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Inevitable that the pandemic will have substantial impact on long term cancer outcomes, treatment, and cost



## Less toxic / invasive therapies

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#### Leukemia / Hematologic cancers

- Less toxic but effective therapies for newly diagnosed, elderly / unfit acute myeloid leukemia
- Autologous Chimeric Antigen Receptor T-cell (CAR-T) immunotherapy provides durable responses in relapsed or refractory hematologic cancers

## GI cancers

 Increased use of laparoscopic and robotic techniques for tumor removal with equivalent outcomes





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#### Breast cancer

- Increased use of neoadjuvant chemotherapy to allow down-staging
- Decreased use of axillary dissection for microscopic tumor burden
- Hypofractionation techniques for breast cancer

## Melanoma / soft tissue cancers

- Observation of the nodal basin for stage III disease
- Observation of desmoid fibromatosis

# Less toxic / invasive therapies

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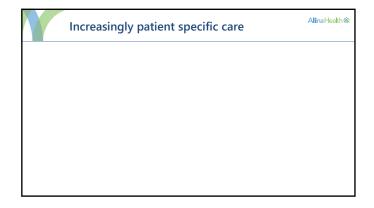
### Metastatic disease

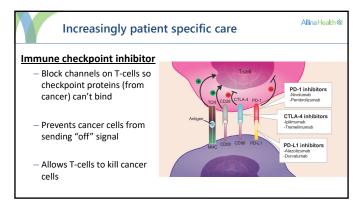
- Stereotactic radiosurgery for metastatic brain lesions (over whole brain radiation) gives same survival rates but improved quality of life
- Stereotactic body radiation for oligometastatic disease may improve overall survival

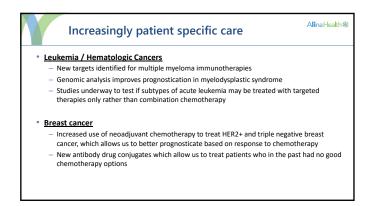
# Less toxic / invasive therapies

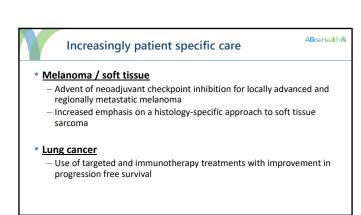
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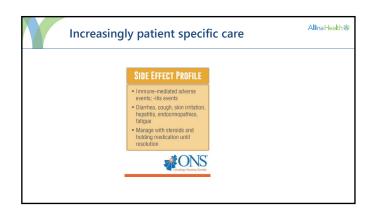
Advances in surgical technique, radiation therapy, and therapeutic agents is allowing for less invasive, less debilitating treatments with equivalent or improved survival.











Genomic and biomarker driven cancer care and targeted therapies allow for less use of toxic, traditional chemotherapy with prolonged survival rates and better overall outcomes for patients.

