

Case Study: Immunotherapy in NSCLC



KREFTFORENINGEN

**Kreftforeningens nasjonale
kompetansemiljø for lungekreft**

- 60-70 patients with check point inhibitors
 - Clinical studies & Named patient use program
 - Many patients rapid progression
 - Many patients stabilised
 - Some patients good response
- Immediate response
- Delayed response
- Side effects

Case 1

- 45 years old woman
 - Taxi-driver
 - Children
- Diagnosed with lung cancer (adenocarcinoma)
Feb 2015
 - Metastases to adrenal gland, liver and bone
 - Lost 25 kg since diagnoses

- Primary treated with standard chemotherapy
 - Carboplatinum and navelbine
 - Progression during treatment
- Referred to radiotherapy of painful bone metastases
- Upon arrival, - much pain, ECOG 2
- Palliative unit involved

- Offered PD1-inhibitor in named patient use program late June 2015
- Started treatment nivolumab
- No side effects
- Gained weight
- Reduced pain killers

- Has now received 12 cycles
- Less pain
- Has started working again

Case 2

- 60 years old man
- Diagnosed with NSCLC (adenocarcinoma) summer 2014
- Primarily 3 cycles carboplatinum-avelbina
- Spring 2015: progression and started taxotere-treatment
- Progression June 2015
- Referred to us

- July: reduced performance status
- Had lost 20 kg
- No appetite
- Anemia

- Received one cycle nivolumab late July
- Thereafter reduced PS, ECOG 3, hospitalised
Further cycles canceled

- Late September: notice of significant improvement in PS
- CT-proven reduction in tumour volume
- Weight gain

Side effects

- Woman, 60 years old, squamous cell carcinoma
- Treated with carbo-navelbine, progression
- Included in 017-study, randomised to docetaxel, received >10 cycles
- Quit due to side effects
- Cross-over to nivolumab May 2015

- Leg cramps, dehydration, electrolytes
- Admitted hospital
 - Poor condition
 - Dehydrated
 - Blood analyses indicated adrenal failure
- Received prednisolon 5 mg -> improved condition

Conclusions

- Some patients benefit from treatment
 - Immediate
 - Delayed
- Generally well tolerated
 - Serious side effects occur