



Transforming Radiotherapy *with* Dismutase Mimetics

January 2020

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Whenever the Company uses the terms "transform radiotherapy" or "transforming radiotherapy" in this presentation, it is referring to its mission statement.

Transforming Radiotherapy With Dismutase Mimetics

Reducing Toxicity

Rapid elimination of Superoxide (O_2^-)



Severe Oral Mucositis
in Head & Neck Cancer

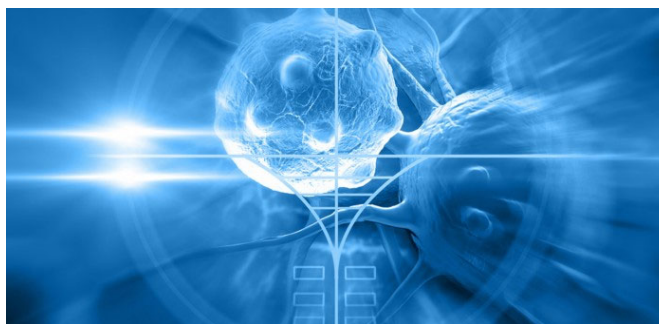


Esophagitis
in NSC Lung Cancer

IMRT

Other IMRT-related
Toxicities

Normal tissue toxicity limits
optimal radiotherapy treatment of tumor

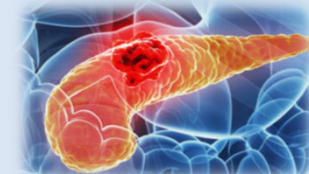


Over half of cancer patients
receive radiotherapy
as part of their care^{1, 2}

Increasing Anti-Cancer Efficacy

Increase H_2O_2 in tumors

Locally-Advanced
Pancreatic Cancer



Centrally-Located
NSC Lung Cancer



Other SBRT-Treated
Tumors

SBRT

Radiotherapy is standard-of-care for many local
tumors but need remains for greater efficacy

¹ Delaney G, Jacob S, Featherstone C, Barton M. The role of radiotherapy in cancer treatment... *Cancer*. 2005;104:1129-1137

² Begg AC, Stewart FA, Vens C. Strategies to improve radiotherapy with targeted drugs. *Nat Rev Cancer*. 2011;11:239-253

Investment Highlights

Lead Product in Phase 3

Robust Efficacy in Randomized Phase 2b (n=223)

- Breakthrough Therapy designation
- Single Phase 3 sufficient for registration (n=365)



Substantial Unmet Medical Need

Radiation-Related Severe Oral Mucositis (SOM)

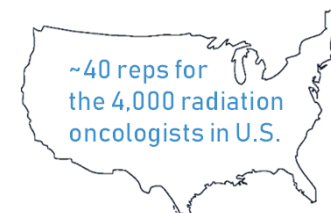
- 65,000 patients/year in US get Head & Neck Cancer
- SOM most burdensome side-effect: 70% of patients



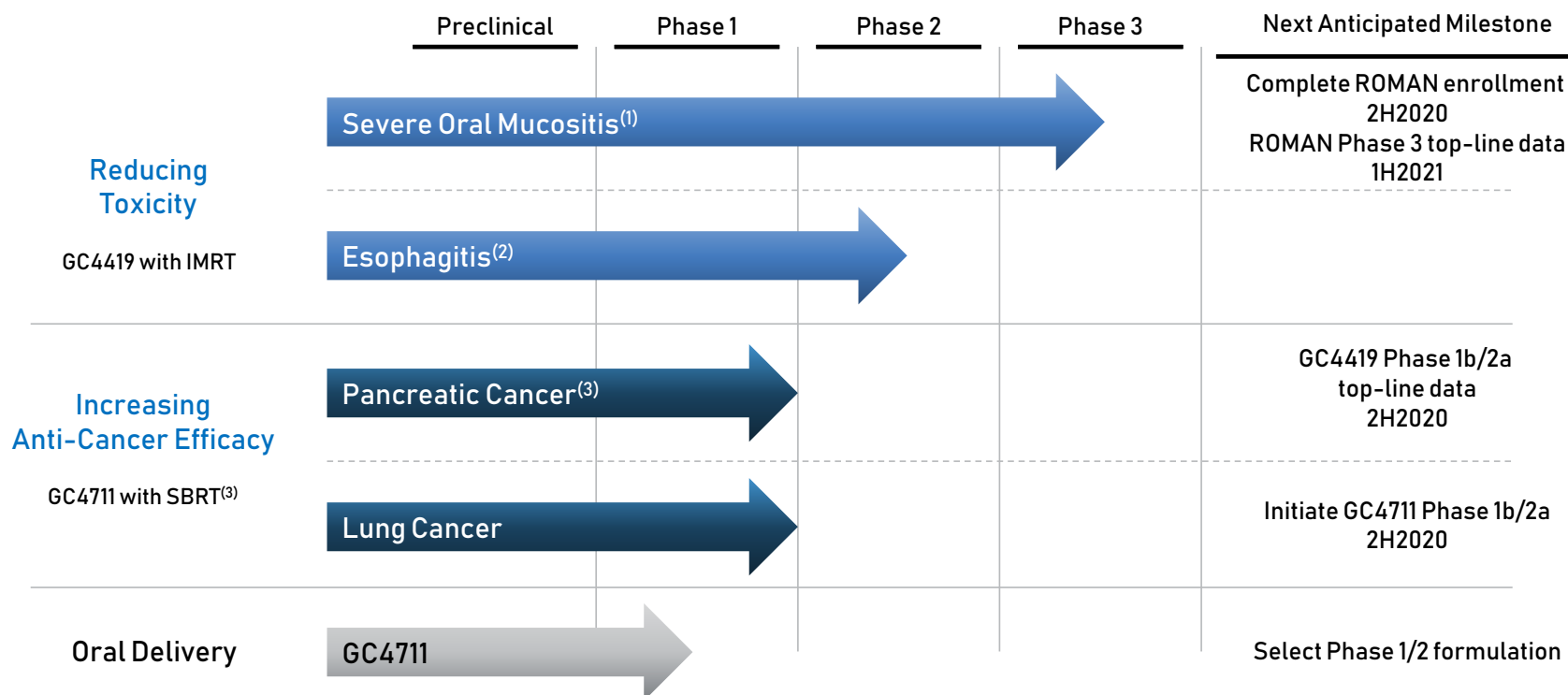
Focused Commercial Opportunity

Galera Intends to Commercialize in US

- ~60% treatments in ~500 centers
- Current SOM treatments are marginally effective



Clinical Stage Pipeline



- (1) We also plan to conduct a Phase 2a multi-center trial in Europe assessing the safety of 90 mg GC4419 in up to 70 patients with HNC undergoing standard-of-care radiotherapy. We plan to initiate this trial in the first half of 2020.
- (2) Phase 2a trial in patients with lung cancer building on GC4419 safety and tolerability findings in patients with HNC SOM studies.
- (3) Observations from our Phase 1b/2a pilot trial of GC4419 in combination with SBRT in patients with LAPC whose tumor cannot be resected will be used to help develop GC4711 to increase the anti-cancer efficacy of SBRT.



Dismutase Technology & Portfolio

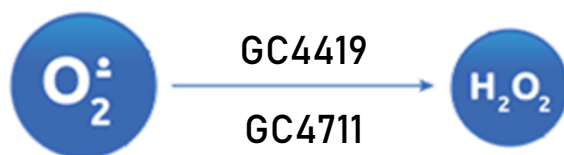


Unique Technology

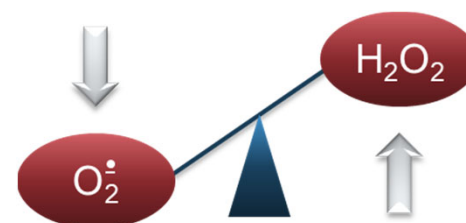
Dismutase Mimetics

Small Molecule Enzyme Mimetics

- Mimic human superoxide dismutase (SOD) enzymes
- Rapidly convert superoxide ($O_2^{\cdot -}$) to hydrogen peroxide (H_2O_2)



Shifts balance in normal & cancer cells
from superoxide to hydrogen peroxide



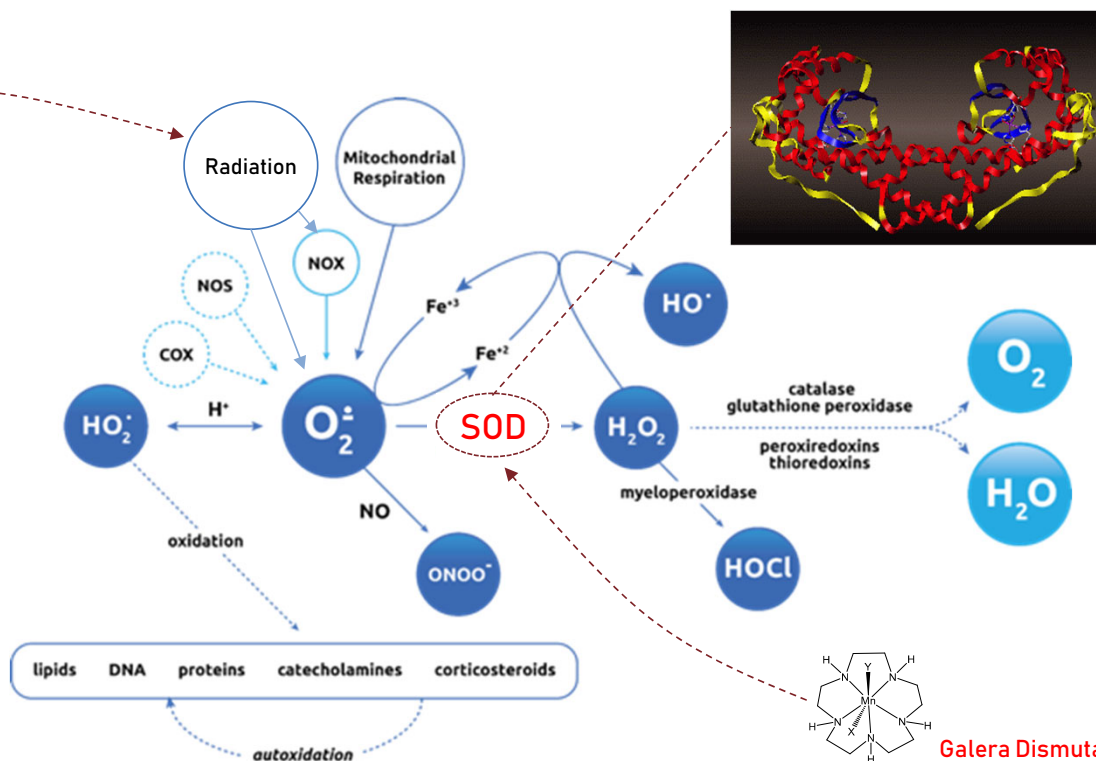
Radiation & Superoxide

Radiation

Produces bursts of superoxide, causing

- Radiolysis of water
- Stimulation of NOX, etc.
- Inflammatory response

RT-induced superoxide overwhelms SODs, resulting in normal tissue damage



Superoxide ($O_2^{\cdot -}$)

Produced by every cell as part of cellular respiration & substrate for $HOCl$.

Highly toxic & leads to cell death.

SOD enzymes evolved to rapidly convert $O_2^{\cdot -}$ to H_2O_2 (10^{-7} seconds)

Galera Dismutase Mimetics

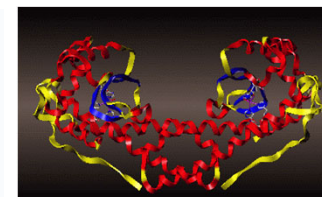
Galera's Dismutase Mimetics



Natural SOD Enzymes

Limitations of Natural SOD Enzymes

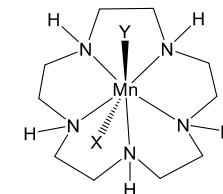
- Large size prevents entry into cells
- Immunogenicity & short half-lives
- Inactivation/inhibition by reactive oxygen species



Small Molecule Mimetics

Challenge: suitable small molecule dismutase mimetics

- Fast catalytic rates & high selectivity for superoxide
- Firmly hold manganese in macrocyclic ring
- Stable, safe & suitable for manufacturing



Dismutase Mimetics Core Structure
Pentaaza Macrocycles

Small Molecule Dismutase Mimetics with Attractive Drug Characteristics

Speed

Comparable to native SODs
(2×10^7 molecules per sec)

Selectivity

Interact with superoxide alone,
not other reactive oxygen species

Stability

Firmly hold Mn atom
in macrocyclic ring

Safety

Well-tolerated
preclinically and clinically

Synthesis

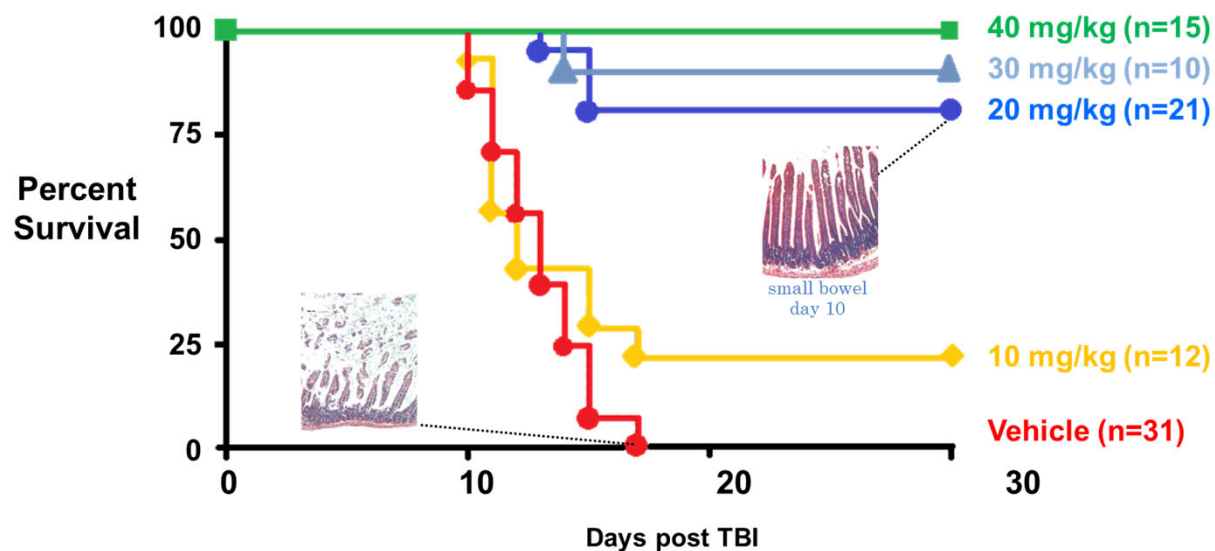
Efficient & cost-effective
manufacturing process

Dismutase Mimetics Reduce Radiation Toxicities

Reduce
Radiation
Mucositis

Lethal dose of Total Body Irradiation (8.5 Gy) to mice

- 100% death on control, 100% survival with 40mg/kg
- Main cause of death was intestinal mucositis

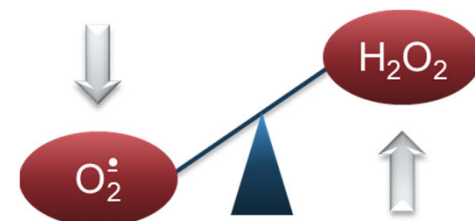


Dismutase Mimetics Increase Anti-Cancer Efficacy with High Fraction-Dose RT

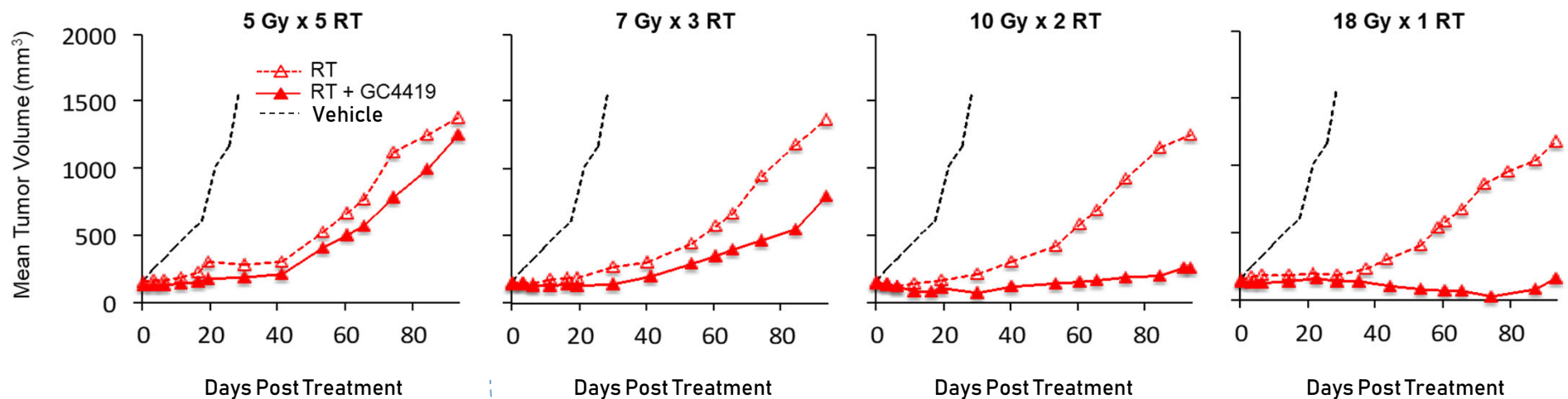
Increase
Radiotherapy
Efficacy

Focal irradiation of human tumor xenografts (H1299 NSCLC) in mice

- RT anti-cancer synergy of GC4419 increases with bigger RT fractions:
- Bigger fraction \rightarrow More $O_2 \rightarrow$ More H_2O_2



RT with Biological Equivalent Doses



Courtesy of M Story (UTSW)

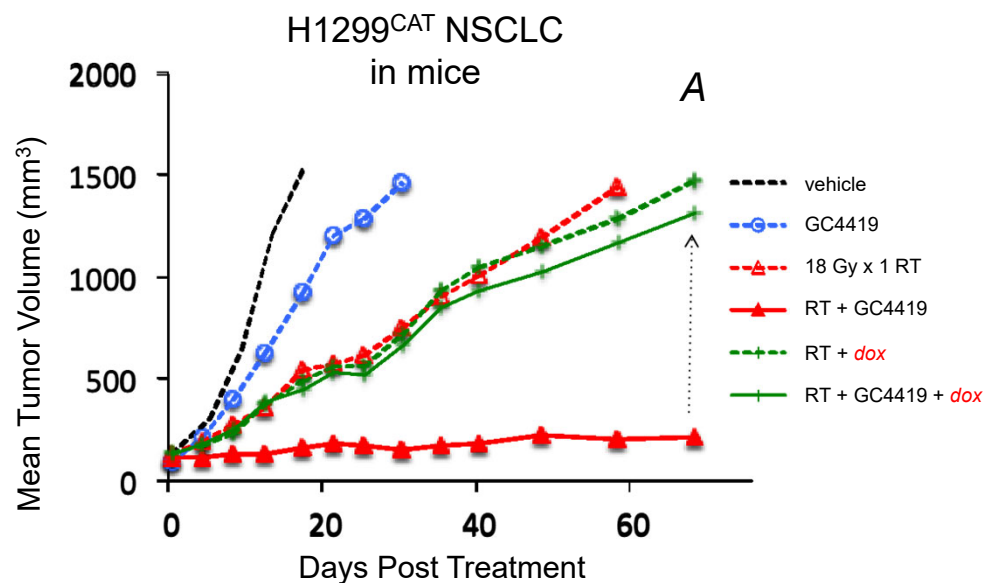
SBRT
Stereotactic Body Radiation Therapy

...Increase Anti-Cancer Efficacy via H_2O_2

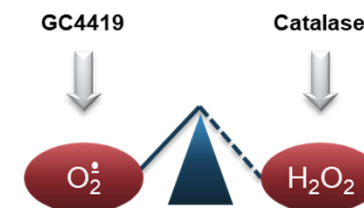
H_2O_2 Drives
Increased
Efficacy

SBRT Irradiation of human tumor-derived xenografts (H1299^{CAT}) in mice

- Engineered to overexpress catalase (disposes of H_2O_2) when induced by doxycycline
- Overexpressing catalase blocks synergy with RT by removing GC4419-generated H_2O_2



Tumor tissue H_2O_2 reduced when
doxycycline added to RT + GC4419

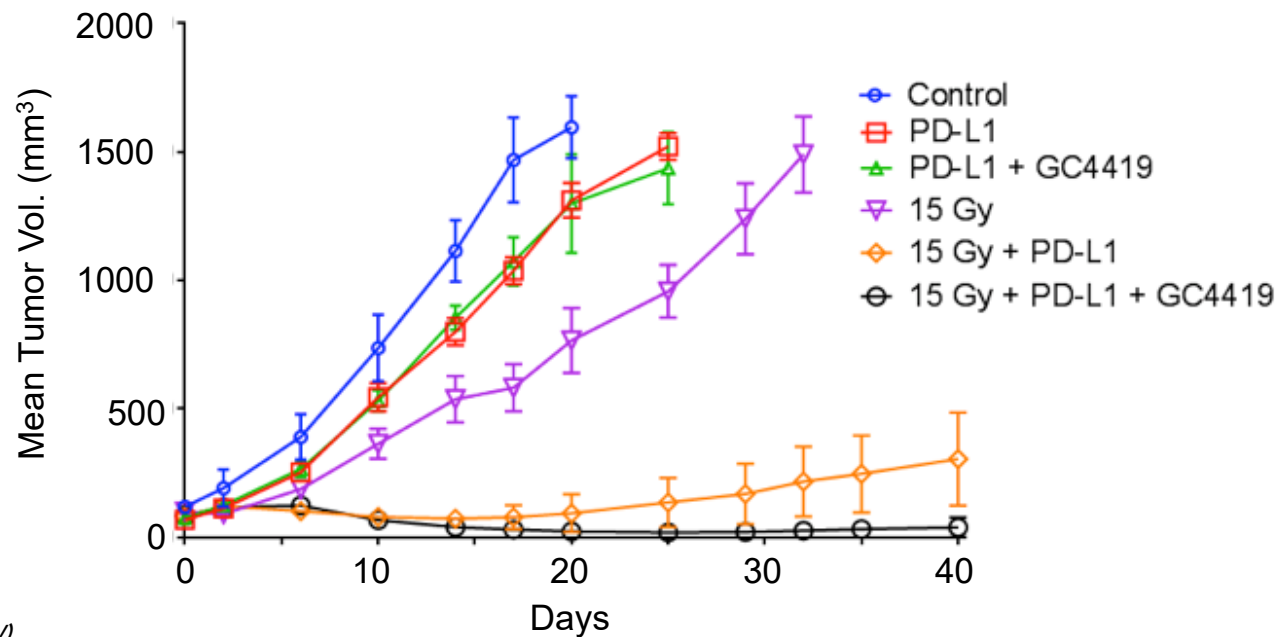


...Also Enhance Immuno-Radiotherapy

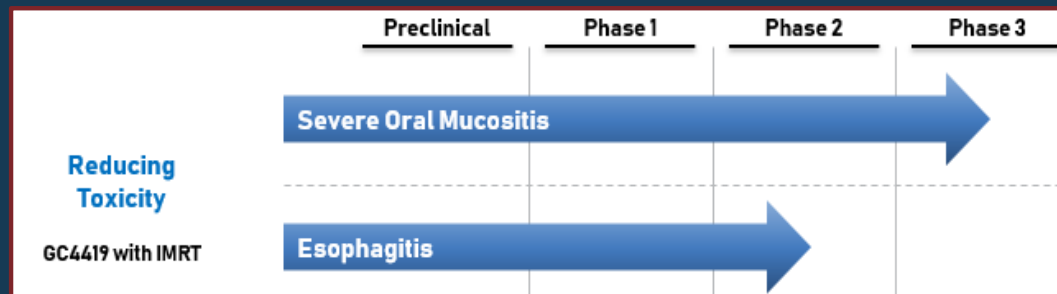
Increase
IO + SBRT
Efficacy

SBRT + Checkpoint Inhibitor therapy of syngeneic tumors (LLC) in mice

- GC4419 enhances tumor response to SBRT + anti-PD-L1, PD-1 or CTLA-4
- Also appeared to reduce metastasis & increase response in unirradiated secondary tumors



Courtesy of M Story (UTSW)



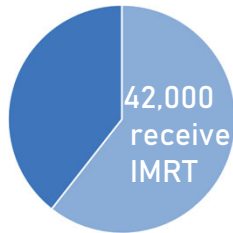
Clinical Trials: Reducing Toxicity of IMRT



Oral Mucositis in HNC – Large Unmet Medical Need

SOM and Head & Neck Cancer

- ~65,000 new HNC patients in US/Year
- ~65% get IMRT & cisplatin as standard-of-care
- ~70% of patients get SOM (can't eat)
- ~20-30% get Grade 4 (can't eat or drink)
- No approved drug available



Can Have Devastating Complications

- **Dehydration & Malnutrition**
Often requiring PEG tube feeding
- **Pain**
Often severe pain requiring opioids
- **Treatment interruption**
Each week of treatment delay decreases tumor control by >10%
- **Increased economic burden**
OM Dx → ~\$32,000 in additional medical expenses in first 6 months from RT start

WHO Grading Scale

No ulcers Erythema and soreness	1
Ulcers Able to eat a solid diet	2
Ulcers Requires a liquid diet	3
Ulcers Unable to eat or drink	4

SEVERE

Current Treatments are Marginally Effective

MASCC / ISOO Guidelines for HNC OM

Treatment Approach	Recommended for HNC OM due to RT?
Basic oral care	✓
Anti-microbials, coating agents, anesthetics, & analgesics (0.2% morphine mouthwash)	✓
Anti-inflammatories, benzydamine	?
Low level laser & other light therapy	?
Cryotherapy for 5-FU chemotherapy	✗
Natural & other agents	✗

GT-201: 223-Patient Randomized Phase 2b OM Trial

Supportive trial to the ROMAN Phase 3 for the NDA



Trial Design

Treatment	<ul style="list-style-type: none"> GC4419 90mg, 30mg, or placebo 60 minute IV infusion, Mon-Fri. Ending <60 mins pre-RT
Population	<ul style="list-style-type: none"> Patients with HNC Locally-advanced, squamous cell Eligible for SoC – 7 weeks IMRT + cisplatin
Stratification Factors	<ul style="list-style-type: none"> Tumor HPV Status: positive or negative Cisplatin Schedule: q3wks or weekly
Endpoints	<ul style="list-style-type: none"> Primary – Reduction in median duration of SOM – WHO Grades 3 & 4 Secondary – Reduction in incidence and severity of SOM at pre-specified timepoints Exploratory – Time to SOM onset Tumor outcomes (2 year follow-up) Locoregional control, distant mets, PFS, OS

Randomize (1:1:1)

GC4419 90mg x 7 weeks

GC4419 30mg x 7 weeks

Placebo x 7 weeks

WHO Grading Scale

No ulcers
Erythema and soreness 1

Ulcers
Able to eat a solid diet 2

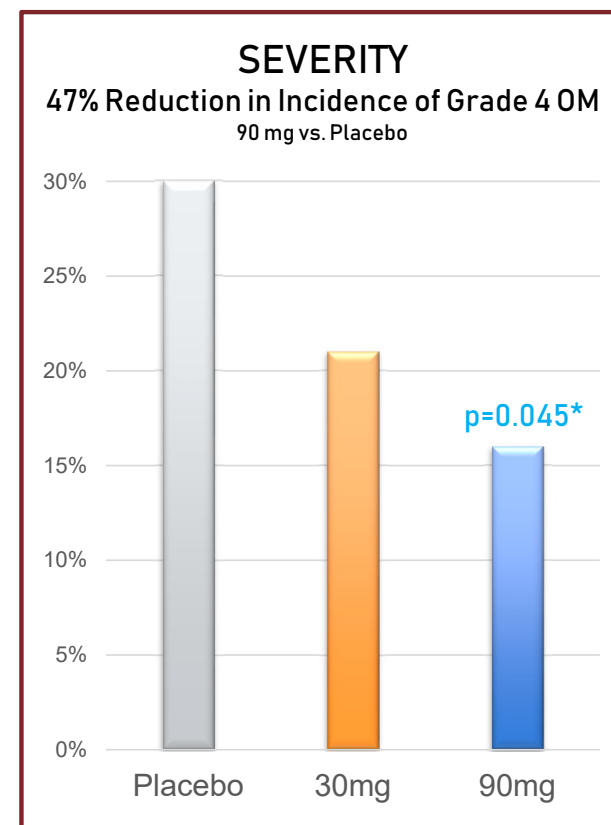
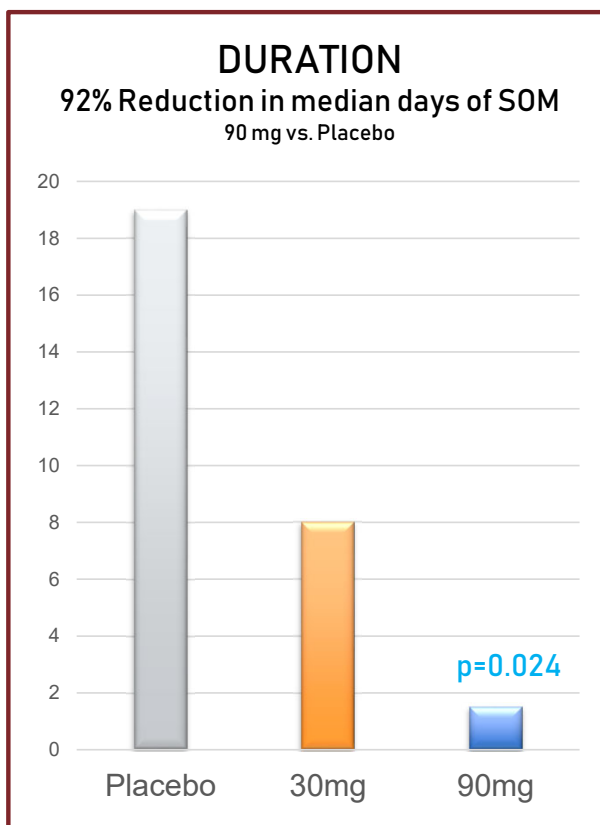
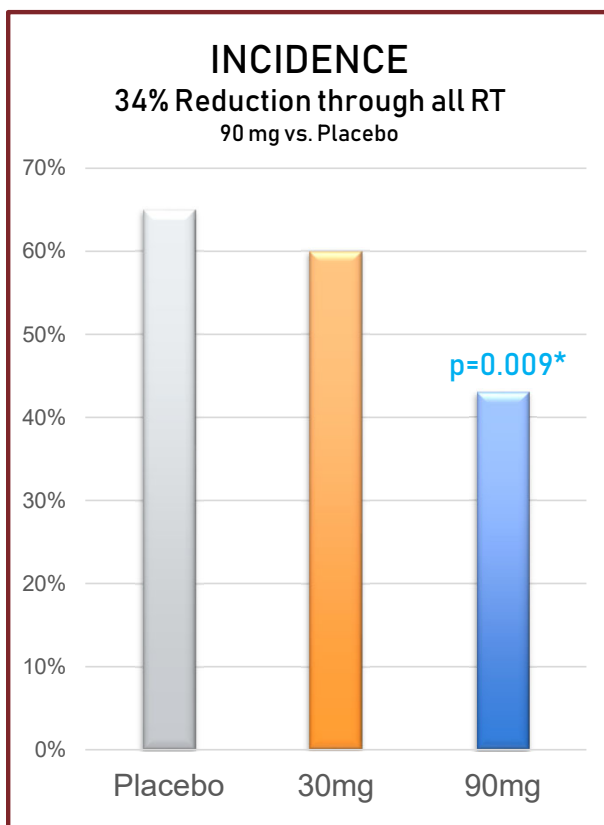
Ulcers
Requires a liquid diet 3

Ulcers
Unable to eat or drink 4

SEVERE

Consistent Efficacy Across All SOM Parameters

And consistent dose response: 90mg > 30mg



Primary endpoint was duration - defined as # days from 1st occurrence of grade 3 or 4 SOM until the 1st event of grade 2 or less (there being no subsequent grade 3 or 4 events.)

*Secondary endpoints (incidence and severity) have nominal p values compared to placebo

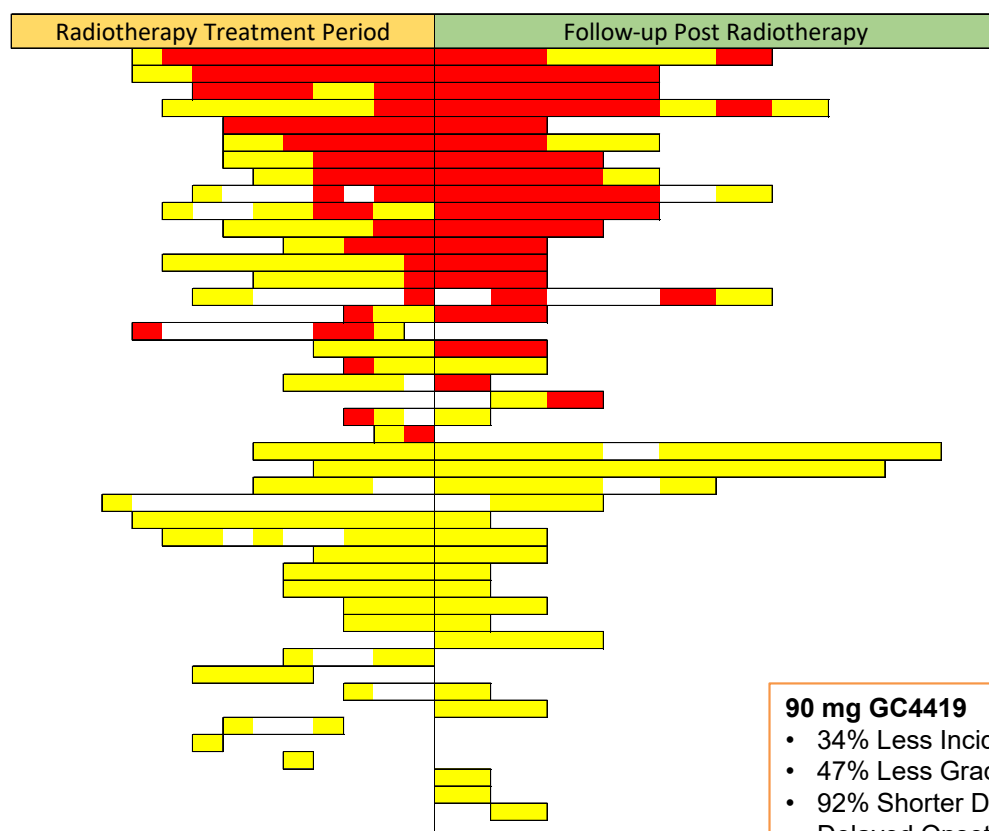
ITT = Intent-To-Treat population (n=223)

Efficacy Parameters Better on 90mg arm Compared to Placebo

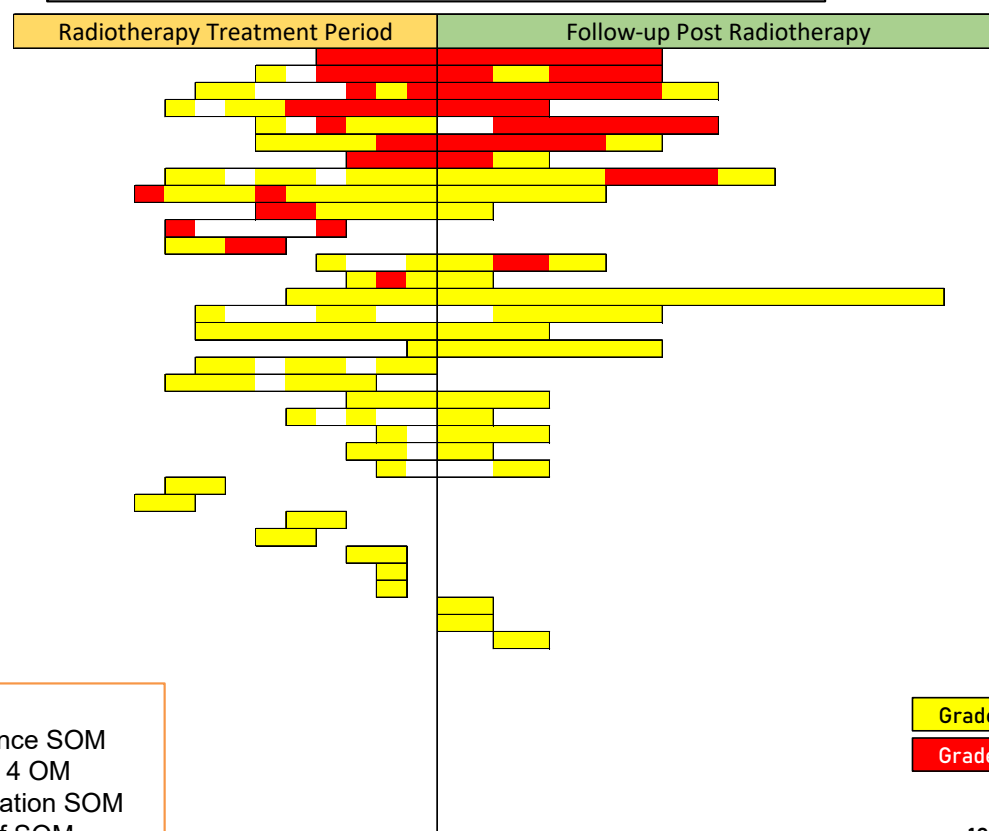
Swimmers plot: each patient who developed at least one SOM episode is represented by a row



PLACEBO Arm (45 of 74 Pts had ≥ 1 visit with SOM)



90MG GC4419 Arm (35 of 76 Pts had ≥ 1 visit with SOM)



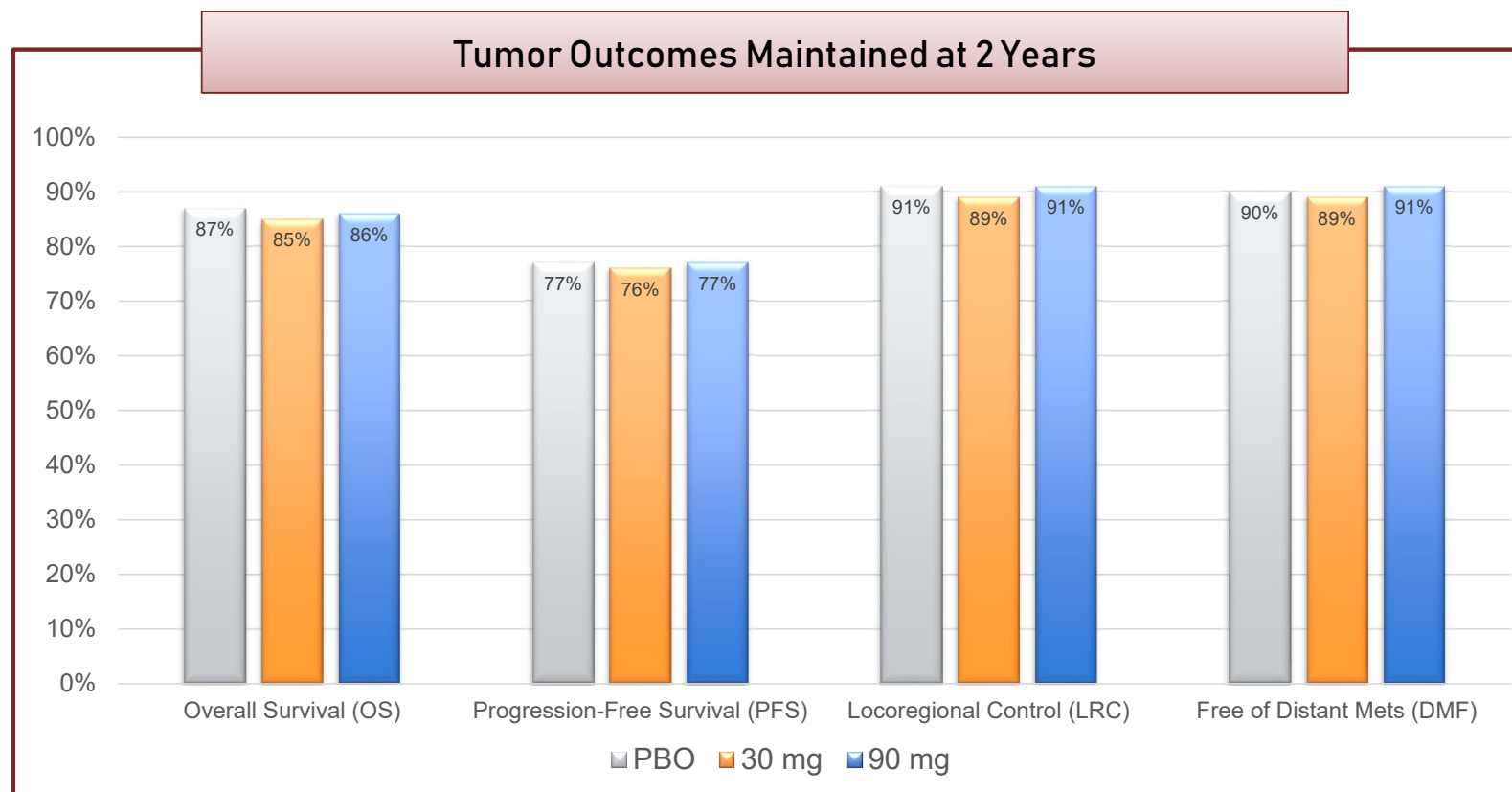
90 mg GC4419

- 34% Less Incidence SOM
- 47% Less Grade 4 OM
- 92% Shorter Duration SOM
- Delayed Onset of SOM

Grade 3

Grade 4

Tumor Outcomes Maintained – 2 year follow-up

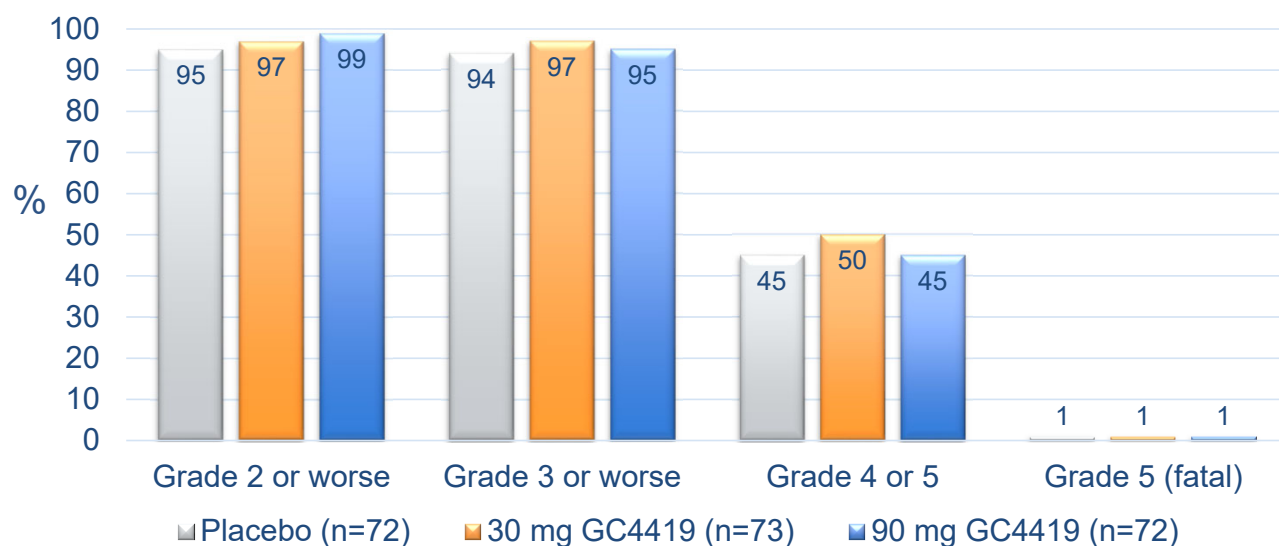


Final ITT Analysis

OS = Overall Survival, PFS = Progression-Free Survival, LRC = LocoRegional Control, DMF = Free of Distant Metastases

Safety Summary – Rand. Phase 2b Trial

Safety Profile of Both GC4419 Doses Comparable to Placebo



GC4419 was well tolerated at both doses

Most Frequent AE's as expected with Standard Cisplatin – RT Regimen

Most Frequent AEs (any grade)	Placebo (n=72)	30 mg GC4419 (n=73)	90 mg GC4419 (n=72)
Lymphopenia	89%	92%	88%
Nausea	75%	68%	82%
Fatigue	69%	60%	65%
Oropharyngeal pain	64%	63%	61%
Constipation	53%	59%	64%
Radiation skin injury	47%	51%	53%
Vomiting	47%	52%	49%
Dysgeusia (taste)	49%	55%	43%
Dysphagia	43%	42%	47%
Weight decreased	35%	40%	44%
Oral candidiasis	29%	45%	43%
Leukopenia	39%	37%	39%

GT-301: The ROMAN Trial– Phase 3 Confirmatory Trial Enrolling

Reduction in Oral Mucositis with Avasopasem Manganese (GC4419)



Trial Design (n≈365 pts)

Treatment	<ul style="list-style-type: none"> GC4419 90mg or placebo 60 minute IV infusion, Mon-Fri Ending <60 mins pre-RT
Population	<ul style="list-style-type: none"> Patients with Head & Neck Cancer Locally-advanced, squamous cell Eligible for SoC – 7 weeks IMRT + cisplatin
Stratification Factors	<ul style="list-style-type: none"> Surgery Status: post-op or definitive Cisplatin Schedule: q3wks or weekly
Endpoints	<ul style="list-style-type: none"> Primary – Reduction in incidence of SOM – WHO Grades 3 & 4 Secondary – Reductions in severity of SOM and number of days of SOM experienced Tumor outcomes* – LRC, DM-free, PFS, OS

Randomize (3:2)

GC4419 90mg x 7 weeks

Placebo x 7 weeks

WHO Grading Scale

No ulcers
Erythema and soreness 1

Ulcers
Able to eat a solid diet 2

Ulcers
Requires a liquid diet 3

Ulcers
Unable to eat or drink 4

SEVERE

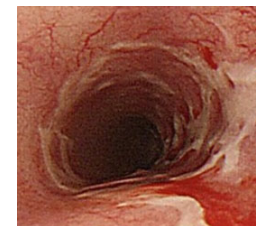
*LRC = locoregional control, DM-free = free of distant mets, PFS = Progression-Free Survival, OS = Overall Survival

RT-related Mucositis Beyond Head and Neck Cancer

Mucositis of Esophagus

Radiotherapy-related Esophagitis in Lung Cancer

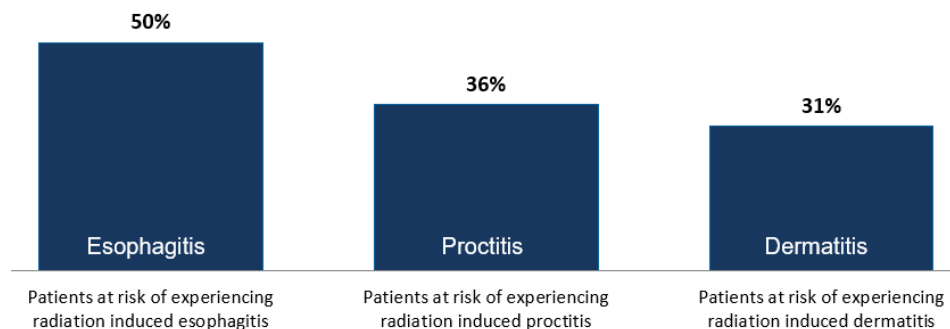
- Galera's HNC trials seen by radiation oncologists as supportive for esophagitis¹
- ~50,000 lung cancer patients are treated with RT, 50% get ≥ Grade 2 esophagitis²
- Effects: inability to swallow, severe pain, ulceration, bleeding & hospitalization



Compendial Listing

Phase 2 to support Compendial Listing post-Approval for SOM

- Single-arm Phase 2a trial in 60 patients w/ locally-advanced lung cancers
- Standard IMRT to ≥ 5 cm of esophagus (30 fractions, 2Gy/day x5 for 6 weeks)
- Post approval for SOM in HNC, plan to seek compendial listing in U.S.

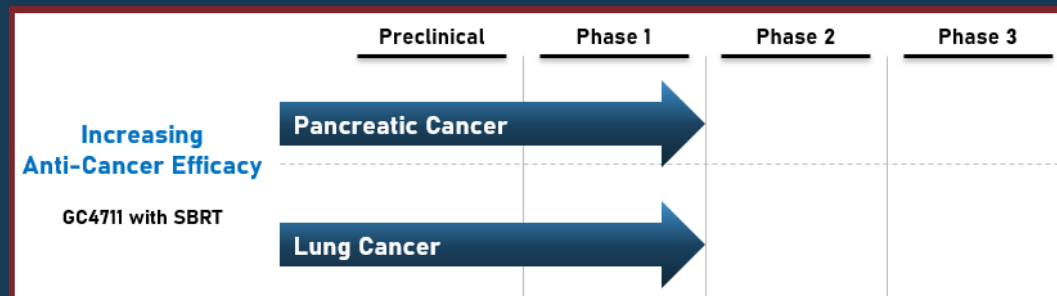


Market Research Question Patients with Other Conditions¹

Given the demonstrated ability of Product X to prevent radiation-induced toxicities in the oral mucosa, please indicate how you might use (maximum %) Product X for the following radiation associated conditions?

¹Galera Market Research (150 Radiation Oncologists)

² NCI or RTOG grading scales



Increasing Anti-Cancer Efficacy with SBRT



GC4419 + SBRT Pilot Phase 1b/2a in Pancreatic Cancer



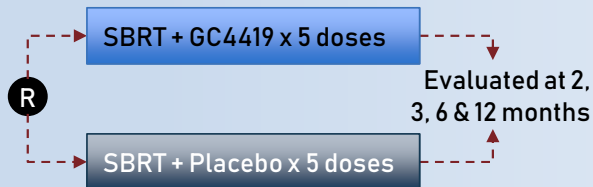
Pancreatic Cancer

Locally-Advanced Pancreatic Cancer (LAPC)

- 3rd leading cause of cancer death in US – 45,750 deaths in 2019
- One year survival is 20% & 5-year survival is ~5%
- Placebo-controlled, Adaptive Trial: Escalating SBRT Dose (LO-ET Method¹) both arms

48 Patient Pilot Trial

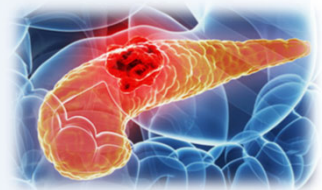
Screened
After 6 months
of induction
Chemo



1° Objective is MTD of SBRT (at 12 months)

2° Objectives include

- Progression-Free Survival (PFS)
- Overall Response Rate at 90 days



Trial status as of August 2019

Single-Center: 19 patients treated

- Numerical differences in favor of GC4419 arm in PFS, local tumor response rate & overall response rate
- Data is preliminary, not yet audited, & subject to change
- Now Multi-Center, targeting 29 more patients

SBRT = Stereotactic Body Radiation Therapy, C Taniguchi & J Herman (MD Anderson),

¹LO-ET = Late-Onset Efficacy-Toxicity (Jin IH, Liu S, Thall PF, Yuan Y. J Am Stat Assoc 2014;109:525-36)

GC4711 + SBRT Combination in NSC Lung Cancer

GC4711

GC4711 – SBRT Clinical Candidate

- Same mechanism of action as GC4419, with IV & oral forms
- NCE with new IP & lyophilized drug product
- Completing Phase 1 in healthy volunteers: 15-minute infusion

NSCLC

Non-Small Cell Lung Cancer (NSCLC)

- Leading cause of cancer death in US – 142,670 deaths in 2019
- SBRT commonly used for smaller peripheral tumors
- Lung toxicity limits use in larger or centrally-located tumors



Pilot Study

Phase 1b/2a in NSCLC with GC4711 + SBRT

- 1st Stage: 5 fractions of SBRT +/- GC4711
- 2nd Stage: 5 fractions of SBRT + checkpoint inhibitor +/- GC4711
- Endpoints include safety, acute pneumonitis (DLCO₂) & PFS

¹ 2019 SEER Data

² DLCO = diffusing capacity of the lung for carbon monoxide



Commercial Considerations



Large Commercial Opportunity Addressing Clear Unmet Need



220 Rad Oncs
in market
research

5% of Rad Oncs

Galera's quantitative market research to date includes ~5% of US radiation oncologists

Support significant, rapid uptake of GC4419 for oral mucositis

SOM clear
unmet need

70% get SOM

Rad Oncs report severe oral mucositis is most burdensome side effect of HNC RT treatment

70% of patients get SOM (Grades 3 & 4) with standard-of-care RT & 20-30% get Grade 4

SOM common
& costly

~\$32,000

Current approaches inadequate – while frequently used, only 1 in 5 believe they are useful

Patients with OM incur ~\$32,000 more in medical expenses in first 6 months from start of RT

OM data
representative
for all
mucositis

4,000 Rad Oncs

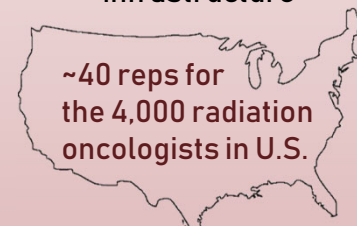
~2,500 radiotherapy sites in US
~60% of patients are treated in ~500 centers¹

Market research suggests rad oncs view OM data as representative of efficacy in esophagitis

Targeted
salesforce
In U.S.

~40 Reps

Focused commercial infrastructure



Evaluating options for commercialization outside U.S.

Rad Oncs = Radiation Oncologists, SOM = Severe Oral Mucositis

¹ Medicare Claims Analysis by Galera in 2019

Oral Mucositis Most Burdensome Side Effect of RT in HNC

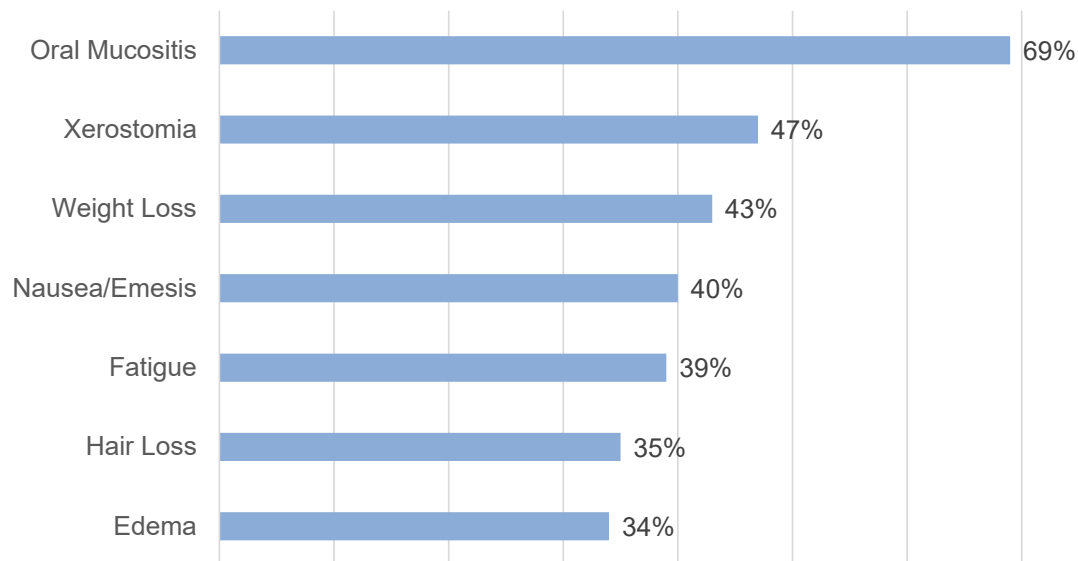
Physicians are aware of the problem of Oral Mucositis



RT-Related Side Effects

Patients receiving radiation with chemo or targeted therapy

- Oral mucositis deemed worst (69%) side effect
- Rad. Oncs agree that SOM is huge issue both for them & their patients



"Literally everyone suffers from it, even at low radiation levels"



*Radiation Oncologist
Large Hospital*

"Oral mucositis is our biggest concern by far, especially with head & neck cancer patients"



*Radiation Oncologist
Large Clinic*

BluePrint Market research, Jan 2018 Q1. On a scale of 1 to 7, where 1 is "Not Burdensome" and 7 is "Extremely Burdensome" Please indicate how burdensome each of the following side effects are on your head and neck cancer patients receiving radiation therapy in combination with chemotherapy or targeted therapy.

Topical Agents Perform Poorly in Efficacy Attributes

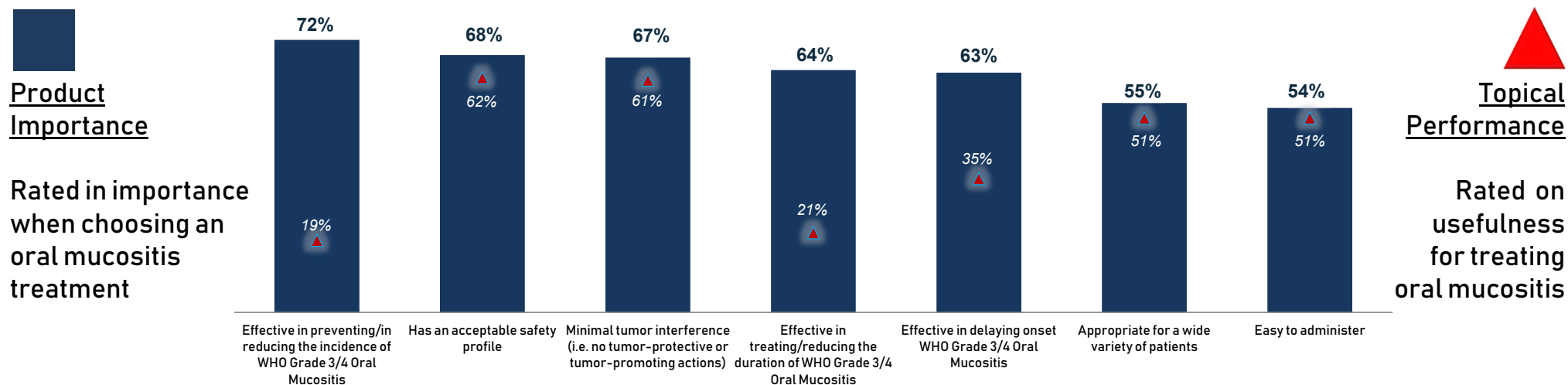
Physicians seek therapy to prevent/reduce the toxicity of radiation



Product Performance

Product Attribute Importance & Topical Performance

- Efficacy in preventing/reducing OM is most important product attribute
- Only 19-21% MDs believe topical agents perform well in preventing or reducing mucositis



Galera Market Research (150 U.S. Radiation Oncologists)

% MDs that rated these attributes as a 6 or 7 on a 7-point scale

OM Substantially Increases Medical Expenses in Patients with HNC

Health economic analysis of patients with HNC receiving RT or chemo/RT



High Cost
Of Oral
Mucositis

Identified patients with locally advanced Head & Neck Cancer, treated with RT +/-chemo

- Longitudinal claims analysis¹ assessing costs over a six month period
- Compared healthcare expenses of patients with & without oral mucositis
- Included both in-patient and out-patient expenses associated with a claim

Healthcare
Expenses



Pts with OM incur ~\$32,000 more of medical expenses within first 6 months of start of RT

¹ Navigant analysis; 40 million member years

Physicians View Oral Mucositis Data as Potentially Applicable to Other Radiation-Related Toxicities



Other RT-related Mucositis

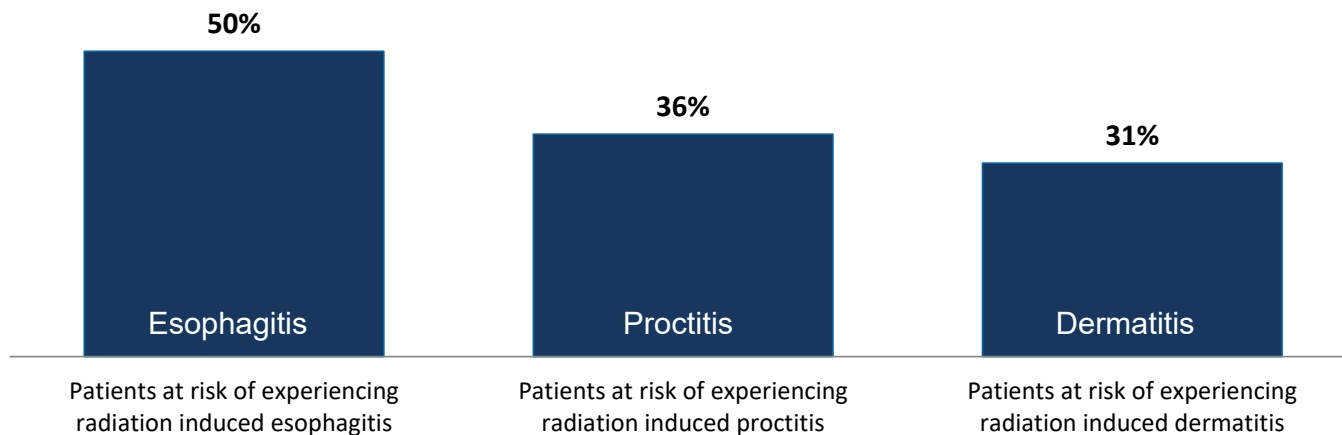
GC4419 for other RT-related Toxicities

- Over 50% cancer patients will get RT at some time in their treatment
- Several major cancers treated with RT (lung, prostate, breast)
- Largest potential usage for radiation induced esophagitis (out of conditions below)

Potential Usage in Other Radiation Associated Conditions *Maximum % of Patients with Other Conditions*

Question Patients with Other Conditions

Given the demonstrated ability of Product X to prevent radiation-induced toxicities in the oral mucosa, please indicate how you might use (maximum %) Product X for the following radiation associated conditions?

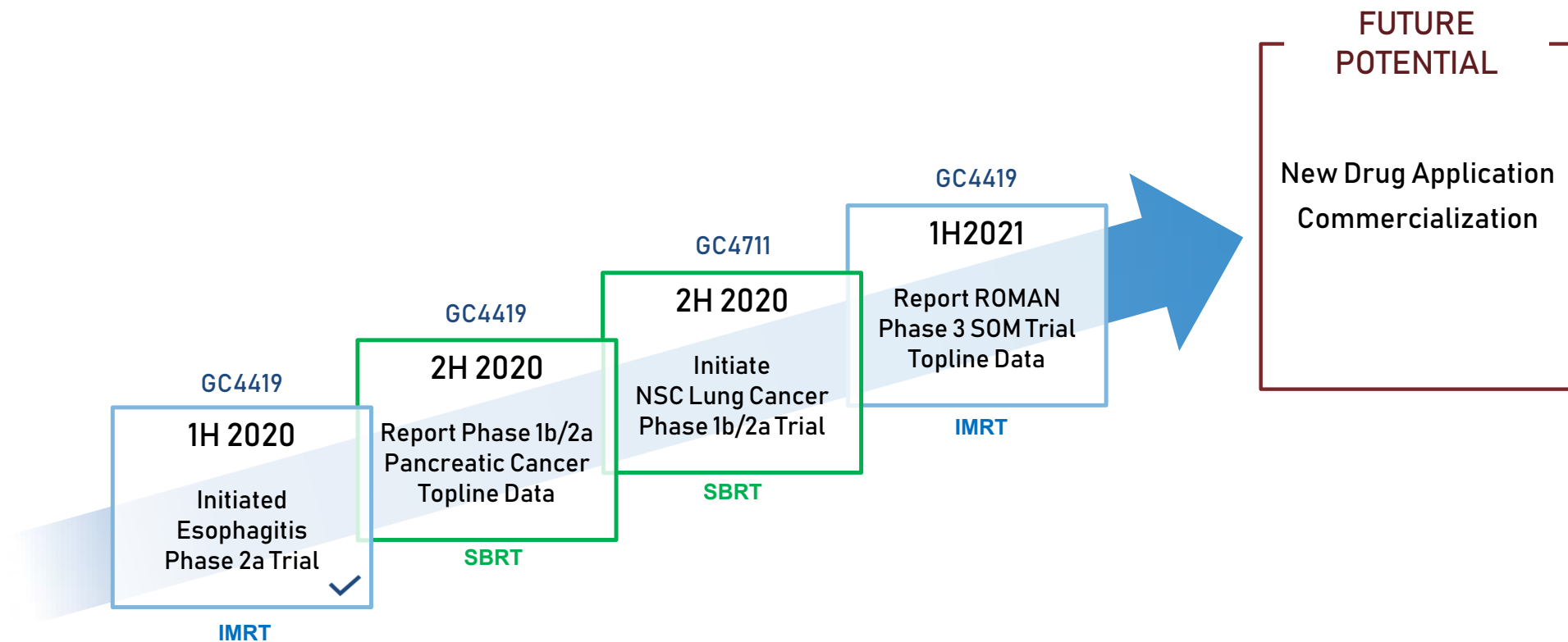




Summary



Near-term Potential Catalysts to Drive Future Value



Transforming Radiotherapy With Dismutase Mimetics

Reducing Toxicity

Rapid elimination of Superoxide ($O_2^{\cdot -}$)



Severe Oral Mucositis
in Head & Neck Cancer

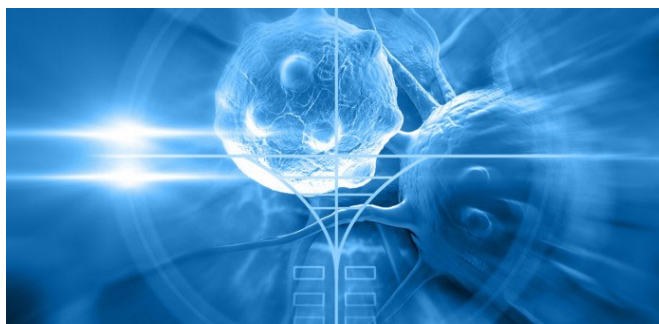


Esophagitis
in NSC Lung Cancer

IMRT

Other IMRT-related
Toxicities

Normal tissue toxicity limits
optimal radiotherapy treatment of tumor

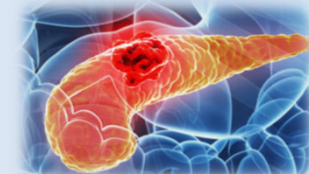


Over half of cancer patients
receive radiotherapy
as part of their care^{1, 2}

Increasing Anti-Cancer Efficacy

Increase H_2O_2 in tumors

Locally-Advanced
Pancreatic Cancer



Centrally-Located
NSC Lung Cancer



Other SBRT-Treated
Tumors

SBRT

Radiotherapy is standard-of-care for many local
tumors but need remains for greater efficacy

¹ Delaney G, Jacob S, Featherstone C, Barton M. The role of radiotherapy in cancer treatment... *Cancer*. 2005;104:1129-1137

² Begg AC, Stewart FA, Vens C. Strategies to improve radiotherapy with targeted drugs. *Nat Rev Cancer*. 2011;11:239-253