

Cases/Local Clinical Trials

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Disclosures

- Consulting Fees: AstraZeneca, BluePrint Medicines, Daiichi Sankyo
- Contracted Research: Merck, BMS, Takeda, Helsinn, Jounce Therapeutics, Pfizer, Daiichi Sankyo, Mirati Therapeutics
- I will be discussing non-FDA approved indications during my presentation.

Case #1

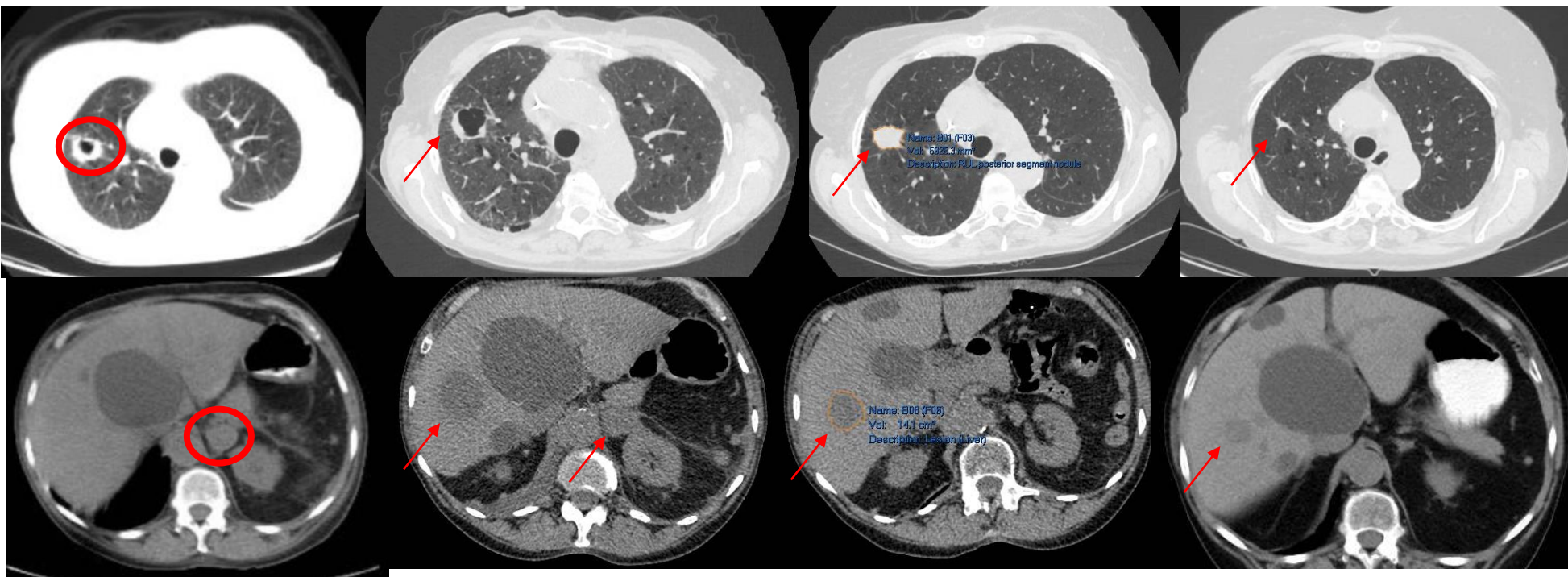
- 66 yo F, former 15 pk-yr smoker, presented with weight loss, dyspnea, cough. Mediastinal lymphadenopathy with bilateral lung nodules, liver and adrenal metastases
- Stage IV lung adenocarcinoma
 - EGFR, ALK, ROS1 wild-type
- Treatments:
 - Carboplatin/pemetrexed x 6 cycles
 - Maintenance pemetrexed x 4 months
 - Docetaxel, 11 months
 - Gemcitabine, 4 months
- Started Nivolumab 2015, (no PDL1 testing)

Baseline

2 months

4 months

10 months



Nivolumab started

Progression,
 -new liver met
 -new pulm nodules

Developed uveitis,
 grade 2
 Topical steroids

7 Months

Uveitis + cataracts,
 held nivo 1 month,
 prednisone 1
 mg/kg

Nivolumab continued

irAE – Anterior Uveitis

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LETTER TO THE EDITOR

Bilateral Anterior Uveitis Associated with Nivolumab Therapy

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CASE REPORT

A 66-year-old woman with a past ocular history of

capsular (PSC) cataracts, more advanced OS. Posterior examination revealed no vitreous cell, and neither intermediate nor posterior uveitis bilaterally. There

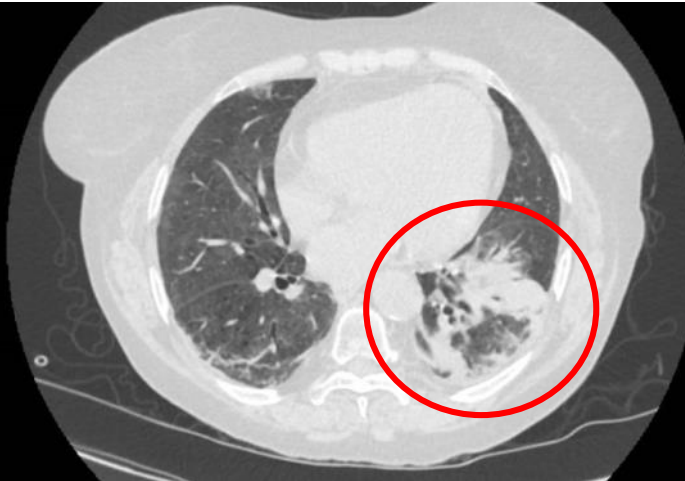
Topical prednisolone 1%
Cyclopentolate 2%

Symptomatic improvement

10 months



12 months



Pneumonitis requiring O2 and hospitalization

- Bronchoscopy: lymphocyte predominate, negative for infectious etiology
- Prednisone 1 mg/kg
- Discharged w/o oxygen

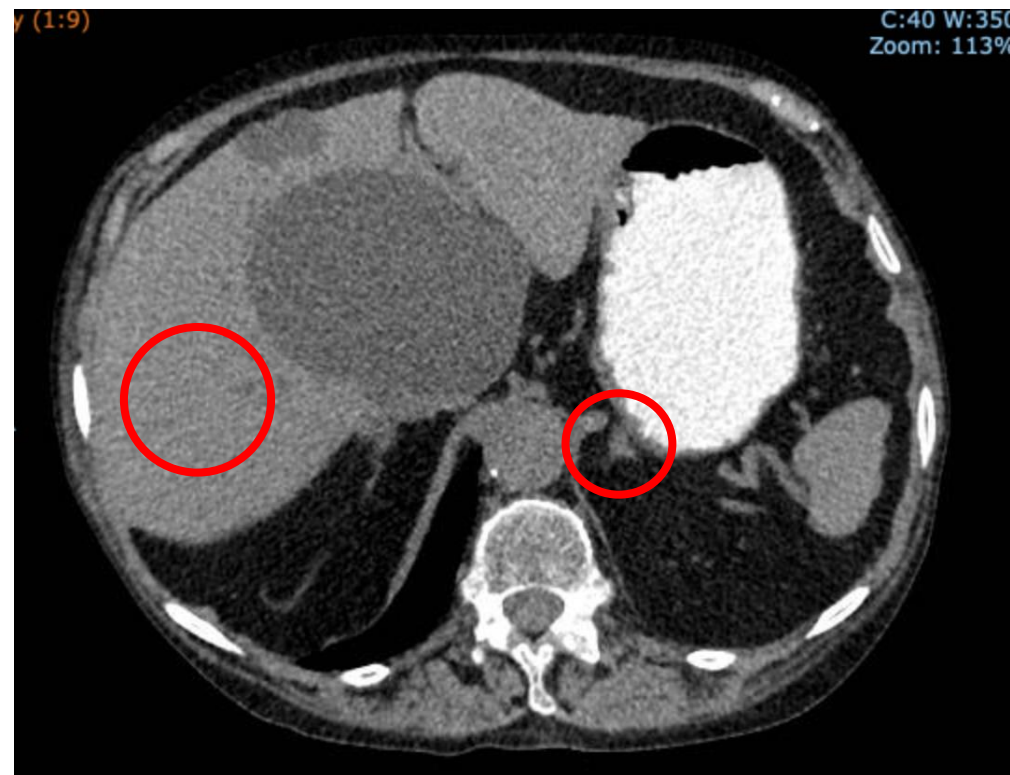
14 months



Stable disease
 Resolution of
 pneumonitis



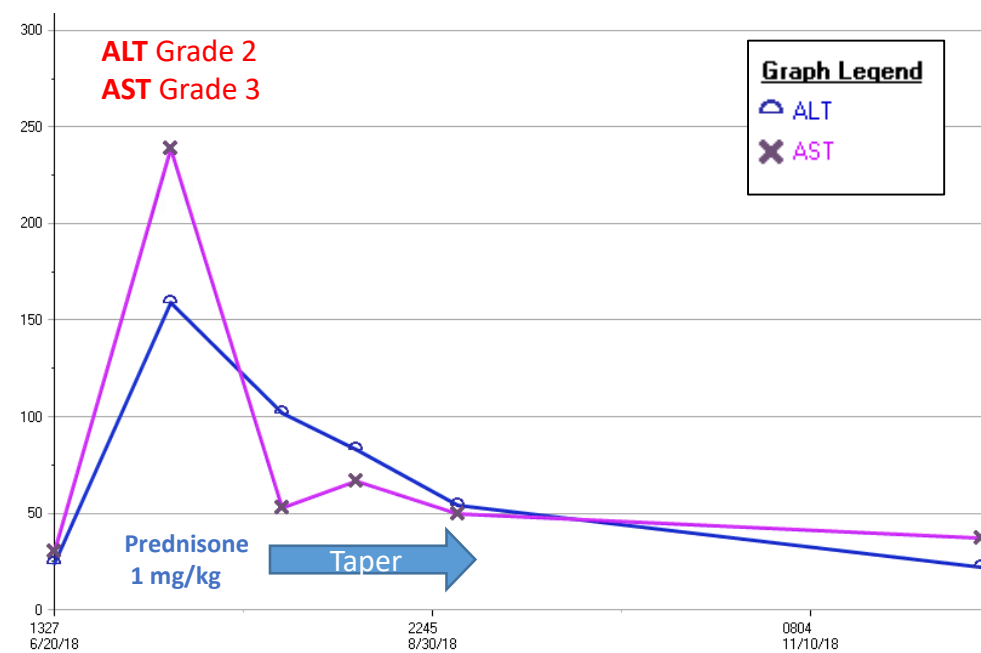
5 years after nivolumab



Case #2

- 82 yo F with Squamous Cell Carcinoma, Left lower lobe
- cT1bN2M0, Stage IIIA
- PDL1 60%
- PMH: Psoriasis
- Never-smoker, +wood fire cooking, Refugee from West Africa in 17 yrs ago
- ECOG 1
- Declined chemotherapy/radiation
- Pembrolizumab given

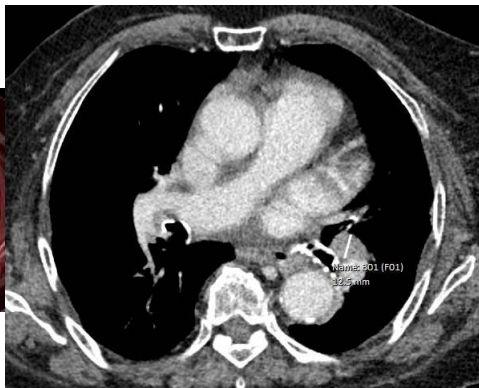
	Ref. Range	6/20/2018 1327	7/12/2018 1138	8/2/2018 1257	8/16/2018 1223	9/4/2018 1603
ALT	Latest Ref Range: <55 U/L	24	159 ▲	102 ▲	83 ▲	54
AST	Latest Ref Range: <35 U/L	30	239 ▲	53 ▲	67 ▲	50 ▲



Case #2 Imaging

Baseline

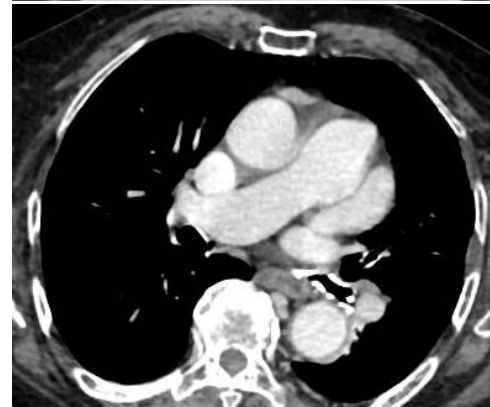
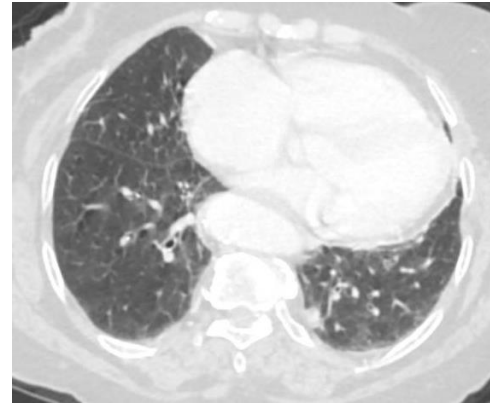
Pembrolizumab 200 mg x1



1.5 cm nodule
 1.2 cm hilar node

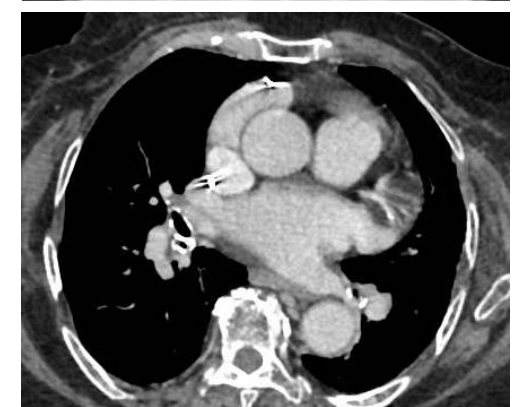
3 weeks

Grade 3 irAE
 Prednisone start



0.7 cm nodule
 0.7 cm hilar node

10 weeks



Stable disease

2.5 yrs

UVA Cancer Center Clinical Trials

- Immunotherapy trial highlights

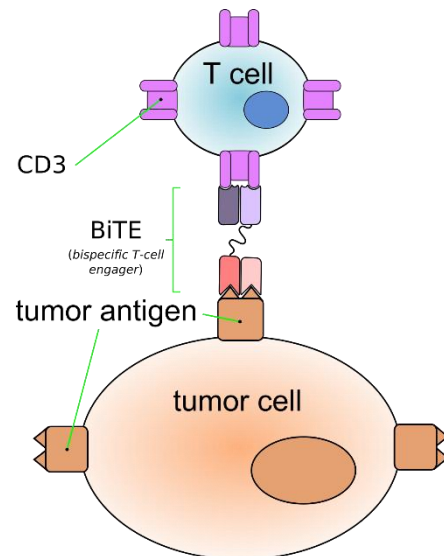


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• CALIBR (NCT04077021)

- A Phase-1, Open-Label Study in Two Parts, Evaluating the Safety, Tolerability, Pharmacokinetics, Pharmacodynamics and Clinical Activity of CCW702 in Patients with Metastatic, Castration Resistant **Prostate** Adenocarcinoma

BiTE
Bispecific
T-cell
Engager



Key Eligibility:

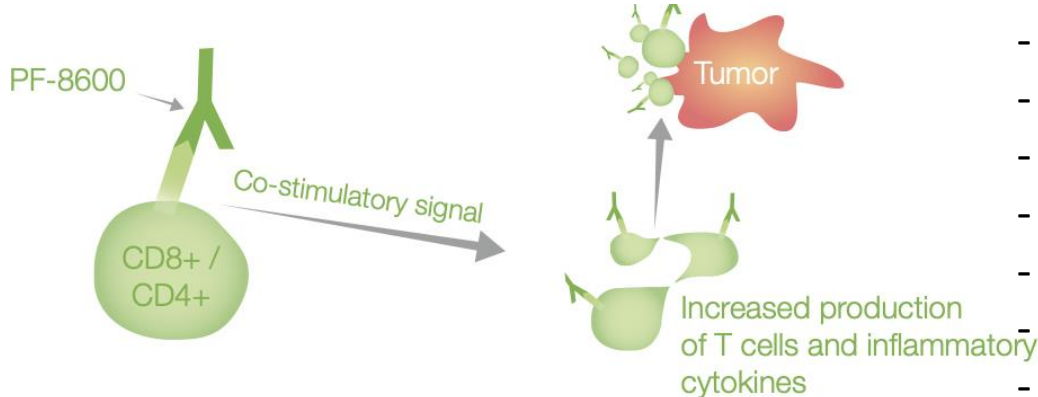
- Metastatic castrate resistant prostate cancer
- Must have at least 1 prior: abiraterone, enzalutamide
- 1 prior chemo regimen permitted
- ECOG 0-1
- Testosterone ≤ 50 ng/mL
- No symptomatic heart disease; MI or stroke within 6 months
- No neuropathy grade 2 or higher
- No untreated cord compression

UVA Trials – GU

OX40

- 4K-16-5 (NCT03092856):
 - Phase II Randomized Double Blind Trial of PF-04518600, an OX40 Antibody, in Combination with Axitinib versus Axitinib in Immune-Checkpoint Inhibitor Exposed Patients with Metastatic Renal Cell Carcinoma

n=104



Key Eligibility:

- Metastatic RCC s/p nephrectomy
- Progressed on VEGF inhibitor AND PD-1/PD-L1 (combo or sequential)
- Tissue obtained within 12 weeks of enrollment
- ECOG 0-2
- CrCl = 40+
- No prior mTOR inhibitor, no prior axitinib
- No Active malignancy within 3 yrs
- No h/o Gr 3 or higher irAE
- No CHF, MI, Stroke in last 6 months

UVA Trials – H&N

PD-1 Neoadjuvant

- Keynote 689 (NCT03765918):
 - Study of Pembrolizumab given prior to surgery and in combination with radiotherapy given post-surgery for stage III-IV resectable head and neck squamous cell carcinoma (MK-3475-689)

Key Eligibility:

- HPV +, T4N0-2M0
- HPV -, Stage III/IVA – larynx, hypopharynx/oral cavity
- Candidate for surgery
- ECOG 0-1
- No prior therapy
- No Grade ≥ 2 audiometric hearing loss
- No Grade ≥ 2 neuropathy
- No Grade 3-4 bleeding due to the underlying malignancy

UVA Trials – H&N

Vaccine

- VERSATILE-002 (NCT04260126):
 - Study of PDS0101 and pembrolizumab combination IO in subjects with HPV+ recurrent/metastatic HNSCC

PDS0101

Liposomal HPV vaccine

Key Eligibility:

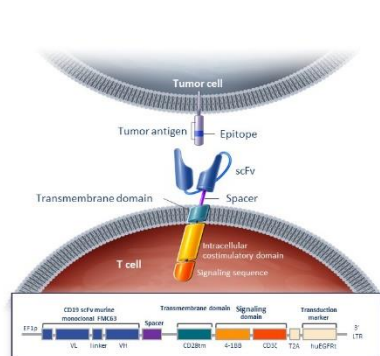
- HPV + SCC H&N
- PDL1 1%+
- No prior immunotherapy
- Measurable disease by RECIST 1.1
- Recovered from side effects of surgery or radiation
- ECOG 0-1
- No neuropathy Grade 2 or higher
- No active HIV, HBV, HCV
- No transfusion or GCSF within 30 days

UVA Trials – Lymphoma

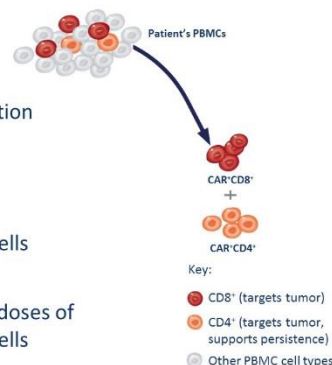
CAR-T

- TRANSEND FL (NCT04245839):
 - Phase II study to evaluate efficacy and safety of JCAR017 anti-CD19 for relapsed/refractory follicular, marginal zone lymphoma

Lisocabtagene Maraleucel (Iso-cel; JCAR017) CD19-Targeted Defined Cell Product



- Immunomagnetic selection
- Lentiviral transduction
- Expansion
- CD4+ and CD8+ CAR T cells formulated separately
- Administered at target doses of CD4+ and CD8+ CAR T cells



CAR, chimeric antigen receptor; CD, cluster of differentiation; huEGFRt, truncated human epidermal growth factor receptor; LTR, long terminal repeat; PBMC, peripheral blood mononuclear cells; scFv, single-chain variable fragment; VH, variable heavy chain; VL, variable light chain.

Key Eligibility:

- FL (Gr 1-3a), MZL
- At least 1 prior anti-CD20 and alkylating agent
- MZL at least 2 prior lines of therapy
- ECOG 0-1
- Adequate vascular access for leukaphoresis
- No composite DLBCL/FL or transformed FL
- No Primary CNS lymphomas
- No Prior CAR-T therapy
- No GVHD

Siddiqi T, et al. ASCO 2019:abst:7501
FDA approved 2/5/21 for DLBCL

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UVA Trials – Multiple Myeloma

CAR-T

- BMT CTN Q1 2022:
 - Phase II Multicenter Trial of anti-B Cell Maturation Antigen Chimeric Antigen Receptor T Cell Therapy for Multiple Myeloma Patients with Sub-Optimal Response After Autologous Hematopoietic Cell Transplantation and Maintenance Lenalidomide



Key Eligibility:

- Prior induction and Melphalan/Auto-SCT
- Stored stem cells available
- <12 months since auto-SCT
- At least 6 months of maintenance lenalidomide
- No disease progression
- Less than VGPR
- KPS 70+
- No CNS involvement

**Tamila Kindwall-Keller, Co-PI on cooperative group study

UVA Trials – Leukemia/MDS

CTLA4

- ETCTN 10026 (NCT02890329):
 - Ipilimumab and Decitabine in Treating Patients With Relapsed or Refractory Myelodysplastic Syndrome or Acute Myeloid Leukemia



Key Eligibility:

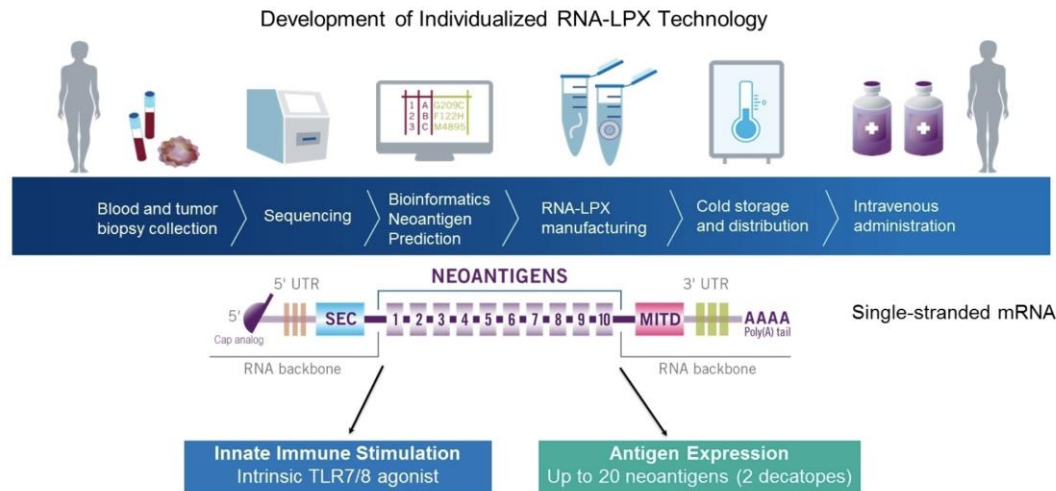
- Relapsed, or Refractory MDS or AML
- Tx Naïve MDS/AML, age 75+ or therapy-related AML
- ECOG 0-2
- No known CNS involvement
- No progression on hypomethylating agent within 12 weeks
- No GVHD Gr 3-4



UVA Trials – Melanoma

Personalized RNA Vaccine

- IMCODE001 (NCT03815058)
 - A study to evaluate efficacy and safety of RO7198457 (personalized vaccine) in combination with pembrolizumab versus pembrolizumab alone in participants with previously untreated advanced melanoma



Lopez JS, et al. AACR 2020, abstr:CT301

Key Eligibility:

- Tx Naïve advanced melanoma
- ECOG 0-1
- Tumor specimen available
- No ocular/uveal melanoma
- Active CNS metastases

UVA Trials – Cutaneous SCC

PD-1 Adjuvant

- R2810-ONC-1788 (NCT03969004)
 - Study of adjuvant cemiplimab versus placebo after surgery and radiation therapy in patients with high-risk cutaneous squamous cell carcinoma

Key Eligibility:

- Resected cutaneous SCC
- High risk features
- ECOG 0-1
- No Concurrent malignancy within 3 years, including indolent hematologic malignancies
- No History of cutaneous SCC with visceral or nodal metastases

UVA Trials – GYN: Cervical

PD-1 Concurrent

- GOG 3047 (NCT04221945):
 - A Randomized, Phase 3, Double-Blind Study of Chemoradiotherapy With or Without Pembrolizumab for the Treatment of High-risk, Locally Advanced Cervical Cancer (KEYNOTE-A18 / ENGOT-cx11)

Key Eligibility:

- FIGO 2014 Stage IB2-IIB (with node-positive disease) or FIGO 2014 Stages III-IVA
- Cisplatin eligible
- No prior therapy, surgery
- ECOG 0-1
- Tissue requirement
- RECIST 1.1 measurable disease
- No Prior hysterectomy
- Any contraindication to brachytherapy



UVA Trials – GYN: Cervical

PD-L1 + Chemo

- GOG 3030 (BEATcc): NCT03556839
 - A Randomized Phase III Trial of Platinum Chemotherapy plus Paclitaxel with Bevacizumab and Atezolizumab versus Platinum Chemotherapy plus Paclitaxel and Bevacizumab in Metastatic (stage IVB), Persistent, or Recurrent Carcinoma of the Cervix

Key Eligibility:

- Metstatic (Stage IVB) cervical cancer
- Adeno, SCC, adenosquamous histology
- RECIST 1.1 measurable disease
- Tumor specimen
- No disease involving the bladder or rectum
- No bilateral hydronephrosis
- No prior chemo (prior concurrent chemoRT allowed)
- No prior VEGF, CD137, PD-1/PD-L1, CTLA4
- No brain mets



UVA Trials – Lung

Neoadjuvant/Adjuvant PD-1/PD-L1

Neoadjuvant

- CHIO3 (AFT-46) ([NCT04062708](#))
 - single arm phase 2
 - Chemo + durvalumab
 - Stage IIIA/B surgically resectable
 - NSCLC
- Keynote 671, ([NCT03425643](#))
 - randomized phase 3
 - Chemo + pembrolizumab/placebo
 - Stage IB-IIIA surgically resectable
 - NSCLC

Adjuvant

- BTCRC-LUN18-153 ([NCT04317534](#))
 - 1 year pembrolizumab q4 wks
 - Stage I (1.0-4.0 cm) resected NSCLC
- ALCHEMIST Chemo-IO ([NCT04267848](#))
 - Stage IB (4.0 cm) – IIIA
 - Adjuvant chemo+pembrolizumab

Thank you!

- Questions?