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Clinical outcomes in patients with baseline renal dysfunction in the NETTER-1 Study: ¹⁷⁷Lu-DOTATATE vs. high dose octreotide in progressive midgut neuroendocrine tumors

Abstract

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- Methods
- Results 1
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- Conclusion

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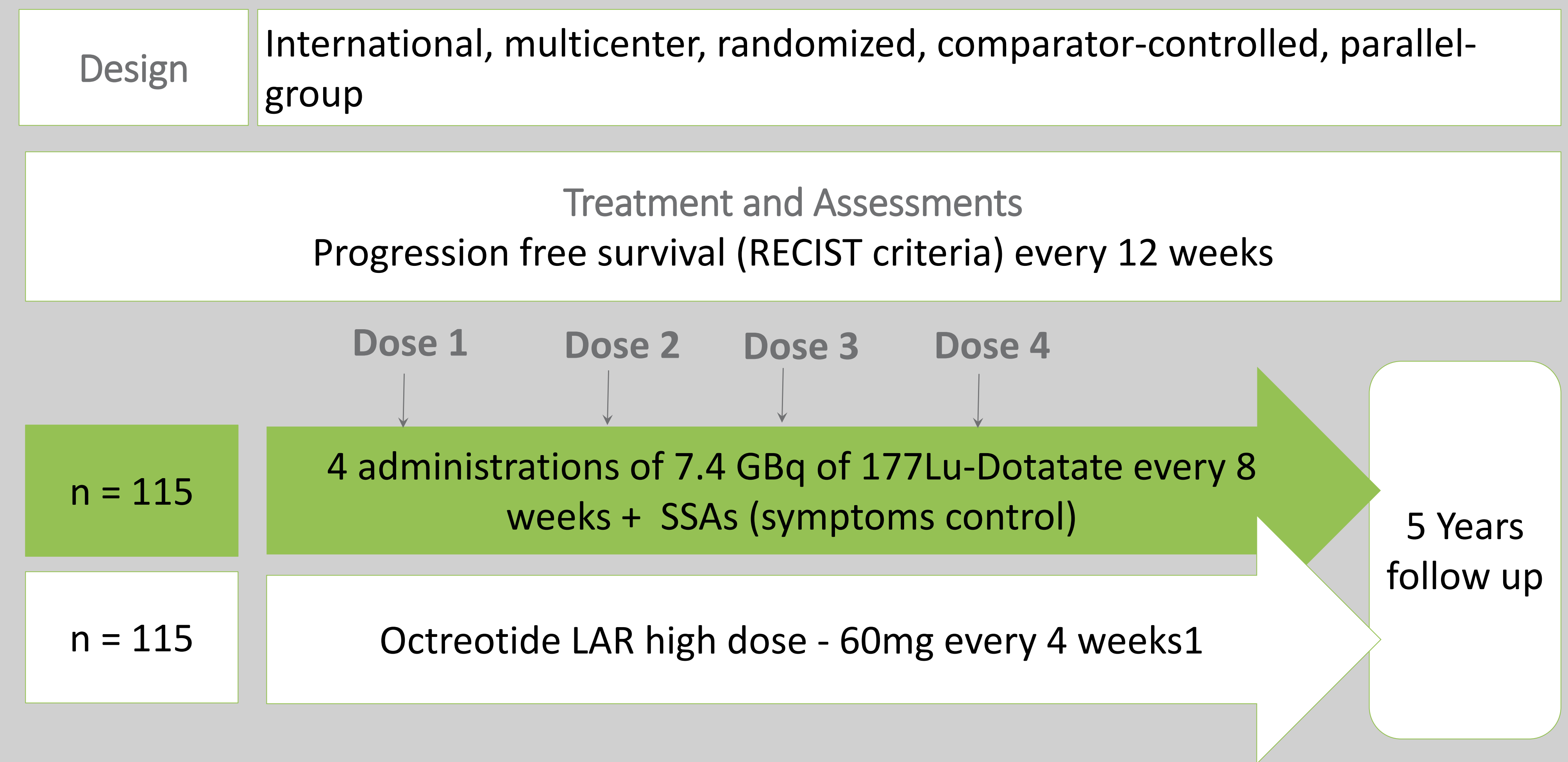
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Intro

- **Does ¹⁷⁷Lu-DOTATATE compromise kidney function ?**
- **Are patients with renal impairment eligible for ¹⁷⁷Lu-DOTATATE treatment ?**

NETTER-1 study design



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¹. FDA and EMA recommendation



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Method

- Nephrotoxicity and treatment efficacy assessed in the two study arms (¹⁷⁷Lu-DOTATATE vs. high-dose octreotide LAR 60 mg)
- Baseline normal renal function ≥ 60 ml/min
- Impaired renal patients < 60 ml/min
- Primary endpoints in both arms : PFS, creatinine clearance, adverse effects, hematotoxicity as measured by platelet count

Arm	Normal renal function	Impaired renal function (CrCl<60)
¹⁷⁷ Lu-DOTATATE	93	24
Octreotide LAR 60 mg	85	25

p = 0.41825
for imbalance between the two study arms

Safety and Tolerability - All Grades (Safety Set; n=221)

Maximal Severity, number of episodes	¹⁷⁷ Lu-DOTATATE (n=111)	Octreotide LAR 60mg (n=110)
Grade 1 (mild)	938	494
Grade 2 (moderate)	370	178
Grade 3 (severe)	98	56
Grade 4 (threatening / disabling)	5	6
Grade 5 (death)	5	8

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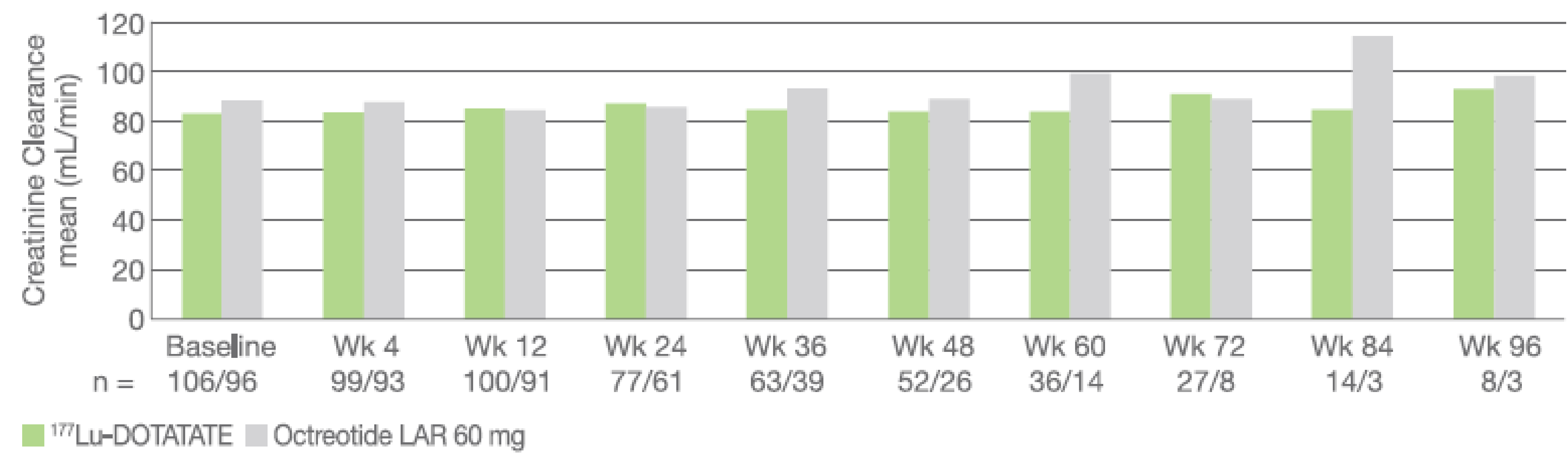
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Creatinine clearance

	¹⁷⁷ Lu-DOTATATE (n=111)	Octreotide LAR 60 mg (n=110)
	Grade 3/4	Grade 3/4
Creatinine increased	0%	0%





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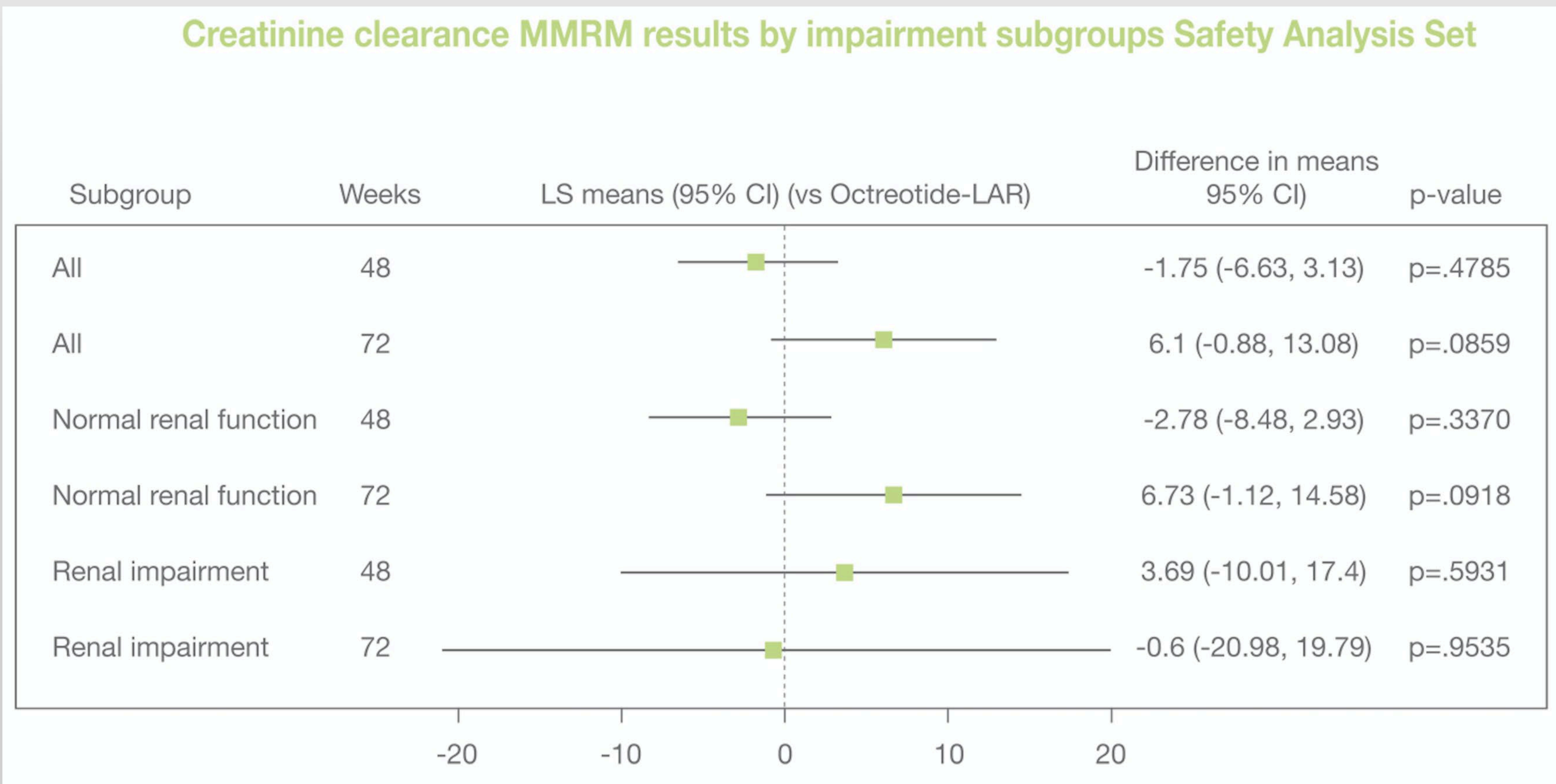
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MMRM analysis uses all data when estimating the difference between treatments at a certain week in terms of change from baseline. The p-value gives the probability of observing a greater difference by chance (under the assumption that the true difference equals zero).

In all subjects, ¹⁷⁷Lu-DOTATATE treatment was associated with non-significant trend towards improved creatinine clearance compared to high-dose octreotide LAR 60 mg



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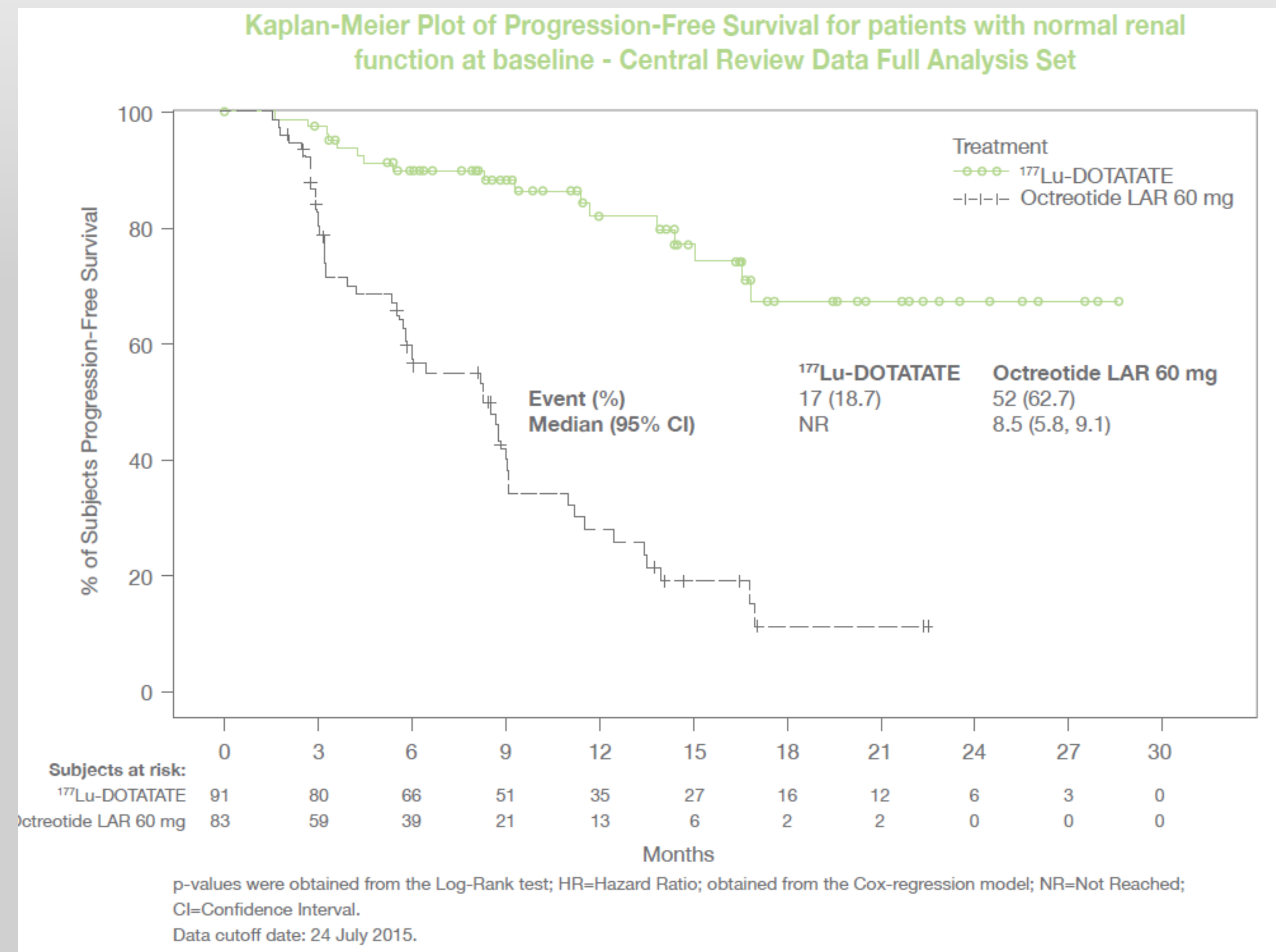
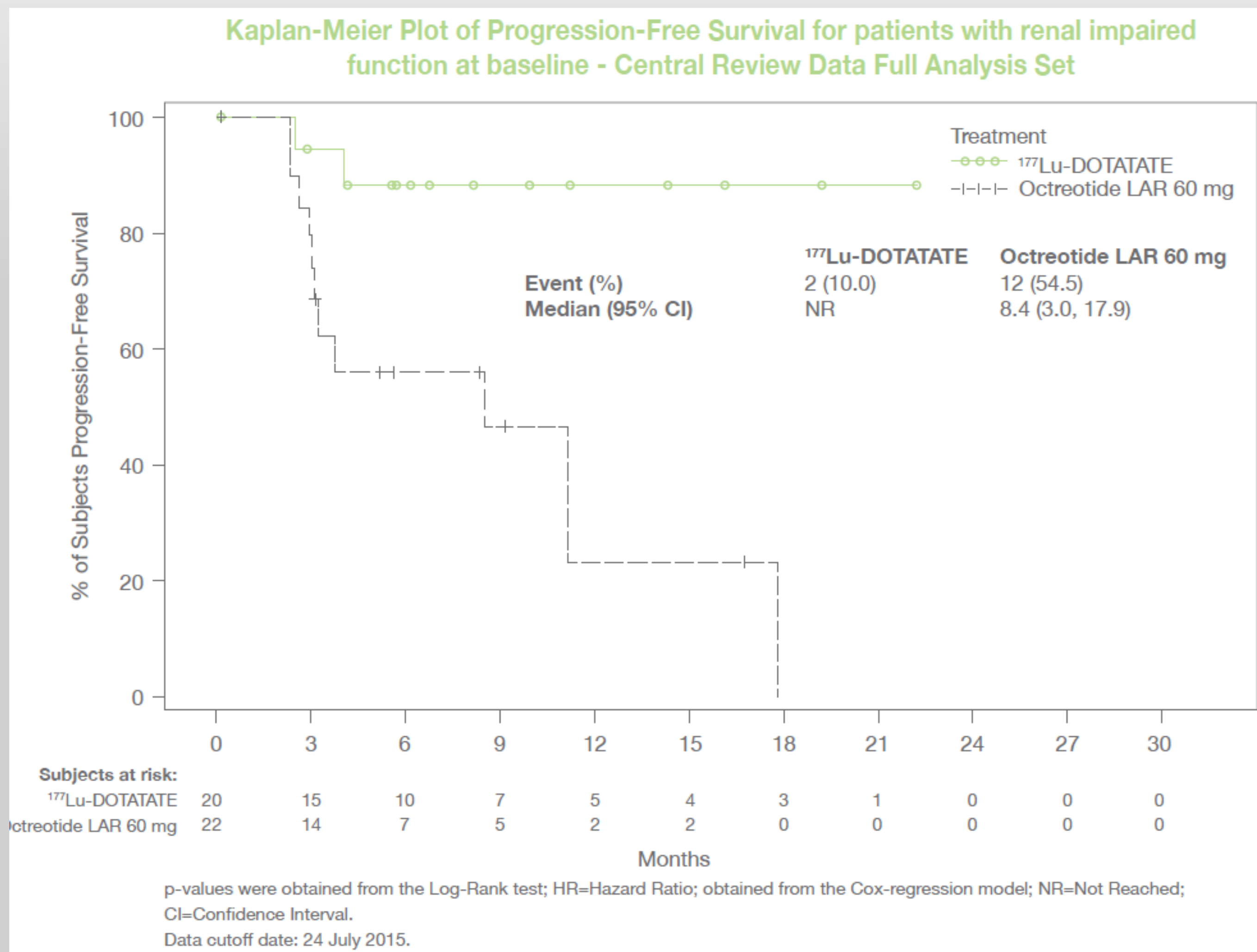
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Conclusions

The NETTER-1 study did not show any evidence of nephrotoxicity associated with ¹⁷⁷Lu-DOTATATE treatment, even among patients with impaired renal function

Treatment with ¹⁷⁷Lu-DOTATATE resulted in a markedly longer progression-free survival regardless of whether baseline renal function was normal or impaired.

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