## Appendix I – Health Economics Evidence Tables

Study, population, country and quality	Data sources	Other comments		Results		Conclusions	Uncertainty
			Cos	Effect			
Patrice (2017)	Effects A single-study estimate of effectiveness	The base case analysis took a 24 month time horizon, matching that of CREST. The second analysis took a patient lifetime horizon.	Incremental co Standard Thei 24 month anal	• •	T compared to	PCI strongly dominates a strategy of chemotherapy and	the parameters of the TRT and ST PFS and OS distributions. Patient lifetime one-
	was used - CREST RCT (Nederlands		-\$538	0.049 QALYs	Dominant		
Cost-utility study (Partitioned Survival Model)	Trial Register, number NTR1527). n=498. Patients who demonstrated any response to induction chemotherapy to receive Thoracic Radiation Therapy (TRT) and		Standard Thei Lifetime Analy	vsis			
Patients with Extensive- Stage Small Cell Lung Cancer (ES-SCLC) (as	Prophylactic Cranial Irradiation (PCI) or PCI alone. Costs and resource use TRT costs were obtained from the 2016 Centers for Medicare & Medicaid Services Physician Fee Schedule (CMSPFS) national payment amount. Post-treatment surveillance costs associated with the		\$17,583	0.090 QALYs	\$194,726/QALYs		
per the CREST RCT) United States							
Partially Applicable <sup>a</sup> Minor Limitations <sup>b</sup>	PFS health state were obtained from the 2016 CMSPFS.	to the high cost of salvage therapy regimens.				less favorable and situated near the upper boundary of contemporary thresholds for cost-	sensitivity analysis, TRT was expected to be cost-effective and preferred over the ST
	Costs were inflated to 2016 US dollars using the medical care component of the US Chained Consumer Price Index.					effectiveness	strategy in 68%, 81%, and 96% of the simulations at

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<sup>a)</sup> US Study.	Utility Patient preferences for the PFS and PPS health states associated with metastatic lung cancer were obtained from the literature and were elicited from members of the general public using standard gamble techniques (Nafees, 2008). Utility values for metastatic non-SCLC were used as a proxy for the comparable ES- SCLC health states based on available data		Cos	Effect		when evaluating a lifetime scenario."	willingness-to-pay thresholds of \$50,000/QALY, \$100,000/QALY, and 200,000/QALY, and 200,000/QALY, respectively. In contrast, when a lifetime horizon was assumed, ST was expected to be cost- effective and preferred over the TRT strategy in 89%, 82%, and 55% of the simulations at willingness-to-pay thresholds of \$50,000/QALY, \$100,000/QALY, and 200,000/QALY, respectively.

<sup>b)</sup> Not clear if the unit costs of resources from the best available sources.

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