

SCREENING RECOMMENDATION

Former Smoker
Not Recommended

SMOKING HISTORY

Status: **Quit Less than 1 Year**

Tobacco Use: **19 Pack-Year(s)**

OTHER RISK FACTORS

2 Increased Risk

4 Average Risk

1 Unknown Risk

Based on your smoking history, annual lung cancer screening is not recommended.

For you, the risks and limitations of a low-dose CT scan may outweigh the benefits.

- Good job quitting smoking! Your screening recommendation is based on your current smoking history. If that changes, your recommendation may change too.
- Your smoking history increases your lung cancer risk. You have other lung cancer risk factors that may also increase your risk. Do what you can to avoid future environmental/workplace exposures.

Who's at Risk for Lung Cancer?

Tobacco smoking is the #1 risk factor for lung cancer. It accounts for 80% of lung cancer deaths.

However, people who don't smoke can get lung cancer too. The table to the right lists other risk factors for lung cancer.

Among smokers, having other risk factors may make the chance of developing lung cancer even higher

The Benefits of Not Smoking

Avoiding smoking lowers the chance of having lung cancer. For people who already have lung cancer, quitting can help lower the risk of having a second cancer.

People who are having trouble kicking the habit should talk to a health care professional. Programs and services to quit smoking can help. Medication and other treatments are also available.

| Other Lung Cancer Risk Factors | Your Risk Level |
|--|-----------------------|
| Personal history of smoking-related cancer | <i>Average Risk</i> |
| Family history of smoking-related cancer | <i>Unknown Risk</i> |
| Chronic obstructive pulmonary disease (COPD) | <i>Average Risk</i> |
| Pulmonary fibrosis | <i>Average Risk</i> |
| Radiation therapy to the chest | <i>Increased Risk</i> |
| Environmental exposure | <i>Increased Risk</i> |
| Workplace exposure | <i>Average Risk</i> |

Results

Screening for Lung Cancer

Screening for lung cancer with a test known as a low-dose CT scan can reduce the risk of dying from lung cancer.

But lung cancer screening isn't right for everyone. Having a low-dose CT scan carries important health risks. In some cases, those risks can outweigh the benefits.

Finding cancer before it has spread to other parts of the body makes it easier to treat. The early stages of lung cancer often have no symptoms. That's why screening is so important. A low-dose CT scan can find lung cancer early.

Your screening recommendation is based on the U.S. Preventive Services Task Force Recommendation Statement and other widely accepted guidelines and research.

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Not Recommended

Smoking as a Risk Factor

Smoking increases the risk of several types of cancer, including lung, throat, esophagus, kidney, pancreas, bladder, and cervix.

Lung cancer kills more people than colorectal cancer, breast cancer, and prostate cancer combined.

What Is a Pack-Year?

Tobacco use is measured in "pack-years." The type of tobacco, amount smoked, and number of years smoked are used to calculate this number.

One pack-year is equal to 20 cigarettes per day for one year, 2 packs per day for half a year, and so on.

SMOKING HISTORY

Status: **Quit Less than 1 Year**

Tobacco Use: **19 Pack-Year(s)**

| Your Smoking History | Pack-Year Equivalent |
|--|------------------------|
| Cigarettes 20 per day for 25 years | 18 Pack-Year(s) |
| Cigarettes 10 per day for 8 years | 1 Pack-Year(s) |
| | |
| | |
| | |

Total: 19 Pack-Years

Other Lung Cancer Risk Factors

Smoking-related cancers include cancer of the lung, throat, esophagus, kidney, pancreas, bladder, or cervix.

The risk for lung cancer is higher in people who've had other cancers related to smoking.

PERSONAL HISTORY OF SMOKING-RELATED CANCER

No smoking-related cancer
Average Risk

It's important to know your family history of smoking-related cancer.

Having a parent, child, brother, or sister with a smoking-related cancer increases the risk of lung cancer.

FAMILY HISTORY OF SMOKING-RELATED CANCER

Unknown family history
Unknown Risk

The risk for lung cancer goes up with radiation therapy to the chest. This is especially true for smokers.

RADIATION THERAPY TO THE CHEST

History of radiation therapy
Increased Risk

Regardless of smoking history, people with chronic obstructive pulmonary disease (COPD) have an increased risk of developing lung cancer.

COPD

No COPD
Average Risk

Pulmonary fibrosis is linked to lung cancer. Pulmonary fibrosis causes scarring of lung tissue. This scarring makes it hard to breathe.

PULMONARY FIBROSIS

No pulmonary fibrosis
Average Risk

Other Lung Cancer Risk Factors

Environmental Exposure

Long-term exposure to smoke, air pollution, radon, or asbestos makes the risk of developing lung cancer go up.

- Second-hand smoke can cause lung cancer in people who don't smoke. The more exposure, the higher the risk. Someone who has lived with a smoker for five years or more is considered a passive smoker.
- Radon is the leading cause of lung cancer in non-smokers.
- Asbestos exposure makes people more likely to die of lung cancer, especially if they smoke.
- Up to 5% of all lung cancer deaths may be caused by air pollution.

Workplace Exposure

Working around certain materials can increase the chance of having lung cancer. These include:

- Dusts (for example: sawdust, metal dust, concrete dust)
- Inhaled chemicals and minerals (such as breathable forms of arsenic, silica, nickel, coal products, etc.)
- Substances found in industrial workplaces (materials related to paving, roofing, chimney sweeping, etc.)

RISK FROM EXPOSURE

Environmental:
Increased Risk

Workplace:
Average Risk

Your Environmental Exposure

| | |
|-------------------|-----|
| Second-hand smoke | Yes |
| Radon | No |
| Asbestos | No |
| Air pollution | Yes |

Your Workplace Exposure

| | |
|---------------------------------|----|
| Dusts | No |
| Inhaled chemicals/minerals | No |
| Industrial workplace substances | No |

NOTICE: Health assessments are based on averages from studies of large groups of people.

Your situation may be different. It is important to discuss your personal situation with your health care provider. This assessment is not intended to replace medical advice from your health care provider, but rather help you set health goals and make healthy lifestyle decisions.

DISCLAIMER

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Name: _____ mm-dd-yyyy

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Mt. General Memorial Clinic

5431 Lake Drive, Minneapolis MN 55401
1-877-555-0000

OUR HOSPITALS

Mt. General Memorial Hospital
2928 Fifth Ave. SW, Edina, MN 53802
(555) 555-1100

Mt. General Memorial Regional Medical Center

982 West Poplar Drive, St. Paul, MN 50013
(555) 555-2100

Mt. General Memorial Community Hospital

4110 South Virago Parkway, Rush City, MN 59545
(555) 555-3100

Mt. General Memorial North Franklinburg Hospital

890 SE 57th St., Franklinburg, MN 56782
(555) 555-4100

Mt. General Memorial Lakeport Hospital

524 SW Monarch St., Lakeport, MN 57653
(555) 555-5100

**SCREENING
RECOMMENDATION**
screening

recommended

Screening May Be
Recommended

not_recommended_smoker

Not Currently
Recommended

not_recommended_young

Discuss Screening Options
at Age 55

discuss

Discuss Screening Options
With a Doctor

not_recommended_quit

Former Smoker

Not Recommended

not_recommended_old

Not Recommended
Due to Age

not_recommended_never

Never Smoked

Not Recommended

SMOKING HISTORY

TOP BADGE: smokerRisk

Status: Current Smoker high_current

Status: Quit Less than 1 Year increased_quit_recent

Status: Quit [##] Year(s) Ago increased_quit_1to14

Status: Quit [##] Years Ago low_quit_over14

Status: Never Smoked low_never

BOTTOM BADGE: tobaccoUse

Tobacco Use: [XX] Pack-Years heavy

Tobacco Use: [XX] Pack-Year(s) moderate

Tobacco Use: 0 Pack-Years none

XX = ['packYears' integer]

OTHER RISK FACTORS

Risk Factor Count/Status:

Increased Risk

increasedRiskCount

Average Risk

averageRiskCount

Unknown Risk

unknownRiskCount

Result Messaging
Please check Lucidchart for longest version

reportMainMessage, Bullet 1, Bullet 2

See LUCIDCHART --> Lung Cancer Messaging -->

<https://www.lucidchart.com/documents/edit/8efe3d1e-373f-421f-b0d0-af1e1ce0ac35/0>

PARTS REPORT PAGE 1

| Other Lung Cancer Risk Factors | Your Risk Level | |
|--|-----------------|--|
| Personal history of smoking-related cancer | Average Risk | historyRisk Average Risk Increased Risk |
| Family history of smoking-related cancer | Unknown Risk | familyHistoryRisk Average Risk Increased Risk Unknown Risk |
| Chronic obstructive pulmonary disease (COPD) | Average Risk | copdRisk Average Risk Increased Risk |
| Pulmonary fibrosis | Average Risk | pulmonaryFibrosisRisk Average Risk Increased Risk |
| Radiation therapy to the chest | Increased Risk | radiationTherapyRisk Average Risk Increased Risk |
| Environmental exposure | Average Risk | environmentRisk Average Risk Increased Risk |
| Workplace exposure | Average Risk | workplaceRisk Average Risk Increased Risk |

smoker != never

| Your Smoking History | Pack-Year Equivalent |
|--|----------------------------------|
| Tobacco type XX per {timeframe} for YY years | {history1_*} Pack-Year(s) |
| Tobacco type XX per {timeframe} for YY years | {history2_*} Pack-Year(s) |
| Tobacco type XX per {timeframe} for YY years | {history3_*} Pack-Year(s) |
| Tobacco type XX per {timeframe} for YY years | {history4_*} Pack-Year(s) |
| Tobacco type XX per {timeframe} for YY years | {history5_*} Pack-Year(s) |

history1_*

history2_*

history3_*

history4_*

history5_*

Tobacco type = history*_type
XX = history*_amount
{timeframe} = 'day' or 'week' depending on history*_type
YY = history*_years
{history#_*} Pack-Year(s) = pack-years per tobacco type

Note to development: The full table will be present on all reports regardless of how many smoking histories are entered, but text will ONLY appear for those histories entered. For example, if user enters two smoking histories, rows 1 & 2 will be populated with the corresponding data, and rows 3-5 will remain blank. See example on report page 2.

Total: ## Pack-Years
Sum of history1_* through history5_* pack-years

smoker = never

| Your Smoking History | Pack-Year Equivalent |
|-----------------------------|----------------------|
| No smoking history reported | 0 Pack-Years |

Total: 0 Pack-Years

RISK FROM EXPOSURE

TOP BADGE: environmentRisk

Environmental:
Increased Risk

increased

Environmental:
Average Risk

average

BOTTOM BADGE: workplaceRisk

Workplace:
Increased Risk

increased

Workplace:
Average Risk

average

| Your Environmental Exposure | | |
|---------------------------------|-----|---|
| Second-hand smoke | Yes | If lungHistory_secondHand = true, then show Yes; else No |
| Radon | No | If environmentExposure_radon = true, then show Yes; else No |
| Asbestos | No | If environmentExposure_asbestos = true, then show Yes; else No |
| Air pollution | Yes | If environmentExposure_pollution = true, then show Yes; else No |
| Your Workplace Exposure | | |
| Dusts | Yes | If workExposure_dusts = true, then show Yes; else No |
| Inhaled chemicals/minerals | No | If workExposure_chemicals = true, then show Yes; else No |
| Industrial workplace substances | No | If workExposure_industrial = true, then show Yes; else No |

FAMILY HISTORY OF SMOKING-RELATED CANCER

familyHistoryRisk

No reported history of cancer in family

Average Risk

average

Known history of cancer in family

Increased Risk

increased

Unknown family history

Unknown Risk

unknown

PERSONAL HISTORY OF SMOKING-RELATED CANCER

otherCancerRisk

No smoking-related cancer

Average Risk

average

History of smoking-related cancer

Increased Risk

increased

COPD

copdRisk

No COPD

Average Risk

average

History of COPD

Increased Risk

increased

PULMONARY FIBROSIS

pulmonaryFibrosisRisk

No pulmonary fibrosis

Average Risk

average

History of pulmonary fibrosis

Increased Risk

increased

RADIATION THERAPY TO THE CHEST

radiationTherapyRisk

No radiation therapy
Average Risk

average

History of radiation therapy
Increased Risk

increased

Risk Palette

