

CHEMOTHERAPY SCLC

Limited Stage – Curative Intent

• Dual platinum therapy every 21 days x 4 cycles

Extensive Stage -

- Dual platinum therapy and immunotherapy ever 21 days x 4-6 cycles followed by maintenance immunotherapy every 28 days.
- Recurrence > 6 months after initial treatment --> retrial of previous chemotherapy, clinical trial or different chemotherapy/targeted therapy.
- Recurrence < 6 months --> clinical trial, different chemotherapy or targeted therapy.

Common chemotherapy agents: cisplatin, carboplatin, etoposide, irinotecan Immunotherapy agents: atezolizumab (Tecentriq), durvalumab (Imfinzi)

Allina Health %

15

15

CHEMOTHERAPY NSCLC

Neoadjuvant

• Dual platinum therapy every 21-28 days x 4 cycles +/- immunotherapy

Adjuvant

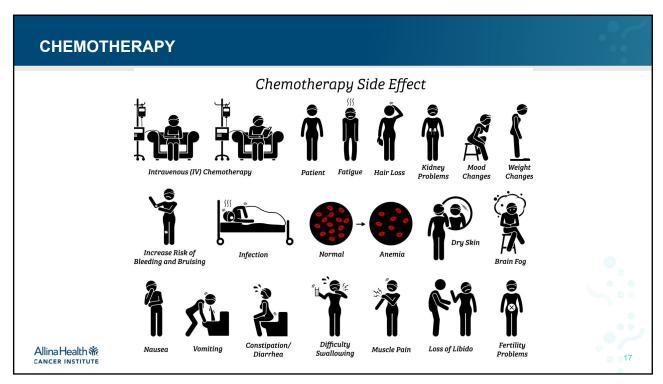
- Dual platinum therapy and immunotherapy ever 21 days x 4-6 cycles +/- maintenance immunotherapy every 28 days.
- · Targeted therapies based on mutational status
- Recurrence > 6 months after initial treatment --> retrial of previous chemotherapy, clinical trial or different chemotherapy/targeted therapy.
- Recurrence < 6 months --> clinical trial, different chemotherapy or targeted therapy.

Common chemotherapy agents: cisplatin, carboplatin, etoposide, irinotecan Immunotherapy agents: atezolizumab (Tecentriq), durvalumab (Imfinzi)

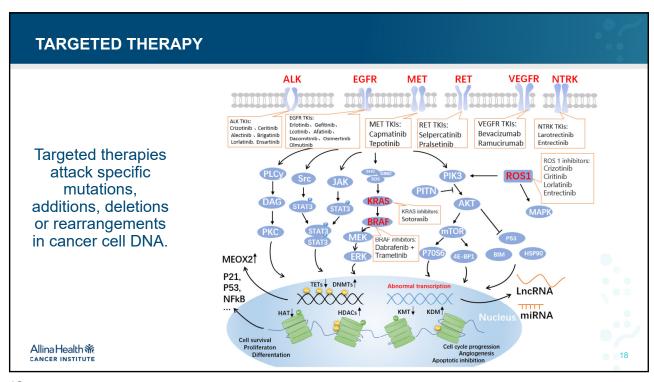


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TARGETED THERAPY: ALLINA NGS LUNG PANEL FOR NSCLC

- Epidermal growth factor receptor (EGFR) 10-15% cases
- MET exon 14 skipping or amplification 5% cases
- Anaplastic lymphoma kinase (ALK) gene rearrangement 4% cases
- ROS1 fusion or rearrangement 1-2% cases
- RET rearrangement 1-2% cases

These mutations associated with

- younger than average lung cancer patient
- primarily adenocarcinoma
- minimal to no smoking history

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TARGETED THERAPY: ALLINA NGS LUNG PANEL

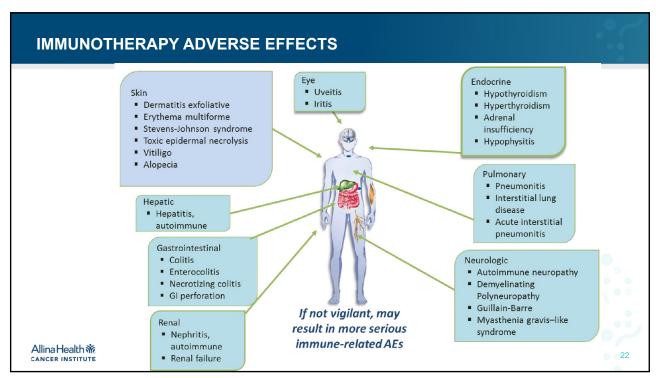
- RAS gene mutations
 KRAS G12C mutation 10-13% cases
 - HRAS & NRAS < 1% cases
 - Adenocarcinoma and SqCCa
- BRAF V600F mutation 1-2% cases
 - Smoking history common
 - Adenocarcinoma
- ERBB2 / HER2 mutation 2% cases
 - Little to no smoking history
 - Adenocarcinoma
- NTRK1/2/3 <1% cases

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20

IMMUNOTHERAPY PD-L1 binds to PD-1 and inhibits T cell killing of tumor cell Blocking PD-L1 or PD-1 allows T cell killing of tumor cell **Immunotherapy** Tumor cell death utilizes the immune Tumor cell system to kill cancer cells. PD-L1 **Example:** Antigen Anti-PD-L1 Checkpoint Anti-PD-1 **Inhibitors** Allina Health % CANCER INSTITUTE

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SURVEILLANCE SMALL CELL LUNG CANCER

Limited Stage: Follow up with medical oncology every 3 months for first 1-2 years; then every 6 months for year 3; then annually.

Extensive Stage: Follow up with medical oncology every 2 months for first year; then every 3 months for years 2 and 3; then every 6 months for years 4 and 5; then annually. Surveillance CTs every 2-6 months depending on stage and clinical indications. CTs more frequently in years 1 and 2 and less so in subsequent years.

Imaging:

Surveillance CT Chest (abdomen / pelvis) every 2 – 6 months depending on stage and clinical indications. CTs more frequently in years 1 and 2 and less so in subsequent years.

MRI Brain or CT head every 3 – 4 months during year one and then every 6 months duration at provider discretion; then as clinically indicated.

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23

SURVEILLANCE NON SMALL CELL LUNG CANCER

Stage I–II (primary treatment included surgery ± chemotherapy)

 H&P and chest CT ± contrast every 6 mo for 2–3 y, then H&P and a low-dose non– contrast-enhanced chest CT annually

Stage I–II (primary treatment included RT) or stage III or stage IV (oligometastatic with all sites treated with definitive intent)

- H&P and chest CT ± contrast every 3–6 mo for 3 y;
- then H&P and chest CT ± contrast every 6 mo for 2 y;
- then H&P and a low-dose non-contrast-enhanced chest CT annually
- · Residual or new radiographic abnormalities may require more frequent imaging
- · Smoking cessation advice, counseling, and pharmacotherapy
- · PET/CT or brain MRI is not routinely indicated



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REFERENCES

- National Cancer Institute (NIH): "Non-Small Cell Lung Cancer v1.2014"
- National Comprehensive Cancer Network (NCCN): "Non-Small Cell Lung Cancer v 3.2023"
- National Comprehensive Cancer Network (NCCN); "Management of Immunotherapy- Related Toxicities"
- National Comprehensive Cancer Network (NCCN); "Survivorship"



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25

