Name of Sponsor/Company: Centocor, Inc	Associated with M 5.3 of the Dossi	odule	
Name of Finished Product: REMICADE [®] (infliximab)			
Name of Active Ingredient: REMICADE [®] (infliximab)			
Protocol: C0168T47	Eudra	CT No.:	: 2004-000761-35
Title of the study: A Randomized, M Anti-TNF α Chimeric Monoclonal Ar to Severe Crohn's Disease			to Evaluate the Safety and Efficacy of $E^{(B)}$ in Pediatric Subjects with Moderate
Principal/Coordinating Investigato Philadelphia, PA, USA and Jeffrey H			Children's Hospital of Philadelphia, en's Medical Center, Hartford, CT, USA
Study Center(s): 34 sites (North An Belgium: 2 sites, Denmark: 3 sites, 1			
Publication (reference): None			
Studied Period: 11-Feb-2003/13-Ap	or-2005		Phase of Development: 3
Objectives: The primary objective of this study was to evaluate the efficacy of a 3-dose induction regimen of infliximab in reducing signs and symptoms in pediatric subjects with moderately to severely active Crohn's disease. The clinical response achieved in the REACH study at Week 10 was compared with the historical clinical response observed in a subset of ACCENT I subjects (5 mg/kg infliximab group) at Week 10. The safety profile of infliximab during induction and maintenance treatment was also evaluated. The secondary objectives of the study were to evaluate the efficacy of 2 infliximab maintenance dosing regimens (q8 versus q12 weeks) in maintaining clinical response and inducing clinical remission in pediatric subjects with moderately to severely active Crohn's disease, to determine the pharmacokinetic profile in pediatric subjects following induction and maintenance dosing with 5 mg/kg infliximab, to determine the effect of dosing with infliximab on growth over the course of 1 year. Additional evaluations of PCDAI (Pediatric Crohn's Disease Activity Index), ESR (erythrocyte sedimentation rate), and corticosteroids were conducted. The study included an open-label extension (OLE) beginning at Week 54 to offer continued infliximab therapy to subjects who participated in this study. The objectives of the OLE also included assessment of both the maintenance of clinical response and the safety of infliximab with long-term treatment of Crohn's disease in the pediatric subject population.			
 Methodology: This was a randomized, multicenter, open-label study for 54 weeks (maximum duration of 62 weeks; and a duration of 206 to 210 weeks [depending on the group] for subjects who participated in the OLE). Subjects who were in clinical response at Week 10 were randomized to treatment with 5 mg/kg infliximab q8 weeks or q12 weeks. Subjects were permitted to be on stable doses of corticosteroids upon entering the study, with tapering permitted following Week 2. Subjects completing treatment through Week 46 who, in the opinion of the investigator, could benefit from continued treatment, could enter an OLE beginning at Week 54. The OLE will continue until marketing authorization is obtained for the use of infliximab for the treatment of Crohn's disease in pediatric subjects, or for a maximum of 3 years. This report summarizes data through Week 54. Number of Subjects (Planned and Analyzed): 110 subjects were planned; 112 subjects were enrolled and 			
			domized and analyzed for efficacy and
severe Crohn's disease (defined as PC	CDAI > 30 points at ba munomodulator (ie, az	seline).	s 6 through 17 years with moderate to Subjects had active disease despite ne [AZA], 6 mercaptopurine [6-MP], or

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Week 10 were randomized in a 1:1 ra Subjects in Group I received 5 mg/kg subjects in Group II received 5 mg/kg were nonresponders to induction dosi discontinued from the study (but followho lost response in Group I were eli who lost response ≤ 8 weeks from the infliximab every 8 weeks. Subjects in	Weeks 0, 2, and 6 (lot numbers: tio to receive 1 of 2 maintenanc infliximab at 8-week intervals g infliximab at 12-week intervals ng at Week 10 did not receive f owed for safety for 16 weeks). I gible to receive 10 mg/kg inflix e previous infliximab infusion w n Group II who lost response > 3	02E052 and 03E087). Responders at e treatment regimens with IV infliximab. (Weeks 14, 22, 30, 38, and 46) and s (Weeks 18, 30, and 42). Subjects who urther infusions of infliximab and were During the maintenance phase, subjects imab every 8 weeks. Subjects in Group II
		ast dose was 46 weeks for subjects who LE, the maximum interval between first
Reference Therapy, Dose and Mod	e of Administration, Batch Nu	mber: Not applicable
Criteria for Evaluation: All random for the primary efficacy analyses. Sa infusion; subjects were analyzed acco	fety evaluations were based on s	
Pharmacokinetics/Pharmacodynan volume of distribution at steady state		fliximab, half-life (t1/2), clearance (CL), e (AUCss) were summarized.
Crohn's disease (defined as a decreas of no more than 30 points at Week 10 disease (ACCENT I). Secondary end change from baseline in corticosteroid	e from baseline in the PCDAI so b) was compared to that reported points were clinical response at d use at Week 54, and change fr tabolism (resorption and format	n the REACH pediatric population with core of at least 15 points with a total score l in the adult population with Crohn's Week 54, clinical remission at Week 54, om baseline in height status at Week 54. tion) was also evaluated at Week 2 and
	ks 10, 30, and 54) were also per	wity (through Week 54) and change from formed. Additional analyses included ek 54.
Safety: The safety of infliximab in p summaries of AEs and clinical labora [ANA]/anti-dsDNA). Major safety p	tory data (including antibodies t	isease was assessed by examining to infliximab and antinuclear antibodies
the proportion of subjects in each main response) used the chi-square test. Continuous endpoints used analysis of infliximab had an effect on a measure change from baseline and final measure	intenance treatment group who a comparisons between the 2 maint f variance on the van der Waerd ement, such as height status, pain irements of a subject. All statist	red t-tests were used to compare the

Sy	Synopsis (C0168T47 REACH)		
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The analyses in this study were based maintenance phase efficacy data for e assigned group, regardless of the actu	each subject randomly assigned	Therefore, comparisons of the to a group were analyzed according to the	
SUMMARY – CONCLUSIONS			
Week 10, 9 subjects had discontinued 112 enrolled subjects were evaluated randomized in a 1:1 ratio to receive 1 every 8 weeks or 5 mg/kg infliximab clinical response were randomized.	I from the study and were not ra by the principal investigators as of 2 infliximab maintenance tre every 12 weeks). Of these 103 One (1) subject was in clinical re pal investigator. Therefore, 99 of	being in clinical response and were eatment regimens (5 mg/kg infliximab subjects, 5 subjects that were not in	
detection limits and the median termi CL was 6.1 mL/day/kg, Vss was 86.4 resulted in a lower proportion of subjective	nal half-life was 10.7 days in the mL/kg, and AUCss was 833.8 ects with undetectable inflixima regimen led to a sustained preserved over to 10 mg/kg had intrin	b concentration. An increased dose of ence of infliximab in the serum of subjects	
Efficacy Results: The clinical respon	hal 5 mg/kg dose.		

- Clinical remission was induced by Week 10 in a greater proportion of pediatric subjects with Crohn's disease compared with the proportion of adult subjects with Crohn's disease in ACCENT I (58.9% versus 39.1%, respectively).
- The g8 week maintenance treatment regimen was more effective than the g12 week maintenance treatment regimen in maintaining clinical response and remission at Weeks 30 and 54.
 - At Week 30, a significantly greater proportion of subjects randomized to the q8 week than the q12 week maintenance treatment group were in clinical remission (59.6% vs. 35.3%; p = 0.013).
 - At Week 54, a significantly greater proportion of subjects randomized to the q8 week than the q12 week maintenance treatment group were in clinical remission (55.8% vs. 23.5%; p < 0.001).
- Subjects with active Crohn's disease who were on corticosteroids at baseline were able to reduce corticosteroid use. A substantial reduction in median corticosteroid use was observed by Week 10. Both maintenance treatment groups maintained reduced corticosteroid use through Week 54. No significant difference in the change from baseline in corticosteroid dose was noted between the q8 week and q12 week maintenance treatment groups through Week 54.
- A consistently greater proportion of subjects on corticosteroids at baseline were in remission and off corticosteroids in the q8 week maintenance treatment group (45.8%) compared with the q12 week maintenance treatment group (16.7%) at Week 54.

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 improved at both Weeks 30 and Subject, physician, and parent/g treatment with infliximab when The QOL for pediatric subjects in the subgroup evaluated. The improvement in PCDAI scc and continued through Week 10 combined, the significant impro maintained at both Weeks 30 an The improvement in ESR was e observed through Week 54 (p < 	54. uardian global assessment score compared with baseline. with Crohn's disease was signif ore was seen as early as 2 weeks . When the q8 week and q12 w vement from baseline in PCDAI d 54. vident when first examined at W 0.001 for all comparisons). who lost response and crossed of	ith Crohn's disease was significantly es were numerically improved after ficantly improved at Weeks 10, 30, and 54 after the first study agent administration eek maintenance treatment groups were I score observed at Week 10 was Week 10 and continued improvement was
 treatment group. There were no deaths, malignanchematological events (eg, pancyt) In the 103 randomized subjects, Subjects in the q8 week and the q The system-organ class with the 10.7% of subjects (9.4% and 12.0 groups). Greater than 90.0% of all treated 2 maintenance treatment groups (groups, respectively). The GI system organ class had th vomiting, nausea, abdominal pair The respiratory system-organ clas reported in 63.1% of subjects (60 groups, respectively). Two (2) of 53 (3.8%) and 4 of 50 AE in the q8 week and the q12 w Overall, 17.5% of randomized su proportion of infusions associated q12 week maintenance treatment There were no subjects who had nonserious anaphylactic reactions 	d crossed over in the q12 week ties, serious neurologic events (e openia, aplastic anemia), tuberc SAEs were reported in 14.6% of 12 week maintenance treatment highest incidence of SAEs was to 0% of subjects in the q8 week an subjects had 1 or more AEs, wi (96.2% and 92.0% in the q8 week ne highest incidence of AEs, whi n, and Crohn's disease were the ss had the next highest proportion 0.4% and 66.0% in the q8 week an (8.0%) randomized subjects diverse maintenance treatment group bjects experienced 1 or more not d with infusion reactions was lo group (5.3%). a possible delayed hypersensitiv s.	compared with the q8 week maintenance eg, optic neuritis, demyelinations), serious ulosis (TB), or CHF. f subjects, with similar proportions of groups (15.1% and 14.0%, respectively). the GI system, with SAEs reported in nd q12 week maintenance treatment th similar proportions in the ek and q12 week maintenance treatment ich were reported in 73.8% of subjects; most frequently reported AEs. ons of subjects with AEs, which were and q12 week maintenance treatment scontinued study infusions because of an nps, respectively. onserious infusion reactions. The wer (2.9%) in the q8 week than in the vity reaction. Two (2) subjects had
• Overall, AEs were classified by t q8 week and the q12 week maint		73.6% and 38.0% of subjects in the

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 (sepsis and fever each in 1 subject abscess/furunculosis and infection maintenance treatment group (abc Crohn's disease). Three (3; 6.0%) subjects in the q1 maintenance treatment group had abnormalities occurred during the treatment. Newly positive anti-dsDNA was of compared with 8.3% in the q12 w autoimmune disease. The overall incidence of subjects and did not distinguish subjects with satus was associated with a slight with antibody negative and income event of a possible anaphylactic refew subjects who were antibody p Week 54. 	t), 3 subjects in the q8 week main h bacterial/lymphadenopathy, a dominal pain/fever/vomiting, er 2 week maintenance treatment a markedly elevated ALT value induction phase of the study and detected in 5.9% of subjects in reek maintenance treatment gro positive for antibodies to inflix who crossed over to higher or me mized maintenance treatment s tly higher incidence of mild to clusive subjects. One (1) antibe eaction. Clinical response and positive and the majority of sub- no clear patterns supporting a p	nd normalized with continued infliximab the q8 week maintenance treatment group up. There were no reports of new imab through Week 54 was 2.9% (3/105) ore frequent doses of infliximab from chedule. Positive antibody to infliximab moderate infusion reactions compared ody negative subject experienced a single remission were comparable between the jects who were inconclusive through potential safety concern related to the use
 infliximab administered at 5 mg/kg at Reduced the signs and symptoms Week 54. At Week 10, the propor remission were at least as good as Demonstrated that the q8 week may q12 week maintenance treatment in and 54. Allowed for a substantial reduction Week 54, with at least 50% of sub- visit. Demonstrated improved height state QOL scores through Week 54. In study agent administration and wates Demonstrated a similar half-life for frequent dosing resulted in a lowe concentration. An increased dose presence of infliximab in the serum 	e, with efficacy at least as good diatric subjects with moderate t Weeks 0, 2, and 6 and then eve of disease activity at Week 10 a rtion of pediatric subjects with that seen in adult subjects with aintenance treatment regimen v regimen in maintaining clinical on in median corticosteroid use bjects discontinuing corticostero atus, global assessment scores (approvement of PCDAI score was as maintained through Week 54 or the q8 week and the q12 week or proportion of subjects with ur of infliximab or a more freque m of subjects who crossed over	as that seen in adults. Specifically, in o severe Crohn's disease (PCDAI > 30), ry 8 or 12 weeks: and sustained these reductions through Crohn's disease in clinical response and Crohn's disease (ACCENT I study). vas significantly more effective than the response and remission at Weeks 30 by Week 10 that was maintained through olds by their first maintenance treatment subject, physician, parent/guardian), and as seen as early as 2 weeks after the first

Name of Finished Product: REMICADE® (infliximab) Name of Active Ingredient: REMICADE® (infliximab) • Infliximab was generally well tolerated. AEs and infections were seen in patterns similar to those seen in ACCENT I. A lower proportion of randomized subjects in the REACH study experienced 1 or more infusion reaction when compared with subjects in the ACCENT I study. No subjects had a possible delayed hypersensitivity reaction and 2 subjects had nonserious anaphylactic reactions in the REACH study. • Demonstrated an overall incidence of subjects positive for antibodies to infliximab through Week 54 of 2.9% (3/105). Positive antibody to infliximab status was associated with a somewhat higher incidence of mild to moderate infusion reactions compared with antibody negative and inconclusive subjects. • Although the proportion of subjects with AEs reported by investigators as infections was higher in the q8 week than the q12 week maintenance treatment groups, and a higher proportion of subjects in the q8 and q12 week maintenance treatment groups reported AEs, SAEs, and AEs leading to discontinuation.	Name of Sponsor/Company: Centocor, Inc	Associated with Module 5.3 of the Dossier	
 REMICADE[®] (infliximab) Infliximab was generally well tolerated. AEs and infections were seen in patterns similar to those seen in ACCENT I. A lower proportion of randomized subjects in the REACH study experienced 1 or more infusion reaction when compared with subjects in the ACCENT I study. No subjects had a possible delayed hypersensitivity reaction and 2 subjects had nonserious anaphylactic reactions in the REACH study. Demonstrated an overall incidence of subjects positive for antibodies to infliximab through Week 54 of 2.9% (3/105). Positive antibody to infliximab status was associated with a somewhat higher incidence of mild to moderate infusion reactions compared with antibody negative and inconclusive subjects. Although the proportion of subjects with AEs reported by investigators as infections was higher in the q8 week than the q12 week maintenance treatment groups, and a higher proportion of subjects in the q8 week maintenance treatment group with infections required antimicrobial treatment, a similar proportion of subjects in the q8 and q12 week maintenance treatment groups reported AEs, SAEs, and AEs 			
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Date of Report: 20 Oct 2005	 ACCENT I. A lower proportion infusion reaction when compared delayed hypersensitivity reaction study. Demonstrated an overall incidence 2.9% (3/105). Positive antibody mild to moderate infusion reactio Although the proportion of subject q8 week than the q12 week maint q8 week maintenance treatment g proportion of subjects in the q8 and leading to discontinuation. 	of randomized subjects in the R with subjects in the ACCENT and 2 subjects had nonserious a ce of subjects positive for antibo to infliximab status was associa ns compared with antibody neg ets with AEs reported by investi tenance treatment groups, and a group with infections required an	EACH study experienced 1 or more I study. No subjects had a possible maphylactic reactions in the REACH odies to infliximab through Week 54 of ted with a somewhat higher incidence of ative and inconclusive subjects. gators as infections was higher in the higher proportion of subjects in the ntimicrobial treatment, a similar

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