

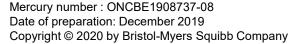
Workshop B3

Managing immune related adverse events: focus on endocrine system and skin

Convention room 2, Floor 1

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Disclaimer

► The case studies within are the speaker's own, BMS has not had any medical input into these

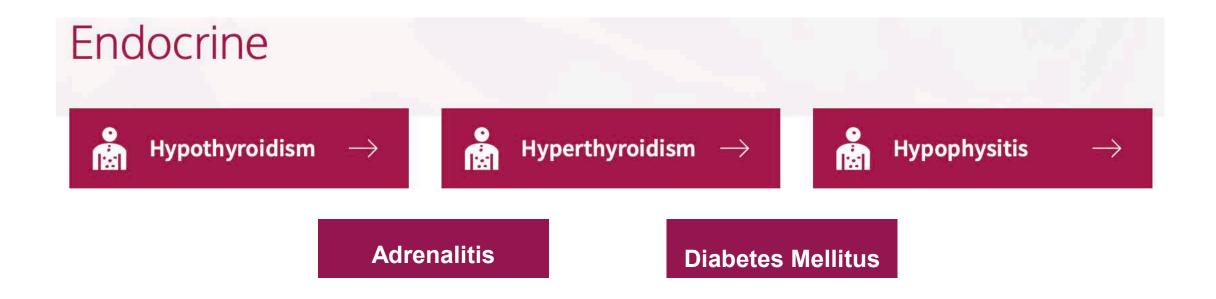




Endocrine immune related adverse events



Overview endocrine toxicities



The BSMO immunomanager website will be updated by February 2020



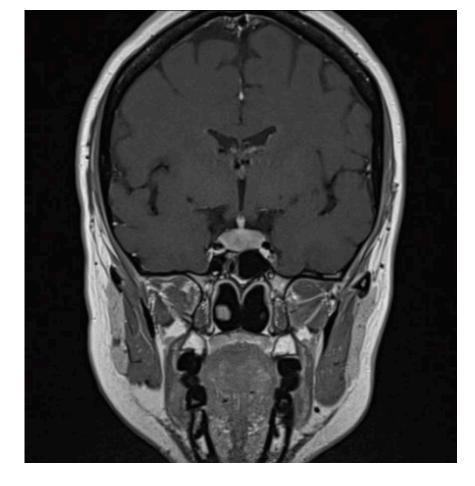
- ► 44y, woman, hypothyroidism
- ▶ Jan 2016: Melanoma right leg: T2N1M0: excision + lymphadenectomy right inguinal region
- ► Feb 2017: relaps right inguinal region: excision
- Nov 2017: new relaps right inguinal region: excision + start anti-PD1
- ► Aug 2017: PET scan shows relaps: 3 aorto lumbal Inn
- ► Sept 2017: start ipilimumab + RT

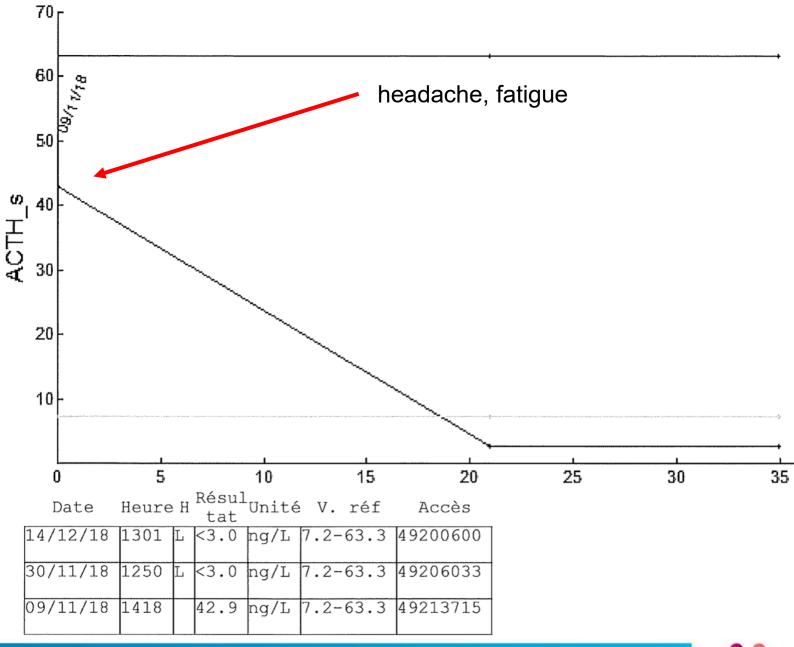


- ▶ 9 Nov 2018: fatigue, headache, TSH low, T4 is nI
- ► Differential diagnostics:
 - Sinusitis
 - Cerebral metastasis
 - Immune related hypophysitis
- Ionogram: normal; cortisol and ACTH normal
- ➤ → NSAID for headache and pause ipilimumab
- ▶ 16 nov 2018: MRI head: hypophysitis (ante-hypophysis 12mm)
- ➤ 30 nov 2018: low cortisol (33 nmol/L), low ACTH (<0,3ng/L)</p>



Brain MRI



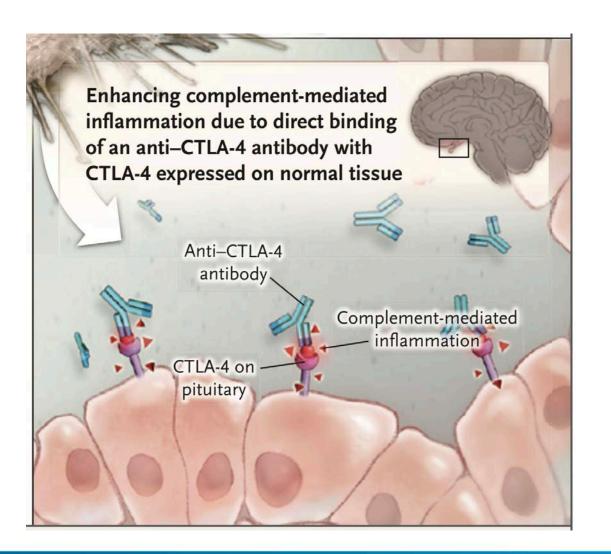


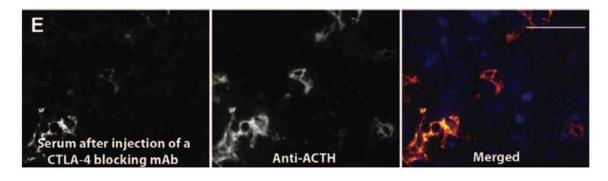


- ▶ Diagnosis hypophysitis:
 - Start hydrocortisone 20mg-10mg-10mg
 - Symptomatic: add NSAID and delay ipilimumab untill resolution of symptoms
 - Education: 3x daily hydrocortisone dosis in case of stress



Anti-CTLA4 and hypophysitis





ACTH secreting pituary cells express CTLA4



- ▶ 70y, men
- ▶ Jan 2014: Melanoma skull: T2N0M0: excision
- ▶ July 2018: relaps left cervical region: excision
- ► Sept 2018: start anti-PD1 adjuvant setting
- ▶ Jan 2018: fatigue, speech difficulties due to dry mouth
 - Biopsy of salivary glands: lymphocytic sialoadenitis



- ► April 2018: persistance fatigue
 - Blood test doesn't show abnormalities, TSH is normal
- ► Mai 2018: hospitalized due to extreme fatigue
 - Blood test:
 - low morning cortisol (26 nmol/L) and ACTH (5,8 ng/L):
 - ionogram: Na and K within nl range
 - TSH, T4: within nl range
 - → substitution with hydrocortisone
 - Cerebral MRI scan: no signs of hypophysitis



Anti-PD(L)1 and hypophysitis

- ► Silent, often slowly evolving disease
- ► Rarely complicated with headache
- ► Exclude for any unwell patient
- Psychological impact of hypophysitis can be major (research Dr A. Rogiers, Hopital Brugmann)
- ► Heterogenous presentation, MRI might be negative
- Cave fatigue when corticoids for other irAE are tapered



Not always corticoids required for irAE

► Endocrine toxicity:

- only replace hormones

▶ Hepatitis:

- not indicated unless signs of liver dysfunction (eg jaundice, PT drop)

► Colitis:

- early switch TNFablocker if corticoid resistant
- Future: fecal transplantation?

▶ Lipase increase:

- no treatment if no clinical signs of pancreatitis



Take home messages

- ► Hypophysitis: beware in patients with unexplained fatigue
- ► Endocrine toxicities don't require suspension of immunotherapy, neither corticoid therapy

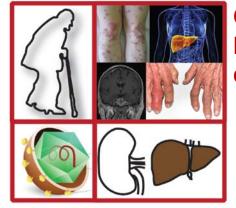


Future perspectives: how to handle irAE









Clinical Care
Path/Register for
dysimmunity patients



Prospective analysis of autoimmune serology







Immune-related AEs: dermatologic

Incidence/onset^{1,2,7,8}

- ~40% of patients treated with anti-PD-1
- Combined treatment increases both the incidence and severity of irAFs
- Early onset (3-4 weeks after treatment initiation)
- Can persist after treatment withdrawal (up to 1 y)

Common Manifestations^{1–3}

- Maculopapular rash and/or pruritus (trunk or extremities) ~13-21%
- Vitiligo ~8%*
- Dry mouth

* Linked to better tumour responses and outcomes in advanced stage melanoma

Rare manifestations 1,2,4,5

- Lichenoid dermatitis or psoriasiform
- Bullous reactions (Bullous pemphigoid)
- Dermatitis herpetiformis
- Stevens-Johnson syndrome
- Toxic epidermal necrolysis



Immune-related AEs: dermatologic

Grade 1

 Macules/papules covering <10% BSA; with or without symptoms (e.g. pruritus, burning, tightness)

Grade 2

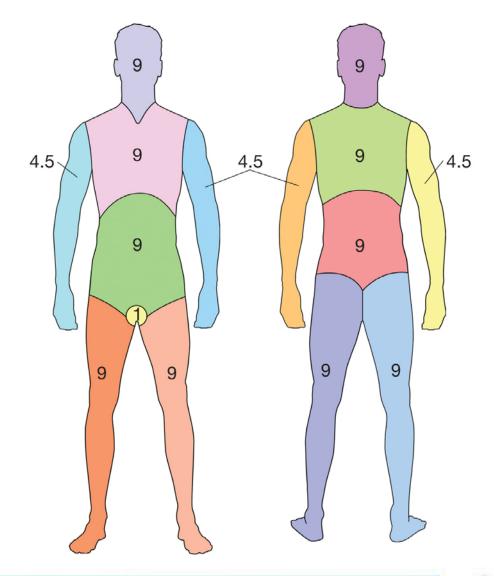
 Macules/papules covering 10%-30% BSA with or without symptoms (e.g. pruritus, burning, tightness); limiting instrumental activities of daily living, grade 1 persistence

Grade 3

 Macules/papules covering >30% BSA with or without symptoms (e.g. pruritus, burning, tightness); limiting selfcare activities of daily living

Grade 4-5 = Life-threatening reactions

 Blisters and exfoliative rash, fever, mucosal ulcerations, facial oedema, Nikolsky sign, etc.





Grade 1

 Macules/papules covering <10% BSA; with or without symptoms (e.g. pruritus, burning, tightness)

Grade 2

 Macules/papules covering 10%-30% BSA with or without symptoms (e.g. pruritus, burning, tightness); limiting instrumental ADL, grade 1 persistence

Grade 3

 Macules/papules covering >30% BSA with or without symptoms (e.g. pruritus, burning, tightness); limiting









Grade 4-5 = Life-threatening reactions

 Blisters and exfoliative rash, fever, mucosal ulcerations, facial oedema, Nikolsky sign, etc.



Take home message:

1st

Evaluate severity: BSA and limitation of the ADL

2nd

Therapeutic plan: symptomatic treatment + rediscuss immunotherapy according to grade

3rd

Always re-evaluate severity/grade: dynamic algorithm

4th

Delay immunotherapy if needed – Tackle quality of life



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