



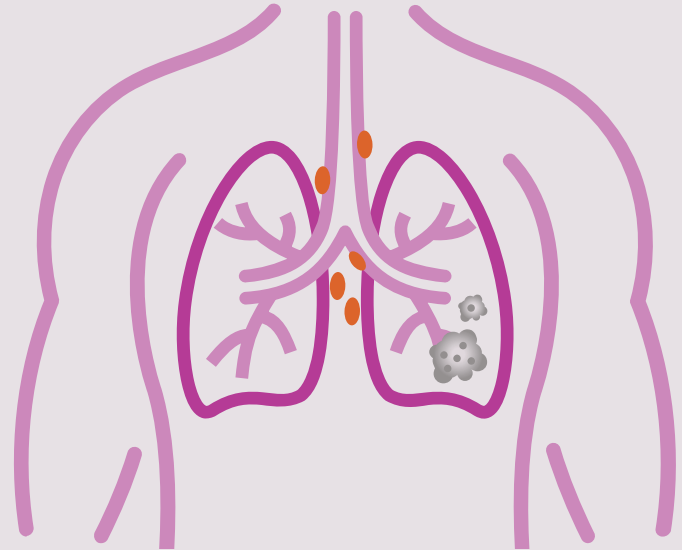


CheckMate 816 study: nivolumab plus chemotherapy given before surgery for non-small cell lung cancer

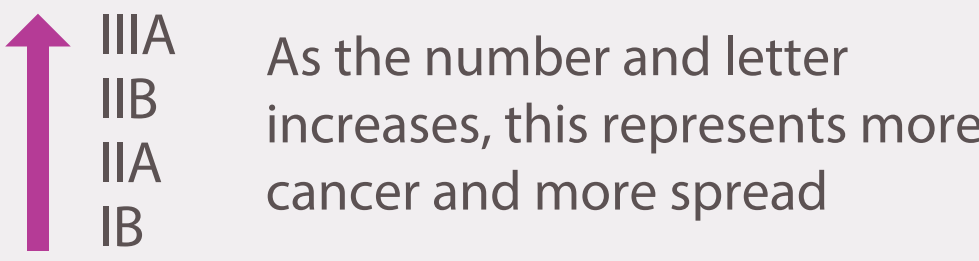
Why is this study important?

-  Some people with non-small cell lung cancer (NSCLC) have tumors that can be removed surgically. However, the cancer often comes back, ultimately leading to death
-  Taking chemotherapy (chemo) before or after surgery can reduce the risk of cancer returning and help people live longer after surgery. However, this only works in some people
-  Nivolumab (NIVO) is an immunotherapy; it works by helping a person's immune system attack cancer cells
-  The goal of the CheckMate 816 study was to find out if NIVO plus chemo works better than chemo alone when taken before surgery for NSCLC

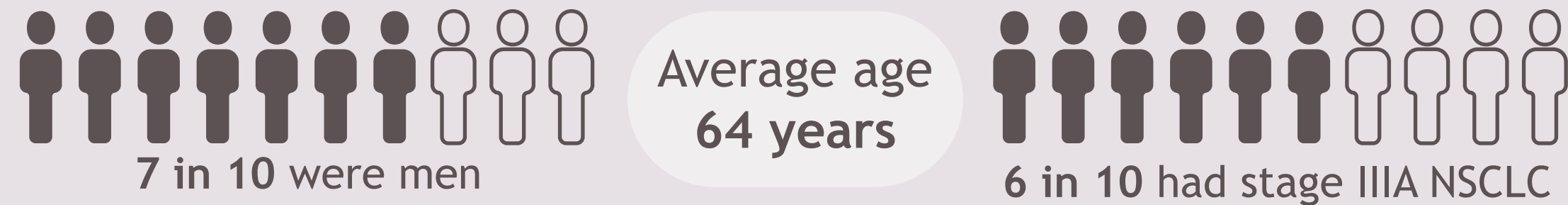
Who took part in this study?



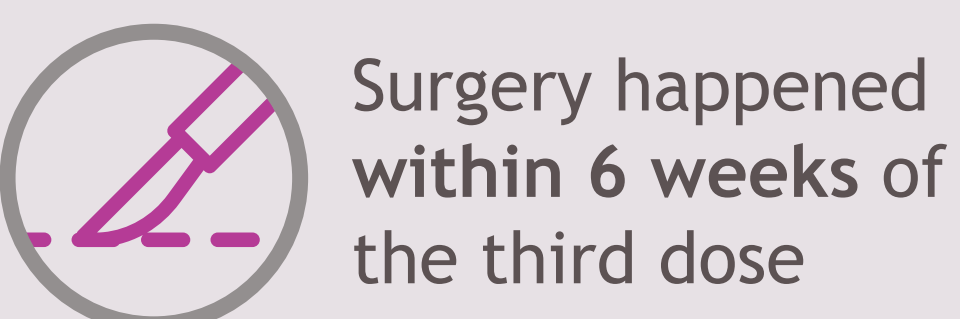
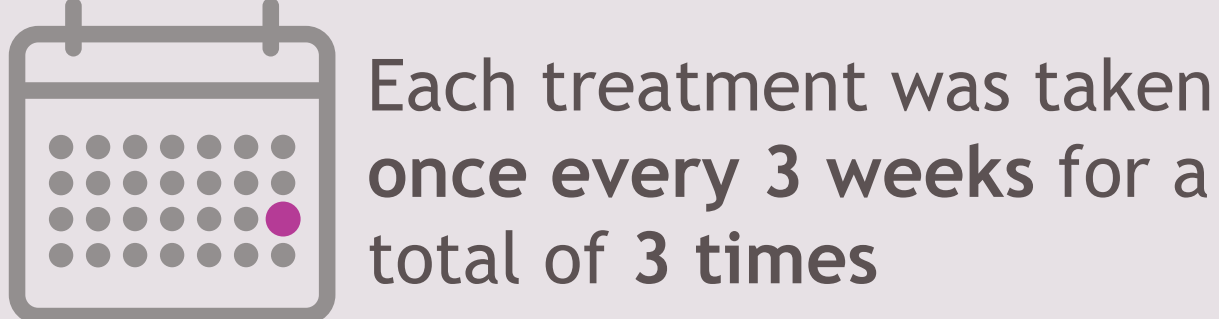
This study included people with stages IB, IIA, IIB, and IIIA NSCLC



All had tumors in the lungs (and in some cases the nearby lymph nodes) that could be removed with surgery (4 centimeters or larger)



What treatments were used?



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What did the researchers look at?

PRIMARY ASSESSMENTS

Event-free survival (EFS)
How long did each person live without the cancer coming back?

Pathological complete response (pCR)
After surgery, were there any cancer cells remaining in the tissue samples from the lungs and lymph nodes?

ADDITIONAL ASSESSMENTS

Overall survival
How long did each person live after starting treatment?

What side effects did people have?

What were the main results?

Most people went on to have surgery in both the NIVO plus chemo and chemo groups



More people who took NIVO plus chemo had no remaining cancer cells in tissue samples from the lungs and lymph nodes after surgery (pCR) compared with those who took chemo alone



People who took NIVO plus chemo lived longer without the cancer coming back (EFS)

People who were alive at 2 years without the cancer coming back



Median event-free survival



People with stage IIIA NSCLC had the greatest benefit from NIVO plus chemo

Men and women had similar results

People who took NIVO plus chemo and had a pCR after surgery lived longer without the cancer coming back

Overall, more people who took NIVO plus chemo were alive 2 years after starting treatment compared with those who took chemo alone



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What were the side effects?



Most side effects from treatment were **mild or moderate**



About 1 in 10 people in each group had a serious side effect from treatment



Some people had typical side effects from surgery, mostly **mild or moderate**

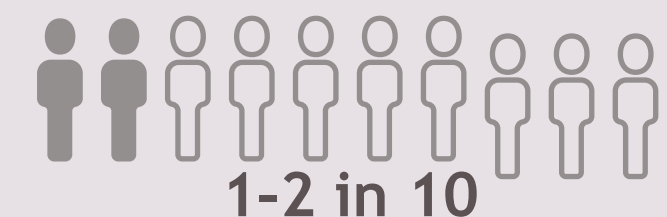
Few people had severe or life-threatening side effects from surgery

A serious side effect is one that is life-threatening, requires going to the hospital, or results in death

NIVO plus chemo



Chemo



What do these findings mean?

In CheckMate 816, people who took NIVO plus chemo instead of chemo alone before their surgery:



Lived longer without the cancer coming back



Lived longer overall



Were more likely to have lungs and lymph nodes clear of cancer cells



Did not have more side effects



NIVO plus chemo is now approved in the United States as a treatment for adults with NSCLC whose tumors are 4 centimeters or larger or have cancer cells inside nearby lymph nodes