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Sponsor/company:	sanofi-aventis	ClinicalTrials.gov Identifier:	NCT00670566
Generic drug name:	Irbesartan / Hydrochlorothiazide	Study Code:	IRBEH_L_03170
		Date:	2-Feb-2010

Title of the study:	Irbesartan/HCTZ to Control Elevated blood pressure to target in moderate to severe hypertensive patients (INCENT study) (Study Number: IRBEH_L_03170)		
Investigator(s):	Prof. Wang Jiguang Ruijin Hospital affiliated to Medical College of Shanghai Jiaotong University		
Study center(s):	20 centers , China		
Publications (reference):			
Study period:	Date first patient/subject enrolled: 29-04-2008 Date last patient/subject completed: 18-03-2009		Phase of development: Phase IV
Objectives:	To evaluate the antihypertensive efficacy of a fixed combination of irbesartan/HCTZ in Chinese moderate to severe essential hypertensive patients		
Methodology:	This is a multi-center, single arm, open label, 12 weeks trial to evaluate the antihypertensive efficacy of a fixed combination of irbesartan/HCTZ in Chinese moderate to severe essential hypertensive patients.		
Number of patients/subjects:	Planned: 500	Randomized: 501	Treated: 501
Evaluated:	Efficacy / Pharmacodynamics: ITT: 501 pts, PP: 449 pts Efficacy: Intent-to-treat (ITT) Population: 501 patients Per-protocol (PP) Population [patients enrolled according to inclusion /exclusion criteria and completed the 12 weeks treatment]: 449 patients Drop out:47 patients (Reason:AE-13pts, withdrew consent form-18pts, lack of efficacy-5pts, protocol deviation-7pts, other-4pts) Safety population: 497 patients Not taking study medication at all: 4 patients	Safety: 497	Pharmacokinetics: NA

Safety:	All adverse events should be recorded in CRF and reported in final study report. All SAEs should be reported according to Chinese regulation and sanofi-aventis' SOPs.
Pharmacokinetics:	NA
Pharmacokinetic sampling times and bioanalytical methods:	NA
Statistical methods:	<ul style="list-style-type: none"> - Analyze BP control rate at week 12 - Analyze SBP at week 12 vs. baseline; DBP at week 12 vs. baseline; proportion of pts. with MAU at week 12 vs. baseline; proportion of pts. with LVH at week 12 vs. baseline <p>T test, Chi-square test or logrank test were used.</p> <p>All the statistical analyses were done with SAS software (version 9.13).</p>

Summary:	Baseline characteristics*:	
	Male (n=237)	Female (n=264)
Age	54.1±9.8	55.9±5.6
Height (cm)	171±5	159±5.2
Weight (kg)	75.8±9.9	64.8±9.1
BMI (kg/m ²)	25.9±3.2	25.6±3.1
SBP (mmHg)	161.5±11.3	163.4±10.0
DBP (mmHg)	99.5±8.6	96.5±8.4
Heart rate (beat/min)	74.7±9.7	74.1±10.1
Hb (g/L)	152±11	134±11
RBC (×10 ¹² /L)	4.95±0.44	4.54±0.43
WBC (×10 ⁹ /L)	6.65±1.74	6.19±1.45
Blood glucose (mmol/L)	5.67±1.30	5.59±1.18
Serum Creatinine (µmol/L)	82.5±15.2	64.6±16.1
BUN (mmol/L)	5.28±1.37	5.09±1.30
Blood Uric acid (µmol/L)	345.6±68.2	297.3±66.1
AST (U/L)	24.6±9.4	25.0±9.5
ALT (U/L)	27.7±14.9	23.0±12.5
Serum K ⁺ (mmol/L)	4.07±0.37	4.13±0.40
Serum Na ⁺ (mmol/L)	140.9±3.1	141.4±2.7
Serum Cl ⁻ (mmol/L)	103.7±3.3	104.6±3.1

* The baseline data for males and females was similar, with the most notable numerical differences in Hb, serum creatinine and blood uric acid.

Efficacy results: or Pharmacodynamic results:	ITT population(n=501):			
		Before treatment Baseline	After treatment Week 12	Difference (before and after treatment) (95%CI)
	Primary endpoint			
	BP control rate (<140/90 mm Hg)	0%	66.1%	66.1%
	Secondary endpoint			
	SBP(mmHg)	162.5±10.7	134.7±15.0	27.8 *
	DBP(mmHg)	97.9±8.6	84.4±9.0	13.5 *
	BP control rate ## (<140/90mmHg, Diabetic patients<130/80mm Hg)	0%	57.3%	57.3%
	PP population(n=449):			
		Before treatment Baseline	After treatment Week 12	Difference (before and after treatment) (95%CI)
	Primary endpoint			
	BP control rate (<140/90 mm Hg)	0%	72.0%	72.0%
	Secondary endpoint			
	SBP(mmHg)	162.4±10.7	132.6±13.1	29.9 *
	DBP(mmHg)	97.9±8.6	83.5±8.0	14.4 *
	MAU,n(%)	150 (33.4)	105 (23.4)	30% #
	LVH,n(%) (n=427)	215 (50.4)	175 (41.3)	19% **
	BP control rate ## (<140/90mmHg, Diabetic patients<130/80mm Hg)	0%	62.4%	62.4%
	*P<0.001; **P=0.01 #P=0.004 ; ## Complementary analysis by principal investigator			

Safety results:

A total of 163 adverse events were reported. Adverse events occurring in more than four patients were as following:

AE	Total Patient number n(%)
Dizziness	41(8.1%)
Hyperuricacidemia*	25(4.9%)
Headache	7(1.3%)
Upper respiratory tract infection	6(1.1%)
Hypertension	5(0.9%)
Palpitation	5(0.9%)
Fatigue	5(0.9%)
Transaminase rise **	4(0.7%)

Of 163 adverse events, 4 events were confirmed as serious adverse events.

SAE	Patient number
Cerebral hemorrhage	1
Hypertensive crisis	1
Hypertension-grade 3	1
Lumbar disc protrusion	1

All SAEs are not correlative to study medication.

* Hyperuricacidemia defined as Blood Uric Acid > 420umol/L

**Transaminase rise defined as transaminase rise at week 12 compared to baseline.

