

**OLDER NON-SMALL CELL LUNG CANCER PATIENTS (>= 70 YEARS OF AGE) TREATED WITH FIRST-LINE MK-3475 (PEMBROLIZUMAB) +/- CHEMOTHERAPY (ONCOLOGIST'S/PATIENT'S CHOICE)**

**Eligibility Criteria (see [Section 3.2](#))**

- Histologic or cytologic diagnosis of non-small cell lung cancer (adenocarcinoma). Stage IV or recurrent metastatic non-small cell lung cancer. (See [§3.2.1](#).)
- Planning to begin MK-3475 (pembrolizumab) treatment within 14 days of registration, with or without combination chemotherapy. (See [§3.2.2](#)) Patients with autoimmune disorder, post-organ transplantation, or are receiving ongoing immunosuppression treatment are ineligible (See [§3.2.3](#)).
- Prior adjuvant therapy is allowed and must have been completed at least 6 months prior to registration. (See [§3.2.4](#))
- No planned radiation or other cancer treatment in the 3 months following registration (See [§3.2.5](#))
- No untreated brain metastases. Patients must be off corticosteroids and asymptomatic at registration. (See [§3.2.6](#))
- Age ≥70 years of age. (See [§3.2.7](#))
- Language: Patients must be able to read and comprehend English (See [§3.2.9](#))

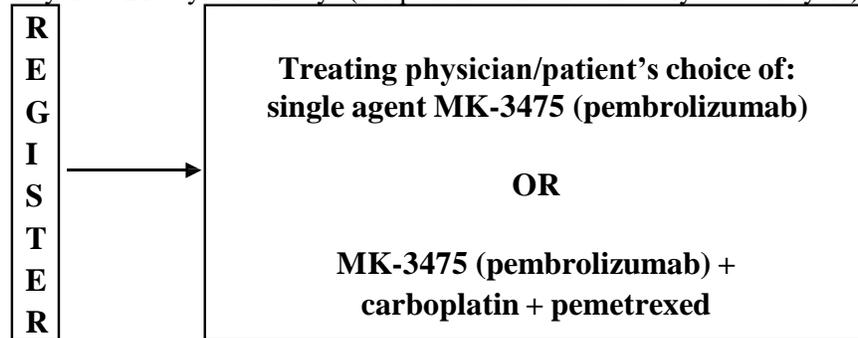
**Required Initial Laboratory Values (See [§ 3.2.8](#))**

ANC	≥ 1500/mm <sup>3</sup> (1.5 x 10 <sup>9</sup> /L)
Platelet count:	≥ 100,000/mm <sup>3</sup> (100x 10 <sup>9</sup> /L)
Creatinine:	≥ 30 ml/min* for patients enrolled to pembrolizumab alone and > 45 ml/min for patients enrolled to chemotherapy + pembrolizumab
Total serum bilirubin	≤ 1.5 ULN (< 3 ULN if Gilbert's disease)
AST and/or ALT	≤ 3 x ULN (≤ 5.0 x ULN if liver metastases present)
Alkaline phosphatase	≤ 2.5 x ULN (≤ 5 x ULN if bone or liver metastases present)

\*Calculated using the Cockcroft-Gault formula

**Schema**

1 cycle = 21 days or 42 days (for patients who are on every 6 week cycle)



Pembrolizumab treatment is to continue until disease progression (treating physician's discretion) or unacceptable adverse event. Patients will be followed for survival for 5 years after registration or until death, whichever comes first.

**Please refer to the full protocol text for a complete description of the eligibility criteria and treatment plan.**

Site staff who intend to administer the comprehensive geriatric assessment must complete the geriatric assessment training. (See [Section 15.0](#))

If the Group credited for enrollment is a non-Alliance Group, then other requirements from the credited Group may apply.

### 3.2 Eligibility Criteria

Use the spaces provided to confirm a patient's eligibility by indicating Yes or No as appropriate. It is not required to complete or submit the following pages.

When calculating days of tests and measurements, the day a test or measurement is done is considered Day 0. Therefore, if a test were done on a Monday, the Monday one week later would be considered Day 7.

\_\_\_ **3.2.1 Documentation of Disease: Histologic or cytologic diagnosis of non-small cell lung cancer (adenocarcinoma). Stage IV or recurrent metastatic non-small cell lung cancer.** No planned initiation of definitive (potentially curative) concurrent chemo-radiation.

\_\_\_ **3.2.2 Planning to begin MK-3475 (pembrolizumab) treatment within 14 days of registration, with or without combination chemotherapy.**

Treating physician considers pembrolizumab as appropriate and plans to proceed with one of the following treatment schedules:

(a) MK-3475 (pembrolizumab) 200 mg IV flat dose every 21 days.

(b) MK-3475 (pembrolizumab) 200 mg IV + carboplatin AUC=5 + pemetrexed 500 mg/m<sup>2</sup> (20% chemotherapy dose reduction is permitted per the discretion of the treating physician).

\_\_\_ **3.2.3 Patients will be ineligible if they have an autoimmune disorder, are post-organ transplantation, or are receiving ongoing immunosuppression treatment.**

\_\_\_ **3.2.4 Prior adjuvant therapy is allowed and must have been completed at least 6 months prior to registration.**

\_\_\_ **3.2.5 No planned radiation or other cancer treatment in the 3 months following registration.**

\_\_\_ **3.2.6 No untreated brain metastases. Patients must be off corticosteroids and asymptomatic at registration.**

\_\_\_ **3.2.7 Age  $\geq$  70 years of age. (See next page, for additional eligibility criteria.)**

\_\_\_ **3.2.8 Required Initial Laboratory Values:**

Absolute neutrophil count  $\geq 1500/\text{mm}^3$  ( $1.5 \times 10^9/\text{L}$ )  
(ANC)

Platelet count:  $\geq 100,000/\text{mm}^3$  ( $100 \times 10^9/\text{L}$ )

Creatinine:  $\geq 30$  ml/min\* for patients enrolled to pembrolizumab alone and  $> 45$  ml/min for patients enrolled to chemotherapy + pembrolizumab

Total serum bilirubin  $\leq 1.5$  ULN ( $< 3$  ULN if Gilbert's disease)

AST and/or ALT  $\leq 3 \times$  ULN ( $\leq 5.0 \times$  ULN if liver metastases present)

Alkaline phosphatase  $\leq 2.5 \times$  ULN ( $\leq 5 \times$  ULN if bone or liver metastases present)

\* Calculated using the Cockcroft-Gault formula

\_\_\_ **3.2.9 Language: Patients must be able to speak and comprehend English** in order to complete the mandatory patient-completed measures.