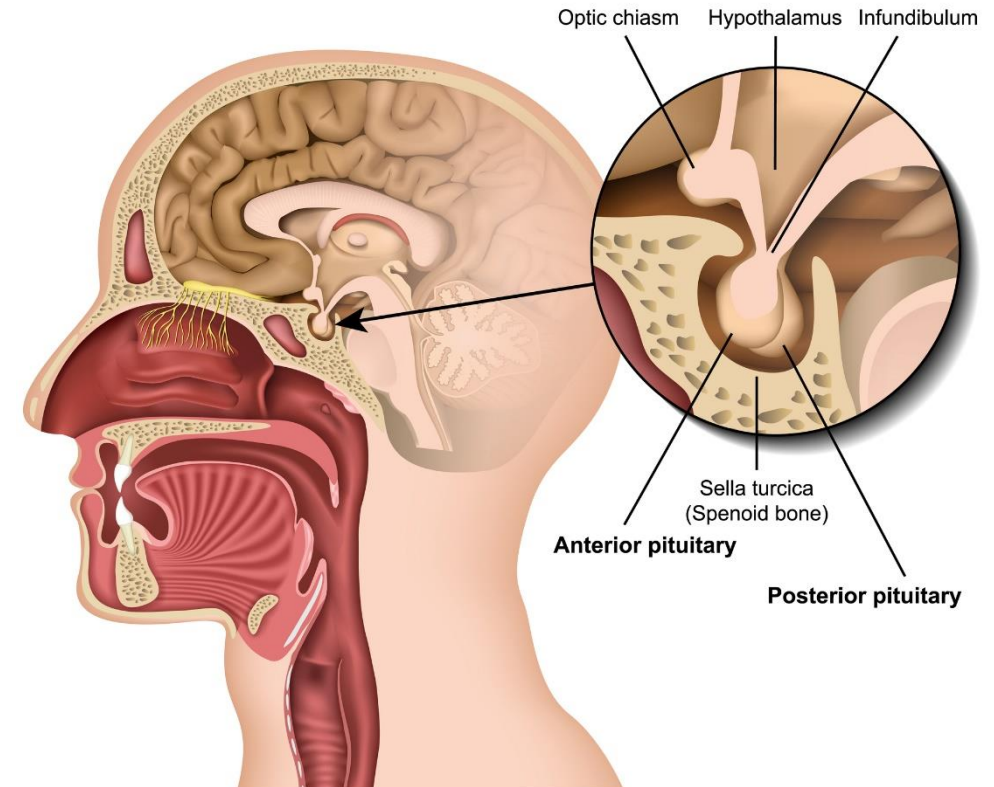
Pituitary adenoma

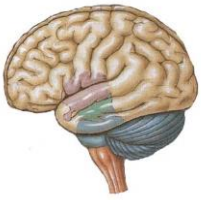


Pituitary adenoma is a benign tumour that occurs in the pituitary gland.

When a pituitary adenoma presses on neighbouring structures or if it secretes too much, it is necessary to **remove it surgically**.

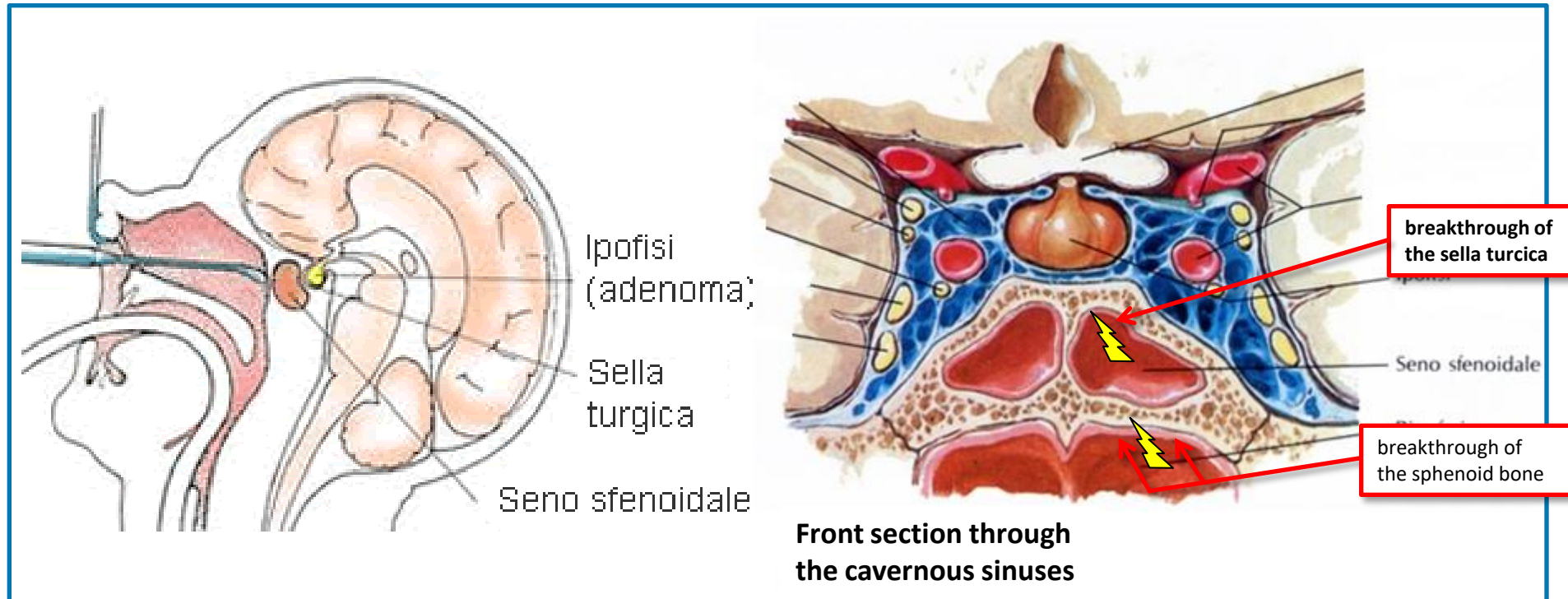
The surgical approach of choice is: **transsphenoidal**



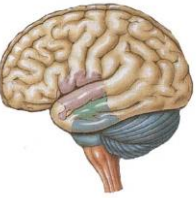


Transsphenoidal surgery

The pituitary gland is reached endoscopically, passing through the nasal cavity and then breaking through the **sphenoid bone** and **sella turcica**



ADVANTAGES



This procedure :

- is minimally invasive
- does not require external incisions
- minimises complications and hospitalisation time

Possible complications

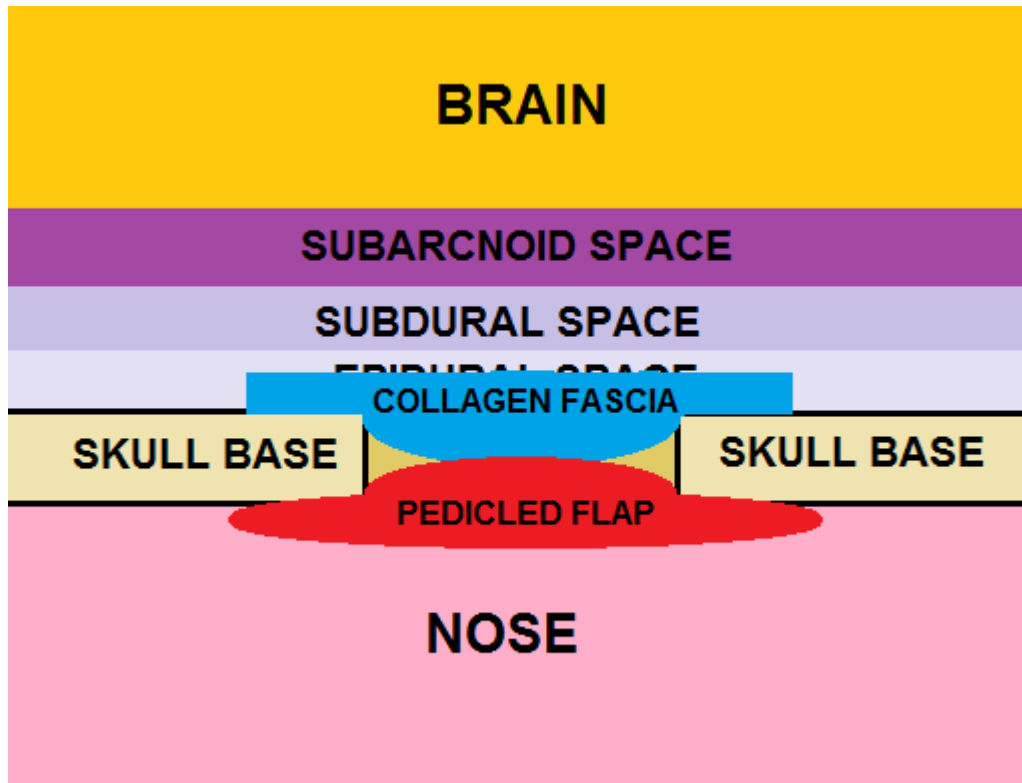
The most common complications of transsphenoidal endoscopic surgery are **rhino-liquoral fistulas**:

- abnormal communication between the cerebral subarachnoid space and the nasal cavity.

The fistula is presented with a ***liquorrhea***,
i.e. continuous leaking of a clear liquid from the nose.



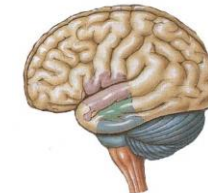
Bone reconstruction procedure after transsphenoidal surgery



At the end of the Transsphenoidal surgical procedure, the opening created in the bone to access the pituitary gland is repaired by reconstruction techniques with autologous grafts of various kinds and/or artificial tissue (collagen) and sealed with surgical glue.

In order to prevent rhino-liquoral fistulas, it is important to seal the subarachnoid space with Glubran 2, at the surgical access point!

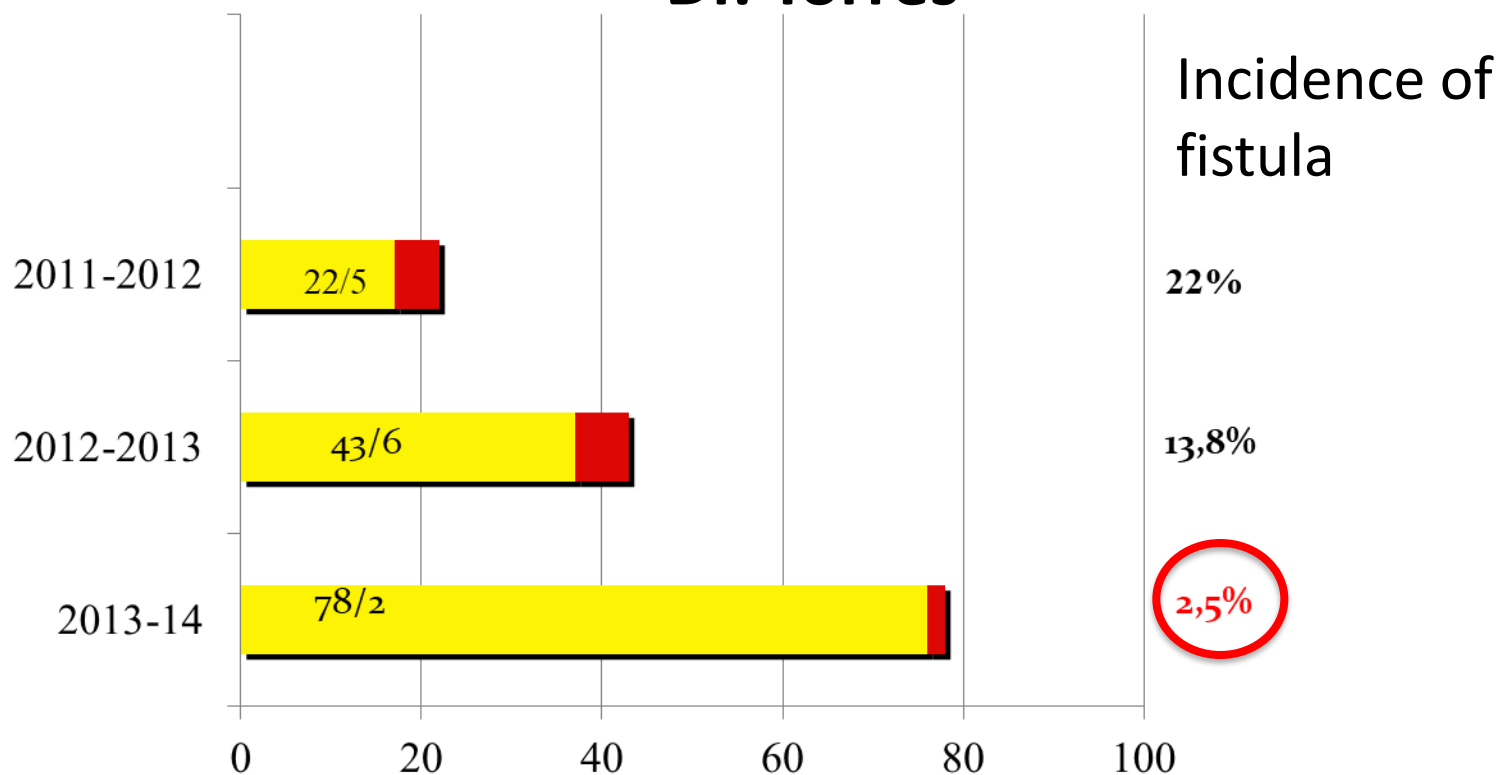
Incidence of fistula in literature is in
0.5-21% of cases



Learning curve

Transsphenoidal endoscopy for the application of Glubran 2

Dr. Torres





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Bibliography

Original Article<http://mjiri.iums.ac.ir>

Medical Journal of the Islamic Republic of Iran, Vol. 27, No. 4, Nov 2013, pp. 186-194

**Sellar reconstruction algorithm in endoscopic transsphenoidal
pituitary surgery: experience with 240 cases**

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Received: 30 Jan 2013

Revised: 16 May 2013

Accepted: 22 May 2013