



STUDY PROTOCOL

AITP Registry

Longitudinal Study on the Epidemiology and Treatment of

Auto-Immune Thrombocytopenia (AITP) in Algeria

(Epidemiological study, non-interventional)

Protocol Number: 20160214

AMGEN Algeria

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Contact persons:

Medical Responsible:



Pharmacovigilance Manager:



Clinical Operations Manager

PPD

Clinica Group Coordinator (CRO):







SYNOPSIS

Title of study	Longitudinal study on the epidemiology and management of auto-immune thrombocytopenia (AITP) in Algeria	
Protocol number	20160214	
Rationale	Auto-immune thrombocytopenia (AITP) is a multifactorial auto-immune disease characterized by platelets accelerated peripheral destruction by auto-antibodies and cytotoxic T lymphocytes. The etiology is unknown but a genetic origin is excluded, family forms being exceptional.	
	Clinically, the disease onset is acute or insidious. The disease can be asymptomatic or having easy bruising or severe bleeding.	
	AITP is suspected when the family history, physical examination, blood count and examination of peripheral blood smear do not suggest another etiology for thrombocytopenia. No reference diagnostic testing is available to establish a reliable diagnosis. A positive response to a specific therapy (intravenous immunoglobulin and/or steroids) supports the diagnosis.	
	As for treatment, 70 to 80% are spontaneous remission without treatment within 6 months of development in children, in whom treatment ensures faster remission and allows a reduction in morbidity and increased complete remissions.	
	Chronic AITP in children is characterized by frequent spontaneous remissions in more than 10 years of diagnostic. Meanwhile in adults, the transition to chronicity (> 6 months of evolution) is more common without treatment (80–90 %). The goal of treatment is to ensure sufficient platelets rate to prevent risk of bleeding, while a normal platelet rate is not an obligation, and that treatment is limited in intensity and duration.	
	The medical treatment includes corticosteroids, intravenous immunoglobulin and anti-D immunoglobulin. Splenectomy is performed in patients with severe manifestations. In the case of refractory chronic AITP, corticosteroids or steroid-sparing drugs (e.g. danazol and vincristine) or immunosuppressants (e.g. azathioprine, cyclophosphamide and rituximab are suggested. Combined treatments or or bone marrow transplantations may also be prescribed.	
	From an epidemiological perspective, the AITP occurs mainly in young adults (18–40 years), particularly women in their third or fourth decade. In France, the annual incidence of AITP is 16 to 32 cases per 1,000,000 inhabitants. However, no accurate or reliable epidemiological data on AITP are available in Algeria.	
	In this context, the main objective of this non-interventional study is to investigate the epidemiological profile of the disease in the country (the prevalence and incidence of the AITP on national and regional levels). The study will also identify the characteristics of these patients, and their management arrangements and monitoring.	
Type of study	Epidemiological, national, prospective, longitudinal study about the management of patients with auto-immune thrombocytopenia followed up by hematologists in the public sector in Algeria	
Sponsor	AMGEN Algeria	
Scientific approval	Conducted under the auspices of the Algerian Society of Hematology (ASHT)	
CRO	Clinical Group, CRO authorized by the Ministry of Health , Population and Hospital Reform (MHPHR)	
Study population	Investigators/physicians: epidemiological study proposed to the heads of the departments of hematology in Algerian hospitals	





Number of patientsThis study is representative and national. As the primary objective of t the incidence, patient recruitment will be open and no estimate of th calculated. However, around 1300 AITP patients (incident and prevale included over the 12-month inclusion period of the study.	e sample size will be		
All patients diagnosed with AITP during the period of study and wh consent will be included in the study.	o gave their informed		
Participating centers Departments of hematology in the public sector in Algeria	Departments of hematology in the public sector in Algeria		
Maximal number of hematology departments = 17			
Study period • Patient recruitment: 12 months from September 2017 (inclusion end of August 2018 (inclusion of the last patient) ,	of first patient) to the		
 Last patient in = last patient out = 31 August 2018 Total duration of study: 12 months 			
Study objectives Primary objective:			
To assess the incidence of AITP diagnosed in patients aged 16 years o in a 12-month period of inclusion.	ld and over in Algeria		
Secondary objectives:			
1/ To assess the incidence by age category of AITP diagnosed in patients and over in Algeria during the inclusion period. 2/ To assess the incidence by gender of AITP diagnosed in patients over in Algeria during the inclusion period. 3/ To assess the incidence by diagnosis stage (asymptomatic, or hemorrhage) of AITP diagnosed in patients aged 16 years old and or the inclusion period. 4/ To assess the incidence by region (Wilaya) of AITP diagnosed in old and over in Algeria during the inclusion period. 5/ To assess the prevalence of AITP diagnosed in patients aged 16 years and over in Algeria. 6/ To determine the characteristics of patients aged 16 years and over Algeria (age, gender, risk factors and comorbidities). 7/ . 8/ . Study endpoints	aged 16 years old and easy bruising, severe older in Algeria during patients aged 16 years years old and over in		
Study endpoints <u>Primary endpoint</u> :			
1/ Number of new cases diagnosed with AITP and aged 16 years and of the period of 12 months of inclusion.	over, in Algeria during		
Secondary endpoints:			
1/ Number of new cases diagnosed with AITP and aged 16 years and of the period of 12 months of inclusion, by age categories.	wer, in Algeria during		
2/ Number of new cases diagnosed with AITP and aged 16 years and of the period of 12 months of inclusion, by gender.	over, in Algeria during		
3/ Number of new cases diagnosed with AITP and aged 16 years and o	over, in Algeria during		





	4/ Number of new cases diagnosed with AITP and aged 16 years and over, in Algeria durin the period of 12 months of inclusion, by Wilaya (Province [Wilaya]).		
	 5/ Total number of cases of AITP, aged 16 years and over, previously diagnosed in A during the period of study. 6/ Characteristics of patients diagnosed with AITP and aged 16 years and over, in A (age, gender, risk factors and comorbidities). 		
Patients selection criteria	Inclusion criteria:		
criteria	1/ Patients of both genders.		
	2/ Patients aged 16 years and over.		
	3/ Patients treated in the hematology departments in Algeria.		
	4/ Patients presenting with AITP during the inclusion period, whether the patient is previously diagnosed (prior to inclusion visit) or newly diagnosed (at the time of the inclusion visit).		
	5/ Patients who have given their written consent.		
	Criteria for non-inclusion:		
	1/ Patients who have not given their written consent.		
	2/ Patients already included in the study. A patient can be monitored and treated in two different hematology departments. Hence, a coding system will be generated to avoid duplicated participations.		
	3/ Patients participating in another study.		
Study conduct	This study will be proposed to all the heads of the departments of hematology in Algerian hospitals.		
	Each hematologist participating in the study will respectively include eligible patients over a period of 12 months.		
	. Data will be collected on a case report form (CRF) during study period (from 1 st September 2017 to 31 st August 2018). Data will be collected during these routine patient visits at initial visits, 3 months, 6 months wich will occur during the study period. No data will be collected after the end of study period.		
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	All patients presenting at the departments of hematology during a routine visit will be sequentially offered to participate in the study.		
	In each department of hematology, the Investigator (physician) or one of his/her legal representatives will complete a case report form (CRF).		
Data to be collected	Department form:		
	1/ Characteristics of the department of hematology:		
	Wilaya (province)		
	• City		





•	Refusal / acceptance of participation
•	Ground for refusal (if applicable)
•	Number of patients followed up for AITP
•	Number of patients refusing to participate
•	Age and gender of patients refusing to participate
	Date (dd/mmm/yyyy) or at least the month of participation refusal for these patients
CRF: Inclusion visit: visit 1	
 2. Eligibility of patients 	
 Signature of consent for 	ากา
 4. Date of signature of consent is 	
 Demographic characte 	
	Gender
	Date of birth
	Place of residence (Province)
6. Comorbidities:	
	Do they confer a bleeding risk or risk of injury?
	If yes, specify the comorbidity:
	1) Cancer
	2) Pupura
	3) Increased tendency to bruise
	4) Neutropenia
	5) Whole blood transfusion
	6) Anemia
	7) Iron deficiency anemia
	8) Ecchymosis
	9) Contusion
	10) Chills
	11) Rigors
	12) Chemoprophylaxis
	13) Hematemesis
	14) Hemoptysis
	15) White blood cell disorder
	16) Pneumonia
	17) Respiratory disorder





18)	Blister
19)	Dry mouth
20)	Mouth ulceration
21)	Leg ulcer
22)	Lethargy
23)	Epistaxis
24)	Dementia
25)	Confusion
26)	Decubitus ulcer
27)	Skin ulcer
28)	Dermatitis diaper
29)	Oral candidiasis
30)	Rush
31)	Eczema gravitational
32)	Pressure sore
33)	Phlebitis
34)	Venesection
35)	Venipuncture
36)	Peripheral swelling
37)	Stasis dermatitis
38)	Myocardial infarction
39)	Unstable angina
40)	Atrial fibrillation
41)	Congestive cardiac failure
42)	Ventricular failure
43)	Intermittent claudication
44)	Cerebrovascular accident
45)	Oedema peripheral
46)	Malaise
47)	Oral pain
48)	Abdominal pain
49)	Hip arthroplasty
50)	Dry eye
51)	Keratoconjunctivitis
52)	Folliculitis
53)	Acarodermatitis
54)	Scabies infestation





	55) Diabetes mellitus non-insulin-dependent		
	56) Prostatism		
	57) Vaginal hemorrhage		
	58) Menorrhagia		
	59) Osteoporosis		
	60) Rectal hemorrhage		
	61) Gastro-oesophageal reflux disease		
	62) Viral infection		
	63) Other, specify		
	7. Diagnosis:		
	• Date of diagnosis of AITP		
	• Age at diagnosis of AITP		
	Hemorrhage score		
	• Diagnosis stage (severity): asymptomatic / easy bruising / severe bleeding		
	Complete blood count		
	• Examination of peripheral blood smear		
	8. First-line treatment:		
	• Start date of treatment (if applicable)		
	• Type of treatment: no treatment /corticotherapy / immunotherapy / steroid-sparing drugs / immunosuppressants / combined therapy / splenectomy / bone marrow transplantation / other (specify)		
	Route of administration		
	•		
Statistical	The data will be processed anonymously and confidentially.		
methodology	Statistical analysis will be performed using SAS software.		
	A detailed statistical analysis plan will be prepared and validated by the Sponsor of the study before freezing of database and the beginning of the statistical analysis.		
	This study is an estimation study, so no formal statistical testing will be performed.		
	Missing data will not be replaced except for incomplete dates in order to allow the calculation of an interval between two dates. In this case one day and/or missing months are completed.		
	Descriptive statistics		
	 Description of variables: 		
	Depending on the nature of the criteria, descriptive statistics will be performed as follow:		
	- Continuous variables are described by their frequency, mean, standard deviation, median, quartiles 1 and 3, extreme values (minimum and maximum) and the number of missing values.		





	- Categorical variables are described by the frequency, the percentage of each of the possible answers and the number of missing data.
	 Description of the participating hospitals:
	The Provinces of hematology departments having refused to participate in the study will be compared with those who agreed to participate. The possible collected reasons for refusal will be described.
	 Description of the population of patients:
	Eligible population will consist of all patients included, that is to say for whom the selection criteria will be available and who meet the eligibility criteria.
	A descriptive analysis of the collected variables will be conducted in this population.
	Incident AITP cases will be defined as all patients with an AITP diagnosed 3 months or less before the inclusion visit. All other AITP patients will be defined as prevalent cases.
	Analysis of study endpoints
	 Analysis of the primary endpoint:
	Incidence will be estimated as the total number of incident cases divided by the number of Algeria inhabitants aged 15 years old or more. The two-sided 95% confidence interval (CI) will be estimated.
	 Analysis of the secondary endpoint :
	The incidence will be estimated as the total number of incident cases, by age and gender.
	The prevalence will be estimated as the number of all included AITP (incident and prevalent) cases divided by the number of Algeria inhabitants aged 15 or more. The 95% CI will be estimated.
	All characteristics of the patients will be described in each group: incident and prevalent cases.
Provisional	 Approval from the Ministry of Health: April 2017
schedule of study	 Study initiation in the hematology departments: September 2017
	 End of patient data collection: August 2018
	 Data analysis: March 2019
	 Final Study Report: September 2019
	 Date of publication: December 2019