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A Clinician's Perspective of Elotuzumab in the Treatment of Relapsed or Refractory Multiple Myeloma

An interview with:



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See end for Dr. Richardson's industry-related disclosures.

INDICATION

EMPLICITI® (elotuzumab) is indicated in combination with lenalidomide and dexamethasone for the treatment of adult patients with multiple myeloma who have received one to three prior therapies.

EMPLICITI is indicated in combination with pomalidomide and dexamethasone for the treatment of adult patients with multiple myeloma who have received at least two prior therapies including lenalidomide and a proteasome inhibitor.

SELECTED IMPORTANT SAFETY INFORMATION

EMPLICITI with lenalidomide and dexamethasone (ERd) or pomalidomide and dexamethasone (EPd) is associated with Warnings and Precautions related to: Infusion Reactions, Infections, Second Primary Malignancies, Hepatotoxicity, Interference with Determination of Complete Response, Pregnancy/Females and Males of Reproductive Potential, and Adverse Reactions.

Please see detailed Important Safety Information on pages 6-7. Please see full Prescribing Information at the end of this article.

ON THE WEB: hematologyandoncology.net

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A Clinician's Perspective of Elotuzumab in the Treatment of Relapsed or Refractory Multiple Myeloma

Paul G. Richardson, MD

H&O How has the treatment landscape changed with the approval of elotuzumab + Pd (EPd) for relapsed or refractory multiple myeloma?

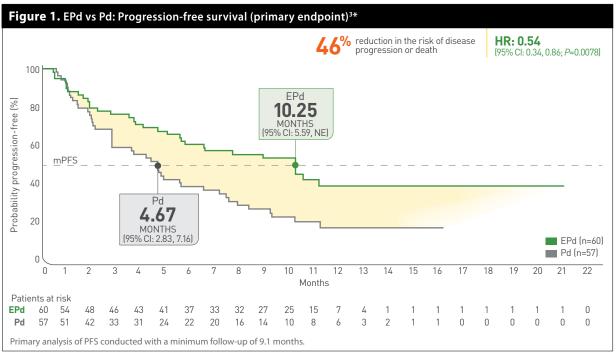
PGR Despite remarkable recent innovations with novel therapies for the treatment of multiple myeloma, the probability of relapse and development of refractory disease is high. This makes the results of combining elotuzumab with pomalidomide and low-dose dexamethasone (Pd) particularly encouraging. Pecifically, when used in adult patients who have received at least two prior therapies including lenalidomide and a proteasome inhibitor, this regimen both extended the time to disease progression or death and increased the overall response rate compared to Pd alone (Figures 1 and 2). To see such a meaningful clinical benefit for our patients is an important and significant milestone in my view.

H&O In what type of patient would you use elotuzumab + Pd?

PGR In order to meet treatment goals for patients in the relapsed or refractory setting, I look for a regimen with demonstrated efficacy, and so I strongly advise using elotuzumab + Pd in lenalidomide- and proteasome inhibitor-exposed patients who may benefit from a different backbone.

It's worth noting that elotuzumab + Pd was evaluated in a Phase 2, randomized, open-label clinical trial, ELOQUENT-3, and showed a 46% reduction in risk of disease progression or death for elotuzumab + Pd vs Pd alone, with a minimum follow-up of 9.1 months (Figure 1, HR 0.54; 95% CI: 0.34, 0.86; *P*=0.0078).³

Given my treatment goals for this patient type, I found the efficacy data for this trial particularly relevant. Results showed a doubling of median



^{*}Assessed by investigator.

Cl, confidence interval; HR, hazard ratio; NE, non-estimable.

Study design: A Phase 2, randomized, open-label clinical study of elotuzumab with pomalidomide and dexamethasone (EPd) vs Pd alone in patients with multiple myeloma (EPd, n=60; Pd, n=57). Patients must have received at least two prior lines of therapy, including lenalidomide and a proteasome inhibitor, and be refractory to the most recent therapy. The primary endpoint was PFS and the secondary endpoint was ORR, both as assessed by investigator.³

Please see Important Safety Information on pages 6-7 and ELOQUENT-3 adverse reactions on page 5.

progression-free survival (mPFS) compared to Pd alone, with patients receiving elotuzumab + Pd experiencing a median PFS of 10.25 months compared with 4.67 months for Pd (Figure 1, EPd, 95% CI: 5.59, NE; Pd, 95% CI: 2.83, 7.16).³

The overall response rate (ORR) also doubled, with 53.3% of patients receiving elotuzumab + Pd experiencing an overall response, compared with 26.3% for Pd (EPd, 95% CI: 40.0, 66.3; Pd, 95% CI: 15.5, 39.7; P=0.0029). 20% of EPd patients had a very good partial response (VGPR) or better (Figure 2).³

There is also evidence, based on a prespecified exploratory analysis, that elotuzumab + Pd demonstrated consistent PFS results across subgroups, including highrisk patients, making it an especially helpful addition to our therapeutic armamentarium (Figure 3).⁴

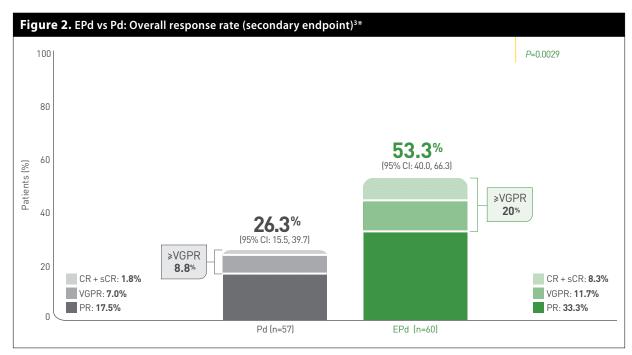
H&O What has your experience been with the adverse reactions associated with elotuzumab + Pd?

PGR My experience with adverse reactions related to elotuzumab + Pd has been consistent with the data from the clinical trials. Adverse reactions and laboratory abnormalities worsening from baseline that occurred in at least 10% of patients treated with EPd and demonstrated a 5% or higher incidence than in the Pd-alone

arm, as well as all-cause hematologic adverse events (AEs) and AEs of special interest, are shown in detail in Figure 4. The discontinuation rates due to adverse reactions related to elotuzumab + Pd were low, at 5% compared to 1.8% with a regimen of Pd alone.³ In the EPd trial, the rate of infusion reactions in the EPd treatment arm was 3.3%, and there were no Grade 3 or 4 infusion reactions.³ The only symptom of an infusion reaction observed was Grade 1 chest discomfort.³ All patients in the EPd trial who experienced an infusion reaction did so during the first treatment cycle, with no infusion reactions reported thereafter.³

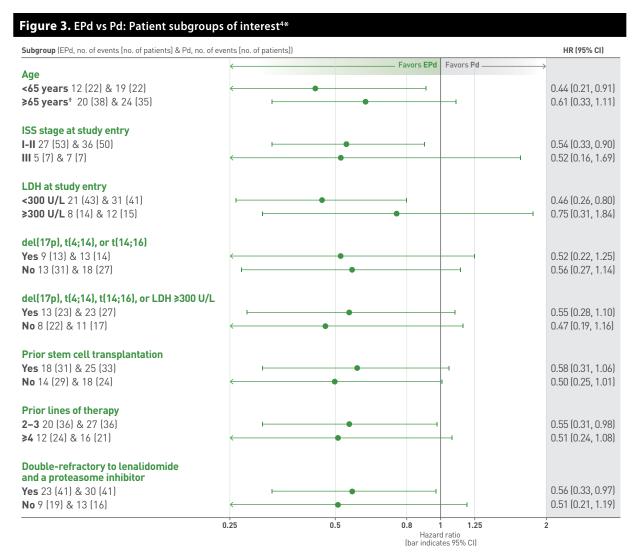
H&O What do you think about the current dosing schedule of elotuzumab + Pd for patients?

PGR While often not the primary driver of treatment decisions, frequency of dosing can be an important consideration when treating multiple myeloma. I think the dosing schedule for patients is manageable, as elotuzumab is administered once every four weeks starting with Cycle 3 onward, and pomalidomide and dexamethasone are administered as prescribed. I would refer you to the elotuzumab PI for the full dosing schedule, premedication, and other considerations, including dosing for pomalidomide and dexamethasone.



^{*}Assessed by investigator, using International Myeloma Working Group (IMWG) criteria. ORR includes stringent complete response, complete response, very good partial response, and partial response.

CR, complete response; PR, partial response; sCR, stringent complete response; VGPR, very good partial response.



*Based on an exploratory analysis.

†This study did not include sufficient numbers of subjects aged 65 years and older to determine whether they respond differently from younger subjects.

ISS, International Staging System; LDH, lactate dehydrogenase.

H&O Elotuzumab is also approved in combination with lenalidomide and dexamethasone (Rd) in adult patients who have received 1–3 prior therapies. When do you consider this treatment for your relapsed or refractory multiple myeloma patients?

PGR The efficacy and safety of elotuzumab in combination with Rd (ERd) vs Rd alone was evaluated in a Phase 3, randomized, open-label study of patients with multiple myeloma who had received one to three prior therapies (elotuzumab + Rd, n=321; Rd, n=325).³ For patients who are still sensitive or unexposed to lenalidomide, elotuzumab + Rd is a choice that has demonstrated a PFS benefit sus-

tained through 5 years, reducing the risk of progression or death by 27% vs Rd alone after a minimum follow-up of 60 months (HR 0.73; 95% CI: 0.60, 0.87). Importantly, elotuzumab + Rd was initially approved based on primary analyses of PFS conducted with a minimum follow-up of 2 years [mPFS: ERd: 19.4 months (95% CI: 16.6, 22.2); Rd: 14.9 months (95% CI: 12.1, 17.2); HR 0.70 (95% CI: 0.57, 0.85; P=0.0004)] and overall response rate [ERd: 78.5% (95% CI: 73.6, 82.9); Rd: 65.5% (95% CI: 60.1, 70.7; P=0.0002)]. $^{3\pm}$

Furthermore, in the ELOQUENT-2 study, the discontinuation rates due to adverse reactions of elotuzumab + Rd were comparable with a regimen of lenalidomide and

[†]Assessed by blinded Independent Review Committee per European Group for Blood and Marrow Transplantation (EBMT) response criteria. ORR includes complete response, very good partial response, and partial response.³

Figure 4. EPd vs Pd: Selected safety results ^{3,4*}				
		ades (%)		3-4 (%)
	EPd (n=60)	Pd (n=55)	EPd (n=60)	Pd (n=55
Adverse reactions ≥10% with EPd and ≥5% vs Pd (all Grade	es)			
Constipation	22	11	1.7	0
Hyperglycemia	20	15	8	7
Pneumonia [†]	18	13	10	11
Diarrhea	18	9	0	0
Respiratory tract infection	17	9	0	1.8
Bone pain	15	9	3.3	0
Dyspnea	15	7	3.3	1.8
Muscle spasms	13	5	0	0
Edema peripheral	13	7	0	0
Lymphopenia	10	1.8	8	1.8
Laboratory abnormalities worsening from baseline and ≥1	0% with EPd and >5% vs Pd			
Hematology				
Lymphopenia	98	91	70	35
Leukopenia	80	87	52	35
Thrombocytopenia	78	73	17	20
Liver and renal function tests				
Hypoalbuminemia	65	56	1.7	1.8
Chemistry				
Hypocalcemia	58	40	3.3	1.8
Hyperglycemia	40	25	3.3	1.8
Hyponatremia	40	18	5	0
Hypokalemia	23	16	5	3.6
All-cause hematologic and special interest adverse events	(AEs)‡			
Hematologic AEs§	52	55	38	42
Anemia	25	36	10	20
Neutropenia	23	31	13	27
Thrombocytopenia	15	18	8	5
Lymphopenia	10	2	8	2
Special interest AEs	10	-	Ü	
Infections	65	65	13	22
Vascular disorders	13	9	3	0
Cardiac disorders	12	11	7	4
Neoplasms ^{II}	2	22	2	11
Second primary malignancy	0	2	0	2

^{*}Based on a median of 9 cycles in the EPd arm and 5 cycles in the Pd arm.

dexamethasone alone (6.0% with ERd vs 6.3% with Rd alone).³ In this trial, 5% of patients required interruption of elotuzumab infusion, and 1% of patients discontinued due to infusion reactions.³

Figure 5 shows in more detail the adverse reactions and laboratory abnormalities worsening from baseline, which occurred in at least 10% of patients treated with ERd and that demonstrated a 5% or higher incidence than in the Rd-alone arm.³

H&O What makes elotuzumab one of your key choices in managing relapsed or refractory multiple myeloma?

PGR Elotuzumab + Pd provides an attractive option for managing relapse, with its encouraging PFS and ORR data and demonstrated safety profile. Based on the overall efficacy data from the ELOQUENT-3 trial, elotuzumab + Pd is an effective triplet regimen option that supports my treatment goals for relapsed or refractory multiple myeloma patients. These results, along with the long-term 5-year PFS benefit of elotuzumab + Rd vs Rd alone, suggest that this treatment strategy is an increasingly important option for our patients.

[†]The term pneumonia is a grouping of the following terms: pneumonia, atypical pneumonia, lower respiratory tract infection, pneumococcal sepsis, pneumonia bacterial, and pneumonia influenza.

[‡]Includes AEs reported between first dose and 60 days after last dose of study therapy.

[§]Includes hematologic AEs in ≥10% of patients.

Includes malignant, benign, and unspecified neoplasms. Grade 5 neoplasms were reported in five patients (9%) in the control group and in no patients in the elotuzumab group.

	All Gra	ides (%)	Grade 3	3-4 (%)
	ERd (n=318)	Rd (n=317)	ERd (n=318)	Rd (n=317)
Adverse reactions ≥10% with ERd and ≥5% vs Rd				
Primary term				
Fatigue [†]	62	52	13	12
Diarrhea	47	36	5.0	4.1
Pyrexia	37	25	2.5	2.8
Constipation	36	27	1.3	0.3
Cough [‡]	34	19	0.3	0
Peripheral neuropathy§	27	21	3.8	2.2
Nasopharyngitis	25	19	0	0
Upper respiratory tract infection	23	17	0.6	1.3
Decreased appetite	21	13	1.6	1.3
Pneumonia ^{II}	20	14	14	9
Pain in extremities	16	10	0.9	0.3
Headache	15	8	0.3	0.3
Vomiting	14	9	0.3	0.9
Weight decreased	14	6	1.3	0
Lymphopenia	13	7	9	3.2
Cataracts	12	6	6	2.8
Oropharyngeal pain	10	4	0	0
Laboratory abnormalities worsening from baselin	e and ≥10% with ERd and >5%	vs Rd		
Hematology				
Lymphopenia	99	98	77	49
Leukopenia	91	88	32	26
Thrombocytopenia	84	78	19	20
Liver and renal function tests				
Hypoalbuminemia	73	66	3.9	2.3
Elevated alkaline phosphatase	39	30	1.3	0
Chemistry				
Hyperglycemia	89	85	17	10
Hypocalcemia	78	77	11	4.7
Low bicarbonate	63	45	0.4	0
Hyperkalemia	32	22	7	1.6

^{*}Based on a median of 19 cycles in the ERd arm and 14 cycles in the Rd arm.

How EMPLICITI® (elotuzumab) is supplied

Elotuzumab is available as 300 mg and 400 mg lyophilized powder for injection, for intravenous use.

IMPORTANT SAFETY INFORMATION Infusion Reactions

- Infusion reactions were reported in 10% of patients treated with EMPLICITI in the ELOQUENT-2 trial [EMPLICITI + lenalidomide + dexamethasone (ERd) vs lenalidomide + dexamethasone (Rd)] and 3.3% in the ELOQUENT-3 trial [EMPLICITI + pomalidomide + dexamethasone (EPd) vs pomalidomide + dexamethasone (Pd)].
- In the ELOQUENT-2 trial, all infusion reactions were Grade 3 or lower, with Grade 3 infusion reactions occurring in 1% of patients. The most common symptoms included fever, chills, and hypertension. Bradycardia and hypotension also developed during infusions. In the trial, 5% of patients required interruption of the administration of EMPLICITI for a median of 25 minutes due to infusion reactions, and 1% of patients discontinued due to infusion reactions. Of the patients who experienced an infusion reaction, 70% (23/33) had them during the first dose.
- In the ELOQUENT-3 trial, the only infusion reaction symptom was chest discomfort (2%), which was

[†]The term fatigue is a grouping of the following terms: fatigue and asthenia.

^{*}The term cough is a grouping of the following terms: cough, productive cough, and upper airway cough.

[§]The term peripheral neuropathy is a grouping of the following terms: peripheral neuropathy, axonal neuropathy, peripheral motor neuropathy, peripheral sensory neuropathy, and polyneuropathy.

The term pneumonia is a grouping of the following terms: pneumonia, atypical pneumonia, bronchopneumonia, lobar pneumonia, bacterial pneumonia, fungal pneumonia, pneumonia influenza, and pneumococcal pneumonia.

- Grade 1. All the patients who experienced an infusion reaction had them during the first treatment cycle.
- If a Grade 2 or higher infusion reaction occurs, interrupt the EMPLICITI® (elotuzumab) infusion and institute appropriate medical and supportive measures. If the infusion reaction recurs, stop the EMPLICITI infusion and do not restart it on that day. Severe infusion reactions may require permanent discontinuation of EMPLICITI therapy and emergency treatment.
- Premedicate with dexamethasone, H1 blocker, H2 blocker, and acetaminophen prior to EMPLICITI infusion.

Infections

- In the ELOQUENT-2 trial (N=635), infections were reported in 81% of patients in the ERd arm and 74% in the Rd arm. Grade 3-4 infections were 28% (ERd) and 24% (Rd). Discontinuations due to infections were 3.5% (ERd) and 4.1% (Rd). Fatal infections were 2.5% (ERd) and 2.2% (Rd). Opportunistic infections were reported in 22% (ERd) and 13% (Rd). Fungal infections were 10% (ERd) and 5% (Rd). Herpes zoster was 14% (ERd) and 7% (Rd).
- In the ELOQUENT-3 trial (N=115), infections were reported in 65% of patients in both the EPd arm and the Pd arm. Grade 3-4 infections were reported in 13% (EPd) and 22% (Pd). Discontinuations due to infections were 7% (EPd) and 5% (Pd). Fatal infections were 5% (EPd) and 3.6% (Pd). Opportunistic infections were reported in 10% (EPd) and 9% (Pd). Herpes zoster was reported in 5% (EPd) and 1.8% (Pd).
- Monitor patients for development of infections and treat promptly.

Second Primary Malignancies

- In the ELOQUENT-2 trial (N=635), invasive second primary malignancies (SPM) were 9% (ERd) and 6% (Rd). The rate of hematologic malignancies was the same between ERd and Rd treatment arms (1.6%). Solid tumors were reported in 3.5% (ERd) and 2.2% (Rd). Skin cancer was reported in 4.4% (ERd) and 2.8% (Rd).
- In the ELOQUENT-3 trial (N=115), invasive SPMs were 0% (EPd) and 1.8% (Pd).
- Monitor patients for the development of SPMs.

Hepatotoxicity

• In the ELOQUENT-2 trial (N=635), AST/ALT >3X the upper limit, total bilirubin >2X the upper limit, and alkaline phosphatase <2X the upper limit were 2.5% (ERd) vs 0.6% (Rd). Of 8 patients experiencing hepatotoxicity, 2 patients discontinued treatment while 6 patients had resolution and continued. Monitor liver enzymes periodically. Stop EMPLICITI upon ≥Grade 3

elevation of liver enzymes. Continuation of treatment may be considered after return to baseline values.

Interference with Determination of Complete Response

• EMPLICITI is a humanized IgG kappa monoclonal antibody that can be detected on both the serum protein electrophoresis and immunofixation assays used for the clinical monitoring of endogenous M-protein. This interference can impact the determination of complete response and possibly relapse from complete response in patients with IgG kappa myeloma protein.

Pregnancy/Females and Males of Reproductive Potential

- There are no available data on EMPLICITI use in pregnant women to inform a drug-associated risk of major birth defects and miscarriage.
- There is a risk of fetal harm, including severe lifethreatening human birth defects, associated with lenalidomide and pomalidomide, and they are contraindicated for use in pregnancy. Refer to the respective product full prescribing information for requirements regarding contraception and the prohibitions against blood and/or sperm donation due to presence and transmission in blood and/or semen and for additional information.

Adverse Reactions

- ELOQUENT-2 trial:
 - Serious adverse reactions were 65% (ERd) and 57% (Rd). The most frequent serious adverse reactions in the ERd arm compared to the Rd arm were: pneumonia (15%, 11%), pyrexia (7%, 5%), respiratory tract infection (3.1%, 1.3%), anemia (2.8%, 1.9%), pulmonary embolism (3.1%, 2.5%), and acute renal failure (2.5%, 1.9%).
 - The most common adverse reactions in ERd and Rd, respectively (≥20%) were fatigue (62%, 52%), diarrhea (47%, 36%), pyrexia (37%, 25%), constipation (36%, 27%), cough (34%, 19%), peripheral neuropathy (27%, 21%), nasopharyngitis (25%, 19%), upper respiratory tract infection (23%, 17%), decreased appetite (21%, 13%), and pneumonia (20%, 14%).
- ELOQUENT-3 trial:
 - Serious adverse reactions were 22% (EPd) and 15% (Pd). The most frequent serious adverse reactions in the EPd arm compared to the Pd arm were: pneumonia (13%, 11%) and respiratory tract infection (7%, 3.6%).
 - The most common adverse reactions in EPd arm (≥20% EPd) and Pd, respectively, were constipation (22%, 11%) and hyperglycemia (20%, 15%).

References

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- 2. Richardson PG, Jagannath S, Moreau P, et al. Elotuzumab in combination with lenalidomide and dexamethasone in patients with relapsed multiple myeloma: final phase 2 results from the randomised, open-label, phase 1b-2 dose-escalation study. *Lancet Haematol.* 2015;2:e516–e527.
- 3. EMPLICITI [package insert]. Princeton, NJ: Bristol-Myers Squibb Company.
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- 5. Lonial S, Dimopoulos MA, Weisel K, et al. Extended 5-y follow-up (FU) of phase 3 ELOQUENT-2 study of elotuzumab + lenalidomide/dexamethasone (ELd) vs Ld in relapsed/refractory multiple myeloma (RRMM). Poster presentation at: American Society of Clinical Oncology (ASCO) Annual Meeting; June 1–5, 2018; Chicago, IL. Poster #8040.

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Faculty Disclosure

Dr. Richardson serves on advisory committees for Celgene, Takeda, Janssen, and Oncopeptides and receives research support from Bristol-Myers Squibb, Celgene, and Takeda.



HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use EMPLICITI safely and effectively. See full prescribing information for EMPLICITI.

EMPLICITI® (elotuzumab) for injection, for intravenous use

Initial U.S. Approval: 2015

RECENT MAJOR CHANGES				
Indications and Usage (1)	2018			
• ()	2018			
• • • • • • • • • • • • • • • • • • • •	2018			
INDICATIONS AND USAGE				

EMPLICITI is a SLAMF7-directed immunostimulatory antibody indicated in

- combination with lenalidomide and dexamethasone for the treatment of adult patients with multiple myeloma who have received one to three prior therapies. (1)
- combination with pomalidomide and dexamethasone for the treatment of adult patients with multiple myeloma who have received at least two prior therapies including lenalidomide and a proteasome inhibitor. (1)

----DOSAGE AND ADMINISTRATION

- With lenalidomide and dexamethasone: 10 mg/kg administered intravenously every week for the first two cycles and every 2 weeks thereafter until disease progression or unacceptable toxicity. (2.1)
- With pomalidomide and dexamethasone: 10 mg/kg administered intravenously every week for the first two cycles and 20 mg/kg every 4 weeks thereafter until disease progression or unacceptable toxicity. (2.2)
- Premedicate with dexamethasone, diphenhydramine, ranitidine and acetaminophen. (2.3)
- --- DOSAGE FORMS AND STRENGTHS-----For Injection: 300 mg or 400 mg lyophilized powder in a single-dose vial for
- reconstitution. (3)

------ CONTRAINDICATIONS ------

- ------WARNINGS AND PRECAUTIONS ------
- Infusion reactions: Premedication is required. Interrupt EMPLICITI (elotuzumab) for Grade 2 or higher and permanently discontinue for severe infusion reaction. (2.3, 2.4.5.1)
- Infections: Monitor for fever and other signs of infection and treat promptly. (5.2)
- Second Primary Malignancies (SPM): Higher incidences of SPM were observed in a controlled clinical trial of patients with multiple myeloma receiving EMPLICITI. (5.3)
- Hepatotoxicity: Monitor liver function and stop EMPLICITI if hepatotoxicity is
- Interference with determination of complete response: EMPLICITI can interfere with assays used to monitor M-protein. This interference can impact the determination of complete response. (5.5)

----- ADVERSE REACTIONS ------

Most common adverse reactions (20% or higher)

- with lenalidomide and dexamethasone are fatigue, diarrhea, pyrexia, constipation, cough, peripheral neuropathy, nasopharyngitis, upper respiratory tract infection, decreased appetite, pneumonia. (6.1)
- with pomalidomide and dexamethasone are constipation and hyperglycemia. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Bristol-Myers Squibb at 1-800-721-5072 or FDA at 1-800-FDA-1088 or <u>www.fda.gov/medwatch</u>. ---- USE IN SPECIFIC POPULATIONS ----

Pregnancy: Embryo-fetal toxicity in combination with lenalidomide and dexamethasone or pomalidomide and dexamethasone. (8.1)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling. Revised: 11/2018

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INDICATIONS AND USAGE

- EMPLICITI is indicated in combination with lenalidomide and dexamethasone for the treatment of adult patients with multiple myeloma who have received one to three prior therapies.
- EMPLICITI is indicated in combination with pomalidomide and dexamethasone for the treatment of adult patients with multiple myeloma who have received at least two prior therapies including lenalidomide and a proteasome inhibitor.

DOSAGE AND ADMINISTRATION 2

Recommended Dosing when EMPLICITI Is Used in Combination with 2.1 Lenalidomide and Dexamethasone

The recommended dosage of EMPLICITI is 10 mg/kg administered intravenously every week for the first two cycles (28-day cycle) and every 2 weeks thereafter in conjunction with the recommended dosing of lenalidomide and low-dose dexamethasone as described below. Continue treatment until disease progression or unacceptable toxicity.

Refer to the dexamethasone and lenalidomide prescribing information for additional

Administer premedications before each dose of EMPLICITI [see Dosage and Administration (2.3) and Warnings and Precautions (5.1).

Administer dexamethasone as follows:

- On days that EMPLICITI is administered, give dexamethasone 28 mg orally between 3 and 24 hours before EMPLICITI plus 8 mg intravenously between 45 and 90 minutes before FMPLICITI
- On days that EMPLICITI is not administered but a dose of dexamethasone is scheduled (Days 8 and 22 of cycle 3 and all subsequent cycles), give 40 mg orally.

The recommended dosing is presented in Table 1.

^{*}Sections or subsections omitted from the full prescribing information are not listed.

Table 1: Recommended Dosing Schedule of EMPLICITI in Combination with Lenalidomide and Dexamethasone

With Londingo	Will Editaliadinad and Editaliadina							
Cycle	28-D	28-Day Cycles 1 and 2			28-Day Cycles 3+			3+
Day of Cycle	1	8	15	22	1	8	15	22
Premedication*	√	/	√	√	√		✓	
EMPLICITI (mg/kg) intravenously	10	10	10	10	10		10	
Lenalidomide (25 mg) orally		Days	1-21		Days 1-21			
Dexamethasone [†] (mg) orally	28	28	28	28	28	40	28	40
Dexamethasone** (mg) intravenously	8	8	8	8	8		8	
Day of Cycle	1	8	15	22	1	8	15	22

^{*} Premedicate with the following 45 to 90 minutes prior to EMPLICITI infusion: 8 mg intravenous dexamethasone, H1 blocker: diphenhydramine (25 to 50 mg orally or intravenously) or equivalent; H2 blocker: ranitidine (50 mg intravenously) or equivalent; acetaminophen (650 to 1000 mg orally).

2.2 Recommended Dosing when EMPLICITI Is Used in Combination with Pomalidomide and Dexamethasone

The recommended dosage of EMPLICITI is 10 mg/kg administered intravenously every week for the first two cycles (28-day cycle). Starting at cycle 3 (28-day cycle), administer EMPLICITI 20 mg/kg intravenously every 4 weeks. Administer EMPLICITI in conjunction with pomalidomide and low-dose dexamethasone as described below (Table 2). Continue treatment until disease progression or unacceptable toxicity.

Refer to the dexamethasone and pomalidomide prescribing information for additional information

Administer premedications before each dose of EMPLICITI [see Dosage and Administration (2.3) and Warnings and Precautions (5.1)].

Administer dexamethasone as follows:

- On days that EMPLICITI is administered, for patients 75 years or younger give
 dexamethasone 28 mg orally between 3 and 24 hours before EMPLICITI plus
 8 mg intravenously between 45 and 90 minutes before EMPLICITI and for patients
 older than 75 years give dexamethasone 8 mg orally between 3 and 24 hours before
 EMPLICITI plus 8 mg intravenously between 45 and 90 minutes before EMPLICITI.
- On days that EMPLICITI is not administered but a dose of dexamethasone is scheduled (Days 8, 15 and 22 of cycle 3 and all subsequent cycles), give 40 mg orally to patients 75 years or younger and 20 mg orally to patients older than 75 years.

The recommended dosing is presented in Table 2.

Table 2: Recommended Dosing Schedule of EMPLICITI in Combination with Pomalidomide and Dexamethasone

Cycle	28-D	28-Day Cycles 1 and 2			28-Day Cycles 3+			
Day of Cycle	1	8	15	22	1	8	15	22
Premedication*	✓	✓	✓	✓	✓			
EMPLICITI (mg/kg) intravenously	10	10	10	10	20			
Pomalidomide (4 mg) orally		Days 1-21			Days 1-21			
Dexamethasone [†] (mg) orally ≤75 years old	28	28	28	28	28	40	40	40
Dexamethasone [†] (mg) orally >75 years old	8	8	8	8	8	20	20	20
Dexamethasone** (mg) intravenously	8	8	8	8	8			

^{*} Premedicate with the following 45 to 90 minutes prior to EMPLICITI infusion: 8 mg intravenous dexamethasone, H1 blocker: diphenhydramine (25 to 50 mg orally or intravenously) or equivalent; H2 blocker: ranitidine (50 mg intravenously) or equivalent; acetaminophen (650 to 1000 mg orally).

2.3 Premedication

Dexamethasone

When EMPLICITI is used in combination with lenalidomide or pomalidomide and dexamethasone, divide dexamethasone into an oral and intravenous dose and administer as shown in Table 1 and Table 2 [see Dosage and Administration (2.1, 2.2)].

Other Medications

In addition to dexamethasone, complete administration of the following medications 45 to 90 minutes prior to EMPLICITI infusion:

- H1 blocker: diphenhydramine (25 to 50 mg orally or intravenously) or equivalent H1 blocker
- H2 blocker: ranitidine (50 mg intravenously or 150 mg orally) or equivalent H2 blocker.
- · Acetaminophen (650 to 1000 mg orally).

2.4 Dose Modifications

If the dose of one drug in the regimen is delayed, interrupted, or discontinued, the treatment with the other drugs may continue as scheduled. However, if dexamethasone is delayed or discontinued, base the decision whether to administer EMPLICITI on clinical judgment (i.e., risk of hypersensitivity).

If a Grade 2 or higher infusion reaction occurs during EMPLICITI administration, interrupt the infusion and institute appropriate medical and supportive measures. Upon resolution to Grade 1 or lower, restart EMPLICITI at 0.5 mL per minute and gradually increase at a rate of 0.5 mL per minute every 30 minutes as tolerated to the rate at which the infusion reaction occurred. Resume the escalation regimen if there is no recurrence of the infusion reaction (see Table 3 and Table 4).

In patients who experience an infusion reaction, monitor vital signs every 30 minutes for 2 hours after the end of the EMPLICITI infusion. If the infusion reaction recurs, stop the EMPLICITI infusion and do not restart on that day [see Warnings and Precautions (5.1)]. Severe infusion reactions may require permanent discontinuation of EMPLICITI therapy and emergency treatment.

Dose delays and modifications for dexamethasone, pomalidomide and lenalidomide should be performed as recommended in their Prescribing Information.

2.5 Administration

Administer the entire EMPLICITI infusion with an infusion set and a sterile, nonpyrogenic, low-protein-binding filter (with a pore size of 0.2 to 1.2 micrometer) using an automated infusion pump.

Initiate EMPLICITI infusion at a rate of 0.5 mL per minute for 10 mg/kg dose. The infusion rate may be increased in a stepwise fashion as described in Table 3 if no infusion reactions develop. The maximum infusion rate should not exceed 5 mL per minute.

Table 3: Infusion Rate for EMPLICITI 10 mg/kg

Cycle 1, Dose 1		Cycle 1, D	ose 2	Cycle 1, Dose 3 and 4 and All Subsequent Cycl	
Time Interval	Rate	Time Interval	Rate	Rate	
0-30 min	0.5 mL/min	0-30 min	3 mL/min		
30-60 min	1 mL/min	30 min or more	4 mL/min	5 mL/min	
60 min or more	2 mL/min	-	-		

Initiate EMPLICITI infusion rate at 3 mL per minute for 20 mg/kg dose. The infusion rate may be increased in a stepwise fashion as described in Table 4 if no infusion reactions develop. The maximum infusion rate should not exceed 5 mL per minute.

Patients who have escalated to 5 mL/min at 10 mg/kg dose must decrease the rate to 3 mL/min at the first infusion at 20 mg/kg.

Table 4: Infusion Rate for EMPLICITI 20 mg/kg

Dose 1		Dose 2 and all subsequent doses
Time Interval	Rate	Rate
0-30 min	3 mL/min	
30 min or more	4 mL/min	5 mL/min

Adjust the infusion rate following a Grade 2 or higher infusion reaction [see Dosage and Administration (2.4)].

Do not mix EMPLICITI with, or administer as an infusion with, other medicinal products. No physical or biochemical compatibility studies have been conducted to evaluate the coadministration of EMPLICITI with other agents.

[†] Oral dexamethasone (28 mg) taken between 3 and 24 hours before EMPLICITI infusion.

^{**}Intravenous dexamethasone 45-90 minutes before EMPLICITI infusion.

[†] Oral dexamethasone taken between 3 and 24 hours before EMPLICITI infusion.

^{**}Intravenous dexamethasone 45-90 minutes before EMPLICITI infusion.

2.6 Reconstitution and Preparation

Calculation of Dose

- Calculate the dose (mg) and determine the number of vials needed for the 10 mg/kg and 20 mg/kg dosage based on patient weight.
- Determine the volume of sterile water for injection (SWFI) needed for reconstitution as shown in Table 5.

Table 5: Reconstitution Instructions for EMPLICITI

Strength	Amount of Sterile Water for Injection, USP Required for Reconstitution	Deliverable Volume of Reconstituted EMPLICITI in the Vial	Postreconstitution Concentration				
300 mg vial	13 mL	12 mL*	25 mg/mL				
400 mg vial	17 mL	16 mL*	25 mg/mL				

^{*} After reconstitution, each vial contains overfill to allow for withdrawal of 12 mL (300 mg) and 16 mL (400 mg), respectively.

Reconstitution

- Aseptically reconstitute each EMPLICITI vial with a syringe of adequate size and a
 less than or equal to 18-gauge needle (e.g., 17-gauge). A slight back pressure may
 be experienced during administration of the Sterile Water for Injection, USP, which
 is considered normal.
- Hold the vial upright and swirl the solution by rotating the vial to dissolve the
 lyophilized cake. Invert the vial a few times in order to dissolve any powder that may
 be present on top of the vial or the stopper. Avoid vigorous agitation. DO NOT SHAKE.
 The lyophilized powder should dissolve in less than 10 minutes.
- After the remaining solids are completely dissolved, allow the reconstituted solution
 to stand for 5 to 10 minutes. The reconstituted preparation results in a colorless to
 slightly yellow, clear to slightly opalescent solution. Parenteral drug products should
 be inspected visually for particulate matter and discoloration prior to administration,
 whenever solution and container permit. Discard the solution if any particulate
 matter or discoloration is observed.

Dilution

- Once the reconstitution is completed, withdraw the necessary volume for the calculated dose from each vial, up to a maximum of 16 mL from 400 mg vial and 12 mL from 300 mg vial.
- Further dilute with either 0.9% Sodium Chloride Injection, USP or 5% Dextrose Injection, USP, into an infusion bag made of polyvinyl chloride or polyolefin. The final infusion concentration should range between 1 mg/mL and 6 mg/mL.
- The volume of 0.9% Sodium Chloride Injection, USP or 5% Dextrose Injection, USP should be adjusted so as not to exceed 5 mL/kg of patient weight at any given dose of EMPLICITI.

Complete the EMPLICITI infusion within 24 hours of reconstitution of the EMPLICITI lyophilized powder. If not used immediately, the infusion solution may be stored under refrigeration conditions: 2° C to 8° C (3° F- 46° F) and protected from light for up to 24 hours (a maximum of 8 hours of the total 24 hours can be at room temperature, 2° C to 2° C [68° F- 77° F], and room light).

3 DOSAGE FORMS AND STRENGTHS

For injection: 300 mg or 400 mg of elotuzumab as a white to off-white lyophilized powder in a single-dose vial for reconstitution.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Infusion Reactions

EMPLICITI can cause infusion reactions. Infusion reactions were reported in 10% of patients treated with EMPLICITI in the ELOQUENT-2 trial and 3.3% in the ELOQUENT-3 trial. In the ELOQUENT-2 trial, all reports of infusion reaction were fixed 3 or lower. In the ELOQUENT-2 trial, Grade 3 infusion reactions occurred in 3% of patients. The most common symptoms of an infusion reaction included fever, chills, and hypertension. Bradycardia and hypotension also developed during infusions.

In the ELOQUENT-2 trial, 5% of patients required interruption of the administration of EMPLICITI for a median of 25 minutes due to infusion reactions, and 1% of patients discontinued due to infusion reactions. Of the patients who experienced an infusion reaction, 70% (23/33) had them during the first dose.

In the ELOQUENT-3 trial, the only infusion reaction symptom was chest discomfort (2%), which was Grade 1. All patients in the ELOQUENT-3 trial who experienced an infusion reaction had them during the first treatment cycle.

Administer premedication consisting of dexamethasone, antihistamines (H1 and H2 blockers) and acetaminophen prior to EMPLICITI infusion [see Dosage and Administration (2.3)]

Interrupt EMPLICITI infusion for Grade 2 or higher infusion reactions and institute appropriate medical management [see Dosage and Administration (2.4)].

5.2 Infections

In the ELOQUENT-2 trial (N=635), infections were reported in 81% of patients in EMPLICITI combined with lenalidomide and dexamethasone (E-Ld) arm and 74% in lenalidomide and dexamethasone (Ld). In the ELOQUENT-3 trial (N=115), infections were reported in 65% of patients in both EMPLICITI combined with pomalidomide and dexamethasone (E-Pd) arm and in pomalidomide and dexamethasone (Pd) arm. In the ELOQUENT-2 trial, Grade 3 to 4 infections were noted in 28% and 24% of E-Ld- and Ld-treated patients and in the ELOQUENT-3 trial, 13% and 22% of E-Pd- and Pd-treated patients, respectively. Discontinuations due to infections occurred in 3.5% of E-Ld-treated and 4.1% of Ld-treated patients in the ELOQUENT-2 trial and 7% of E-Pd-treated and 5% of Pd-treated patients in the ELOQUENT-3 trial. Fatal infections were reported in 2.5% and 2.2% of E-Ld- and Ld-treated patients in the ELOQUENT-3 trial.

Opportunistic infections were reported in 22% of patients in the E-Ld arm and 13% of patients in the Ld arm in the ELOQUENT-2 trial and 10% of patients in the E-Pd arm and 9% of patients in the Pd arm in the ELOQUENT-3 trial. In the ELOQUENT-2 trial, fungal infections occurred in 10% of patients in the E-Ld arm and 5% of patients in the Ld arm. Herpes zoster was reported in 14% of patients treated with E-Ld and 7% of patients treated with Ld in the ELOQUENT-2 trial and 5% of patients treated with E-Pd and 1.8% of patients treated with Pd in the ELOQUENT-3 trial.

Monitor patients for development of infections and treat promptly.

5.3 Second Primary Malignancies

In the ELOQUENT-2 trial (N=635), invasive second primary malignancies (SPM) have been observed in 9% of patients treated with E-Ld and 6% of patients treated with Ld and in the ELOQUENT-3 trial (N=115) in 1.8% of patients treated with Pd and in one of the patients treated with E-Pd. In the ELOQUENT-2 trial, the rate of hematologic malignancies were the same between E-Ld and Ld treatment arms (1.6%). Solid tumors were reported in 3.5% and 2.2% of E-Ld- and Ld-treated patients, respectively. Skin cancer was reported in 4.4% and 2.8% of patients treated with E-Ld and Ld, respectively.

Monitor patients for the development of second primary malignancies.

5.4 Hepatotoxicity

In the ELOQUENT-2 trial (N=635), elevations in liver enzymes (aspartate transaminase/alanine transaminase [AST/ALT] greater than 3 times the upper limit, total bilirubin greater than 2 times the upper limit, and alkaline phosphatase less than 2 times the upper limit) consistent with hepatotoxicity were reported in 2.5% and 0.6% of E-Ld- and Ld-treated patients. Two patients experiencing hepatotoxicity were not able to continue treatment; however, 6 out of 8 patients had resolution and were able to continue treatment. Monitor liver enzymes periodically. Stop EMPLICITI upon Grade 3 or higher elevation of liver enzymes. After return to baseline values, continuation of treatment may be considered.

5.5 Interference with Determination of Complete Response

EMPLICITI is a humanized IgG kappa monoclonal antibody that can be detected on both the serum protein electrophoresis (SPEP) and immunofixation (IFE) assays used for the clinical monitoring of endogenous M-protein [see Drug Interactions (7.2]]. This interference can impact the determination of complete response and possibly relapse from complete response in patients with IgG kappa myeloma protein.

6 ADVERSE REACTIONS

The following adverse reactions are described in detail in other sections of the label:

- Infusion reaction [see Warnings and Precautions (5.1)].
- Infections [see Warnings and Precautions (5.2)].
- Second Primary Malignancies [see Warnings and Precautions (5.3]].
- Hepatotoxicity [see Warnings and Precautions (5.4)].
- Interference with determination of complete response [see Warnings and Precautions (5.5)].

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

EMPLICITI in Combination with Lenalidomide and Dexamethasone [ELOQUENT-2]

The safety data described in this section are based on the ELOQUENT-2 study, a randomized, open-label clinical trial in patients with previously treated multiple myeloma. In ELOQUENT-2, EMPLICITI 10 mg/kg was administered with lenalidomide and dexamethasone [see Clinical Studies (14]]. For adverse reaction evaluation, EMPLICITI combined with lenalidomide and dexamethasone was compared with lenalidomide and dexamethasone alone.

The mean age of the population was 66 years and 57% of patients were 65 years of age or older. Sixty percent (60%) of the population were male, 84% were white, 10% were Asian, and 4% were black. The Eastern Cooperative Oncology Group (ECOG) performance status was 0 in 47%, 1 in 44%, and 2 in 9% of patients.

These data reflect exposure of 318 patients to EMPLICITI and 317 to control with a median number of cycles of 19 for EMPLICITI and 14 for control.

Serious adverse reactions were reported in 65% of patients treated on the EMPLICITI arm and 57% for patients treated on the control arm. The most frequent serious adverse reactions in the EMPLICITI arm compared to the control arm were: pneumonia (15% vs. 11%), pyrexia (7% vs. 5%), respiratory tract infection (3.1% vs. 1.3%), anemia (2.8% vs. 1.9%), pulmonary embolism (3.1% vs. 2.5%), and acute renal failure (2.5% vs. 1.9%).

The proportion of patients who discontinued any component of the treatment regimen due to adverse reactions as listed below was similar for both treatment arms; 6.0% for patients treated on the EMPLICITI arm and 6.3% for patients treated on the control.

Adverse reactions occurring at a frequency of 10% or higher in the EMPLICITI arm and 5% or higher than the lenalidomide and dexamethasone arm for the randomized trial in multiple myeloma are presented in Table 6.

Table 6: ELOQUENT-2: Adverse Reactions with a 10% or Higher Incidence for EMPLICITI-Treated Patients and a 5% or Higher Incidence than Lenalidomide and Dexamethasone-Treated Patients [All Grades]

		CITI + mide and		mide and thasone
		thasone 318	N=	317
Primary Term	All Grades	Grade 3/4	All Grades	Grade 3/4
Fatigue*	62	13	52	12
Diarrhea	47	5.0	36	4.1
Pyrexia	37	2.5	25	2.8
Constipation	36	1.3	27	0.3
Cough [†]	34	0.3	19	0
Peripheral Neuropathy‡	27	3.8	21	2.2
Nasopharyngitis	25	0	19	0
Upper Respiratory Tract Infection	23	0.6	17	1.3
Decreased Appetite	21	1.6	13	1.3
Pneumonia§	20	14	14	9
Pain in Extremities	16	0.9	10	0.3
Headache	15	0.3	8	0.3
Vomiting	14	0.3	9	0.9
Weight Decreased	14	1.3	6	0
Lymphopenia	13	9	7	3.2
Cataracts	12	6	6	2.8
Oropharyngeal Pain	10	0	4	0

^{*} The term fatigue is a grouping of the following terms: fatigue and asthenia.

Laboratory abnormalities worsening from baseline and occurring at a frequency of 10% or higher in the EMPLICITI group and 5% or higher than the lenalidomide and dexamethasone group (criteria met for all Grades or Grade 3/4) for ELOQUENT-2 are presented in Table 7.

Table 7: ELOQUENT-2: Laboratory Abnormalities Worsening from Baseline and with a 10% or Higher Incidence for EMPLICITI-Treated Patients and a 5% Higher Incidence than Lenalidomide and Dexamethasone-Treated Patients [Criteria met for All Grades or Grade 3/4]

	Lenalido	CITI + mide and thasone		mide and thasone
		318	N=	317
Laboratory Parameter	All Grades	Grade 3/4	All Grades	Grade 3/4
Hematology				
Lymphopenia	99	77	98	49
Leukopenia	91	32	88	26
Thrombocytopenia	84	19	78	20
Liver and Renal Function Tests				
Hypoalbuminemia	73	3.9	66	2.3
Elevated Alkaline Phosphatase	39	1.3	30	0
Chemistry				
Hyperglycemia	89	17	85	10
Hypocalcemia	78	11	77	4.7
Low Bicarbonate	63	0.4	45	0
Hyperkalemia	32	7	22	1.6

Vital sign abnormalities were assessed by treatment arm for the randomized trial in multiple myeloma and are presented in Table 8. Percentages are based on patients who had at least one vital sign abnormality any time during the course of study.

Table 8: ELOOUENT-2 Vital Sign Abnormalities

	EMPLICITI + Lenalidomide and Dexamethasone N=318	Lenalidomide and Dexamethasone N=317
Vital Sign Parameter	%	%
Systolic Blood Pressure ≥160 mmHg	33	21
Diastolic Blood Pressure ≥100 mmHg	17	12
Systolic Blood Pressure <90 mmHg	29	8
Heart Rate ≥100 bpm	48	30
Heart Rate <60 bpm	66	31

EMPLICITI in Combination with Pomalidomide and Dexamethasone [ELOQUENT-3]

The safety data described in this section are based on ELOQUENT-3, a randomized, open-label clinical trial in patients with previously treated multiple myeloma. In ELOQUENT-3, EMPLICITI 10 mg/kg and 20 mg/kg was administered with pomalidomide and dexamethasone [see Clinical Studies (14)]. For adverse reaction evaluation, EMPLICITI combined with pomalidomide and dexamethasone was compared with pomalidomide and dexamethasone alone.

The mean age of the population was 66 years and 63% of patients were 65 years of age or older. Fifty-seven percent of the population were male, 78% were white, 20% were Asian, and none were black. The ECOG performance status was 0 in 43%, 1 in 46%, and 2 in 10% of patients. These data reflect exposure of 60 patients to EMPLICITI and 55 to control with a median number of cycles of 9 for EMPLICITI and 5 for control.

Serious adverse reactions were reported in 22% of patients treated on the EMPLICITI arm and 15% for patients treated on the control arm. The most frequent serious adverse reactions in the EMPLICITI arm compared to the control arm were: pneumonia (13% vs. 11%) and respiratory tract infection (7% vs. 3.6%). The proportion of patients who discontinued any component of the treatment regimen due to adverse reactions were 5.0% of the patients in the EMPLICITI arm and 1.8% of the patients in the control arm.

Adverse reactions occurring at a frequency of 10% or higher in the EMPLICITI arm and 5% or higher than the pomalidomide and dexamethasone arm for the randomized trial in multiple myeloma are presented in Table 9.

 $^{^\}dagger$ The term cough is a grouping of the following terms: cough, productive cough, and upper airway cough.

[‡] The term peripheral neuropathy is a grouping of the following terms: peripheral neuropathy, axonal neuropathy, peripheral motor neuropathy, peripheral sensory neuropathy, and polyneuropathy.

[§] The term pneumonia is a grouping of the following terms: pneumonia, atypical pneumonia, bronchopneumonia, lobar pneumonia, bacterial pneumonia, fungal pneumonia, pneumonia influenza, and pneumococcal pneumonia.

Table 9: ELOQUENT-3: Adverse Reactions with a 10% or Higher Incidence for EMPLICITI-Treated Patients and a 5% or Higher Incidence than Pomalidomide and Dexamethasone-Treated Patients [All Grades]

		mide and	Pomalidomide and Dexamethasone		
		Dexamethasone N=60		:55	
Adverse Reaction	All Grades	Grade 3/4	All Grades	Grade 3/4	
Constipation	22	1.7	11	0	
Hyperglycemia	20	8	15	7	
Pneumonia*	18	10	13	11	
Diarrhea	18	0	9	0	
Respiratory Tract Infection	17	0	9	1.8	
Bone Pain	15	3.3	9	0	
Dyspnea	15	3.3	7	1.8	
Muscle Spasms	13	0	5	0	
Edema Peripheral	13	0	7	0	
Lymphopenia	10	8	1.8	1.8	

^{*} The term pneumonia is grouping of the following terms: pneumonia, atypical pneumonia, lower respiratory tract infection, pneumoccocal sepsis, pneumonia bacterial, pneumonia influenza.

Other clinically important adverse reactions reported in patients treated with EMPLICITI that did not meet the criteria for inclusion in Table 6 and 9 but occurred at a frequency of 5% or greater in the EMPLICITI group and at a frequency at least twice the control rate for the randomized trial in multiple myeloma are listed below:

General disorders and administration site conditions: chest pain, night sweats

Immune system disorders: hypersensitivity

Nervous system disorders: hypoesthesia

Psychiatric disorders: mood altered

Laboratory abnormalities worsening from baseline and occurring at a frequency of 10% or higher in ELOQUENT-3 in the EMPLICITI group and 5% or higher than the pomalidomide and dexamethasone group (criteria met for all Grades or Grade 3/4) for the randomized trial in multiple myeloma are presented in Table 10.

Table 10: ELOQUENT-3: Laboratory Abnormalities Worsening from Baseline and with a 10% or Higher Incidence for EMPLICITI-Treated Patients and a 5% Higher Incidence than Pomalidomide and Dexamethasone-Treated Patients [Criteria met for All Grades or Grade 3/4]

	Pomalido	EMPLICITI + Pomalidomide and Dexamethasone N=60		Pomalidomide and Dexamethasone N=55	
	N=				
Laboratory Parameter	All Grades	Grade 3/4	All Grades	Grade 3/4	
Hematology					
Lymphopenia	98	70	91	35	
Leukopenia	80	52	87	35	
Thrombocytopenia	78	17	73	20	
Liver and Renal Function Test	ts				
Hypoalbuminemia	65	1.7	56	1.8	
Chemistry					
Hypocalcemia	58	3.3	40	1.8	
Hyperglycemia	40	3.3	25	1.8	
Hyponatremia	40	5	18	0	
Hypokalemia	23	5	16	3.6	

Vital sign abnormalities were assessed by treatment arm for the randomized trial in multiple myeloma and are presented in Table 11. Percentages are based on all treated patients

Table 11: ELOQUENT-3: Vital Sign Abnormalities

	EMPLICITI + Pomalidomide and Dexamethasone	Pomalidomide and Dexamethasone	
	N=60	N=55	
Vital Sign Parameter	%	%	
Systolic Blood Pressure ≥160 mmHg	18	13	
Diastolic Blood Pressure ≥100 mmHg	8	4.0	
Systolic Blood Pressure <90 mmHg	7	7	
Heart Rate ≥100 bpm	23	24	
Heart Rate <60 bpm	43	22	

6.2 Immunogenicity

As with all therapeutic proteins, there is a potential for immunogenicity to EMPLICITI. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of incidence of antibodies to EMPLICITI in the studies described below with the incidences of antibodies in other studies or to other products may be misleading.

Of 390 patients across four clinical studies including ELOQUENT-2 and in 53 patients in the ELOQUENT-3 trial, who were treated with EMPLICITI and evaluable for the presence of anti-product antibodies, 72 patients (18.5%) in the four clinical trials and 19 patients (36%) in the ELOQUENT-3 trial tested positive for treatment-emergent anti-product antibodies by an electrochemiluminescent (ECL) assay. In 63 (88%) of the 72 patients in the four clinical trials, anti-product antibodies occurred within the first 2 months of the initiation of EMPLICITI treatment and resolved by 2 to 4 months in 49 (78%) patients. In the ELOQUENT-3 trial, in all 19 patients, anti-product antibodies occurred within the first 2 months of the initiation of EMPLICITI treatment and were resolved by 2 to 3 months in 18 (85%) patients.

Neutralizing antibodies post-treatment were detected in 19 of 299 patients in the four clinical trials and 2 of 53 patients in the ELOQUENT-3 trial who were evaluable for the presence of neutralizing antibodies.

7 DRUG INTERACTIONS

7.1 Drug Interactions

For important drug interactions involving lenalidomide, pomalidomide and dexamethasone, refer to their respective prescribing information.

7.2 Laboratory Test Interference

EMPLICITI may be detected in the SPEP and serum immunofixation assays of myeloma patients and could interfere with correct response classification. A small peak in the early gamma region on SPEP that is IgGk on serum immunofixation may potentially be attributed to EMPLICITI, particularly in patients whose endogenous myeloma protein is IgA, IgM, IgD, or lambda light chain restricted. This interference can impact the determination of complete response and possibly relapse from complete response in patients with IgG kappa myeloma protein [see Warnings and Precautions (5.5)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data on EMPLICITI use in pregnant women to inform a drug associated risk of major birth defects and miscarriage. Animal reproduction studies have not been conducted with elotuzumab.

EMPLICITI is administered in combination with lenalidomide and dexamethasone or pomalidomide and dexamethasone. Lenalidomide and pomalidomide can cause embryotetal harm and are contraindicated for use in pregnancy. Refer to the lenalidomide, pomalidomide and dexamethasone prescribing information for additional information. Lenalidomide and pomalidomide are only available through a REMS program.

The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

8.2 Lactation

Risk Summary

There are no data on the presence of EMPLICITI in human milk, the effects on the breastfed child, or the effects on milk production. Because of the potential for serious adverse reactions in the breastfed child from elotuzumab administered in combination with lenalidomide and dexamethasone or pomalidomide and dexamethasone, advise lactating women not to breastfeed during treatment with EMPLICITI. Refer to the lenalidomide, pomalidomide and dexamethasone prescribing information for additional information.

8.3 Females and Males of Reproductive Potential

Pregnancy Testing

Refer to the lenalidomide and pomalidomide labeling for pregnancy testing requirements prior to initiating treatment in females of reproductive potential.

When EMPLICITI is used with lenalidomide or pomalidomide, there is a risk of fetal harm, including severe life-threatening human birth defects associated with lenalidomide and pomalidomide, and the need to follow requirements regarding pregnancy avoidance, including testing.

Contraception

Females

Refer to the lenalidomide and pomalidomide labeling for contraception requirements prior to initiating treatment in females of reproductive potential.

Males

Lenalidomide and pomalidomide are present in the blood and semen of patients receiving the drug. Refer to the lenalidomide and pomalidomide full prescribing information for requirements regarding contraception and the prohibitions against blood and/or sperm donation due to presence and transmission in blood and/or semen and for additional information.

8.4 Pediatric Use

Safety and effectiveness have not been established in pediatric patients.

8.5 Geriatric Use

Of the 646 patients across treatment groups in the ELOQUENT-2 randomized trial designed to evaluate the use of EMPLICITI in combination with lenalidomide and low-dose dexamethasone in multiple myeloma, 57% were 65 years of age or older; the number of patients 65 years or older was similar between treatment groups. No overall differences in efficacy or safety were observed between patients 65 years or older and younger patients (less than 65 years of age).

Of the 117 patients across treatment groups in the ELOQUENT-3 randomized trial designed to evaluate the use of EMPLICITI in combination with pomalidomide and low-dose dexamethasone in multiple myeloma, 62% were 65 years of age or older; the number of patients 65 years or older was similar between treatment groups. This study did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

10 OVERDOSAGE

The dose of EMPLICITI at which severe toxicity occurs is not known. EMPLICITI does not appear to be removed by dialysis as determined in a study of patients with renal impairment.

In case of overdosage, monitor patients closely for signs or symptoms of adverse reactions and institute appropriate symptomatic treatment.

11 DESCRIPTION

Elotuzumab is a humanized recombinant monoclonal antibody directed to SLAMF7, a cell surface glycoprotein. Elotuzumab consists of the complementary determining regions (CDR) of the mouse antibody, MuLuc63, grafted onto human IgG1 heavy and kappa light chain frameworks. Elotuzumab is produced in NSO cells by recombinant DNA technology. Elotuzumab has a theoretical mass of 148.1 kDa for the intact antibody.

EMPLICITI (elotuzumab) is a sterile, nonpyrogenic, preservative-free lyophilized powder that is white to off-white, whole or fragmented cake in single-dose vials. EMPLICITI for Injection is supplied as 300 mg per vial and 400 mg per vial and requires reconstitution with Sterile Water for Injection, USP (13 mL and 17 mL, respectively) to obtain a solution with a concentration of 25 mg/mL. After reconstitution, each vial contains overfill to allow for withdrawal of 12 mL (300 mg) and 16 mL (400 mg). The reconstituted solution is colorless to slightly yellow, clear to slightly opalescent. Prior to intravenous infusion, the reconstituted solution is diluted with either 0.9% Sodium Chloride Injection, USP or 5% Dextrose Injection, USP [see Dosage and Administration (2.6]].

Each 300 mg single-dose vial of EMPLICITI also contains the following inactive ingredients: citric acid monohydrate (2.44 mg), polysorbate 80 (3.4 mg), sodium citrate (16.6 mg), and sucrose (510 mg).

Each 400 mg single-dose vial of EMPLICITI also contains the following inactive ingredients: citric acid monohydrate (3.17 mg), polysorbate 80 (4.4 mg), sodium citrate (21.5 mg), and sucrose (660 mg).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Elotuzumab is a humanized IgG1 monoclonal antibody that specifically targets the SLAMF7 (Signaling Lymphocytic Activation Molecule Family member 7) protein. SLAMF7 is expressed on myeloma cells independent of cytogenetic abnormalities. SLAMF7 is also expressed on Natural Killer cells, plasma cells, and at lower levels on specific immune cell subsets of differentiated cells within the hematopoietic lineage.

Elotuzumab directly activates Natural Killer cells through both the SLAMF7 pathway and Fc receptors. Elotuzumab also targets SLAMF7 on myeloma cells and facilitates the interaction with Natural Killer cells to mediate the killing of myeloma cells through antibody-dependent cellular cytotoxicity (ADCC). In preclinical models, the combination of elotuzumab and lenalidomide resulted in enhanced activation of Natural Killer cells that was greater than the effects of either agent alone and increased anti-tumor activity in vitro and in vivo.

12.2 Pharmacodynamics

Cardiac Electrophysiology

EMPLICITI does not prolong the QT interval to any clinically relevant extent when administered with lenalidomide and dexamethasone at the recommended dose or as monotherapy (at a dose 2 times the recommended dose).

12.3 Pharmacokinetics

Elotuzumab exhibits nonlinear pharmacokinetics (PK) resulting in greater than proportional increases in area under the concentration-time curve (AUC) indicative of target-mediated clearance. The administration of the recommended 10 mg/kg EMPLICITI regimen with lenalidomide and dexamethasone is predicted to result in geometric mean (CV%) steady-state trough concentrations of 194 μ g/mL (52%). The administration of the recommended EMPLICITI regimen with pomalidomide and dexamethasone is predicted to result in geometric mean (CV%) steady-state trough concentrations of 124 μ g/mL (59%).

Flimination

The clearance of elotuzumab in combination with lenalidomide and dexamethasone decreased from a geometric mean (CV%) of 17.5 (21.2%) to 5.8 (31%) mL/day/kg with an increase in dose from 0.5 (i.e., 0.0%) times the recommended dosage) to 20 mg/kg (i.e., 2 times the recommended dosage). When elotuzumab is administered with lenalidomide and dexamethasone, approximately 97% of the maximum steady-state concentration is predicted to be eliminated with a geometric mean (CV%) of 82.4 (48%) days. When elotuzumab is administered with pomalidomide and dexamethasone, approximately 97% of the maximum steady-state concentration is predicted to be eliminated with a geometric mean (CV%) of 78 (42%) days.

Specific Populations

Clinically significant differences were not observed in the PK of elotuzumab based on age (37 to 88 years), sex, race, baseline lactate dehydrogenase, albumin, renal impairment (creatinine clearance (CLcr) 15 to 89 mL/min), end-stage renal disease (CLcr <15 mL/min) with or without hemodialysis, mild hepatic impairment (total bilirubin \leq upper limit of normal (ULN) and aspartate transaminase (AST) > ULN OR total bilirubin 1 to 1.5 times the ULN and AST any value), and coadministration with lenalidomide/dexamethasone or pomalidomide/dexamethasone. The PK of elotuzumab in patients with moderate (total bilirubin > 1.5 to 3 times the ULN and AST any value) to severe (total bilirubin > 3 times the ULN and AST any value) hepatic impairment is unknown.

The clearance of elotuzumab increased with increasing body weight supporting a weight-based dose.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No carcinogenicity or mutagenicity data are available for elotuzumab in animals or humans. Fertility studies have not been performed for elotuzumab.

14 CLINICAL STUDIES

ELOQUENT-2 (NCT01239797)

The efficacy and safety of EMPLICITI in combination with lenalidomide and dexamethasone were evaluated in ELOQUENT-2, a randomized, open-label trial in patients with multiple myeloma who had received one to three prior therapies and had documented progression following their most recent therapy.

Eligible patients were randomized in a 1:1 ratio to receive either EMPLICITI in combination with lenalidomide and low-dose dexamethasone or lenalidomide and low-dose dexamethasone. Treatment was administered in 4-week cycles until disease progression or unacceptable toxicity. EMPLICITI 10 mg/kg was administered intravenously each week for the first 2 cycles and every 2 weeks thereafter. Prior to EMPLICITI infusion, dexamethasone was administered as a divided dose: an oral dose of 28 mg and an

intravenous dose of 8 mg. In the control group and on weeks without EMPLICITI, dexamethasone 40 mg was administered as a single oral dose weekly. Lenalidomide 25 mg was taken orally once daily for the first 3 weeks of each cycle. Assessment of tumor response was conducted every 4 weeks.

A total of 646 patients were randomized to receive treatment: 321 to EMPLICITI in combination with lenalidomide and low-dose dexamethasone and 325 to lenalidomide and low-dose dexamethasone.

Demographics and baseline disease characteristics were balanced between treatment arms. The median age was 66 years (range, 37-91); 57% of patients were 65 years or older; 60% of patients were male; whites comprised 84% of the study population, Asians 10%, and blacks 4%. The ECOG performance status was 0 in 47%, 1 in 44%, and 2 in 9% of patients, and ISS Stage was I in 43%, II in 32%, and III in 21% of patients. The cytogenetic categories of del 17p and t(4;14) were present in 32% and 9% of patients. The cytogenetic categories of del 17p and t(4;14) were present in 32% and 9% of patients, respectively. The median number of prior therapies was 2. Thirty-five percent (35%) of patients were refractory (progression during or within 60 days of last therapy) and 65% were relapsed (progression after 60 days of last therapy). Prior therapies included stem cell transplant (55%), bortezomib (70%), melphalan (65%), thalidomide (48%), and lenalidomide (6%).

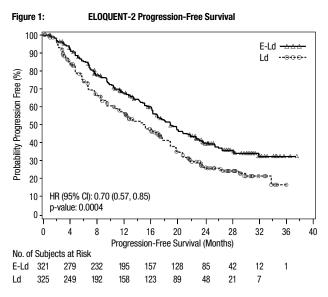
The efficacy of EMPLICITI was evaluated by progression-free survival (PFS) as assessed by hazard ratio, and overall response rate (ORR) as determined by a blinded Independent Review Committee using the European Group for Blood and Marrow Transplantation (EBMT) response criteria. Efficacy results are shown in Table 12 and Figure 1. The median number of treatment cycles was 19 for the EMPLICITI group and 14 for the comparator arm with a minimum follow-up of two years.

Overall survival (OS) results at interim analysis are shown in Table 12 and Figure 2. The OS results at interim analysis did not reach statistical significance.

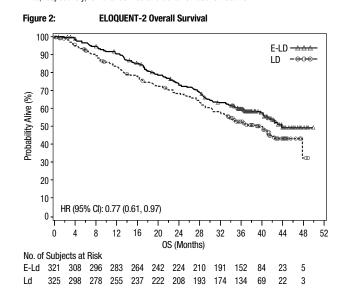
Table 12: ELOQUENT-2 Efficacy Results

	EMPLICITI + Lenalidomide/ Dexamethasone		Lenalidomide/ Dexamethasone	
	N=321		N=325	
PFS				
Hazard Ratio [95% CI]		0.70 [0.57, 0.85]		
Stratified log-rank test p-value*		0.0004		
Median PFS in months [95% CI]	19.4 [16.6, 22.2]		14.9 [12.1, 17.2]	
Response				
Overall Response (ORR) [†] n (%) [95% CI]	252 (78.5) [73.6, 82.9]		213 (65.5) [60.1, 70.7]	
p-value [‡]		0.0002		
Complete Response (CR + sCR) ^{†,§} n (%)	14 (4.4) [¶]		24 (7.4)	
Very Good Partial Response (VGPR) [†] n (%)	91 (28.3)		67 (20.6)	
Partial Response (PR) [†] n (%)	147 (45.8)		122 (37.5)	
Overall Survival ^g				
Hazard Ratio [95% CI]		0.77 [0.61, 0.97]		
Median OS in months [95% CI]	43.7 [40.3, NE]		39.6 [33.3, NE]	

^{*} p-value based on the log-rank test stratified by ß2 microglobulins (<3.5 mg/L vs ≥3.5 mg/L), number of prior lines of therapy (1 vs 2 or 3), and prior immunomodulatory therapy (no vs prior thalidomide only vs other).



The 1- and 2-year rates of PFS for EMPLICITI in combination with lenalidomide and dexamethasone treatment were 68% and 41%, respectively, compared with 57% and 27%, respectively, for lenalidomide and dexamethasone treatment.



ELOQUENT-3 (NCT02654132)

The efficacy and safety of EMPLICITI in combination with pomalidomide and dexamethasone were evaluated in ELOQUENT-3, a randomized, open-label trial in patients with relapsed or refractory multiple myeloma.

Eligible patients were randomized in a 1:1 ratio to receive either EMPLICITI in combination with pomalidomide and low-dose dexamethasone or pomalidomide and low-dose dexamethasone. Treatment was administered in 4-week cycles until disease progression or unacceptable toxicity. EMPLICITI 10 mg/kg was administered intravenously each week for the first 2 cycles and 20 mg/kg every 4 weeks thereafter.

Prior to EMPLICITI infusion, dexamethasone was administered. Dexamethasone was administered on day 1, 8, 15 and 22 of each cycle. On weeks with EMPLICITI infusion, dexamethasone was administered as a divided dose: subjects 75 years or younger, an oral dose of 28 mg and an intravenous dose of 8 mg, and in subjects older than 75 years an oral dose of 8 mg and an intravenous dose of 8 mg. On weeks without an EMPLICITI infusion and in the control group, dexamethasone was administered in subjects 75 years or younger as an oral dose of 40 mg and in subjects older than 75 years as an oral dose of 20 mg dexamethasone was administered orally. Assessment of tumor response was conducted every 4 weeks.

A total of 117 patients were randomized to receive treatment: 60 to EMPLICITI in combination with pomalidomide and low-dose dexamethasone and 57 to pomalidomide and low-dose dexamethasone.

[†] European Group for Blood and Marrow Transplantation (EBMT) criteria.

[‡] p-value based on the Cochran-Mantel-Haenszel chi-square test stratified by 62 microglobulins (<3.5 mg/L vs ≥3.5 mg/L), number of prior lines of therapy (1 vs 2 or 3), and prior immunomodulatory therapy (no vs prior thalidomide only vs other).

[§] Complete response (CR) + stringent complete response (sCR).

[¶] EMPLICITI's interference with the assessment of myeloma protein with immunofixation and serum protein electrophoresis assay may interfere with correct response classification [see Drug Interactions (7)].

⁹ A pre-specified interim analysis for OS was performed based on a minimum follow-up time of 35.4 months.

Demographics and baseline disease characteristics were balanced between treatment arms. The median age was 67 years (range, 36-81); 62% of patients were 65 years or older; 57% of patients were male; whites comprised 77% of the study population, Asians 21%, and blacks 1%. The ECOG performance status was 0 in 44%, 1 in 46%, and 2 in 10% of patients, and ISS Stage was I in 50%, II in 38%, and III in 12% of patients. The chromosomal lab abnormalities as determined by FISH of del 17p and t(4;14) were present in 5% and 11% of patients, respectively. The median number of prior therapies was 3. Eighty-seven percent (87%) of patients were refractory to lenalidomide, 80% refractory to a proteasome inhibitor, 70% were refractory to both lenalidomide and a proteasome inhibitor. Prior therapies included stem cell transplant (55%), bortezomib (100%), lenalidomide (99%), cyclophosphamide (66%), melphalan (63%), carfilzomib (21%), and daratumumab (3%).

The efficacy of EMPLICITI was evaluated by progression-free survival (PFS) and overall response rate (ORR) as determined by the investigator. Efficacy results are shown in Table 13 and Figure 3. The median number of treatment cycles was 9 for the EMPLICITI group and 5 for the comparator arm with a minimum follow-up of 9.1 months.

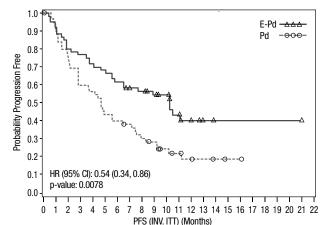
Table 13: ELOQUENT-3 Efficacy Results

	EMPLICITI + Pomalidomide/		Pomalidomide/ Dexamethasone
	Dexamethasone N=60		N=57
PFS			
Hazard Ratio [95% CI]		0.54 [0.34, 0.86]	
Stratified log-rank test p-value*		0.0078	
Median PFS in months [95% CI]	10.25 [5.59, NE]		4.67 [2.83, 7.16]
Response			
Overall Response (ORR) [†] n (%) [95% CI]	32 (53.3) [40.0, 66.3]		15 (26.3) [15.5, 39.7]
p-value [‡]		0.0029	
Complete Response (CR + sCR) ^{†,§} n (%)	5 (8.3)¶		1 (1.8)
Very Good Partial Response (VGPR) [†] n (%)	7 (11.7)		4 (7.0)
Partial Response (PR)† n (%)	20 (33.3)		10 (17.5)

^{*} p-value based on the log-rank test stratified by stage of disease at study entry (International Staging System I-II vs III) and number of prior lines of therapy (2-3 vs >=4) at randomization.

NE=Non-Estimable

Figure 3: ELOQUENT-3 Progression-Free Survival



Number of Subjects at Risk

E-Pd 60 54 48 46 43 41 37 33 32 27 25 15 7 4 1 1 1 1 1 1 1 1 1 Pd 57 51 42 33 31 24 22 20 16 14 10 8 6 3 2 1 1

16 HOW SUPPLIED/STORAGE AND HANDLING

EMPLICITI (elotuzumab) is white to off-white lyophilized powder available as follows:

Carton Content	NDC	
One 300 mg single-dose vial	0003-2291-11	
One 400 mg single-dose vial	0003-4522-11	

Store EMPLICITI under refrigeration at 2°C to 8°C (36°F-46°F). Protect EMPLICITI from light by storing in the original package until time of use. Do not freeze or shake.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Infusion Reactions

- EMPLICITI may cause infusion reactions. Advise patients to contact their healthcare
 provider if they experience signs and symptoms of infusion reactions, including
 fever, chills, rash, or breathing problems within 24 hours of infusion [see Warnings
 and Precautions (5.1)].
- Advise patients that they will be required to take the following oral medications prior to EMPLICITI dosing to reduce the risk of infusion reaction [see Dosage and Administration (2.3]:
 - · Dexamethasone orally as prescribed
 - H1 blocker: diphenhydramine or equivalent (if oral)
 - H2 blocker: ranitidine or equivalent (if oral)
 - Acetaminophen (650 to 1000 mg orally)

Pregnancy

 Advise patients that lenalidomide and pomalidomide have the potential to cause fetal harm and has specific requirements regarding contraception, pregnancy testing, blood and sperm donation, and transmission in sperm. Lenalidomide and pomalidomide are only available through a REMS program [see Use in Specific Populations (8.1).

Infections

 Inform patients of the risk of developing infections during treatment with EMPLICITI, and to report any symptoms of infection [see Warnings and Precautions (5.2)].

Second Primary Malignancies

 Inform patients of the risk of developing SPM during treatment with EMPLICITI [see Warnings and Precautions (5.3)].

Hepatotoxicity

 Inform patients of the risk of hepatotoxicity during treatment with EMPLICITI and to report any signs and symptoms associated with this event to their healthcare provider for evaluation [see Warnings and Precautions (5.4)].

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[†] International Myeloma Working Group (IMWG) criteria.

[‡] p-value based on the Cochran-Mantel-Haenszel chi-square test stratified by stage of disease at study entry (International Staging System I-II vs III) and number of prior lines of therapy (2-3 vs >=4) at randomization.

 $[\]S$ Complete response (CR) + stringent complete response (sCR).

[¶] EMPLICITI's interference with the assessment of myeloma protein with immunofixation and serum protein electrophoresis assay may interfere with correct response classification [see Drug Interactions (7)].

Patient Information EMPLICITI® (em-plis-city) (elotuzumab) for injection

EMPLICITI is used with other prescription medicines called REVLIMID[®] (lenalidomide) and dexamethasone or POMALYST[®] (pomalidomide) and dexamethasone. **Read the Medication Guide that comes with REVLIMID if used with REVLIMID and POMALYST if used with POMALYST.** You can ask your healthcare provider or pharmacist for information about dexamethasone.

What is EMPLICITI?

EMPLICITI is a prescription medicine used to treat:

- multiple myeloma in combination with the medicines REVLIMID (lenalidomide) and dexamethasone in adults who have received one to three prior treatments for their multiple myeloma.
- multiple myeloma in combination with the medicines POMALYST (pomalidomide) and dexamethasone in adults who
 have received at least two prior treatments including REVLIMID (lenalidomide) and a proteasome inhibitor.

It is not known if EMPLICITI is safe and effective in children.

Before you receive EMPLICITI, tell your healthcare provider about all of your medical conditions, including if you:

- have an infection
- are pregnant or plan to become pregnant. It is not known if EMPLICITI may harm your unborn baby. However, REVLIMID
 and POMALYST may cause birth defects or death of an unborn baby.
 - Before receiving EMPLICITI with REVLIMID and dexamethasone, or EMPLICITI with POMALYST and dexamethasone, females and males must agree to the instructions in the REVLIMID REMS® program for the use of EMPLICITI in combination with REVLIMID and dexamethasone and the POMALYST REMS® program for the use of EMPLICITI in combination with POMALYST and dexamethasone.
 - The REVLIMID REMS and POMALYST REMS programs have specific requirements about birth control (contraception), pregnancy testing, blood donation, and sperm donation that you need to know. Talk to your healthcare provider to learn more about REVLIMID or POMALYST.
- are breastfeeding or plan to breastfeed. It is not known if EMPLICITI passes into breast milk. You should not
 breastfeed during treatment with EMPLICITI and REVLIMID and dexamethasone or EMPLICITI and POMALYST and
 dexamethasone.
- Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How will I receive EMPLICITI?

- EMPLICITI will be given to you by intravenous (IV) infusion into your vein.
- Your EMPLICITI treatment schedule is divided into cycles that are 28 days (4 weeks) long. A cycle includes the number of days you are on treatment and also the time you spend resting in between treatments.
- EMPLICITI with REVLIMID and dexamethasone is usually given as follows:
 - o Cycles 1 and 2 (28 days per cycle), you will receive EMPLICITI one time every week.
 - o Cycles 3 and up (28 days per cycle), you will receive EMPLICITI one time every 2 weeks.

- EMPLICITI with POMALYST and dexamethasone is usually given as follows:
 - Cycle 1 and 2 (28 days per cycle), you will receive EMPLICITI one time every week.
 - Cycle 3 and up (28 days per cycle), you will receive EMPLICITI one time every 4 weeks.
- Your healthcare provider will decide how many treatments you will receive.
- Before every EMPLICITI infusion, you will receive medicines to help reduce the risk of infusion reactions.
- If you miss any appointments call your healthcare provider as soon as possible.

What are the possible side effects of EMPLICITI?

EMPLICITI may cause serious side effects, including:

 Infusion reactions. Infusion reactions can happen during your infusion or within 24 hours after your infusion of EMPLICITI. Your healthcare provider will give you medicines before each infusion of EMPLICITI to help reduce the risk of an infusion reaction.

If you have an infusion reaction while receiving EMPLICITI, your healthcare provider will slow or stop your infusion and treat your reaction. If you have a severe infusion reaction, your healthcare provider may stop your treatment completely. Tell your healthcare provider or get medical help right away if you have any of these symptoms after your infusion with EMPLICITI:

fever

o chills

o rash

chest pain

trouble breathing

dizziness

light-headedness

• Infections. People with multiple myeloma who receive EMPLICITI with REVLIMID and dexamethasone or EMPLICITI with POMALYST and dexamethasone may develop infections that can be serious. Tell your healthcare provider right away if you have any signs and symptoms of an infection, including:

o fever

flu-like symptoms

cough

o shortness of breath

o burning with urination

o a painful skin rash

- Risk of new cancers (malignancies). People with multiple myeloma who receive EMPLICITI with REVLIMID and
 dexamethasone or EMPLICITI with POMALYST and dexamethasone have a risk of developing new cancers. Talk with
 your healthcare provider about your risk of developing new cancers if you receive EMPLICITI. Your healthcare provider
 will check you for new cancers during your treatment with EMPLICITI.
- Liver problems. EMPLICITI may cause liver problems. Your healthcare provider will do blood tests to check your
 liver during treatment with EMPLICITI. Tell your healthcare provider if you have signs and symptoms of liver problems,
 including: tiredness, weakness, loss of appetite, yellowing of your skin or eyes, color changes in your stools, confusion,
 or swelling of the stomach area.

The most common side effects of EMPLICITI when used with REVLIMID and dexamethasone include:

- fatigue
- diarrhea
- fever
- constipation
- cough

- numbness, weakness, tingling, or burning pain in your arms or legs
- sore throat or runny nose
- upper respiratory tract infection
- decreased appetite
- pneumonia

The most common side effects of EMPLICITI when used with POMALYST and dexamethasone include:

- constipation
- high blood sugar

These are not all of the possible side effects of EMPLICITI.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Bristol-Myers Squibb at 1-800-721-5072.

EMPLICITI® (elotuzumab)

General information about the safe and effective use of EMPLICITI

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet.

You can ask your pharmacist or healthcare provider for information about EMPLICITI that is written for health professionals.

What are the ingredients of EMPLICITI?

Active ingredient: elotuzumab

Inactive ingredients: citric acid monohydrate, polysorbate 80, sodium citrate, sucrose

For more information, call 1-844-EMPLICITI (844-367-5424) or visit EMPLICITI.com.

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Manufactured by: Bristol-Myers Squibb Company, Princeton, NJ 08543 USA

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This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: 11/2018

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