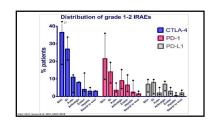


Helen Shih, NP, MPH
Thoracic Oncology

UCSF Helen Diller Comprehensive Cancer Center





NCI-CTCAE Guidelines for Grading Select Adverse Reactions 1- In allow to NCIGE guide in the purple of pur

Presentation and Management of Pneumonitis

Occurs with both CTLA4 inhibitor and PD-1 tore, higher rate of occurrence with anti-PD-1s ("PS)

Management

MAG.

Grab 1 May present without symptoms, no intervention needed. Hold if radiographic violence. May repast for 1 a 4-was in 1 and 1 a

Case Study

Items is a 31 yo made and has stage tills non-small cell lang cancer. He completed concurrent chemotherapy and nation (COMT) carboplates and stad once a week for as weekly and member assend Gourdenick in 10th yolds.

After 3 cycles, patient developed a cough.

It lists for see minutes and consist in the mornings.

Does not after any activation of daily long (ADCs).

Do you give the daily long (ADCs).

Dipprace on eartice (DDC) only when waiting up the stains. Difficulty with deep breaking.

No pain, fevere, chils.

Do you give the 4th cycle of Durvalumab?

Case Study May be mid beginnings of pneumonitis, but patient able to perform all ADL's still and symptoms are mid. Ok to treat today, a retardening encologist, but low threshold to hold treatment and obtain urgent scans if symptoms worzen. Patient to aware to contact dinc immediately i symptoms worzen. We proceeded with C4.

Case Study
September 18th, 2019

- Continues with loose cough and shortness of breath (SOB)
If significant exertion, still able to complete ADL's without difficulty.

- Inhales have not helped significantly,
What would be your next steps with Jerry with CS of durvalumab?

Case Study
Visit on October, 2nd 2019

*Held C5 due to ulnar surgery on 9/30/19. Plan was to resume on 10/30/19. Symptoms stable. Still able to perform ADL's.

*Wants to return to work.

Case Study

October 30th, 2019

CT CAP from 10/22/19: Evolving post-radiation changes with increased consolidation near treated nodule as well as other regions of organizing pneumonia consistent with radiation pneumonitis.

Doing well, no SOB, able to climb stairs. Cough has worsened, since a recent cold and has not improved.

Would you treat C6 of durvalumab?

Case Study

- November 11th, 2019
 Patient writes in, stating; cough has gotten worse to the point whe cannot sleep. Denies fevers or chills. Worse in the AM and at night.
- Coughing yellow and black mucus, with some redness, but after expectorating, wheezing in the chest will stop.
- Would you treat on scheduled infusion on November 14th, 2019?

Case Study

- NP ordered a chest Xray to ensure that this was not pneumonia:
- Results stated: Left basilar nodular consolidation and hilar opacity with fissural thickening, likely reflecting sequelae of radiation therapy to known lung cancer.
- We held the next 2 treatments, due to patient's sym

Case Study

Case Study

Case Study

- December 23rd, 2019 ian once or twice a day. If in
- Continue with daytime cold medicine during the day, gualfenesin AC at b May use liquid morphine sulfate if awakening with a cough in the night.

Case Study

December 24th, 2019

Case Study

- January 10th, 2020 Seen by Otolaryngology, head and neck surgery.
- difficulty swallowing liquids, and foods sticking in chest. Heartburn daily, voice quality changes.
- barium tablet was observed to briefly linger in the esophagus, arou the level of the aortic arch. Some retention of liquid and solid bariu was also observed in the mid to distal esophagus. Aspiration risk is moderate-high. Will refer to GI.

Case Study

- Though cough is r/t pneumonitis, other factors may be contributing: postnasal and asthma/COPD at last wisit. He recommended starting on budesonide / formoteroloctriniane, and famotidine. Durvalumab may also be contributing to
- The cavitary mass and fistulous tract may be due to radiation pneumonitis a Respiratory infection may be due to aspiration of necrotic material from the lesion. Patient's symptoms have improved.
- Recommend continuing prednisone, may consider decrease to 50 mg daily after 4 week Would continue moxificazcin. Await results of repeat chest CT, scheduled for 1/29/20.

Case Study

- To chest 1/29/20

 1. When compared to the 12/19/2019 earn, the left infrahlar cavitarymass with fistulous connection to the left mainstem bronchusis increased in size and associated with suspected invasion and fistulous connection to the mid exophagus.
- Obstruction of the left lower lobe airways is associated watelectasis of the left lower lobe, new from the prior exam.

Case Study

Visit with attending oncologist on 1/29/20

- Significant decline in the past month, swallowing worse, severe bacleain and weight loss. Cough continues.
 Continue with prednisone60 mg daily, admit patient for expedited workup.

Case Study

- EGD and Bronchoscopy on 2/3/20 inpatient.

 Admitted for a left lower lobe cardayr mass and tracheo/bronchoeophagea fistula. The differential diagnosis for this mass includes or PD 1 inhibits. However, ghen the foot a first the TD 2 inhibits. However, ghen the foot instrue, PD 1 stockty, series less likely. Favor infection vs progressive malignancy vs 38T toxicity.

 EGD and benochoscopy found ans invaliding the left mails bronchus, and cardy lined with purulent, mucodis secretions. The orifice to what appeared to be the left upper lobe alrawy was seen on the other end of the rawly. Finals to the expolyago could not be identiced. Git beam performed CGD, expolyagos it ame and loff places.

Summary

- Important to recognize side effects, usually an "itis"
- Treatment typically involves glucocorticoids for severe reactions, holding immune checkpoint inhibitor
- In steroid-refractory cases, may need to use infliximab or other immunosuppressants
 Consult heme/onc and subspecialty services where appropriate
 Understanding and managing immune related adverse events is taking on increasing