

# MATERNAL-FETAL EVIDENCE BASED GUIDELINES THIRD EDITION



VINCENZO BERGHELLA





# MATERNAL-FETAL EVIDENCE BASED GUIDELINES THIRD EDITION

# EDITED BY

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To Paola, Andrea, Pietro, Mamma, and Papá,

For giving me the serenity, love, and strength at home now, then, and in the future to fulfill my dreams and spend my talents as best as possible.

To all those who loved the first and second editions

To my mentors and to my mentees who have been so passionate and supportive about these books

To the health of mothers and babies

And—as I often toast—to the next generation!

# Introduction

Welcome to the third edition of our evidence-based books on obstetrics and maternal-fetal medicine! I am indebted for your support! I can't believe how much praise we have gotten for these companion volumes. Your words of encouragement have kept me and all the collaborators, past and present, going now for well over a decade (we are indebted to contributors to previous editions of this text for their work). It has been extremely worthwhile and fulfilling. You are making me happy! In return, I hope we are helping you and your patients toward ever better evidence-based care of pregnant women and their babies and, therefore, better outcomes. Indeed, maternal and perinatal morbidities and mortalities throughout the world are improving.

To me, pregnancy has always been the most fascinating and exciting area of interest as care involves not one, but at least two persons—the mother and the fetus—and leads to the miracle of a new life. I was a third-year medical student when, during a lecture, a resident said, "I went into obstetrics because this is the easiest medical field. Pregnancy is a physiologic process, and there isn't much to know. It is simple." I knew from my "classical" background that "obstetrics" means to "stand by, stay near," and that indeed pregnancy used to receive no medical support at all.

After more than 25 years of practicing obstetrics, I now know that although physiologic and, at times, simple, obstetrics and maternal-fetal medicine can be the most complex of the medical fields: Pregnancy is based on a different physiology than for nonpregnant women, can include any medical disease, require surgery, etc. It is not so simple. In fact, ignorance can kill—in this case, with the health of the woman and her baby both at risk. Too often, I have gone to a lecture, journal club, rounds, or other didactic event to hear presented only one or a few articles regarding the subject without the presenter reviewing the pertinent best review of the total literature and data. It is increasingly difficult to read and acquire knowledge of all that is published, even just in obstetrics, with about 3000 scientific manuscripts published monthly on this subject. Some residents or even authorities would state at times that "there is no evidence" on a topic. We indeed used to be the field with the worst use of randomized trials [1]. As the best way to find something is to look for it, my coauthors and I searched for the best evidence. On careful investigation, indeed there are data on almost everything we do in obstetrics, especially on our interventions. Indeed, our field is now the pioneer for numbers of meta-analyses and extension of work for evidencebased reviews [2]. Obstetricians are now blessed with lots of data and should make the best use of it.

The aims of this book are to summarize the best evidence available in the obstetrics and maternal-fetal medicine literature and make the results of randomized controlled trials (RCTs) and meta-analyses of RCTs easily accessible to guide clinical care. The intent is to bridge the gap between knowledge (the evidence) and its easy application. To reach these goals, we reviewed all trials on effectiveness of interventions in obstetrics. Millions of pregnant women have participated in thousands of properly conducted RCTs. The efforts and sacrifice of mothers and their fetuses for science should be recognized at least by the physicians' awareness and understanding of these studies. Some of the trials have been summarized in more than 600 Cochrane reviews with hundreds of other meta-analyses also published on obstetrical topics (Table 1). All of the Cochrane reviews, as well as other meta-analyses and trials in obstetrics and maternal-fetal medicine, were reviewed and referenced. The material presented in single trials or meta-analyses is too detailed to be readily translated to advice for the busy clinician who needs to make dozens of clinical decisions a day. Even the Cochrane Library, the undisputed leader for evidence-based medicine efforts, has been criticized for its lack of flexibility and relevance in failing to be more easily understandable and clinically readily usable [3]. It is the gap between research and clinicians that needed to be filled, making sure that proven interventions are clearly highlighted and are included in today's care. Just as all pilots fly planes under similar rules to maximize safety, all obstetricians should manage all aspects of pregnancy with similar, evidencedbased rules. Indeed, only interventions that have been proven to provide benefit should be used routinely. On the other hand, primum non nocere: interventions that have clearly been shown to be not helpful or indeed harmful to mother and/or baby should be avoided.

Table 1 Obstetrical Evidence

More than 600 current *Cochrane* reviews Hundreds of other current meta-analyses More than 1000 RCTs Millions of pregnant women randomized

Another aim of this book is to make sure the pregnant woman and her unborn child are not marginalized by the medical community. In most circumstances, medical disorders of pregnant women can be treated as in nonpregnant adults. Moreover, there are several effective interventions for preventing or treating specific pregnancy disorders.

Evidence-based medicine is the concept of treating patients according to the best available evidence. Although George Bernard Shaw said, "I have my own opinion, do not confuse me with the facts," this can be a deadly approach, especially in medicine, and compromise two or more lives at the same time in obstetrics and maternal-fetal medicine. What should be the basis for our interventions in medicine? Meta-analyses of RCTs provide a comprehensive summary of the best research data available. As such, they provide the best guidance for "effective" clinical care [4]. It is unscientific and unethical to practice medicine, teach, or conduct research without first knowing all that has already been proven [4]. In the absence of trials or meta-analyses, lower-level evidence is reviewed. This book aims at providing a current systematic review of all the best evidence so that current practice and education as well as future research can be based on the full story from the best-conducted research, not just the latest data or someone's opinion (Table 2).

These evidence-based guidelines cannot be used as a "cookbook" or a document dictating the best care. The knowledge from the best evidence presented in the guidelines needs to be integrated with other knowledge gained from clinical judgment, individual patient circumstances, and patient preferences to lead to best medical practice. These are guidelines, not rules. Even the best scientific studies are not always perfectly related to any given individual, and clinical judgment must still be applied to allow the best "particularization" of the best knowledge for the individual, unique patient. Evidence-based medicine informs clinical judgment but does not substitute it. It is important to understand, however, that greater clinical experience by the physician actually correlates with inferior quality of care if not integrated with knowledge of the best evidence [5]. The appropriate treatment is given in only 50% of visits to general physicians [5]. At times, limitations in resources may also limit the applicability of the guidelines but should not limit the physician's knowledge. Guidelines and clinical pathways based on evidence not only point to the right management, but also can decrease medicolegal risk [6]. We aimed for brevity and clarity. Suggested management of the healthy or sick mother and child is stated as straightforwardly as possible for everyone to easily understand and implement (Table 3). If you find the Cochrane reviews, scientific manuscripts, and other publications difficult to "translate" into care of your patients, this book is for you. We wanted to prevent information overload.

# Table 2 Aims of This Book

Improve the health of women and their children "Make it easy to do it right"
Implement the best clinical care based on science (evidence), not opinion
Education
Develop lectures
Decrease disease, use of detrimental interventions, and therefore costs
Reduce medicolegal risks

## Table 3 This Book Is For

Obstetricians
Midwives
Family medicine and others (practicing obstetrics)
Residents
Nurses
Medical students
Maternal-fetal medicine attendings
Maternal-fetal medicine fellows
Other consultants on pregnancy
Lay persons who want to know "the evidence"
Politicians responsible for health care

# INTRODUCTION

xii

On the other hand, "everything should be made as simple as possible, but not simpler" (A. Einstein). Key management points are highlighted at the beginning of each guideline and in bold in the text. The chapters are divided into two volumes, one on obstetrics and one on maternal-fetal medicine; cross-references to chapters in *Obstetric Evidence Based Guidelines* have been noted in the text where applicable. Please contact us (vincenzo.berghella @jefferson.edu) for any comments, criticisms, corrections, missing evidence, etc.

I have the most fun discovering the best ways to alleviate discomfort and disease. The search for the best evidence for these guidelines has been a wonderful, stimulating journey. Keeping up with evidence-based medicine is exciting. The most rewarding part, as a teacher, is the dissemination of knowledge. I hope, truly, that this effort will be helpful to you, too.

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# How to "Read" This Book

The knowledge from RCTs and meta-analyses of RCTs is summarized and easily available for clinical implementation. Relative risks and 95% confidence intervals from studies are quoted sparingly. Instead, the straight recommendation for care is made if one intervention is superior to the other with the percentage improvement often quoted to assess degree of benefit. If there is insufficient evidence to compare to interventions or managements, this is clearly stated.

References: Cochrane reviews with 0 RCT are not referenced, and instead of referencing a meta-analysis with only one RCT, the actual RCT is usually referenced. RCTs that are already included in meta-analyses are not referenced for brevity and because they can be easily accessed by reviewing the meta-analysis. If new RCTs are not included in meta-analysis, they are obviously referenced. Each reference was reviewed and evaluated for quality according to a modified method as outlined by the U.S. Preventive Services Task Force (http://www.ahrq.gov):

I	Evidence obtained from at least one properly designed randomized con-
	trolled trial.

II-2 Evidence obtained from well-designed cohort or case-control analytic

studies, preferably from more than one center or research group.

II-3 Evidence obtained from multiple time series with or without the intervention. Dramatic results in uncontrolled experiments could also be regarded.

tion. Dramatic results in uncontrolled experiments could also be regarded as this type of evidence.

III (Review) Opinions of respected authorities, based on clinical experience, descriptive studies, or reports of expert committees.

These levels are quoted after each reference. For RCTs and meta-analyses, the number of subjects studied is stated, and, sometimes, more details are provided to aid the reader to understand the study better.

# **List of Abbreviations**

AA AAN	artery-to-artery American Academy of	ARPV	airway pressure release ventilation
AAN	Neurology	ART	antiretroviral therapy
AAP	American Academy of	ART	assisted reproductive
74744	Pediatrics –	71111	technologies
AASLD	American Association for	ASA	aspirin
	the Study of Liver Diseases	ASD	atrial septal defect
Ab	antibody	ASD	autism spectrum disorder
AC	abdominal circumference	AST	aspartate aminotransferase
ACA	anticardiolipin antibody	ATIII	antithrombin III
ACCM	American College of Critical Care Medicine	ATLS	Advanced Trauma Life Support
ACE	angiotensin-converting	ATS	American Thoracic Society
ACL	enzyme	AV	artery-to-vein
ACOG	American College	AVD	assisted vaginal delivery
ACOG	of Obstetricians and	AZT	zidovudine
	Gynecologists	BAD	bipolar disorder
ACR	acute cellular rejection	BCG	bacille Calmette-Guerin
ACR	American College of	BHI	biphasic human insulin
71011	Rheumatology	BIAsp	biphasic insulin aspart
ACS	acute chest syndrome	bid	"bis in die," i.e., twice per
ADHD	attention deficit		day
	hyperactivity disorder	BMI	body mass index
ADP	atopic dermatitis of	BP	blood pressure
	pregnancy	BPD	biparietal diameter
ADR	autonomic dysreflexia	BPD	bronchopulmonary
AED	antiepileptic drug		dysplasia
AEDF	absent end-diastolic flow	bpm	beats per minute
AEP	atopic eruption of	BPP	biophysical profile
	pregnancy	BPS	biophysical profile score
AF	amniotic fluid	BUN	blood urea nitrogen
AFE	amniotic fluid embolism	CAP	community-acquired
AFI	amniotic fluid index		pneumonia
AFP	alpha-fetoprotein	CBC	complete blood count
AFV	amniotic fluid volume	CCAM	congenital cystic
Ag	antigen		adenomatoid
AGA	appropriate for gestational		malformation
	age	CCTG	computerized
AHA	American Heart Association		cardiotocography
aHR	adjusted hazard ratio	CD	cesarean delivery
AIDS	acquired immune	CD	Crohn's disease
	deficiency syndrome	CDC	Centers for Disease
AII	angiotensin type II		Control
AIT	alloimmune	CDH	congenital diaphragmatic
	thrombocytopenia		hernia
ALI	acute lung injury	CF	cystic fibrosis
ALT	alanine aminotransferase	CFC	chlorofluorocarbon
ANA	antinuclear antibodies	CFU	colony-forming unit
APA	American Psychiatric Association	cGH	comparative genomic hybridization
APS	antiphospholipid	CGRP	calcitonin gene-related
AIO	syndrome	COM	peptide
aPT	activated prothrombin time	СНВ	congenital heart block
aPTT	activated partial	CHD	congenital heart defect
	thromboplastin time	CHF	congestive heart failure
ARDS	adult respiratory distress	CHIPS	Control of Hypertension in
-	syndrome		Pregnancy Study
AROM	artificial rupture of	CHTN	chronic hypertension
	membranes	CL	cervical length
			0

CLIA	Clinical Laboratory	ECT	electroconvulsive therapy
	Improvement	ECV	external cephalic version
	Amendments	ED	emergency department
CMV	cytomegalovirus	EDC	estimated date of
CNS		LDC	confinement
	central nervous system	EDD	
CPAM	congenital pulmonary	EDD	estimated date of delivery
	airway malformation		(synonym of EDC)
CPAP	continuous positive airway	EDF	end-diastolic flow
	pressure	EFW	estimated fetal weight
CPR	cardiopulmonary	EIA	enzyme immunoassay
CIK	resuscitation	EKG	
CDD			electrocardiogram
CPR	cerebroplacental ratio	ELISA	enzyme-linked
CPS	capsular polysaccharide		immunosorbent assay
CPS	complex partial seizure	EM	electron microscopy
CRF	chronic renal failure	EM	expectant management
CRI	chronic renal insufficiency	EN	enteral nutrition
CRL	crown-rump length	EPCOT	European Prospective
	1 0	Ercor	
CS	corticosteroid		Cohort on Thrombophilia
CSD	cortical spreading	EPDS	Edinburgh Postnatal
	depression		Depression Scale
CSE	combined spinal epidural	EPS	extrapyramidal symptom
CSF	cerebrospinal fluid	EPT	expedited partner therapy
CSII	continuous subcutaneous	ERCP	endoscopic retrograde
Con		LKCI	
	insulin infusion		cholangiopancreatography
CST	contraction stress test	ESLD	end-stage liver disease
CT	computerized tomography	ESRD	end-stage renal disease
CT	connective tissue	FAST	focused abdominal
CTG	cardiotocography		sonogram for trauma
CTPA	computed tomography	FBS	fetal blood sampling
CIIA		FD	fetal distress
OTT	pulmonary angiography		
CTZ	chemo-receptor trigger zone	FDA	Food and Drug
CVS	chorionic villus sampling		Administration
CVS	congenital varicella	FDC	fixed-dose combination
	syndrome	FEV1	forced expiratory volume
D&E	dilation and evacuation		in one second
DAA	direct-acting antiviral	FFN	fetal fibronectin
		TITIA	ictal indionectini
DAA	_	ECD	Catal assesstly wasteristing
	agent	FGR	fetal growth restriction
DBP	agent diastolic blood pressure	FGR FHM	familial hemiplegic
	agent		
DBP	agent diastolic blood pressure dichorionic/diamniotic		familial hemiplegic
DBP DC/DA	agent diastolic blood pressure dichorionic/diamniotic diethylstilbestrol	FHM FHR	familial hemiplegic migraine fetal heart rate
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GHTN	gestational hypertension	IUGR	intrauterine growth
GI	gastrointestinal		restriction (synonym of
GISP	Gonococcal Isolate		FGR)
	Surveillance Project	IUPC	intrauterine pressure
GTC	generalized tonic clonic		catheter
GTT	glucose tolerance test	IV	intravenous
GWG	gestational weight gain	IVC	inferior vena cava
HAART	highly active antiretroviral	IVDU	
HAAKI			intravenous drug use
TT A T /	therapy	IVF	intravenous fluids
HAV	hepatitis A virus	IVH	intraventricular
HBsAg	hepatitis B surface		hemorrhage
	antigen	L&D	labor and delivery
HBV	hepatitis B virus	L/S	lecithin/sphingomyelin
HC	head circumference	LA	lupus anticoagulant
HCG	human chorionic	LABA	long-acting β-agonist
	gonadotroponin	LAGB	laparoscopic adjustable
Hct	hematocrit		gastric baning
HCV	hepatitis C virus	LB	lamellar body
HD	hemodialysis	LBW	low birth weight
HD	Hodgkin's disease	LBW	low birth weight (infants)
HDU	high-dependency unit	LCR	ligase chain reaction
HELLP	hemolysis, elevated liver	LFT	liver function tests
HELLI		LGA	
	enzymes, and low platelet		large for gestational age
TIPO	count	LGV	lymphogranuloma
HES	hydroxyethyl starch		venereum
HFA	hydrofluoroalkane	LMP	last menstrual period
HG	hyperemesis gravidarum	LMW	low molecular weight
Hgb	hemoglobin	LMWH	low-molecular-weight
HIE	hypoxic-ischemic		heparin
	encephalopathy	LR	likelihood ratio
HIT	heparin-induced	LSD	lysergic acid diethylamide
	thrombocytopenia	LSD	lysosomal storage disease
HIV	human immunodeficiency	LTRA	leukotriene receptor
	virus		antagonist
HLA	human leukocyte antigen	MA/MC	monoamniotic
HPA	hypothalamic-pituitary-	MAC	mycobacterium avium
IIIA	adrenal	WIAC	
IIDA		MAOI	complex
HPA	human platelet antigen	MAOI	monoamine oxidase
HR	heart rate	3.64.0	inhibitor
HSV	herpes simplex virus	MAS	meconium aspiration
HTN	hypertension		syndrome
IAAT	immunosorbent	MC/DA	monochorionic diamniotic
	agglutination assay test	MCA	middle cerebral artery
IALE	International League	MCV	mean corpuscular volume
	Against Epilepsy	MD	mean difference
IBD	inflammatory bowel	MDD	major depressive disorder
	disease	MDI	metered-dose inhaler
IBW	ideal body weight	MDI	multiple-dose insulin
ICH	intracranial hemorrhage	MDQ	Mood Disorders
ICP	intrahepatic cholestasis of	2	Questionnaire
ici		MDR	multidrug-resistant
ICS	pregnancy	MFM	maternal–fetal medicine
ics	immunochromatographic		
TOC	strip	MHC	major histocompatibility
ICS	Intensive Care Society		complex
ICU	intensive care unit	MI	myocardial infarction
IDSA	Infectious Diseases Society	MM	malignant melanoma
	of America	MMF	myco-phenolate mofetil
IGRA	interferon gamma-release	MMR	measles-mumps-rubella
	assay	MOM	multiple of the median
IH	impetigo herpetiformis	MPA	mycophenolic acid products
IM	intramuscular	MRCP	magnetic resonance
INR	international normalized		cholangiopancreatography
	ratio	MRI	magnetic resonance
IOL	induction of labor	171111	imaging
IPAA		MRII	
плл	ileal pouch–anal	MRU	magnetic resonance
IDI/	anastomosis	MCAPD	urography
IPV	inactivated polio vaccine	MSAFP	maternal serum
ISS	injury severity score	> 4077	alpha-fetoprotein
IUD	intrauterine device	MSH	melanocyte-stimulating
IUFD	intrauterine fetal demise		hormone

MTHFR	methylenetetrahydrofolate	NVP	nausea and vomiting of
	reductase		pregnancy
MTX	methotrexate	OB	obstetrician
MVI	prenatal multivitamin	OCT	oxytocin challenge test
MVP	maximum vertical pocket	OCT	oxytocin contraction test
MZ	monozygotic	OGTT	oral glucose tolerance test
n/v	nausea and/or vomiting	OPV	oral live polio vaccine
NA NA ACCORD	not available	OR	odds ratio
NA-ACCORD	North American AIDS	OR	operating room
	Cohort Collaboration on Research and Design	OSA OTC	obstructive sleep apnea over the counter
NAAED	North American	PAPP-A	pregnancy-associated
NAALD	Antiepileptic Drug	IAII-A	plasma protein-A
NAAT	nucleic acid amplification	PC	platelet count
14/1/11	test	PC	protein C
NAEPP	National Asthma	PCA	patient-controlled
	Education and Prevention		analgesia
	Program	PCI	percutaneous coronary
NAIT	neonatal alloimmune		intervention
	thrombocytopenia	PCP	phencyclidine
NAS	neonatal abstinence	PCP	Pneumocystis carinii
	syndrome		pneumonia
NBPP	neonatal brachial plexus	PCR	polymerase chain reaction
	palsy	PCWP	pulmonary capillary
NCHS	National Center for Health		wedge pressure
	Statistics	PD	peritoneal dialysis
NEC	necrotizing enterocolitis	PDA	patent ductus arteriosus
NG	nasogastric	PE	pulmonary embolus
NHL	Non-Hodgkin's lymphoma	PEA	pulseless electrical activity
NICU	neonatal intensive care	PEFR	peak expiratory flow rate
	unit	PEP	polymorphic eruption of
NIH	National Institutes of	DED	pregnancy
	Health	PER	prophylaxis effective rate
NIH	nonimmune hydrops	PET	positron emission
NIS	National Inpatient Sample	DED	tomography
NNRTI	non-nucleoside reverse	PFP	pruritic folliculitis of
NODM	transcriptase inhibitor new-onset diabetes	PFT	pregnancy pulmonary function tests
NODM	mellitus	PG	pemphigoid gestationis
NOTES	natural orifice	PG	phosphatidylglycerol
NOTES	translumenal endoscopic	PG	plasma glucose
	surgery	PGL	persistent generalized
NPH	neutral protamine		lymphadenopathy
	Hagedorn	PGM	prothrombin gene
NRFHR	nonreassuring fetal heart		mutation
	rate	PI	protease inhibitor
NRFHT	nonreassuring fetal heart	PI	pulsatility index
	testing	PICC	peripherally inserted
NRFS	nonreassuring fetal status		central catheter
NRI	norepinephrine reuptake	PID	pelvic inflammatory
	inhibitor		disease
NRT	nicotine replacement	PK	pharmacokinetic
	therapy	PL	pregnancy loss
NRTI	nucleoside reverse	PIGF	placental growth factor
NIC	transcriptase inhibitor	PMCD	perimortem cesarean
NS	nephrotic syndrome	DAI	delivery
NS	normal saline	PN PNC	parenteral nutrition
NSAIDS	nonsteroidal anti-	PNM	prenatal care perinatal mortality
NSCIA	inflammatory drugs National Spinal Cord		"per os," i.e., by mouth
Nocia	Injury Association	po PP	prurigo of pregnancy
NST	nonstress test	PP-13	placental protein-13
NSVD	normal spontaneous	PPD	purified protein derivative
NOVE	vaginal delivery	PPH	postpartum hemorrhage
NT	nuchal translucency	PPHN	persistent pulmonary
NTD	neural tube defect		hypertension of the
NTDB	National Trauma Data		newborn
	Banks	PPI	proton-pump inhibitor
NTPR	National Transplantation	PPROM	preterm premature
	Pregnancy Registry		rupture of membranes

xviii

XVIII	LIST OF A	ABBREVIATIONS		
PR	2	or rockim	SLE	gretomic lunus
pRBC		er rectum acked red blood cells	SLE	systemic lupus erythematosus
PRCD	_	lanned repeat cesarean	SLICC	Systemic Lupus
11100	_	lelivery	DLICC	International Collaborating
PROM		reterm rupture of		Clinics
110111	_	nembranes	SNRI	serotonin-norepinephrine
PS		protein S	DIVILL	reuptake inhibitor
PS	1	pulmonic stenosis	SPTB	spontaneous preterm birth
PSI		neumonia Severity Index	SQ	subcutaneous
PSV		eak systolic velocity	SSC	Surviving Sepsis
PT		prothrombin time		Campaign
PTB		oreterm birth	SSKI	saturated solution of
PTL		oreterm labor		potassium iodide
PTT		partial thromboplastin	SSRI	selective serotonin
		ime		reuptake inhibitor
PTU	р	propylthiouracil	STD	sexually transmitted
<b>PUBS</b>		percutaneous umbilical		diseases (synonym of STI)
	b	lood sampling	STI	sexually transmitted
<b>PUPPP</b>	р	pruritic urticarial papules		infections
	a	nd plaques of pregnancy	STS	second-trimester screening
PUQE	р	pregnancy-unique	SUDEP	sudden unexpected death
	q	uantification of emesis/		in epilepsy
	n	nausea	SVC	superior vena cava
PVR	р	oulmonary vascular	SVR	systemic vascular
	r	esistance		resistance
PW	1	oulsed wave	SVR	sustained virologic
qd		once a day		response
qhs		pefore bedtime	TB	tuberculosis
qid		our times per day	TBG	thyroid-binding globulin
QS		juadruple screen	TBII	thyroid-stimulating
RBC		ed blood cell		hormone-binding
RCT		andomized controlled		inhibitory
DOVE		tudy	TOA	immunoglobulin
RCVS		eversible cerebral	TCA	tricyclic antidepressant
BDC		vasoconstriction syndrome	TDD	total daily dose
RDS		espiratory distress	TG	Toxoplasma gondii
RDW		yndrome ed blood cell distribution	TH THC	therapeutic hypothermia tetrahydrocannabinol
KDW		vidth	tid	three times per day
REDF		everse end-diastolic flow	TIV	trivalent inactivated
RI		esistive index	114	vaccine
RNA		ibonucleic acid	TMA	transcription-mediated
ROM		rupture of membranes	114111	amplification
ROSC		return of spontaneous	TNF	tumor necrosis factor
11000		circulation	TOL	trial of labor
RPR		apid plasma reagin	TOLAC	trial of labor after cesarean
RR		relative risk	TPO	thyroid peroxidase
RR		respiratory rate	TRAb	TSH receptor antibody
RR	r	risk ratio	TRALI	transfusion-related acute
Rx	t	reatment		lung injury
S/D	S	systolic/diastolic	TRAP	twin reversal arterial
SAB	S	spontaneous abortion		perfusion
SABA	S	short-acting β-agonist	TSH	thyroid-stimulating
SBP	S	systolic blood pressure		hormone
SC	S	subcutaneous	TSI	thyroid-stimulating
SCI	S	spinal cord injury		immune globulins
SCRN		Stillbirth Collaborative	TST	tuberculin skin testing
		Research Network	TTTS	twin-twin transfusion
SD		striae distensae		syndrome
SDA		strand-displacement	TVU	transvaginal ultrasound
		amplification	U/S (or u/s)	ultrasound
SDP		single deepest pocket	UA	umbilical artery
SEE		Syphilis Elimination Effort	UC	ulcerative colitis
SFDT		Sabin–Feldman dye test	UDCA	ursodeoxycholic acid
SG		striae gravidarum	UFH	unfractionated heparin
SGA		small for gestational age	UPC	urinary protein creatinine
SIDS		sudden infant death	USPSTF	U.S. Preventative Services
sjs		syndrome Stevens–Johnson	UTI	Task Force urinary tract infection
			V 11	GIARGIA FIRCT HITCHIOIT
0,0		syndrome	V/Q	ventilation/perfusion

VAS	vibroacoustic stimulation	VTE	venous thromboembolism
VBAC	vaginal birth after	VV	vein-to-vein
	cesarean	vWD	von Willebrand disease
VC	vital capacity	vWF	von Willebrand factor
VDRL	venereal disease research	VZIG	varicella zoster immune
	laboratory		globulin
VEGF	vascular endothelial	VZV	varicella zoster virus
	growth factor	WBC	white blood cell
VIG	vaccinia immune globulin	WHO	World Health
VKA	vitamin K antagonist		Organization
VL	viral load	WIHS	Women's Interagency HIV
VPA	valproic acid		Study
VSD	ventricular septal defect	XDR	extensively drug-resistant