CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

203441Orig1s000

OTHER REVIEW(S)



PMR/PMC Development Template

This template should be completed by the PMR/PMC Development Coordinator and included for *each* PMR/PMC in the Action Package. 203441 NDA/BLA# Product Name: GATTEX (teduglutide [rDNA origin]) for injection, PMR Description: A prospective, multi-center, long-term, observational, registry study, of short bowel syndrome patients treated with teduglutide in a routine clinical setting, to assess the long-term safety of teduglutide. Design the study around a testable hypothesis to rule out a clinically meaningful increase in colorectal cancer risk above an estimated background risk in a suitable comparator. Select and justify the choice of appropriate comparator population(s) and corresponding background rate(s) relative to teduglutide-exposed patients. Provide sample sizes and effect sizes that can be ruled out under various enrollment target scenarios and loss to follow-up assumptions. The study's primary outcome should be colorectal cancer, and secondary outcomes should include other malignancies, colorectal polyps, bowel obstruction, pancreatic and biliary disease, heart failure, and long-term effectiveness. Patients should be enrolled over an initial 5-year period and then followed for a period of at least 10 years from the time of enrollment. Progress updates of registry patient accrual and a demographic summary should be provided annually. Registry safety data should be provided in periodic safety reports. PMR Schedule Milestones: Final Protocol Submission: 09/30/2013 12/30/2029 Study/Trial Completion: Final Report Submission: 06/30/2031 Other: MM/DD/YYYY 1. During application review, explain why this issue is appropriate for a PMR/PMC instead of a pre-approval requirement. Check type below and describe. X Unmet need X Life-threatening condition X Long-term data needed Only feasible to conduct post-approval Prior clinical experience indicates safety Small subpopulation affected X Theoretical concern



Other

2.	Describe the particular review issue and the goal of the study/clinical trial. If the study/clinical trial is a FDAAA PMR, describe the risk. If the FDAAA PMR is created post-approval, describe the "new safety information."		
	Based on the pharmacologic activity and findings in animals, GATTEX has the potential to cause hyperplastic changes including neoplasia.		
	Colorectal polyps were identified during the clinical trials.		
	Based on benign tumor find monitored clinically for small	ings in the rat carcinogenicity study, patients should be all bowel neoplasia.	
	If the study/clinical trial is a PMR, check the applicable regulation. If not a PMR, skip to 4.		
	- Which regulation?		
	Accelerated Approval (s	ubpart H/E)	
	☐ Animal Efficacy Rule ☐ Pediatric Research Equit	y Act	
	X FDAAA required safety s	tudy/clinical trial	
- If the PMR is a FDAAA safety study/clinical trial, does it: (check all that apply)		fety study/clinical trial, does it: (check all that apply)	
		risk related to the use of the drug? risk related to the use of the drug?	
		rious risk when available data indicate the potential for a serious risk?	
	- If the PMR is a FDAAA safety study/clinical trial, will it be conducted as:		
		postmarketing adverse events? study/clinical trial type if: such an analysis will not be sufficient to ous risk	
	Analysis using pharmace		
		study/clinical trial type if: the new pharmacovigilance system that the lish under section 505(k)(3) has not yet been established and is thus	
		nis known serious risk, or has been established but is nevertheless not	
		ations, such as investigations in humans that are not clinical trials as ervational epidemiologic studies), animal studies, and laboratory	
	experiments?		
	Do not select the above serious risk	study type if: a study will not be sufficient to identify or assess a	



- X <u>Clinical trial</u>: any prospective investigation in which the sponsor or investigator determines the method of assigning investigational product or other interventions to one or more human subjects?
- 4. What type of study or clinical trial is required or agreed upon (describe and check type below)? If the study or trial will be performed in a subpopulation, list here.

A prospective, multi-center, long-term, observational, registry study, of short bowel syndrome patients treated with teduglutide in a routine clinical setting, to assess the long-term safety of teduglutide.
<u>Required</u>
Observational pharmacoepidemiologic study X Registry studies
X Primary safety study or clinical trial
☐ Pharmacogenetic or pharmacogenomic study or clinical trial if required to further assess safety ☐ Thorough Q-T clinical trial
Nonclinical (animal) safety study (e.g., carcinogenicity, reproductive toxicology) <u>Continuation of Question 4</u>
 ☐ Nonclinical study (laboratory resistance, receptor affinity, quality study related to safety) ☐ Pharmacokinetic studies or clinical trials ☐ Drug interaction or bioavailability studies or clinical trials ☐ Dosing trials
Additional data or analysis required for a previously submitted or expected study/clinical trial (provide explanation)
Meta-analysis or pooled analysis of previous studies/clinical trials Immunogenicity as a marker of safety
Other (provide explanation)
Agreed upon:
 Quality study without a safety endpoint (e.g., manufacturing, stability) Pharmacoepidemiologic study not related to safe drug use (e.g., natural history of disease,
background rates of adverse events) Clinical trials primarily designed to further define efficacy (e.g., in another condition,
different disease severity, or subgroup) that are NOT required under Subpart H/E
Dose-response study or clinical trial performed for effectivenessNonclinical study, not safety-related (specify)
Other

- 5. Is the PMR/PMC clear, feasible, and appropriate?
 - Y Does the study/clinical trial meet criteria for PMRs or PMCs? Yes
 - Y Are the objectives clear from the description of the PMR/PMC? Yes



Y Has the applicant adequately justified the choice of schedule milestone dates? Yes

Y Has the applicant had sufficient time to review the PMRs/PMCs, ask questions, determine feasibility, and contribute to the development process? Yes

PMR/PMC Development Coordinator:

X This PMR/PMC has been reviewed for clarity and consistency, and is necessary to further refine the safety, efficacy, or optimal use of a drug, or to ensure consistency and reliability of drug quality.

(signature line for BLAs)



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