

Meningioma under progestin treatment : our experience

Vereecken Thibault, Cornu Emma, Servais Vania, Kridelka Frédéric, Potorac Julie,
Reuter Gilles, Pintiaux Axelle

Background

2007 : EPI-PHARE => increased risk of meningioma with

- Cyproterone acetate (Androcur®)
- Nomegestrol acetate (Lutenyl®, Nogest®)
- Chlormadinone acetate (Lutéran®, Helen®)



Risk proportional to the cumulative dose (daily dosage + duration)

EMA (2020 and 2022) :

- Use of progestins at the minimally effective dose
- Mandatory discontinuation of progestins in case of meningioma

Our study

Inclusion criteria : female patients with meningioma seen in neurosurgery or gynecology-endocrinology at CHU Liège since January 2022

Prospective study

≥6 patients in prospective study

Constatations :

- Special characteristics of meningiomas
- Important cumulated doses of progestins
- Cases of stabilization or regression of the lesion after discontinuation of progestin treatment

Results

Median age : 48 (29-75) with 27% menopausal

88% undergoing hormonal therapy, 92% had progestins and 58% incriminated molecules

Preferred localization : **sphenoid (53,8%)** and frontal (30,7%) regions

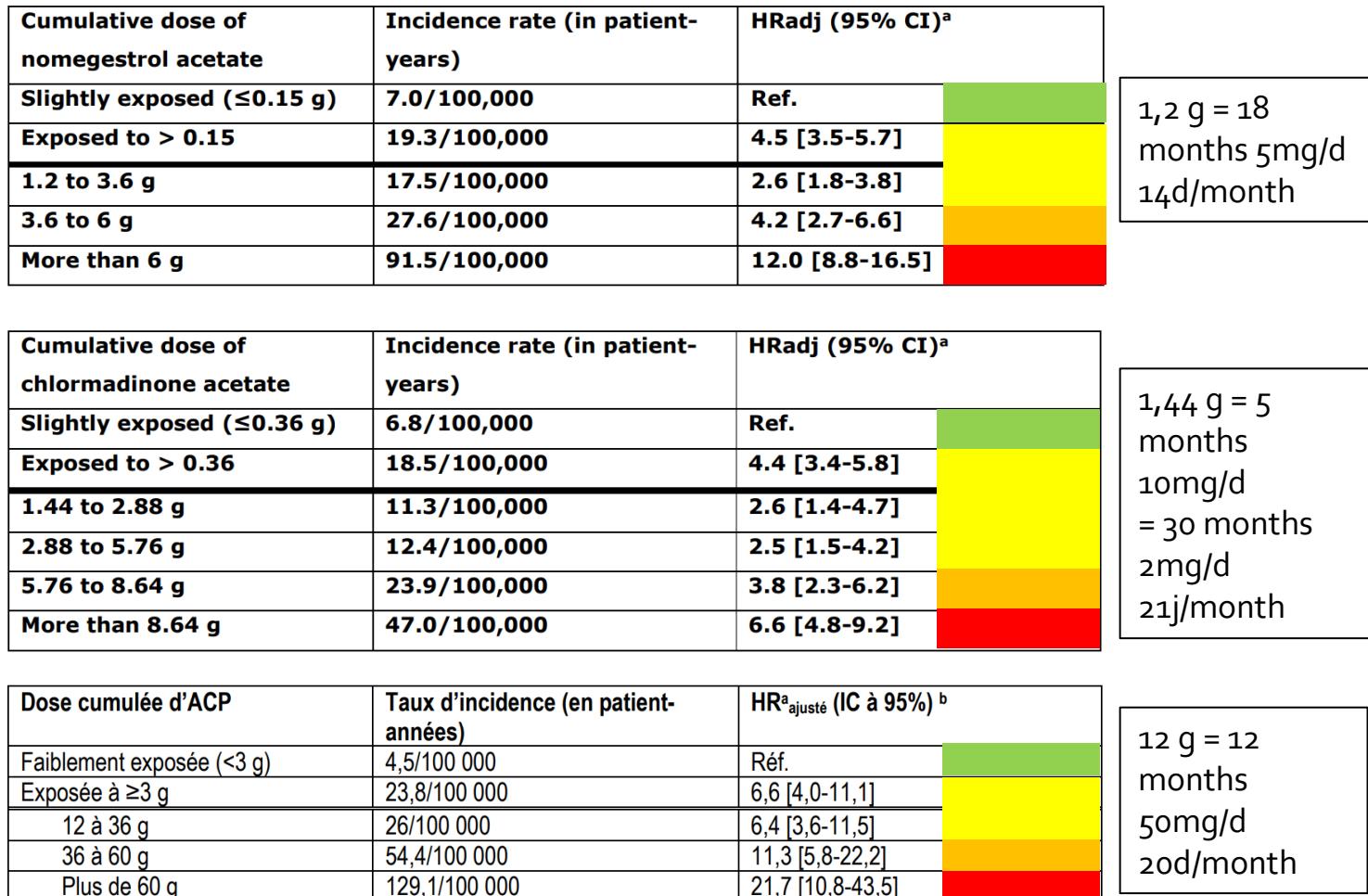
Histologically : **meningotheelial (78,5%)**, atypical (7,1%), both (7,1%), myxoid (7,1%)

WHO Grade : **grade I (85,7%)**, grade I and II (7,1%), II or III (7,1%)

Management : surgery +- radiotherapy (57,7%), radiotherapy only (3,8%), imaging follow-up only (38,5%)

Cumulative doses

N°	Type P	Molécule	Dose cumulée en g
1	Lutényl	Acétate de nomegestrol	0,46
2	Androcur	Acétate de cyprotérone	18,77
3	Lutényl	Acétate de nomegestrol	9,13
4	Lutényl	Acétate de nomegestrol	9,13
5	Mercilon	Désogestrel	1,64
6	Lutényl	Acétate de nomegestrol	7,3
7	/	/	/
8	Femoston low	Dydrogéstérone	9,13
9	Utrogestan	Progéstérone	365
10	Mirena	Lévonorgestrel	MIRENA
11	/	/	/
12	Lutényl	Acétate de nomegestrol	5,48
13	Mirena	Lévonorgestrel	MIRENA
14	Noranelle	Lévonorgestrel	0,88
15	Lutényl	Acétate de nomegestrol	34,22
16	Lutényl	Acétate de nomegestrol	5,48
17	Mirena	Lévonorgestrel	MIRENA
18	Mirena	Lévonorgestrel	MIRENA
19	Helen	Acétate de chlormadinone	8,21
20	Lutényl	Acétate de nomegestrol	22,8
21	Lutényl	Acétate de nomegestrol	2,7
22	Lutényl	Acétate de nomegestrol	54,8
23	Minulet + Lueva	Désogestrel + gestodène	0,57
24	COOP classique	Désogestrel	0,6
25	Utrogestan	Progéstérone	10,1
26	Zoely	Acétate de nomegestrol	9,4



ANSM 2020 : Restrictions d'utilisation de l'acétate de cyprotérone liées au risque de méningiome

EMA 2022 : Chlormadinone acetate and nomegestrol acetate: Measures to minimise the risk of meningioma

Conclusions

Risk-benefit balance of the treatment

If initiating treatment : use the **minimal effective dose** and **limit the duration of use**

Potential for **lesion regression or stabilization** after discontinuation of progestin
=> Avoiding surgical or radiotherapeutic interventions

Recently, medrogestone and medroxyprogesterone are incriminated too

Commission with AFMPS to report our cases

