



EPOCH TRIAL

Trial Conclusions

Trial Objective & Design

PRIMARY ENDPOINTS

Progression-Free Survival

SECONDARY ENDPOINTS

Overall Survival

Tumor Response

Hepatic Progression-Free Survival

Subgroup Analyses for PFS & hPFS

Time to Deterioration of Quality of Life

Time to Start of Subsequent Therapy

EPOCH is a level 1, phase III randomized controlled trial using transarterial radiation therapy for mCRC liver metastases that demonstrated statistically significant improvements in both Progression-Free Survival (PFS) and Hepatic Progression-Free Survival (hPFS) in patients who progressed on first-line chemotherapy.

Mulcahy, M. et al, Radioembolization With Chemotherapy for Colorectal Liver Metastases: A Randomized, Open-Label, International, Multicenter, Phase III Trial (EPOCH). Journal of Clinical Oncology, 20 Sept 2021.

TRIAL OBJECTIVE

To evaluate the safety and efficacy of TheraSphere Y-90 Glass Microspheres combined with second-line therapy (oxaliplatin- or irinotecan-based chemotherapy) in patients with mCRC of the liver.

TRIAL DESIGN

An open-label, prospective, multicenter, phase III trial of 428 patients randomized 1:1 to treatment arm (TheraSphere + second-line chemotherapy) vs. control arm (second-line chemotherapy alone) across 95 centers in 12 countries. including North America, Europe and Asia.

PRIMARY ENDPOINTS

Progression-free survival (PFS) and hepatic PFS (hPFS)

- Time from randomization to progression by RECIST 1.1 or death
- Blinded independent central

Key Eligibility Stratification **Treatment** Follow-Up Assessment N=215 Y-90 Glass + Chemotherapy¹ **±** targeted therapy Unresectable unilobar or bilobar colorectal metastases • Unilobar/Bilobar disease Able to receive second-line irinotecan or KRAS status irinotecan or oxaliplatin-based Disease progression Survival Randomized 1: · Irinotecan- or oxaliplatin-based chemotherapy / hepatic disease N=428 follow-up Measurable disease by RECIST 1.1 Oxaliplatinchemotherapy progression or death 95 sites • Performance status 0 or 1 based 1st-line • Bilirubin ≤1.2 upper limit of normal chemo • Albumin ≥ 3.0 gm/dL N=213 Chemotherapy ± targeted therapy Assessments every 8 weeks until death or end of study

- review (BICR)

Post-Hoc Subgroup Analyses

Hepatic Time to Progression

ADDITIONAL ANALYSES

Time to Progression

KEY PATIENT & DISEASE CHARACTERISTICS

^{1.} TARE with Y-90 glass microspheres (TheraSphere™, Boston Scientific Corporation). Cycle 1= chemotherapy, Y-90 TARE replaces Cycle 2, Cycle 3 resume chemotherapy ± targeted therapy. ClinicalTrials.gov Identifier: NCT01483027. Chauhan N, Mulcahy MF, Salem R, et al. JMIR Res Protoc. 2019;8(1):e11545. doi: 10.2196/11545.





EPOCH TRIAL CONCLUSIONS

- Both primary endpoints were successfully met. Patients receiving TheraSphere Y-90 with second-line chemo were:
 - 31% less likely to experience disease progression or death (due to any cause) vs. chemo alone
 - 41% less likely to experience hepatic disease progression or death (due to any cause) vs. chemo alone
- The addition of TheraSphere Y-90 to second-line chemotherapy increased median Time to Progression (TTP) by 2.1 months* and increased median Hepatic Time to Progression (hTTP) by 4.9 months*
- Patients receiving TheraSphere Y-90 with second-line chemotherapy showed an Objective Response Rate (ORR) of 34.0% vs. 21.1% for the control arm*
- The addition of TheraSphere Y-90 to second-line chemotherapy:
 - Extended median Time to Subsequent Therapy by 10.9 months*
 - Did not compromise patients' ability to receive chemotherapy ± biologics
 - Did not compromise Quality of Life
 - Did not increase chemotherapy-related adverse events and no new safety signals were identified
- Subgroups receiving TheraSphere Y-90 with second-line chemo showed improved benefit in PFS, hPFS, and additional time to deterioration of QoL vs. chemo alone, and also showed greater magnitude in benefit compared to the overall ITT population (Subgroup A: excludes ECOG 1 and CEA ≥35 ng/mL. Subgroup B: excludes ECOG 1, CEA ≥35 ng/mL, and KRAS-m)
- Post-hoc safety analyses of overall ITT population showed patients with <10% tumor volume replacement and/or >10 lesions treated with TheraSphere Y-90 + second-line chemo experienced more liver-related TEAEs. Sequential lobar treatment, as opposed to same day whole liver treatment, may mitigate liver-related TEAEs.

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TREATMENT CHARACTERISTICS, DOSIMETRY & SAFETY

*Indicates improvement in the treatment arm (TheraSphere + chemotherapy) compared to the control arm (chemotherapy alone) corresponding to 1-sided p < 0.025



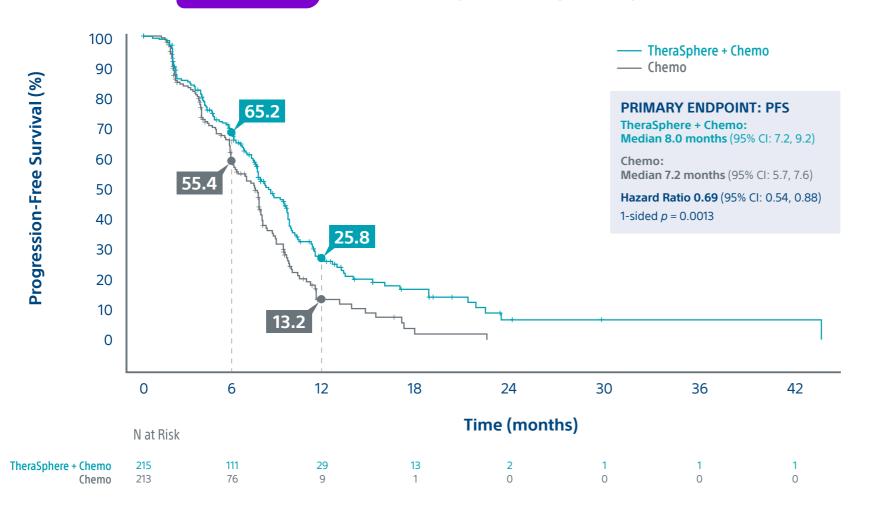


PRIMARY ENDPOINTS¹

EPOCH demonstrated statistically significant improvements in both primary endpoints of PFS and hPFS in patients with colorectal liver metastases.

Progression Free Survival 31%

Patients receiving TheraSphere with second-line chemo were **31% less likely** to experience disease progression or death (due to any cause) vs. chemo alone.



^{1.} Time from randomization to progression according to RECIST 1.1 by Blinded Independent Central Review (BICR) or death (due to any cause), whichever occurred first.

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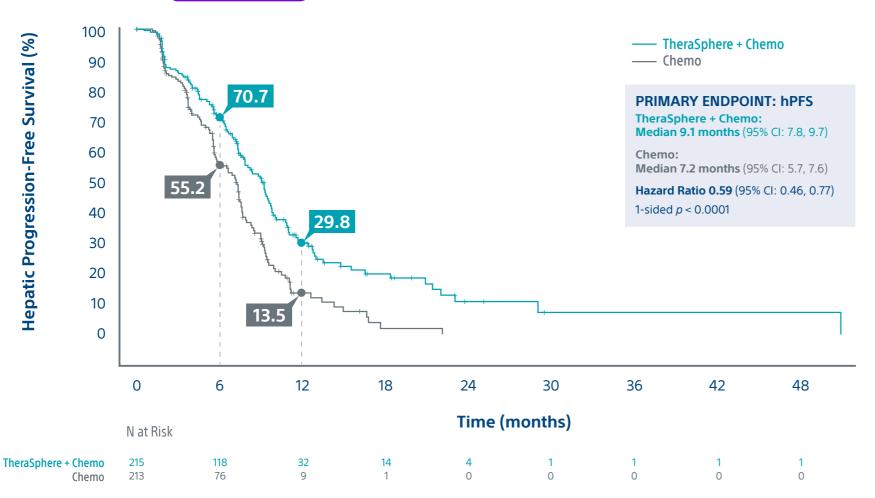
PRIMARY ENDPOINTS¹

EPOCH demonstrated statistically significant improvements in both primary endpoints of PFS and hPFS in patients with colorectal liver metastases.

Hepatic Progression Free Survival



Patients receiving TheraSphere with second-line chemo were 41% less likely to experience hepatic disease progression or death (due to any cause) vs. chemo alone.



^{1.} Time from randomization to hepatic progression according to RECIST 1.1 by Blinded Independent Central Review (BICR) or death (due to any cause), whichever occurred first.

DOSIMETRY & SAFETY

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TREATMENT CHARACTERISTICS,





			Favors TheraSphere Y-90 + Chemo Favors Chemo	
Subgroup	TheraSphere + Chemo	Chemo	0.25 0.50 0.75 1.00 1.25	Hazard Ratio (95% CI)
Overall	215	213		0.69 (0.54, 0.88) 0.59 (0.46, 0.77)
Age				
Age ≥18 to ≤65 years	126	132		0.65 (0.47, 0.90) 0.56 (0.41, 0.78)
Gender				
Males	135	138		0.66 (0.49, 0.90) 0.58 (0.43, 0.80)
Females	80	75	<u> </u>	0.74 (0.48, 1.12) 0.59 (0.38, 0.92)
Unilobar or Bilobar Dis	ease at baseline			
Bilobar	176	173	 	0.71 (0.54, 0.93) 0.61 (0.46, 0.80)
Unilobar	39	40		0.59 (0.32, 1.09) 0.55 (0.29, 1.03)
KRAS				
KRAS mutation	100	101		0.57 (0.40, 0.80) 0.50 (0.35, 0.72)
KRAS wild type	115	112	<u> </u>	0.79 (0.55, 1.12) 0.68 (0.47, 0.97)
Location of primary tur	mors at time of fir	st diagnosis of	primary CRC	
Right Side	49	61	├────────	0.74 (0.46, 1.20) 0.60 (0.36, 0.98)
Left Side	150	136	├──®	0.65 (0.48, 0.88) 0.59 (0.44, 0.81)

Continued

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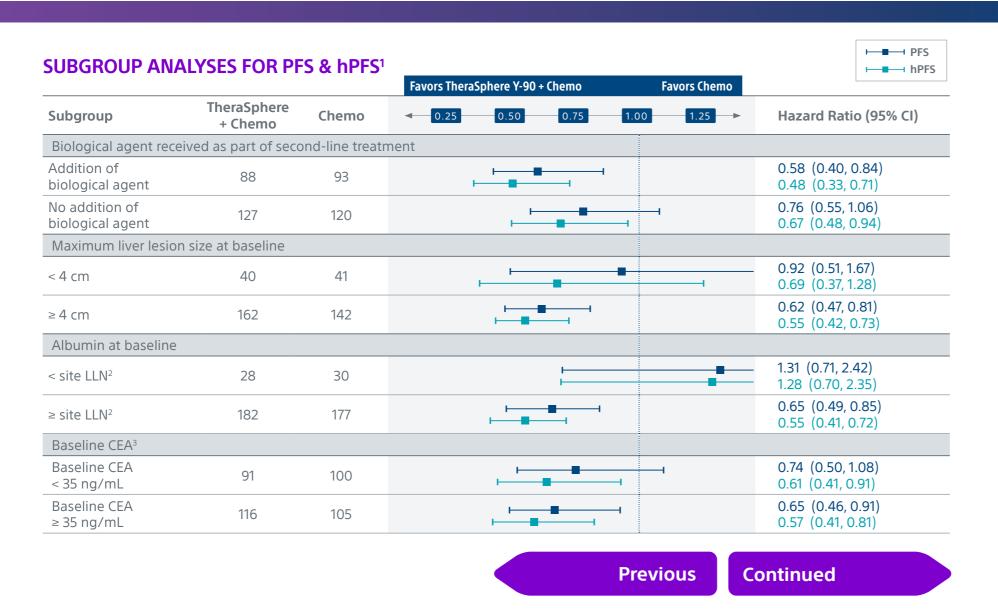
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^{1.} According to RECIST 1.1 by Blinded Independent Central Review (BICR).







^{3.} CEA = carcinoembryonic antigen.

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¹ According to PECIST 11 by Plinded Indonendant Control Pavious (PICP)

^{2.} LLN = lower limit of normal





PFS SUBGROUP ANALYSES FOR PFS & hPFS1 hPFS Favors TheraSphere Y-90 + Chemo **Favors Chemo** TheraSphere Hazard Ratio (95% CI) Subgroup Chemo 0.25 0.50 1.25 → 0.75 1.00 + Chemo Liver tumor burden at baseline by BICR 0.76 (0.55, 1.05) < 10% 121 124 0.62 (0.44, 0.86) 0.43 (0.26, 0.72) ≥ 10 to < 25% 54 47 0.43 (0.26, 0.71) 0.91 (0.48, 1.72) ≥ 25% 29 28 0.90 (0.46, 1.72) Number of lesions at baseline by BICR 0.33 (0.14, 0.76) 21 < 3 lesions 25 0.32 (0.14, 0.74) 0.74 (0.40, 1.37) 40 38 3-5 lesions 0.59 (0.31, 1.10) 0.78 (0.50, 1.23) 6-10 lesions 54 60 0.77 (0.49, 1.22) 0.85 (0.59, 1.24) 88 77 > 10 lesions 0.71 (0.48, 1.05)

Previous

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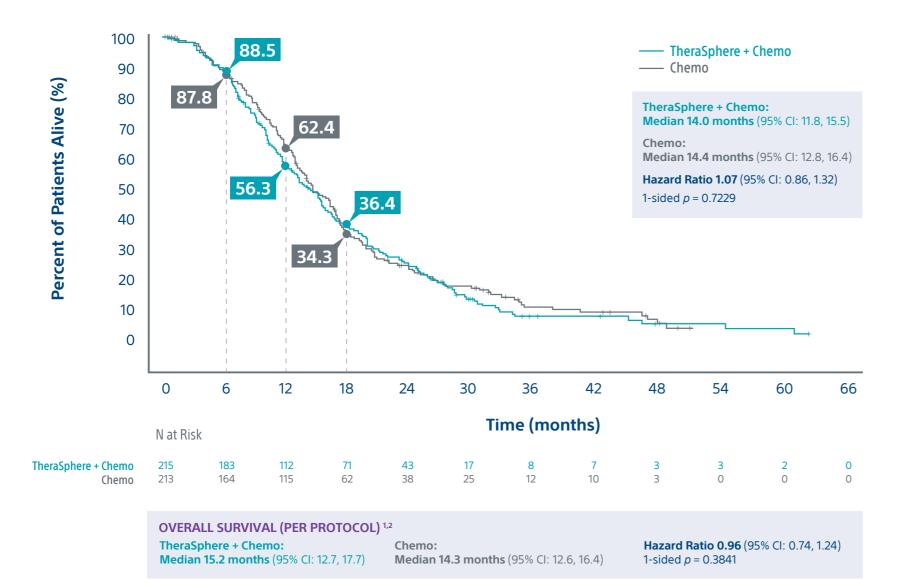
1. According to RECIST 1.1 by Blinded Independent Central Review (BICR).





OVERALL SURVIVAL (INTENT TO TREAT)1

There was no statistically significant difference in OS between the treatment and control arms in the intent to treat (ITT) population.



^{1.} Time from randomization to death or last date known alive in absence of death.

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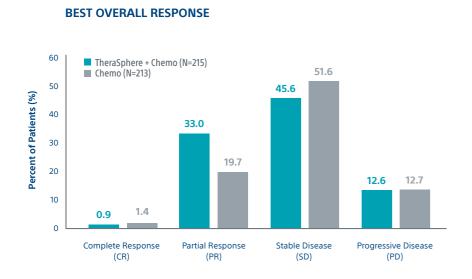
^{2.} OS Per Protocol: TheraSphere + Chemo (N=100) and Chemo (N=40) patients excluded from Per Protocol analysis due to major deviations.

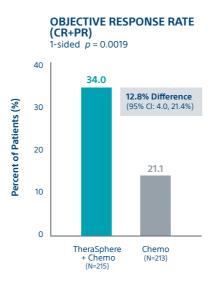


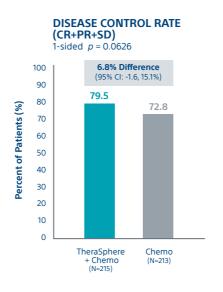


TUMOR RESPONSE¹

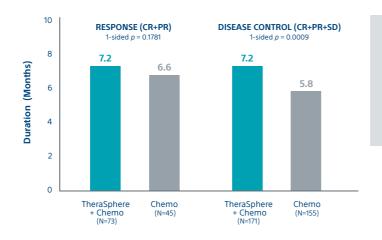
Patients receiving TheraSphere Y-90 with second-line chemotherapy showed an Objective Response Rate (ORR) of 34.0% vs. 21.1% for the control arm; a difference of 12.8%.







MEDIAN DURATION OF OBJECTIVE RESPONSE OR DISEASE CONTROL



Duration of Disease Control was longer in the TheraSphere + Chemo group; however, Duration of Response in responders was not different between the two groups.

- 1. According to RECIST 1.1 by Blinded Independent Central Review (BICR)
- 3. Time from first date of overall response of CR or PR by BICR until date of PD by BICR or death, whichever occurred first.
- 4. Time from first date of overall response of CR, PR, or SD by BICR until date of PD by BICR or death, whichever occurred first.

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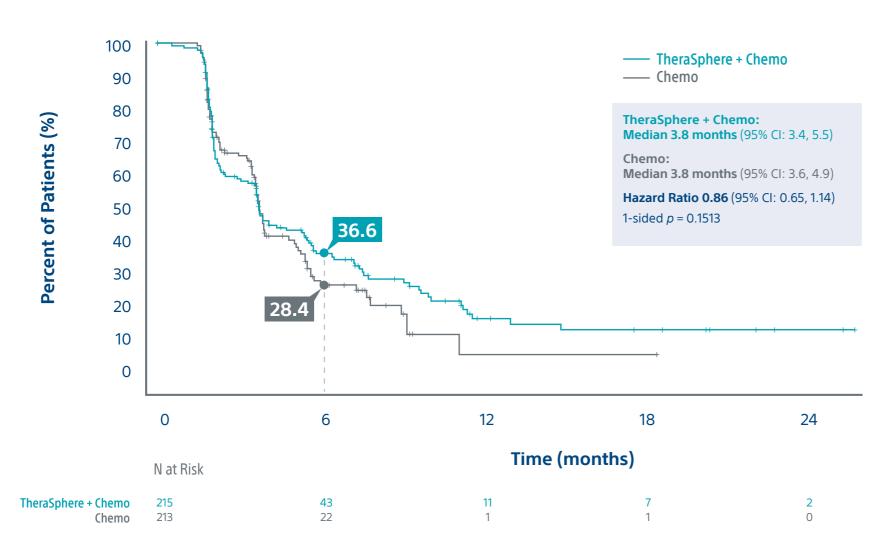
KEY PATIENT & DISEASE CHARACTERISTICS





TIME TO DETERIORATION OF QUALITY OF LIFE (TTDQoL)1

The addition of TheraSphere Y-90 to second-line chemotherapy did not compromise quality of life.



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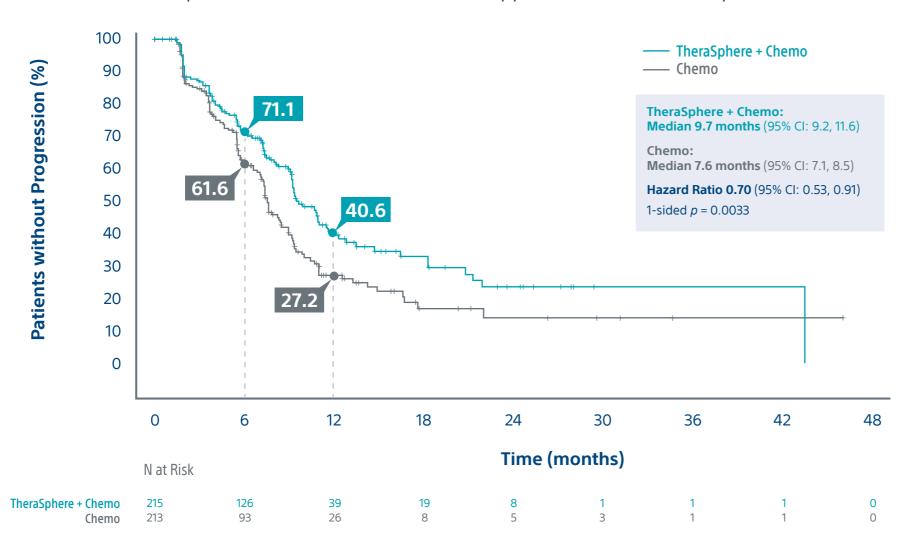
^{1.} Time from randomization to the change from baseline in FACT-c total score ≤ -7 points or death, whichever occured first.





TIME TO PROGRESSION (TTP)1

The addition of TheraSphere Y-90 to second-line chemotherapy increased median TTP by 2.1 months.



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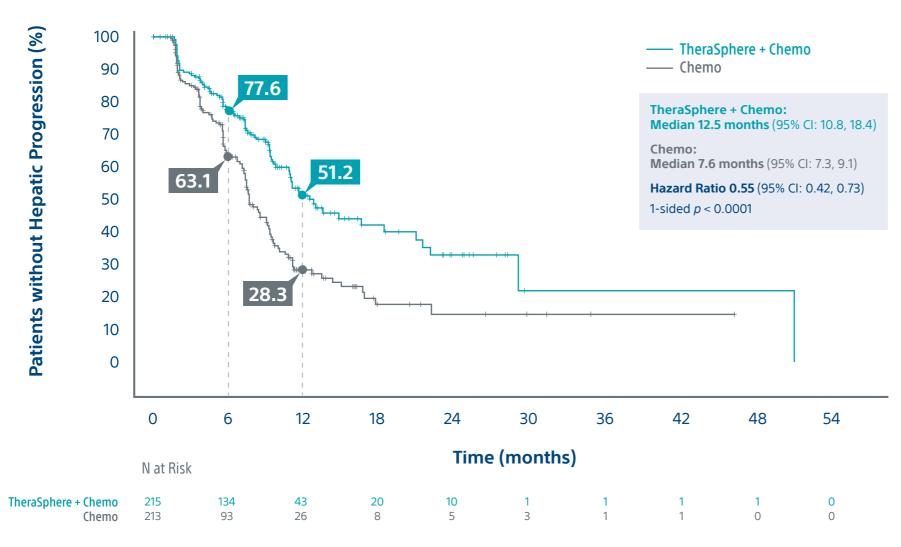
^{1.} Time from randomization to progression according to RECIST 1.1 by Blinded Independent Central Review (BICR) or death (due to any cause), whichever occurred first.





HEPATIC TIME TO PROGRESSION (hTTP)¹

The addition of TheraSphere Y-90 to second-line chemotherapy increased median hTTP by 4.9 months.



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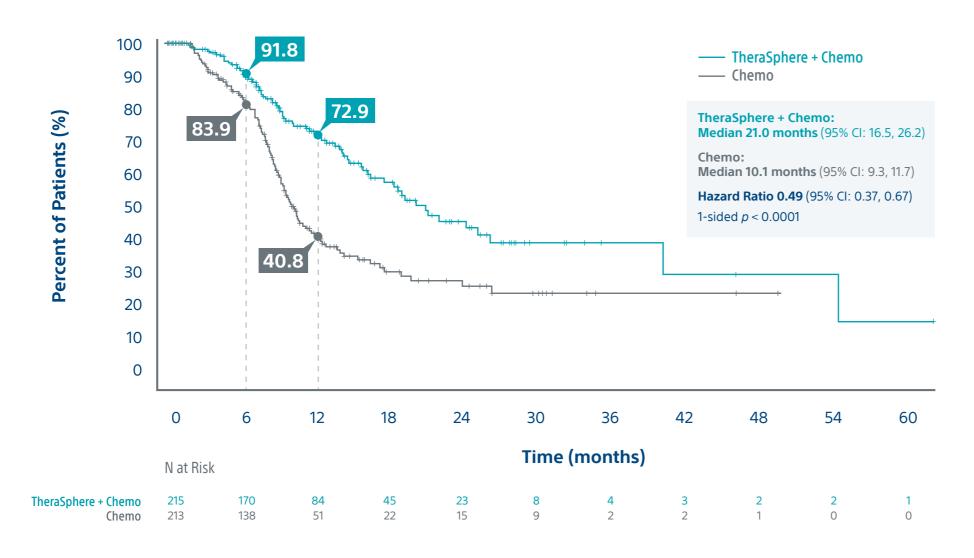
^{1.} Time from randomization to hepatic progression according to RECIST 1.1 by Blinded Independent Central Review (BICR) or death (due to any cause), whichever occurred first.





TIME TO START OF SUBSEQUENT THERAPY¹

The addition of TheraSphere Y-90 to second-line chemotherapy extended median time to subsequent therapy by 10.9 months.



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^{1.} Time from randomization to start of the subsequent mCRC therapy (i.e. a complete change in the treatment regimen or addition of another locoregional therapy, including ablation or resection).





POST-HOC SUBGROUP ANALYSES: PFS, hPFS, TTDQoL, & OS

Patients receiving TheraSphere Y-90 with second-line chemotherapy showed improved PFS and hPFS benefit, and additional time to deterioration of qualify of life (TTDQoL) in subgroups vs. chemo alone, and a greater magnitude in benefit compared to the overall intent to treat (ITT) population.

Two subgroup populations were identified based on three prognostic factors that impact TTDQoL

Overall ITT Population N=428 (100%)	
Subgroup A N=303 (71%)	
Excludes ECOG 1 & CEA ≥35 ng/mL*	
Subgroup B N=168 (39%)	
Excludes ECOG 1, CEA ≥35 ng/mL*, & KRAS-m	
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^{*35} ng/mL baseline CEA cutoff represents the median for the Overall ITT population in the study

	Overall ITT	Population ¹	Subgroup A ²		Subgroup B ²	
Outcome (median, months)	TheraSphere + Chemo N=215	Chemo N=213	TheraSphere + Chemo N=143	Chemo N=160	TheraSphere + Chemo N=77	Chemo N=91
	8.0	7.2	9.4	7.6	11.6	8.5
PFS	Difference: +0.8 months		Difference: +1.8 months		Difference: +3.1 months	
		CI: 0.54, 0.88) = 0.0013	HR: 0.64 (95% CI: 0.47, 0.87) 1-sided p = 0.0020		HR: 0.60 (95% CI: 0.39, 0.92) 1-sided p = 0.0089	
hPFS	9.1	7.2	10.8	7.6	12.5	8.5
	Difference:	+1.9 months	Difference: +3.2 months		Difference: +4.0 months	
	HR: 0.59 (95% 1-sided p	CI: 0.46, 0.77) < 0.0001	HR: 0.53 (95% CI: 0.39, 0.73) 1-sided p < 0.0001		HR: 0.51 (95% CI: 0.33, 0.79) 1-sided p = 0.0011	
	3.8	3.8	5.7	3.9	7.8	3.9
TTDQoL	Difference: +0.0 months		Difference: +1.8 months		Difference: +3.9 months	
	HR: 0.86 (95% 1-sided p	6 CI: 0.65, 1.14) 5 = 0.1513	HR: 0.65 (95% CI: 0.46, 0.91) 1-sided p = 0.0063		HR: 0.48 (95% CI: 0.30, 0.76) 1-sided p = 0.0008	

Overall Survival: No statistically significant difference in OS across Overall ITT Population or either Subgroups.

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^{1.} Mulcahy, M. et al, Radioembolization With Chemotherapy for Colorectal Liver Metastases: A Randomized, Open-Label, International, Multicenter, Phase III Trial (EPOCH). Journal of Clinical Oncology, 20 Sept 2021. 2. Harris, W. The EPOCH Trial: Identifying Key Patient Subgroups to Optimize Treatment Planning. Poster presented at: ASCO-GI; January 21, 2023; San Francisco, CA.





KEY PATIENT & DISEASE CHARACTERISTICS

Patient and disease characteristics were well-balanced between the treatment and control arms.

	TheraSphere + Chemo (N = 215)	Chemo (N = 213)
Median Age (y)	63.0	60.0
Male	135 (62.8%)	138 (64.8%)
Region North America Europe Asia	63 (29.3%) 131 (60.9%) 21 (9.8%)	56 (26.3%) 145 (68.1%) 12 (5.6%)
ECOG 0	119 (55.3%)	133 (62.4%)
Albumin ≥ Site LLN¹	182 (84.7%)	177 (83.1%)
CEA ² ≥ 35 ng/mL	116 (54.0%)	105 (49.3%)
KRAS Status Mutant Wild Type	100 (46.5%) 115 (53.5%)	101 (47.4%) 112 (52.6%)
Bilobar disease	176 (81.9%)	173 (81.2%)
Liver tumor burden at baseline by BICR < 10% ≥ 10% to < 25% ≥ 25% Missing	124 (57.7%) 54 (25.1%) 29 (13.5%) 8 (3.7%)	121 (56.8%) 47 (22.1%) 28 (13.1%) 17 (8.0%)
Maximum liver lesion size ≥ 4 cm	162 (75.3%)	142 (66.7%)
Primary tumor in situ	83 (38.6%)	69 (32.4%)
Left side primary tumor location	150 (69.8%)	136 (63.8%)
Extrahepatic metastases at baseline	113 (52.6%)	95 (44.6%)

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^{1.} LLN = lower limit of normal.

^{2.} CEA = carcinoembryonic antigen.





TREATMENT CHARACTERISTICS

Treatment characteristics were well-balanced between the treatment and control arms.

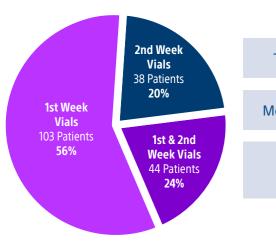
	TheraSphere + Chemo (N = 215)	Chemo (N = 213)				
Received Assigned Therapy	187 (87.0%)	191 (89.7%)				
2nd Line Chemo Administered	203 (94.4%)	191 (89.7%)				
Irinotecan-based / Mean Number of Cycles	130 (60.5%) / 9.0	123 (57.7%) / 9.5				
Oxaliplatin-based / Mean Number of Cycles	73 (34.0%) / 8.5	68 (31.9%) / 8.8				
Biological Agent	88 (40.9%)	93 (43.7%)				
TheraSphere Y-90 Glass Microspheres Treatment						
Median time to TheraSphere	25 (12, 90)	NΔ				

DOSIMETRY APPROACH

Y-90 treatment, days (range)

In the 185 patients treated with TheraSphere Y-90 prior to progression¹:

25 (12, 90)



Treatment Median: **Day 4** (1st week Thursday)

Median Specific Activity: **1,400 Bq** (single sphere)

Median dose absorbed by perfused volume: **117.0 Gy** (range: 61.7-156)

SAFETY

The addition of TheraSphere Y-90 to second-line chemotherapy did not increase chemo-related adverse events and no new safety signals were identified.2

Post-Hoc Analyses:

Liver-related treatment emergent adverse events (TEAEs) occurred more frequently in patients with <10% liver volume replaced by tumor and/or in patients with >10 lesions, likely due to increased proportion of irradiated normal liver tissue. Sequential lobar treatment, as opposed to same day whole liver treatment (as required by EPOCH protocol), may mitigate liver-related TEAEs.3

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TREATMENT CHARACTERISTICS, **DOSIMETRY & SAFETY**

NA

^{1.} As assessed by investigator. 2. Mulcahy, M. et al, Radioembolization With Chemotherapy for Colorectal Liver Metastases: A Randomized, Open-Label, International, Multicenter, Phase III Trial (EPOCH). Journal of Clinical Oncology, 20 Sept 2021. 3. Salem, R. Optimizing patient selection for treating colorectal liver metastases with glass radioembolization plus chemotherapy: The EPOCH study. Lecture presented at: Society of Interventional Oncology; January 22, 2023; Washington, DC.





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PRIMARY ENDPOINTS

Progression-Free Survival

Hepatic Progression-Free Survival

Subgroup Analyses for PFS & hPFS

SECONDARY ENDPOINTS

Overall Survival

Tumor Response

Time to Deterioration of Quality of Life

ADDITIONAL ANALYSES

Time to Progression

Hepatic Time to Progression

Time to Start of Subsequent Therapy

Post-Hoc Subgroup Analyses

KEY PATIENT & DISEASE CHARACTERISTICS

TREATMENT CHARACTERISTICS, DOSIMETRY & SAFETY



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CAUTION: TheraSphere is under an investigational device exemption for treatment of patients with metastatic colorectal cancer. The safety and effectiveness for this treatment has not been established. For full adverse event rates and complete data set, reference Journal of Clinical Oncology manuscript.