_	Planning the Review				
Stage I	Research question Identification of the need for a	Is there an association between the 5-HTTLPR and panic disorder? Several studies with incongruent results and lack of power to detect small effects of this			
S	review	polymorphism determine the need for a supportive theoretical construct.			
	Conducting a Review				
	Identification of research	Studies were identified through PubMed, PsychInfo, Lilacs and ISI. The PubMed search was run using the Mesh terms: ("Serotonin Plasma Membrane Transport Proteins"[MeSH] OR "5-HTTLPR" OR "5-HTT" OR "SLC6A4") AND "Panic Disorder"[MeSH]. In PsychINFO, Lilacs and ISI the following words were used: "Panic" AND ("serotonin transporter" OR "serotonergic transporter" OR "5-HTT" OR "5-HTTLPR" OR "SLC6A4"). Check reference section of publications found through our search was used to identify additional studies that may have been missed. Contact was tried with all authors in order to identify unpublished data			
	Study quality assessments and study inclusion / exclusion criteria	Quality assessment criteria Panic Disorder diagnosis (DSM or ICD);			
		 Case-control or family-based studies; Hardy-Weinberg Equilibrium (HWE). 			
		 Exclusion criteria All patients with major psychiatric disorders other than PD; Replicated data; 			
Stage II		Insufficient data to perform statistical analysis.			
	Selection of studies	Studies were selected by two authors (CB and GAS) independently. Discrepancies were resolved by mutual consent and a third opinion (GGM). Exclusion reasons can be seen below the flowchart.			
"		Included Studies		Excluded Studies	
		Deckert et al. (German) [34]; Deckert et al. (Italian) [34];	Hajduk [31] ¹¹ ; Maron et al. [28] *; Maron et al. [29] ¹¹ ;		
		Ishiguro et al. [35];			
		Maron et al. [12];	Perez et al. [32] [‡] ;		
		Martinez-Barondo et al. [40] Perna et al. [26] * ; Matsushita et al. [36]; Rotondo et al. [25] $^{\pi}$;			
		Ohara et al. [37]; Rotondo et al. [33] [†] ;			
		Olesen et al. [39];	Sand	et al. [30] ¹ .	
		Samochowiec et al. [38]; Hamilton et al. [21];			
		Kim et al. [41].			
	Data synthesis and data analysis	Only case-control studies were included in the analyses. The fixed-effect OR was used to summarize the results of each single study and the pooled OR. The Q test and I ² statistic were used to assess heterogeneity between studies. We carried out allelic and genotypic (s			
dominant) tests stratifying each one for ethnicity, control gr					
		comorbidity, in a total of fourte	een analyses sets.		
	Reporting and Dissemination				
	The report Analyses	OR (CI95%)	p-value (z)	Heterogeneity Q test (p-value; l²)	
	Allele analysis (s vs. I)	0.91 (0.80-1.03)	0.14 (1.47)	X ² _{df=9} =9.75 (0.37; 7.7%)	
	Stratified analysis (s vs. I)	0.00 (0.75 (- 4.04)	0.40 (4.50)	V ² 0.54(0.40, 00.00()	
	High Quality Caucasian	0.88 (0.75 to 1.04) 0.86 (0.74 to 1.01)	0.13 (1.52) 0.06 (1.88)	$X^2_{df=4}$ =6.51(0.16; 38.6%) $X^2_{df=5}$ =4.72 (0.45; 0%)	
	Agoraphobia comorbidity	0.94 (0.77 to 1.15)	0.57 (0.57)	$X^2_{df=3}=5.21 (0.16; 42.1\%)$	
	Recommendations for further	1. Adopt a lifelong perspective of PD;			
	investigation	Appropriate analysis of HWE; Larger samples to detect the expected small effect of this polymorphism;			
Stage III		4. An adequate control group with: (a) standardized psychiatric diagnoses (DSM or CIDI,			
		for example) assessing the lifelong absence of psychiatric disorders, (b) controls should be old enough in order to reduce the possibility for the late onset of the disorder;			
		5. An exploratory analysis of the clinical manifestation, considering the nuances of Panic			
"		Disorder (i.e., agoraphobia, phobic avoidance, panic attacks, etc.) and other ways to investigate the heritable portion of PD;			
		6. Special attention to comorbidities, considering the significant influence of this			
		polymorphism in other psychiatric conditions; 7. The role evaluation of this polymorphism in other situations such as therapeutic			
		responses; 8. Genotypes must be determined blinding to case-control status in order to minimize the			
		risk of a result influenced by an investigator's preconceptions [13];			
		9. Corrections for multiple comparisons (e.g., Bonferroni correction), in case of multiple diagnostic schemes, models of inheritance or multiple genes tests;			
				pie genes tests; ing the non-causal pathways, the alpha	
		error and the prior probabilities.			
	Getting evidence into practice	The role of 5-HTTLPR in PD still needs more adequate investigation.			

Based on CDR Report, NHS Centre for Reviews and Dissemination, University of York and Cochrane Handbook *Exclusion reasons*: *Without control group; [¶]Replicated data; ^π All patients with major Psychiatric comorbidity other than PD; [‡] Hardy-Weinberg departure; [†] Insufficient data;