







Maladies Rares du Développement Cérébral et Déficience Intellectuelle

FILIÈRE NATIONALE DE SANTÉ

PRECLINICAL PHASE

DETERMINATION of the TARGET of the DRUG

(organ, receptor...)

PHARMACOKINETICS

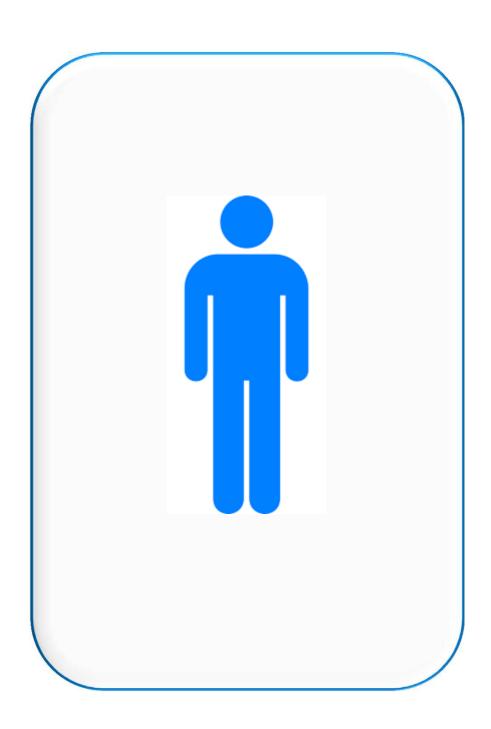
How the ORGANISM affects a DRUG

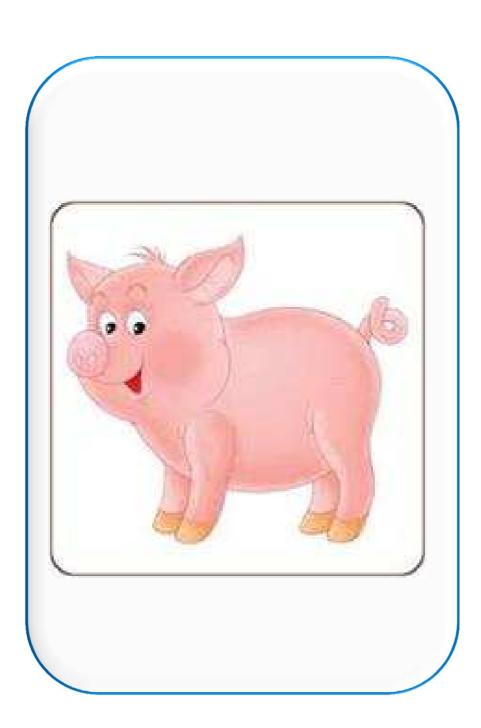
TOXICITY DOSE LIMIT

PHARMACODYNAMIC

How the DRUG affects the ORGANISM







PHASE 1

1st ADMINISTRATION in man

PHARMACOKINETICS

How the ORGANISM affects a DRUG

STUDIES in HEALTHY VOLUNTEERS

UNIQUE DOSE then possible MULTIPLE ASCENDING DOSE

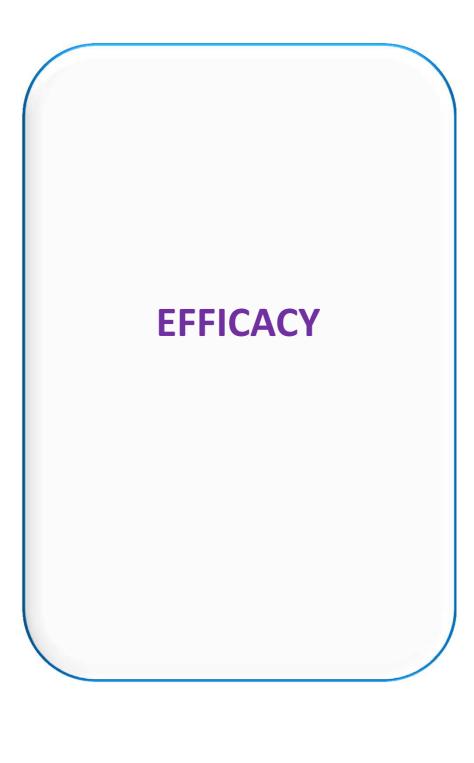
1 PATIENT AT A TIME





A HUNDRED OF PATIENTS ENROLLED

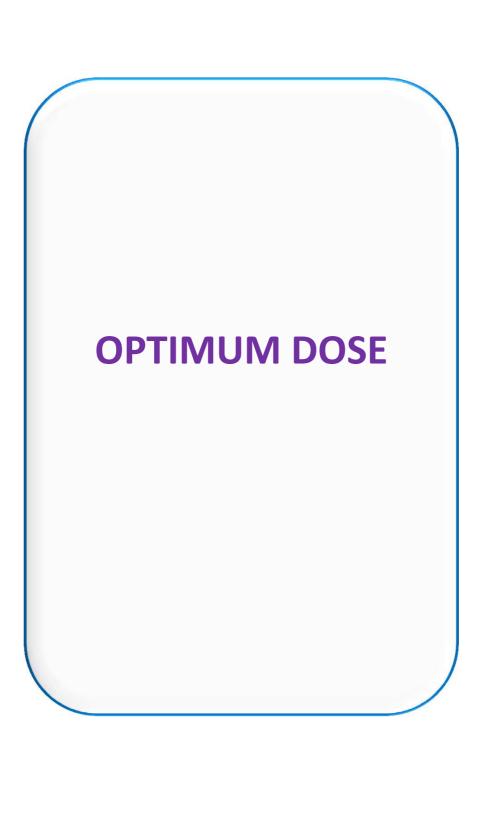


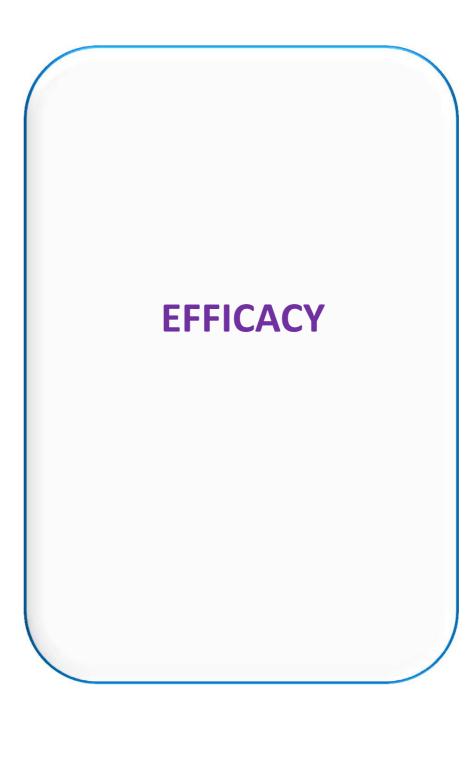


PHASE 2

MULTIPLE DOSE over time

Few Patients Homogenous population



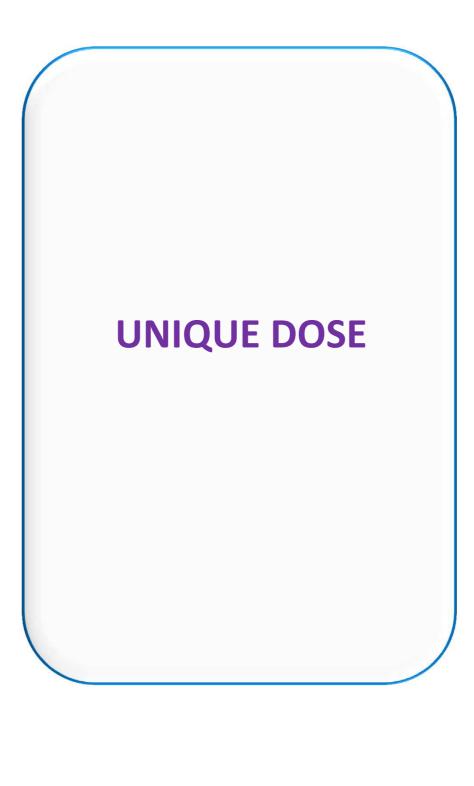




SEVERAL DOSES TESTED

COMPARISON of DOSES

LARGE NUMBER of PATIENTS



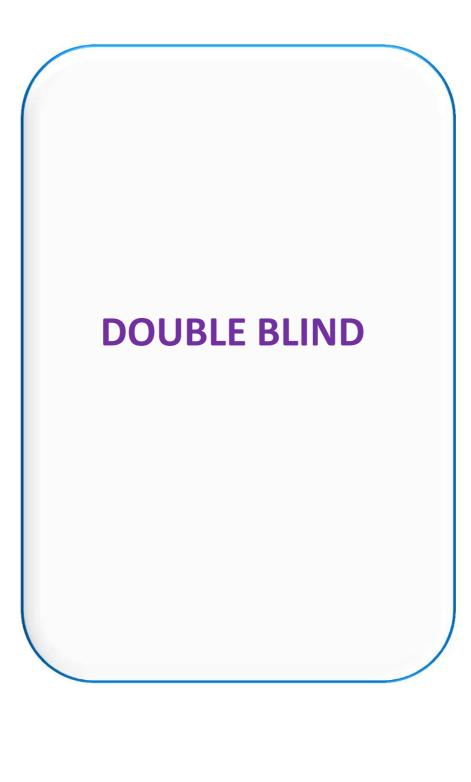
PHARMACO-VIGILANCE

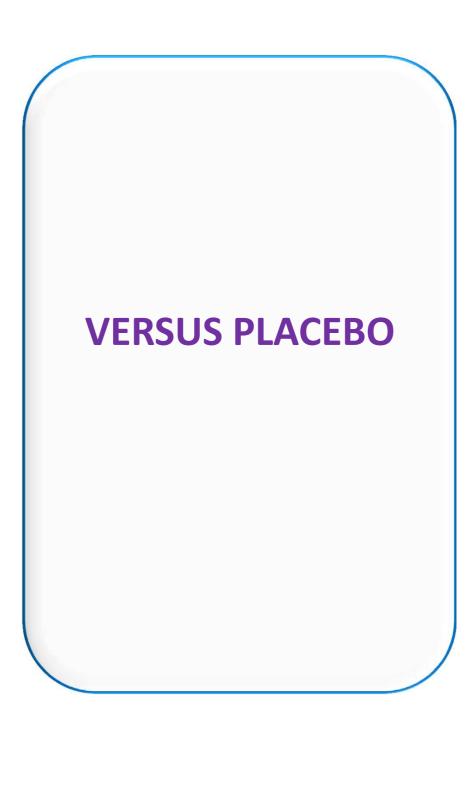
PHASE 3



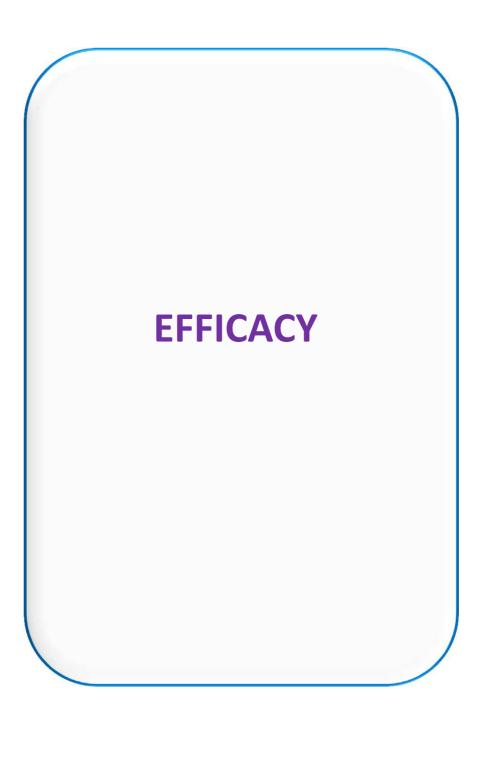


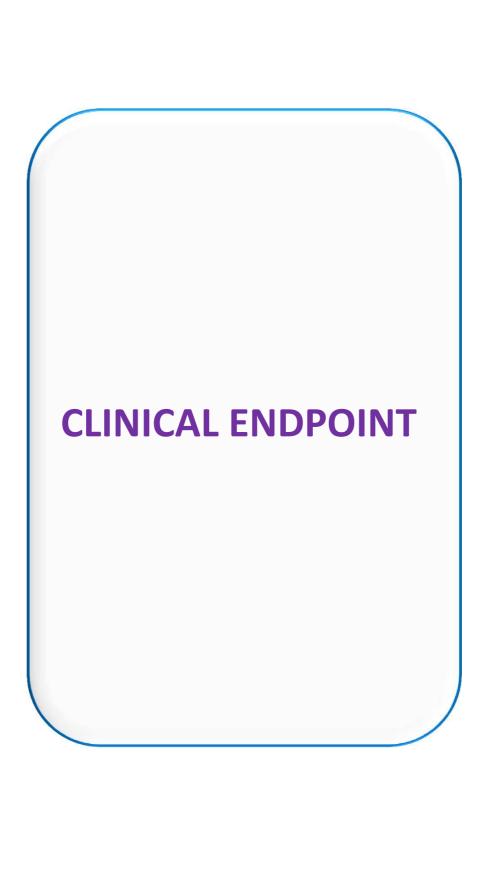
RANDOMIZED CLINICAL TRIALS





REPRESENTATIVENESS POPULATION TO TREAT





THERAPEUTIC INTEREST

BENEFIT/RISK BALANCE

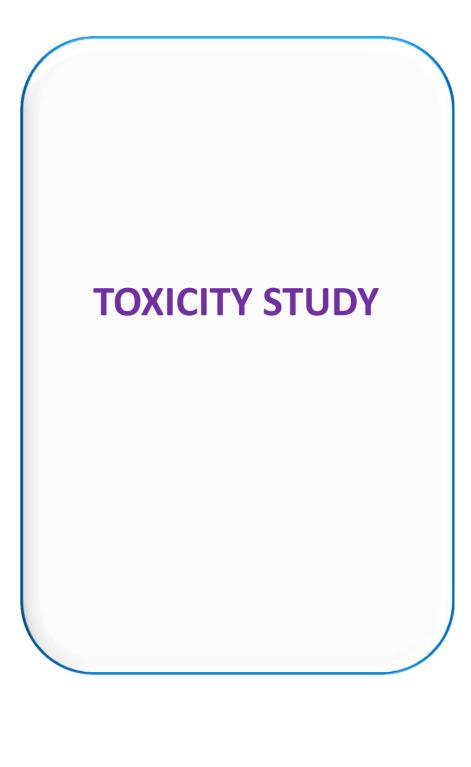
DOSSIER FOR MARKETING AUTHORIZATION

DEFINITION of the CONDITION of the MARKETING AUTHORIZATION

PHARMACO-VIGILANCE

PHARMACO-VIGILANCE

SMALL NUMBER OF PATIENTS



PHASE 4

POST-MA STUDIES

RARE SIDE EFFECTS DETECTION

PHARMACO-VIGILANCE

COST/EFFICACY

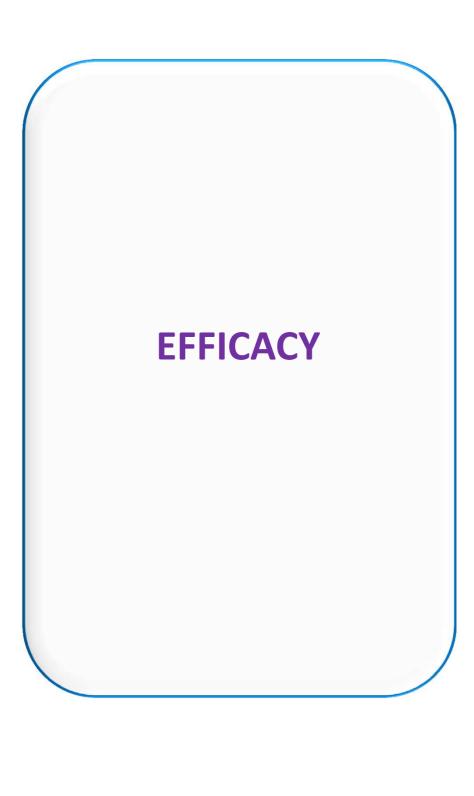
BENEFIT/RISK BALANCE IN « REAL LIFE »

EVALUATION of the USE of the DRUG: MISUSE, GOOD USE

REAL LIFE CONDITIONS LARGE SCALE

THE THERAPEUTIC EFFECT of the DRUG in REAL LIFE CONDITION

OBJECTIVE: OBTAIN THE MA



SMALL NUMBER OF PATIENTS

PHARMACOKINETICS

How the ORGANISM affects a DRUG