

## ACRONYMS AND ABBREVIATIONS

### A

ABC: airway, breathing, and circulation  
 ABG: arterial blood gas  
 AC: hydrogen cyanide  
 ACh: acetylcholine  
 AChE: acetylcholinesterase  
 ADAPC: Alcohol and Drug Abuse Prevention and Control  
 AEF: American Expeditionary Force  
 AERP: Aircrew Eye/Respiratory Protection  
*agr*: accessory gene regulator  
 AHF: Argentine hemorrhagic fever virus  
 AIT: Aeromedical Isolation Team  
 AMC: Army Materiel Command  
 AMEDD: U.S. Army Medical Department  
 ANTU: -naphthylthiourea  
 Ara-A: adenine arabinoside  
 Ara-C: cytosine arabinoside  
 ARDS: adult respiratory distress syndrome  
 AST: aspartate aminotransferase  
 ATA: alimentary toxic aleukia  
 ATCC: American Type Culture Collection  
 ATM: advanced trauma management  
 ATP: adenosine 5'-triphosphate  
 AUIB: Aircrew Uniform, Integrated Battlefield  
 A-V: atrial-ventricular  
 AVOG: Aviation Overgarment  
 AZT: azidothymidine

### B

BAL: British anti-Lewisite  
 BALT: bronchus-associated lymphoid tissue  
 BAS: battalion aid station  
 BDO: battledress overgarment  
 BDRP: Biological Defense Research Program  
 BG: *Bacillus globigii*  
 BIDS: Biological Integrated Detection System  
 BL: Biosafety Level  
 BPL: -propiolactone  
 BuChE: butyrylcholinesterase  
 BVO: Black Vinyl Overboot  
 BZ: 3-quinuclidinyl benzilate (now called QNB)

### C

C: capsid protein  
 CA: bromobenzylcyanide  
 CaEDTA: calcium ethylenediaminetetraacetic acid  
 CAI: Chemical (Surety Material) Accident or Incident  
 CAIRA: Chemical Accident or Incident Response and Assistance  
 CAM: Chemical Agent Monitor  
 CBPS: Chemical and Biological Protected Shelter  
 C-CHF: Crimean-Congo hemorrhagic fever virus  
 CCST: Chemical Casualty Site Team  
 CD: cluster of differentiation  
 CDAE: Chemical Defense Aircrew Ensemble  
 CDC: Casualty Decontamination Center  
 CDC: Centers for Disease Control and Prevention  
 CDTF: Chemical Decontamination Training Facility  
 CF: complement fixation  
 CG: phosgene  
 CHAMP: chemically hardened air-management plant

CHASE: Cut Holes and Sink 'Em  
 CHATH: Chemically Hardened Air Transportable Hospital  
 ChE: cholinesterase  
 CIA: Central Intelligence Agency  
 CK: cyanogen chloride  
 CMR: chloroform-methanol residue vaccine  
 CN: 1-chloroacetophenone  
 CN: chloroacetophenone  
 CNS: central nervous system  
 CONUS: continental United States  
 CP DEPMEDS: Chemically Protected Deployable Medical System  
 CPAP: continuous positive airway pressure  
 CPE: collective protection equipment  
 CPFC: Chemical Protective Footwear Cover  
 CPOG: Chemical Protective Overgarment  
 CPRP: Chemical Personnel Reliability Program  
 CR: dibenz (*b,f*)-1:4-oxazepine  
 CS: 2-chlorobenzylidene malononitrile  
 CSEPP: Chemical Stockpile Emergency Preparedness Program  
 CSF: cerebrospinal fluid  
 CSH: Combat Support Hospital  
 CSI: Chemical Surety Inspection  
 Ct: the product of the concentration (in milligrams per cubic meter of air) and the time (in minutes) of exposure to a gas or aerosol  
 CWS: Chemical Warfare Service  
 CX: phosgene oxime  
 CYE: charcoal yeast extract

### D

d: dalton  
 DA PAM: Department of the Army Pamphlet  
 DA: diphenylchlorarsine  
 DANC: Decontaminating Agent, Non-Corrosive  
 DAS: diacetoxyscripenol, also called anguidine  
 DC: diphenylcyanoarsine  
 DF: methylphosphonic difluoride  
 DFA: direct fluorescent antibody  
 DFP: diisopropyl fluorophosphate  
 DIC: disseminated intravascular coagulation  
 DISCOM: Division Support Command  
 DKIE: Decontamination Kit, Individual Equipment  
 DL<sub>CO</sub>: lung diffusing capacity for carbon monoxide  
 DM: diphenylaminearsine, also called adamsite  
 4-DMAP: 4-dimethylaminophenol  
 DMSO: dimethyl sulfoxide  
 DNA: deoxyribonucleic acid  
 DOVE: deoxyverrucarol  
 DP: diphosgene  
 DPRK: Democratic Peoples Republic of Korea  
 DS2: Decontaminating Solution 2  
 DU: Duty Uniform

### E

EAC: Echelon Above Corps  
 ECG: electrocardiogram  
 ED<sub>50</sub>: effective dose (also called the incapacitating dose) for humans for 50% of the population exposed  
 EDTA: ethylenediaminetetraacetic acid  
 EEE: eastern equine encephalitis  
 EEG: electroencephalogram

ELISA: enzyme-linked immunosorbent assay  
EMS: emergency medical services

## F

FDA: U.S. Food and Drug Administration  
FDECU: field deployable environmental control unit  
FEMA: Federal Emergency Management Agency  
FLD: Field Hospital  
FLOT: forward line of troops  
FM: Field Manual  
FM: titanium tetrachloride  
FMC: Field Medical Card  
FSMC: Forward Support Medical Company  
FTIR: Fourier Transform Infrared spectrometer

## G

G: German (G-series agents)  
GA: tabun  
GABA:  $\gamma$ -aminobutyric acid  
GALT: gut-associated lymphoid tissue  
GB: sarin  
GC-MS: combination of GLC and MS techniques  
GD: soman  
GF: cyclohexylmethylphosphonofluoridate  
GH: General Hospital  
GLC: gas-liquid chromatography  
GVO: Green Vinyl Overboot

## H

HC: hexachlorethane  
HCN: hydrocyanic acid  
HD: distilled mustard agent  
HD: sulfur mustard  
HEPA: high-efficiency particulate air (filter)  
HFRS: hemorrhagic fever with renal syndrome  
HHS: US Department of Health and Human Services  
HI: hemagglutination-inhibition  
HIV: human immunodeficiency virus  
HMMWV: high-mobility, multipurpose, wheeled vehicle  
HPLC-MS: high-performance liquid chromatography-mass spectrometry  
HPS: hantavirus pulmonary syndrome  
HS: mustard agent  
HSC: Health Services Command  
HSS: Health Service Support  
HTH: high-test hypochlorite  
HUGO: Human Genome Organization

## I

ICAM: Improved Chemical Agent Monitor  
ICBPG: Improved Chemical and Biological Protective Glove  
ID<sub>50</sub>: the dose that incapacitates 50% of the exposed population  
ID: incapacitating dose  
IFA: indirect fluorescent antibody  
IFN- $\gamma$ : interferon gamma  
Ig: immunoglobulin  
IL-6: interleukin-6  
IMA: Installation Medical Authority  
IMF: Installation Medical Facility  
IMS: ion mobility spectroscopy  
IND: Investigational New Drug  
IRF: Installation Response Force  
ISO: International Organization for Standardization (from the French)  
ITAR-TASS: Information-Telegraph Agency of Russia-Telegraph Agency of the Soviet Union

## J

JACADS: Johnston Atoll Chemical Agent Destruction System  
JSLIST: Joint Service Lightweight Integrated Suit Technology

## K

KB: kilobase  
kd: kilodalton  
KTM: Kops Tissot Monro (mask)

## L

L: Lewisite  
LAC: Large Area Coverage  
Lcr: low calcium response  
LCt<sub>50</sub>: the vapor or aerosol exposure (Ct, concentration • time) that is lethal (L) to 50% of the exposed population  
LD<sub>50</sub>: the dose (D) that is lethal (L) to 50% of the exposed population  
LDS: Lightweight Decontamination System  
LOPAIR: *long-path infra red*  
LPS: lipopolysaccharide  
LSD-25: D-lysergic acid diethylamide  
LSD: lysergic acid  
LVS: live vaccine strain

## M

MACOM: Major Army Command  
MASH: Mobile Army Surgical Hospital  
MAT: Medical Augmentation Team  
MCAT: Medical Chemical Advisory Team  
MCBW: mass casualty biological weapon  
MCE: maximum credible event  
MD: methyldifluorarsine  
MDMA: 3,4-methylenedioxymethylamphetamine  
MED<sub>50</sub>: the dose that is minimally effective for mild cognitive impairment in 50% of the exposed population  
MEDCEN: Medical Center  
MEDCOM: Medical Command  
MEDDAC: Medical Department Activity  
MHC: major histocompatibility complex  
MLRS: Multiple Launch Rocket System  
MMPI: Minnesota Multiphasic Personality Inventory  
MOA: Memorandum of Agreement  
MOPP: mission-oriented protective posture  
MOS: military occupation specialty  
MOU: Memorandum of Understanding  
MPE: most probable event  
MRI: Medical Reengineering Initiative  
mRNA: messenger RNA  
MRT: Medical Response Team  
MS: mass spectrometry  
MTF: medical treatment facility  
MULO: Multipurpose Overboot

## N

NAD<sup>+</sup>: nicotinamide adenine dinucleotide  
NALT: nasal-associated lymphoid tissue  
NAPP: nerve agent pyridostigmine pretreatment  
NATO: North Atlantic Treaty Organization  
NBC: nuclear, biological, and chemical  
NBCRS: Nuclear Biological Chemical Reconnaissance System  
NBC-PC: nuclear, biological, chemical protective covers  
NF: Number Facility  
NK: natural killer

NRC: National Research Council  
NYCBOH: New York City Board of Health

## O

OG: Overgarment  
OPA: isopropyl alcohol and isopropylamine solution  
OPIDN: organophosphorus ester-induced delayed neurotoxicity  
ORS: optical remote sensing  
OTSG: Office of The Surgeon General

## P

PADPRP: poly(ADP-ribose) polymerase  
PAHP: *p*-aminoheptanoylphenone  
 $P_{AO_2} - P_{aO_2}$ : alveolar-arterial difference in the partial pressure of oxygen  
 $P_{aO_2}$ : partial pressure of arterial oxygen  
2-PAM Cl: 2-pyridine aldolxime methyl chloride, also called pralidoxime chloride  
PAOP: *p*-aminooctanoylphenone  
PAPP: *p*-aminopropiophenone  
PATs: Protection Assessment Test System  
 $P_{CO_2}$ : partial pressure of carbon dioxide  
PCR: polymerase chain reaction  
PDA: Portable Decontamination Apparatus  
PDDA: Power-Driven Decontamination Apparatus  
PDS: personnel decontamination station  
PEEP: positive end-expiratory pressure  
PEG300: polyethylene glycol 300  
PF: protection factor  
PFIB: perfluoroisobutylene  
PFT: pulmonary function test  
pfu: plaque-forming units  
PHA: passive hemagglutination assay  
 $P_{O_2}$ : partial pressure of oxygen  
ppb: parts per billion  
PPE: personal protective equipment  
ppm: parts per million  
PPW: patient protective wrap  
PR: protective ratio  
PRN: plaque reduction neutralization  
PS: chloropicrin

## Q

Q: query  
QDH/SS: Quick Doff Hood/Second Skin  
QNB: 3-quinuclidinyl benzilate (current name for BZ)

## R

RBC-ChE: red blood cell cholinesterase  
RBC: red blood cell  
RDIC: resuscitation device, individual, chemical  
RFK: Richardson, Flory, and Kops mask  
RIA: radioimmunoassay  
RME: receptor-mediated endocytosis  
RNA: ribonucleic acid  
rRNA: ribosomal ribonucleic acid  
RSCAAL: Remote Sensing Chemical Agent Alarm  
RT-PCR: reverse transcriptase polymerase chain reaction  
RVF: Rift Valley fever virus

## S

SBR: small-box respirator  
SCPE: Simplified Collective Protective Equipment  
SDS: sodium dodecyl sulfate

SE: staphylococcal enterotoxins  
SEB: staphylococcal enterotoxin B  
SGOT: serum glutamic-oxaloacetic transaminase  
SIPRI: Stockholm International Peace Research Institute  
S-LOST: sulfur mustard, for Lommel and Steinkopf  
SOP: standing operating procedure  
SPE: streptococcal pyrogenic exotoxins  
SRF: Service Response Force  
SS: shotgun shell (bomb)  
STB: super tropical bleach

## T

TAP: toxicological agent protective (ensemble)  
TB MED: Technical Bulletin Medical  
TCDD: 2,3,7,8 tetrachlorodibenzo-*p*-dioxin  
TEMPER: tent, extendable, modular, personnel  
TEPP: tetraethyl pyrophosphate  
THA: tetrahydroaminoacridine, also called tacrine  
THC: tetrahydracannabinol  
TLC: thin-layer chromatography  
TLV: threshold limit value  
TNF- $\alpha$ : tumor necrosis factor- $\alpha$   
TNF: tumor necrosis factor  
TOCP: triorthocresyl phosphate  
TPS: topical skin protectant  
TrD: Trinidad donkey  
TSS: toxic shock syndrome  
TSST-1: toxic shock syndrome toxin-1

## U

UNSCOM: United Nations Special Commission  
USAMRICD: U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland  
USAMRIID: U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, Maryland  
USAMRMC: U.S. Army Medical Research and Materiel Command, Fort Detrick, Frederick, Maryland

## V

V: venomous (V-series agents)  
VEE: Venezuelan equine encephalitis  
VHF: viral hemorrhagic fever  
VIG: vaccinia immune globulin  
VKA: vegetable killer acid  
VKL: vegetable killer liquid  
VPFRU: Vapor-Protective, Flame-Resistant Undergarment  
VX: ethyl-*S*-dimethylaminoethyl methylphosphonothiolate

## W

WBGT: wet bulb globe temperature  
WEE: western equine encephalitis  
WHO: World Health Organization  
WP: white phosphorus  
WRS: War Research Service

## Y

Yops: *Yersinia* outer-membrane proteins

## Z

ZOI: Zone of the Interior