



**Efficacy of Adding N-acetyl-cysteine to
Clomiphene Citrate in PCOS Woman
Who Had Ovarian Drilling:
Randomized Controlled Trial**

Thesis

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List of Abbreviations

<i>Abbre.</i>	<i>Full term</i>
A	: Androstenedione
AE-PCOS	: Androgen Excess and Polycystic Ovary Society
AES	: Androgen Excess Society
AGA	: Androgenic alopecia
ASRM	: American Society for Reproductive Medicine
BMI	: Body mass index
CC	: Clomiphene citrate
CHD	: Coronary heart disease
CNS	: Central nervous system
COPD	: Chronic obstructive pulmonary disease
CPA	:Cyproterone acetate
CyP17	: Cytochrome P-45017 alpha gene
DENNADIA	:Denn/HADD domain-containing protein 1A
DHEA	: Dehydroepiandrosterone
DHEA-S	: Dihydroepiandrosterone sulphate
DHT	: Dihydrotestosterone
ERAP1	: Endoplasmic reticulum amino peptidase 1
ESHRE	: European Society of Human Reproduction and Embryology
FDA	: Food and drug administration
FSH	: Follicular stimulating hormone
GnRH	: Gonadotropin releasing hormone
GnRH_a	: Gonadotropin releasing hormone agonist
GSH	: Glutathione sulfhydryl groups

List of Abbreviations (Cont.)

<i>Abbre.</i>	<i>Full term</i>
HA	: Hyperandrogenism
HCG	: Human chorionic gonadotropin
HDL	: High density lipoprotein
HMG	: Human menopausal gonadotropins
HOMA	: Homeostatic model assessment
HOMA-IR	: Homeostatic model assessment-insulin resistance
HPG	: Hypothalamic pituitary gland
HSG	: Hystosalpinogogram
ICSI	: Intracytoplasmic sperm injection
IGF-1	: Insulin growth factor-1
IGFBP-1	: Insulin like growth factor binding protein-1
IR	: Insulin resistance
IUI	: Intrauterine insemination
LDL	: Low density lipoprotein
LH	: Luteinizing hormone
LHCGR	: Luteinizing hormone chorionic gonadotropin receptor
LOD	: Laparoscopic ovarian drilling
MET	: Metformin
NAC	: N-acetyl cysteine
NAC-CC	: N-acetyl cysteine-clomiphene citrate combination
NHANES	: National Health and Nutrition Examination Survey
NICHD	: National Institute of Child Human Development

List of Abbreviations (Cont.)

<i>Abbre.</i>	<i>Full term</i>
NIH	: National Institute of Health
OGTT	: Oral glucose tolerance test
OHSS	: Ovarian hyperstimulation syndrome
PCOM	: Polycystic ovarian morphology
PCOS	: Polycystic ovary syndrome
PRL	: Prolactin
RPL	: Recurrent pregnancy loss
SH	: Sulfhydryl group
SHBG	: Sex hormone binding globin
SNPs	: Single nucleotide polymorphisms
SPSS	: Statistical package for Social Sciences
T	: Testosterone
THADA	: Thyroid adenoma –associated protein
TNF-α	: Tumor necrotic factor-alpha
TSH	: Thyroid stimulating hormone
17-OHP	: 17 hydroxy -progesterone
3b-HSD	: 3b-hydroxysteroid dehydrogenase

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Protocol





Introduction





Aim of the Work



Review of Literature



Subjects and Methods



Results
