



UNLEASH PRECISION

AGAINST *NRG1*+ PANCREATIC ADENOCARCINOMA AND *NRG1*+ NSCLC¹

BIZENGRI[®] is an intravenous bispecific antibody that is the first and only targeted treatment for *NRG1*+ pancreatic adenocarcinoma^a and *NRG1*+ NSCLC^a

^aAdvanced unresectable or metastatic following progression on or after prior systemic therapy.

Bizengr1[®]
zenocutuzumab-zbco
20 mg/mL Injection for IV Use

NRG1+, neuregulin 1 fusion positive;
NSCLC, non–small cell lung cancer.

INDICATIONS

BIZENGRI is indicated for the treatment of adults with advanced unresectable or metastatic non-small cell lung cancer (NSCLC) harboring a neuregulin 1 (*NRG1*) gene fusion with disease progression on or after prior systemic therapy.

BIZENGRI is indicated for the treatment of adults with advanced unresectable or metastatic pancreatic adenocarcinoma harboring a neuregulin 1 (*NRG1*) gene fusion with disease progression on or after prior systemic therapy.

These indications are approved under accelerated approval based on overall response rate and duration of response. Continued approval for these indications may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

Please see additional Important Safety Information throughout and click [here](#) for full Prescribing Information, including BOXED WARNING.

IMPORTANT SAFETY INFORMATION

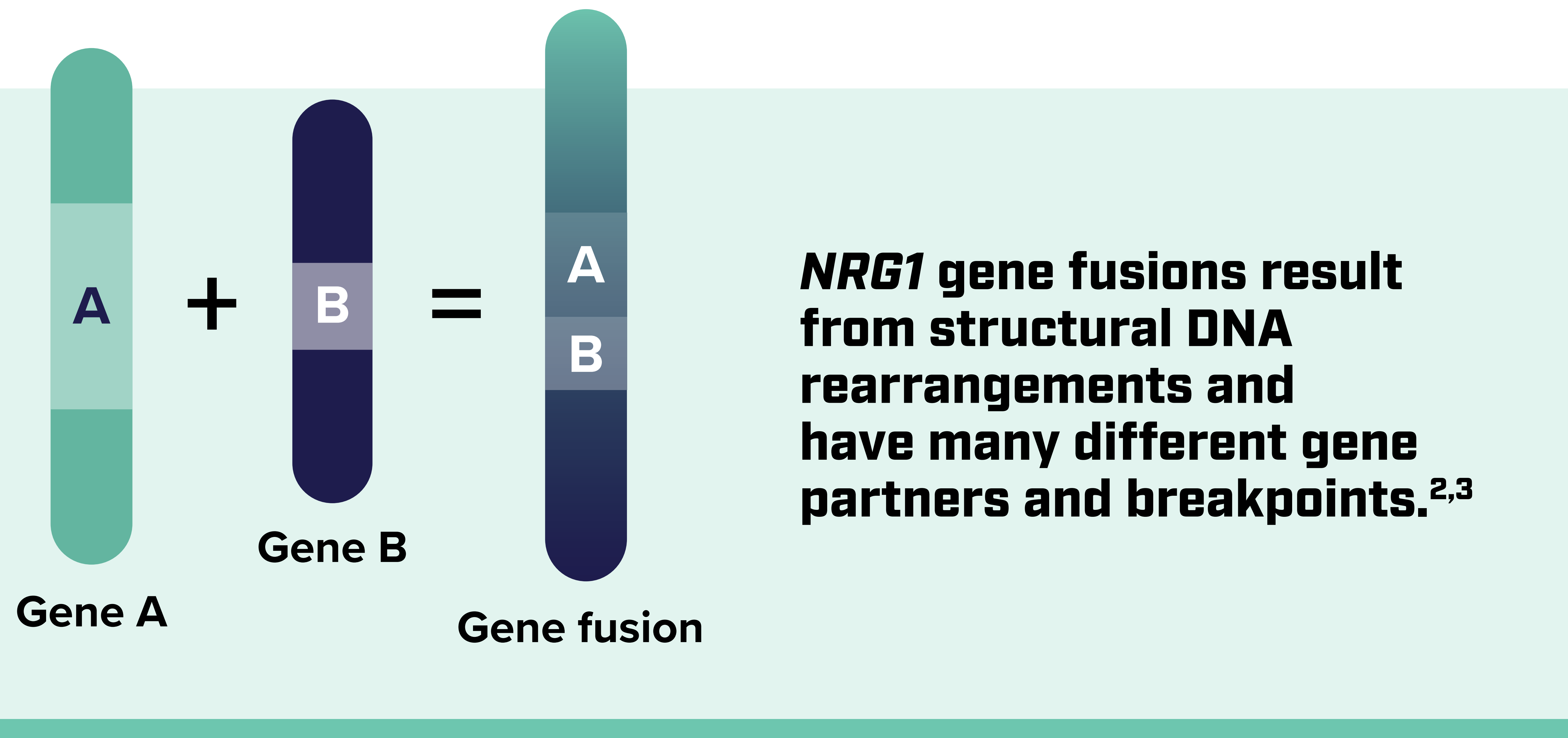
BOXED WARNING: EMBRYO-FETAL TOXICITY

Embryo-Fetal Toxicity: Exposure to BIZENGRI during pregnancy can cause embryo-fetal harm. Advise patients of this risk and the need for effective contraception.

From unknown to actionable: addressing *NRG1* fusions¹⁻³

***NRG1* fusions in NSCLC have aggressive features that are associated with a poor prognosis and resistance to many standard therapies^{3,4}**

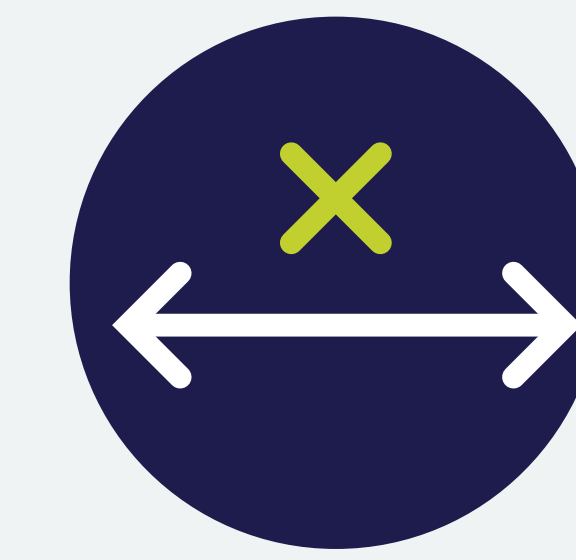
NRG1 is a signaling protein involved in cell proliferation and survival.^{3,5}



NRG1 gene fusions can



Cause overexpression of EGF-like domain of *NRG1* on the cell surface²



Lead to dysregulated signaling pathways and abnormal cell proliferation²



Induce formation of heterodimers between surface proteins²



Cause tumor growth, recurrence, invasiveness, and metastasis^{3,6}

EGF, epidermal growth factor; *NRG1*, neuregulin 1.

From unknown to actionable: addressing *NRG1* fusions¹⁻³ (continued)

NRG1 fusions have been identified across many solid tumors and typically occur without other oncogenic alterations^{4,7}

Pancreatic cancer

Overall incidence 0.5%-1.8% ^{7,8}	Enrichment: <i>KRAS</i> wild-type Up to 6% ⁹
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Lung cancer

Overall incidence 0.3%-1.7% ^{10,11}	Enrichment: Invasive mucinous adenocarcinoma 27%-31% ²
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Comprehensive detection of *NRG1* fusions with RNA-based NGS is crucial to drive treatment selection^{12,13}

RNA-based NGS includes both DNA and RNA sequencing and

NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) recommend



Is a high-throughput genomic sequencing technology that can detect a broad range of genomic alterations, including *NRG1* fusions^{14,15}



NGS testing to detect alterations, including *NRG1* fusions, in patients with locally advanced or metastatic pancreatic adenocarcinoma¹⁷



Can help detect *NRG1* fusions that may not be captured by DNA-based NGS; ctDNA; or conventional genomic testing methods, such as RT-PCR, FISH, and IHC¹²⁻¹⁶



Biomarker screening in appropriate patients with metastatic NSCLC prior to initiating therapy¹⁸

Test all patients with metastatic pancreatic adenocarcinoma or NSCLC with RNA-based NGS for genomic alterations at the time of diagnosis^{17,18}

➤ The eNRGy trial¹

Study design

eNRGy is a multicenter, open-label, multicohort clinical trial that enrolled adult patients with advanced or metastatic *NRG1*+ pancreatic adenocarcinoma or *NRG1*+ NSCLC who had progressed following standard-of-care treatment. A positive *NRG1* gene fusion status was identified through NGS assays. Thirty patients with *NRG1*+ pancreatic adenocarcinoma and 64 patients with *NRG1*+ NSCLC received BIZENGRI 750 mg IV Q2W until unacceptable toxicity or tumor progression. The major efficacy outcome measures were confirmed ORR and DOR, determined by blinded independent central review.

DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group Performance Status; IV, intravenous; ORR, overall response rate; PD-1, programmed cell death protein 1; PD-L1, programmed cell death ligand 1; Q2W, every 2 weeks.

IMPORTANT SAFETY INFORMATION (cont.)

WARNINGS AND PRECAUTIONS

Infusion-Related Reactions/Hypersensitivity/Anaphylactic Reactions

BIZENGRI can cause serious and life-threatening infusion-related reactions (IRRs), hypersensitivity and anaphylactic reactions. Signs and symptoms of IRR may include chills, nausea, fever, and cough.

In the eNRGy study, 13% of patients experienced IRRs, all were Grade 1 or 2; 91% occurred during the first infusion.

Please see additional Important Safety Information throughout and click [here](#) for full Prescribing Information, including **BOXED WARNING**.

Study demographics: pancreatic adenocarcinoma

NRG1+ pancreatic adenocarcinoma (n=30)^a

Age, y	
Median (range)	49 (21-72)
Sex, %	
Female	43
Race, %	
White	87
Asian	7
Black or African American	3.3
Other or not reported	3.3
Hispanic or Latino	3.3
ECOG PS, %	
0-1	100
Metastatic disease, %	100

90% compared with **10%**
of patients had *NRG1* fusions detected by RNA-based NGS^b DNA NGS

^aPatients with *NRG1*+ pancreatic adenocarcinoma received a median of 2 prior systemic therapies (range, 0-5), with 97% of patients receiving prior systemic therapies with FOLFIRINOX, gemcitabine/taxane-based therapy, or both.

^bRNA-based NGS includes both RNA and DNA NGS.

^cPatients with *NRG1*+ NSCLC received a median of 2 prior systemic therapies (range, 1-6). Ninety-five percent of these patients were previously treated with platinum chemotherapy, while 64% had prior anti-PD-1 or anti-PD-L1 therapy.

Study demographics: NSCLC

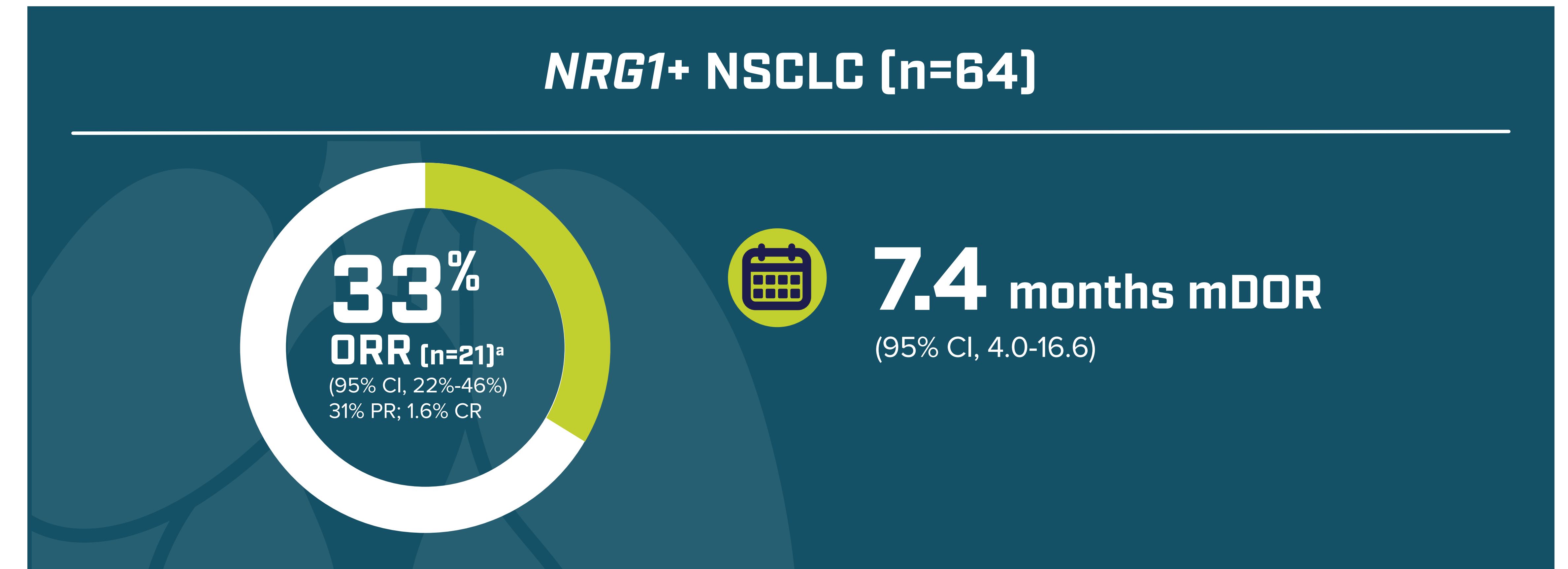
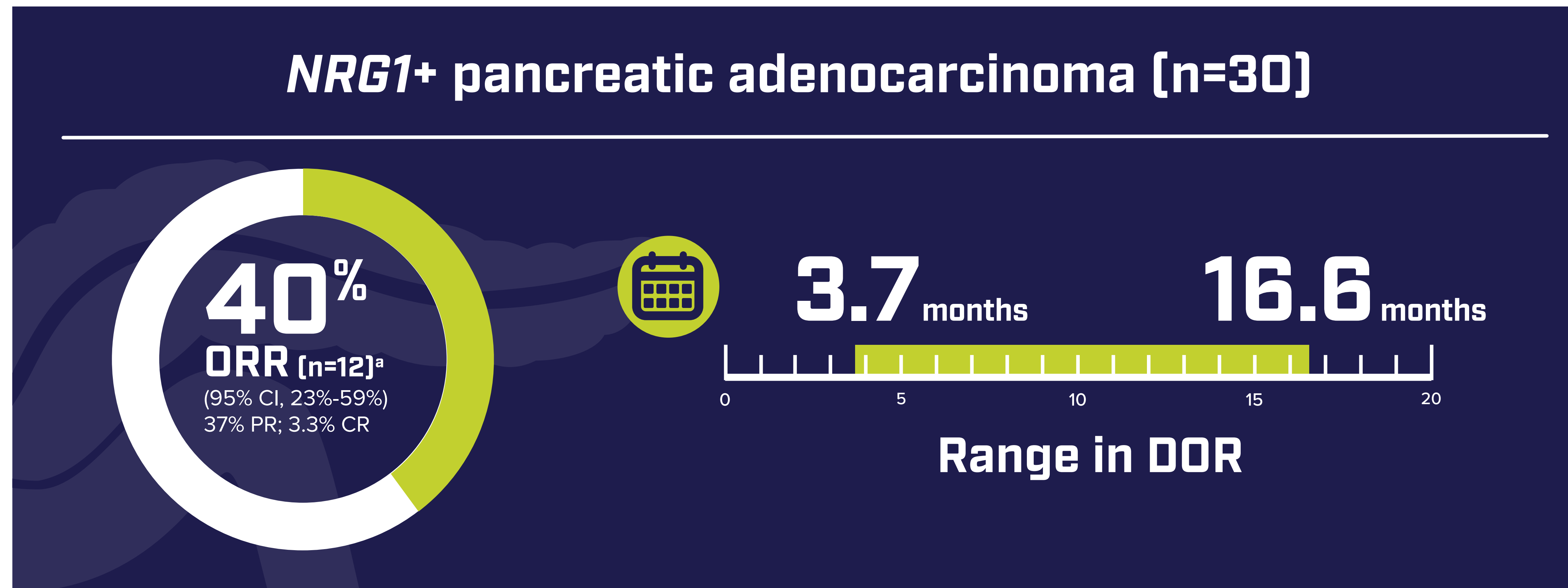
NRG1+ NSCLC (n=64)^c

Age, y	
Median (range)	64 (32-86)
Sex, %	
Female	64
Race, %	
White	33
Asian	56
Other or not reported	11
Hispanic or Latino	0
ECOG PS, %	
0-1	97
2	3
Metastatic disease, %	98

84% compared with **14%**
of patients had *NRG1* fusions detected by RNA-based NGS^b DNA NGS

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➤ Measurable and durable responses across both tumor types¹



CR, complete response; mDOR, median duration of response; PR, partial response.

^aConfirmed ORR assessed by blinded independent central review.

IMPORTANT SAFETY INFORMATION (cont.)

WARNINGS AND PRECAUTIONS (cont.)

Infusion-Related Reactions/Hypersensitivity/Anaphylactic Reactions (cont.)

Administer BIZENGR[®]I in a setting with emergency resuscitation equipment and staff who are trained to monitor for IRRs and to administer emergency medications. Monitor patients closely for signs and symptoms of infusion reactions during infusion and for at least 1 hour following completion of first BIZENGR[®]I infusion and as clinically indicated. Interrupt BIZENGR[®]I infusion in patients with ≤ Grade 3 IRRs and administer symptomatic treatment as needed. Resume infusion at a reduced rate after resolution of symptoms. Immediately stop the infusion and permanently discontinue BIZENGR[®]I for Grade 4 or life-threatening IRR or hypersensitivity/anaphylaxis reactions.

Interstitial Lung Disease/Pneumonitis

BIZENGR[®]I can cause serious and life-threatening interstitial lung disease (ILD)/pneumonitis. In the eNRGy study, ILD/pneumonitis occurred in 2 (1.1%) patients treated with BIZENGR[®]I. Grade 2 ILD/pneumonitis (Grade 2) resulting in permanent discontinuation of BIZENGR[®]I occurred in 1 (0.6%) patient. Monitor for new or worsening pulmonary symptoms indicative of ILD/pneumonitis (e.g., dyspnea, cough, fever). Immediately withhold BIZENGR[®]I in patients with suspected ILD/pneumonitis and administer corticosteroids as clinically indicated. Permanently discontinue BIZENGR[®]I if ILD/pneumonitis ≥ Grade 2 is confirmed.

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➤ Safety profile for patients with pancreatic adenocarcinoma or NSCLC in the eNRGy study¹

- In the pooled safety population, there were 99 patients with NSCLC, 39 patients with pancreatic adenocarcinoma, and 37 patients with other solid tumors
- The most common ($\geq 10\%$) adverse reactions were diarrhea, musculoskeletal pain, fatigue, nausea, IRRs, dyspnea, rash, constipation, vomiting, abdominal pain, and edema
- The most common grade 3 or 4 laboratory abnormalities ($\geq 2\%$) were increased GGT, decreased hemoglobin, decreased sodium, decreased platelets, increased AST, increased ALT, increased alkaline phosphatase, decreased magnesium, decreased phosphate, increased aPTT, and increased bilirubin
- The most common grade 3 or 4 adverse reactions included abdominal pain (5%), diarrhea (5%), fatigue (5%), nausea (5%), and hemorrhage (5%) in the pancreatic adenocarcinoma group, and dyspnea (5%), diarrhea (2%), and fatigue (2%) in the NSCLC group

Please see additional Important Safety Information below.

ALT, alanine aminotransferase; aPTT, activated partial thromboplastin time; AST, aspartate aminotransferase; GGT, gamma glutamyltransferase; IRR, infusion-related reaction.

^aExcludes temporary interruptions of BIZENGRI due to IRRs.

IMPORTANT SAFETY INFORMATION (cont.)

WARNINGS AND PRECAUTIONS (cont.)

Left Ventricular Dysfunction

BIZENGRI can cause left ventricular dysfunction.

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3% of patients in the NSCLC group discontinued BIZENGRI

- Adverse reactions resulting in permanent discontinuation of BIZENGRI included dyspnea, pneumonitis, and sepsis (n=1 each) in the NSCLC group
- Twenty-nine percent of patients with *NRG1+* NSCLC experienced an adverse reaction that resulted in a dosage interruption^a
- Thirty-three percent of patients with *NRG1+* pancreatic adenocarcinoma experienced an adverse reaction that resulted in a dosage interruption^a

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➤ Safety profile for patients with pancreatic adenocarcinoma or NSCLC in the eNRGy study¹

Adverse reactions ($\geq 10\%$) in patients with *NRG1*+ pancreatic adenocarcinoma

Adverse reaction ^a	BIZENGRI (n=39)		Adverse reaction ^a	BIZENGRI (n=39)	
	All grades, %	Grade 3 or 4, %		All grades, %	Grade 3 or 4, %
Gastrointestinal disorders			Infections and infestations		
Diarrhea	36	5	COVID-19	18	0
Nausea	23	5	Injury, poisoning, and procedural complications		
Vomiting	23	2.6	IRRs ^e	15	0
Abdominal pain	18	5	Vascular disorders		
Constipation	15	0	Hemorrhage ^f	13	5
Abdominal distension	13	0	Psychiatric disorders		
Stomatitis	10	0	Anxiety	10	0
Musculoskeletal and connective tissue disorders			Skin and subcutaneous tissue disorders		
Musculoskeletal pain ^b	28	2.6	Dry skin	10	0
General disorders and administration site conditions					
Fatigue ^c	21	5			
Edema ^d	13	0			
Pyrexia	10	0			

^aBased on NCI CTCAE v4.03 and MedDRA v26.0.

^bIncludes back pain, pain in extremity, musculoskeletal chest pain, myalgia, arthralgia, noncardiac chest pain, bone pain, musculoskeletal stiffness, neck pain, and spinal pain.

^cIncludes asthenia.

^dIncludes peripheral edema, face edema, localized edema, and peripheral swelling.

^eIncludes chills, IRR, nausea, cough, diarrhea, back pain, body temperature increased, dyspnea, face edema, fatigue, noncardiac chest pain, oropharyngeal discomfort, paresthesia, pyrexia, and vomiting.

^fIncludes epistaxis, hematochezia, hematuria, and hemorrhoidal hemorrhage.

MedDRA, Medical Dictionary for Regulatory Activities; NCI CTCAE, National Cancer Institute Common Terminology Criteria for Adverse Events.

IMPORTANT SAFETY INFORMATION (cont.)

WARNINGS AND PRECAUTIONS (cont.)

Left Ventricular Dysfunction (cont.)

Left ventricular ejection fraction (LVEF) decrease has been observed with anti-HER2 therapies, including BIZENGRI. Treatment with BIZENGRI has not been studied in patients with a history of clinically significant cardiac disease or LVEF less than 50% prior to initiation of treatment.

In the eNRGy study, Grade 2 LVEF decrease [Grade 2 LVEF decrease (40%-50%; 10 - 19% drop from baseline)] occurred in 2% of evaluable patients. Cardiac failure without LVEF decrease occurred in 1.7% of patients, including 1 (0.6%) fatal event.

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➤ Safety profile for patients with pancreatic adenocarcinoma or NSCLC in the eNRGy study¹

Adverse reactions (≥10%) in patients with NRG1+ NSCLC

Adverse reaction ^a	BIZENGRI (n=99)		Adverse reaction ^a	BIZENGRI (n=99)	
	All grades, %	Grade 3 or 4, %		All grades, %	Grade 3 or 4, %
Gastrointestinal disorders			Skin and subcutaneous tissue disorders		
Diarrhea ^b	25	2	Rash ^h	14	0
Nausea	10	1	Injury, poisoning, and procedural complications		
Musculoskeletal and connective tissue disorders			IRRs ⁱ	12	0
Musculoskeletal pain ^c	23	1	Metabolism and nutrition disorders		
Respiratory, thoracic, and mediastinal disorders			Decreased appetite	11	1
Dyspnea ^d	18	5			
Cough ^e	15	1			
General disorders and administration site conditions					
Fatigue ^f	17	2			
Edema ^g	11	0			

^aBased on NCI CTCAE v4.03 and MedDRA v26.0.

^bIncludes postprocedural diarrhea.

^cIncludes back pain, pain in extremity, musculoskeletal chest pain, myalgia, arthralgia, noncardiac chest pain, bone pain, musculoskeletal stiffness, neck pain, and spinal pain.

^dIncludes dyspnea exertional.

^eIncludes productive cough.

^fIncludes asthenia.

^gIncludes breast edema, peripheral edema, and face edema.

^hIncludes eczema, erythema, dermatitis, dermatitis contact, rash maculopapular, and rash erythematous.

ⁱIncludes chills, IRR, nausea, cough, diarrhea, back pain, body temperature increased, dyspnea, face edema, fatigue, noncardiac chest pain, oropharyngeal discomfort, paresthesia, pyrexia, and vomiting. AEs that were considered IRRs were counted under the composite term 'IRR,' irrespective of the reported PT.

AE, adverse event; PT, preferred term.

IMPORTANT SAFETY INFORMATION (cont.)

WARNINGS AND PRECAUTIONS (cont.)

Left Ventricular Dysfunction (cont.)

Before initiating BIZENGRI, evaluate LVEF and monitor at regular intervals during treatment as clinically indicated. For LVEF of less than 45% or less than 50% with absolute decrease from baseline of 10% or greater which is confirmed, or in patients with symptomatic congestive heart failure (CHF), permanently discontinue BIZENGRI.

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➤ BIZENGR¹ is a bispecific antibody¹

BIZENGR¹ binds to the extracellular domains of *HER2* and *HER3* expressed on the surface of cells, including tumor cells. BIZENGR¹ inhibits *HER2:HER3* dimerization and prevents *NRG1* binding to *HER3*.

BIZENGR¹ decreased cell proliferation and signaling through the PI3K-AKT-mTOR pathway.

In addition, BIZENGR¹ mediates ADCC. BIZENGR¹ showed antitumor activity in mouse models of *NRG1* fusion–positive lung and pancreatic cancers.

ADCC, antibody-dependent cellular cytotoxicity; *HER2*, human epidermal growth factor receptor 2; *HER3*, human epidermal growth factor receptor 3; MOA, mechanism of action; mTOR, mammalian target of rapamycin; PI3K, phosphoinositide 3-kinase.

IMPORTANT SAFETY INFORMATION (cont.)

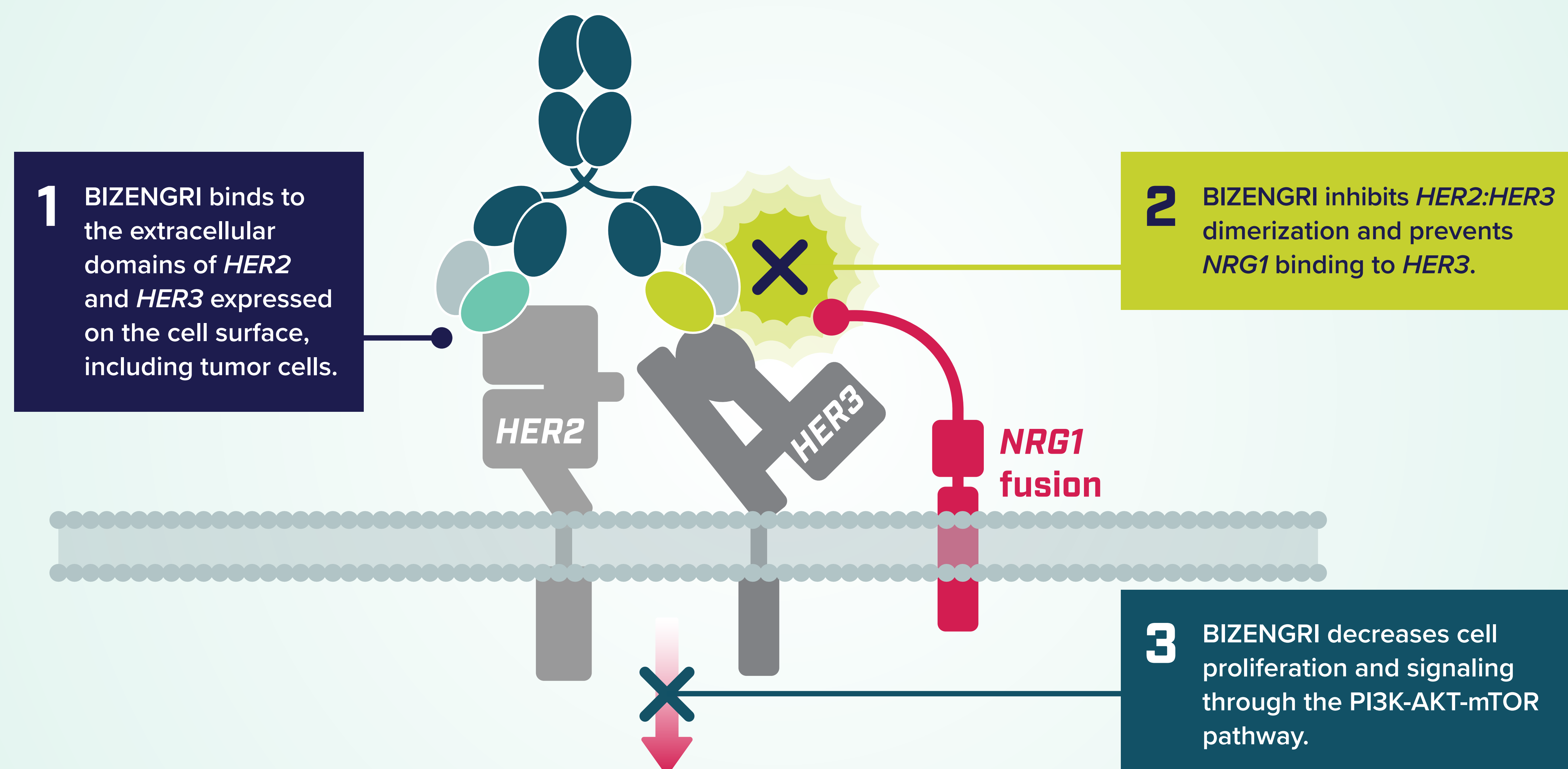
WARNINGS AND PRECAUTIONS (cont.)

Embryo-Fetal Toxicity

Based on its mechanism of action, BIZENGR¹ can cause fetal harm when administered to a pregnant woman. No animal reproduction studies were conducted with BIZENGR¹. In postmarketing reports, use of a HER2-directed antibody during pregnancy resulted in cases of oligohydramnios manifesting as fatal pulmonary hypoplasia, skeletal abnormalities, and neonatal death. In animal models, studies have demonstrated that inhibition of HER2 and/or HER3 results in impaired embryo-fetal development, including effects on cardiac, vascular and neuronal development, and embryolethality. Advise patients of the potential risk to a fetus. Verify the pregnancy status of females of reproductive potential prior to the initiation of BIZENGR¹. Advise females of reproductive potential to use effective contraception during treatment with BIZENGR¹ and for 2 months after the last dose.

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How BIZENGR¹ works



➤ Fixed biweekly dosing¹

750 mg IV  **every 2 weeks**

Administer the intravenous infusion over 4 hours.

Monitor patients closely for signs and symptoms of IRRs during the infusion and for at least 1 hour following completion of the first infusion and as clinically indicated.

IMPORTANT SAFETY INFORMATION (cont.)

ADVERSE REACTIONS

NRG1 Gene Fusion Positive Unresectable or Metastatic NSCLC

Serious adverse reactions occurred in 25% of patients with NRG1 Gene Fusion Positive NSCLC who received BIZENGRI. Serious adverse reactions in $\geq 2\%$ of patients included pneumonia (n=4) dyspnea and fatigue (n=2 each). Fatal adverse reactions occurred in 3 (3%) patients and included respiratory failure (n=2), and cardiac failure (n=1). Permanent discontinuation of BIZENGRI due to an adverse reaction occurred in 3% of patients. Adverse reactions resulting in permanent discontinuation of BIZENGRI included dyspnea, pneumonitis and sepsis (n=1 each).

In patients with NRG1 Gene Fusion Positive NSCLC who received BIZENGRI, the most common (>20%) Adverse Reactions, including laboratory abnormalities, were decreased hemoglobin (35%), increased alanine aminotransferase (30%), decreased magnesium (28%), increased alkaline phosphatase (27), decreased phosphate (26%) diarrhea (25%), musculoskeletal pain (23%), increased gamma-glutamyl transpeptidase (23%), increased aspartate aminotransferase (22%), and decreased potassium (21%).

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➤ Fixed biweekly dosing¹

No dose reduction is recommended for BIZENGRI.

Recommended BIZENGRI dosage modifications and management for adverse reactions

Adverse reaction	Recommendations	Adverse reaction	Recommendations
Grade 1, 2, or 3 IRRs	<ul style="list-style-type: none"> ➤ Interrupt infusion if IRR is suspected; monitor patient until symptoms resolve ➤ Provide symptomatic treatment as needed ➤ Resume infusion at 50% of the infusion rate at which the reaction occurred; escalate infusion rate if there are no additional symptoms ➤ Consider premedicating with a corticosteroid for subsequent infusions 	Left ventricular dysfunction	<p>LVEF is 45%-49% and absolute decrease from baseline \geq10% or LVEF <45%</p> <ul style="list-style-type: none"> ➤ Interrupt BIZENGRI ➤ Repeat LVEF assessment within 3 weeks ➤ If LVEF is <45% or LVEF has not recovered to within 10% from baseline, permanently discontinue BIZENGRI ➤ If LVEF is \geq50% or LVEF is 45%-49% and recovered to within 10% of baseline, resume BIZENGRI and monitor LVEF every 12 weeks while on treatment and as clinically indicated <p>Symptomatic CHF</p> <ul style="list-style-type: none"> ➤ Permanently discontinue BIZENGRI
Grade 4 IRR or any grade hypersensitivity/anaphylactic reaction	<ul style="list-style-type: none"> ➤ Permanently discontinue BIZENGRI 	Other clinically relevant adverse reactions (grade 3 or 4)	<ul style="list-style-type: none"> ➤ Withhold BIZENGRI until patient recovers to grade \leq1 or baseline ➤ Provide symptomatic treatment as needed ➤ Resume treatment after symptoms resolve
Interstitial lung disease/pneumonitis	<p>Grade 1</p> <ul style="list-style-type: none"> ➤ Interrupt infusion until recovery ➤ Consider prompt initiation of corticosteroids when diagnosis is suspected ➤ Resume treatment after symptoms resolve <p>Grade \geq2</p> <ul style="list-style-type: none"> ➤ Permanently discontinue BIZENGRI ➤ Promptly treat with corticosteroids 		

IMPORTANT SAFETY INFORMATION (cont.)

ADVERSE REACTIONS (cont.)

NRG1 Gene Fusion Positive Unresectable or Metastatic Pancreatic Adenocarcinoma

Serious adverse reactions occurred in 23% of patients with NRG1 Gene Fusion Positive Pancreatic Adenocarcinoma who received BIZENGRI.

There were 2 fatal adverse reactions, one due to COVID-19 and one due to respiratory failure.

In patients with NRG1 Gene Fusion Positive Pancreatic Adenocarcinoma who received BIZENGRI the most common (\geq 20%) adverse reactions, including laboratory abnormalities, were increased alanine aminotransferase (51%), diarrhea (36%), increased aspartate aminotransferase (31%), increased bilirubin (31%), decreased phosphate (31%), increased alkaline phosphatase (28%), decreased sodium (28%) musculoskeletal pain (28%), decreased albumin (26%), decreased potassium (26%), decreased platelets (26%), decreased magnesium (24%), increased gamma-glutamyl transpeptidase (23%), decreased hemoglobin (23%), vomiting (23%), nausea (23%), decreased leukocytes (21%), and fatigue (21%).

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Before initiating BIZENGRI, evaluate LVEF.

Prior to each infusion, administer the following premedications to reduce the potential risk of IRRs:



- Dexamethasone 10 mg (oral or IV)^a
- Acetaminophen 1000 mg (oral or IV)
- Dexchlorpheniramine 5 mg (oral or IV) or other anti-H1 equivalent

CHF, congestive heart failure; LVEF, left ventricular ejection fraction.

^aOptional after initial BIZENGRI infusion.

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➤ PTx Assist patient support

Help your patients in their treatment journey

PTx Assist provides comprehensive access and financial support resources to ensure your patients receive the care they need to get started on BIZENGRI.^a

- Enrollment Form
- Billing and Coding Guide
- BIZENGRI Sample Letter of Medical Necessity
- BIZENGRI Sample Appeals Letter
- BIZENGRI Product Fact Sheet

**For assistance, call 1-877-353-8546,
Monday-Friday, 9 AM-5 PM ET**

^aTerms and conditions apply. For eligible patients only.

PTxassist

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➤ Unleash precision with BIZENGRI¹



Focused on *NRG1* fusions



Proven efficacy across advanced unresectable or metastatic *NRG1*+ pancreatic adenocarcinoma and *NRG1*+ NSCLC who had progressed following standard-of-care treatment



Fixed dosing regimen for all patients



Explore further at
BIZENGRIhcp.com

INDICATIONS

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IMPORTANT SAFETY INFORMATION

BOXED WARNING: EMBRYO-FETAL TOXICITY

Embryo-Fetal Toxicity: Exposure to BIZENGRI during pregnancy can cause embryo-fetal harm. Advise patients of this risk and the need for effective contraception.


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20 mg/mL Injection for IV Use

➤ References

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