



U.S. Army Medical Research Unit - Europe



Excellence in USAMRU-EUROPE Research

A Bibliometric Evaluation

Prepared by the Gorgas Memorial Library

May 2011

Walter Reed Army Institute of Research/Naval Medical Research Center

Silver Spring, MD 20910



USAMRU-EUROPE HISTORY

- Established on September 1, 1977 in Heidelberg, Germany
- Represents a Special Foreign Activity of the Walter Reed Army Institute of Research, part of the U.S. Army Medical Research and Materiel Command, Fort Detrick, MD





USAMRU-EUROPE MISSION

- To Conduct Applied Psychological Research for the Purpose of Protecting, Optimizing, and Enhancing Warfighter Psychological Resilience



**BASIC TRAINING STUDY ON
MENTAL FITNESS TARGETS
MENTAL HEALTH AND
PERFORMANCE OUTCOMES**

**RESILIENCE CONFERENCE HIGHLIGHTS
USAMRU-E'S INTERNATIONAL WORK**





USAMRU-EUROPE RESEARCH EVALUATION METHODOLOGY

- Analysis performed using Web of Knowledge[®] tools

- Web of Science[®] (publication years 1977-2011)

Database of citations to the scholarly literature in the sciences, social sciences, arts, and humanities including proceedings of international conferences, symposia, seminars, colloquia, workshops, and conventions.

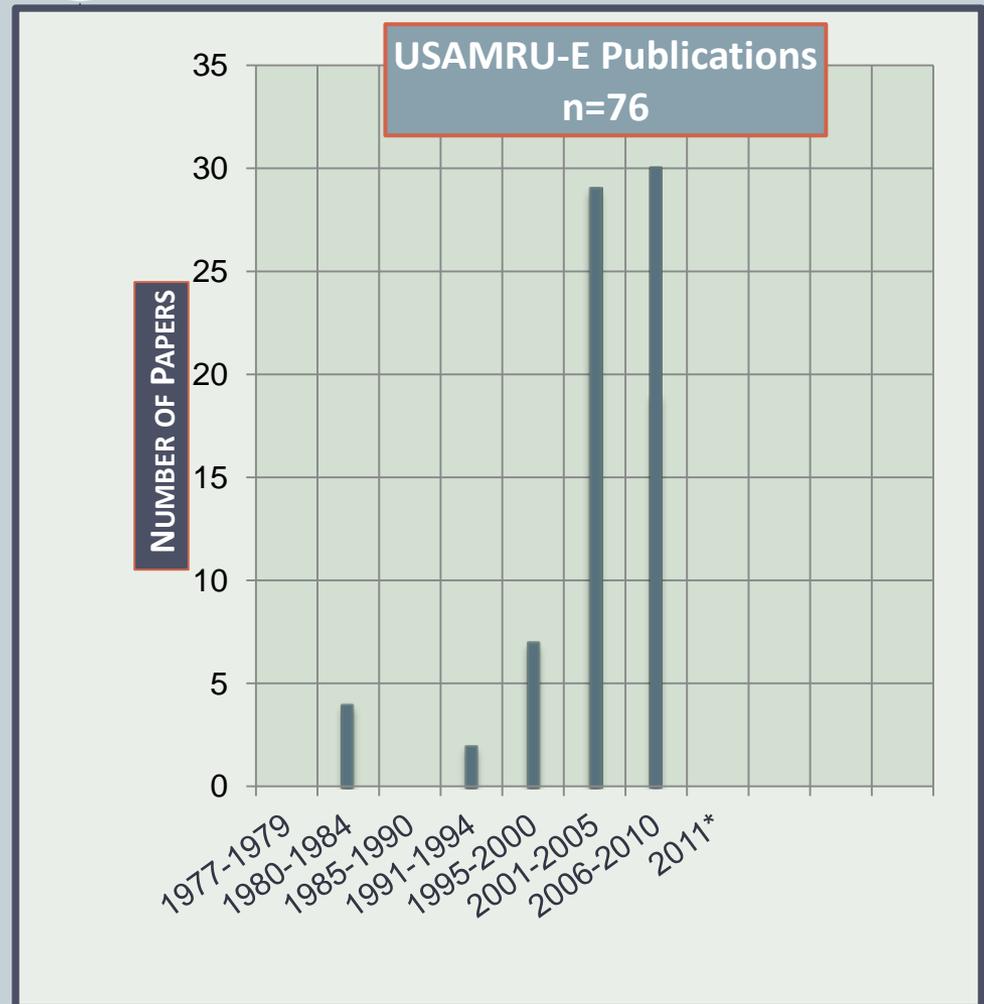
- Journal Citation Reports[®] 2009

A resource tool for journal evaluation, using citation data drawn from over 7,500 journals from over 3,300 publishers in over 80 nations. Updated annually.



PUBLICATIONS IN WEB OF SCIENCE*

- USAMRU-E researchers published a total of 76 papers (i.e., articles, meeting abstracts, proceedings papers and reviews) covered in Web of Science in the period 1977-2011*
- Publishing increased in the period 2001-2005 increased 76% over the previous five-year period and continues to grow



USAMRU-E ON THE CONTINUUM

Earliest Citation in Web of Science®

- Published in 1981 in a print journal and highlighting USAMRU-E research on soldier retention

Manning FJ, Ingraham LH. Personnel Attrition in the United-States-Army in Europe. *Armed Forces & Society* 1981;7(2):256-70.

Most Current Citation in Web of Science®

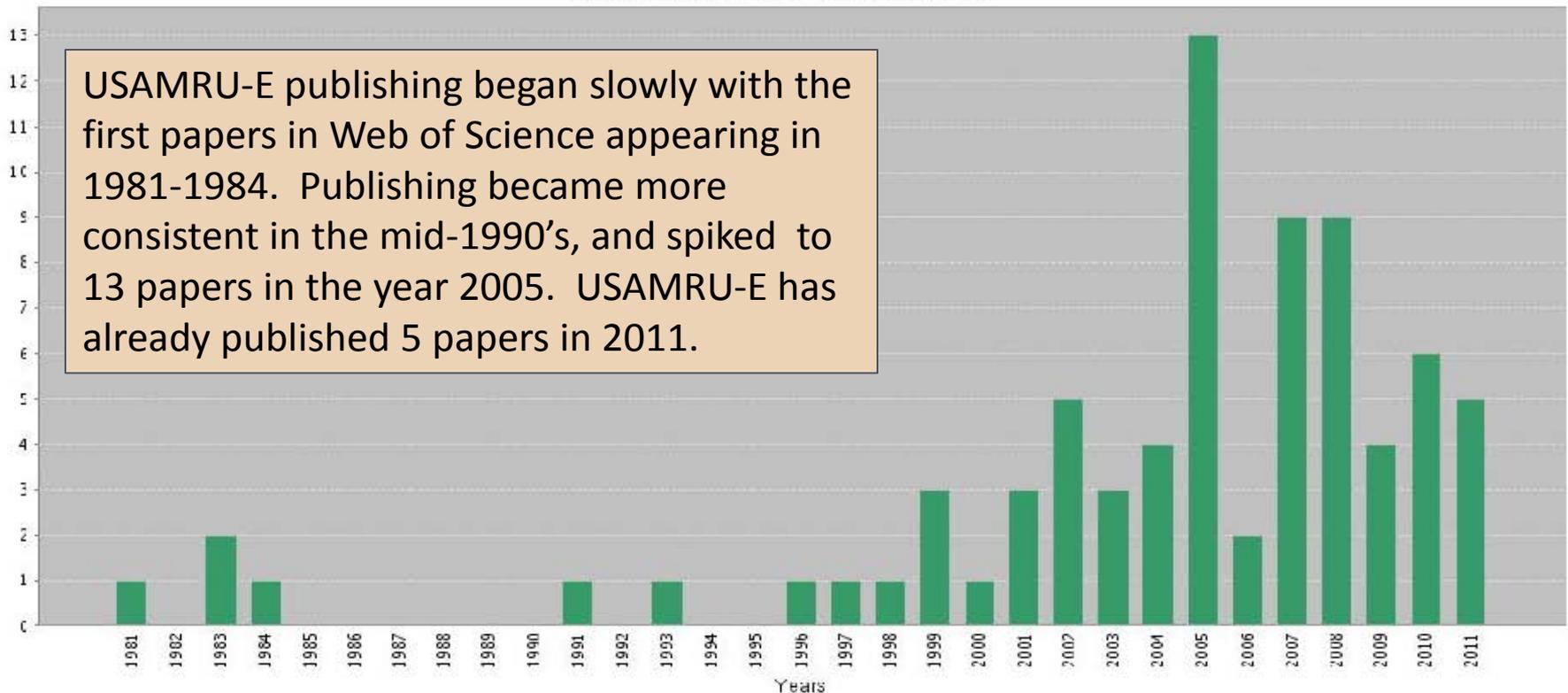
- Published in 2011 in a psychology journal and focusing on USAMRU-E research in PTSD and soldier stress

Kim PY, Britt TW, Klocko RP, Riviere LA, Adler AB. Stigma, Negative Attitudes About Treatment, and Utilization of Mental Health Care Among Soldiers. *Military Psychology* 2011;23(1):65-81.



USAMRU-EUROPE PAPERS 1977-2011*

Published Items in Each Year





CITATIONS TO USAMRU-EUROPE PUBLICATIONS*

- Citations to USAMRU-E papers show an increase over time and have an average of 11.41 citations per paper
- In 2010, there were over 180 citations to USAMRU-E publications
- USAMRU-E publishing has an overall h-index of 15¹

Results found: 76

Sum of the Times Cited [?]: 867

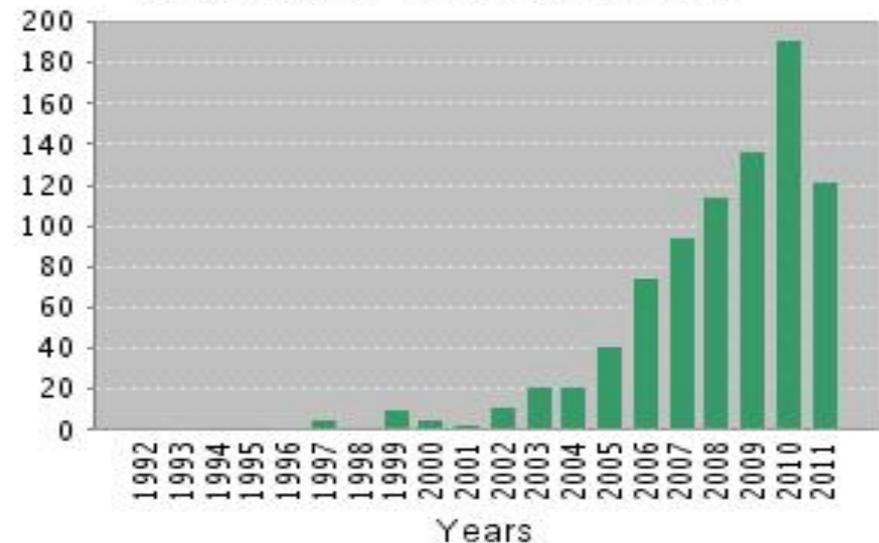
[View Citing Articles](#)

[View without self-citations](#)

Average Citations per Item [?]: 11.41

h-index [?]: 15

Citations in Each Year

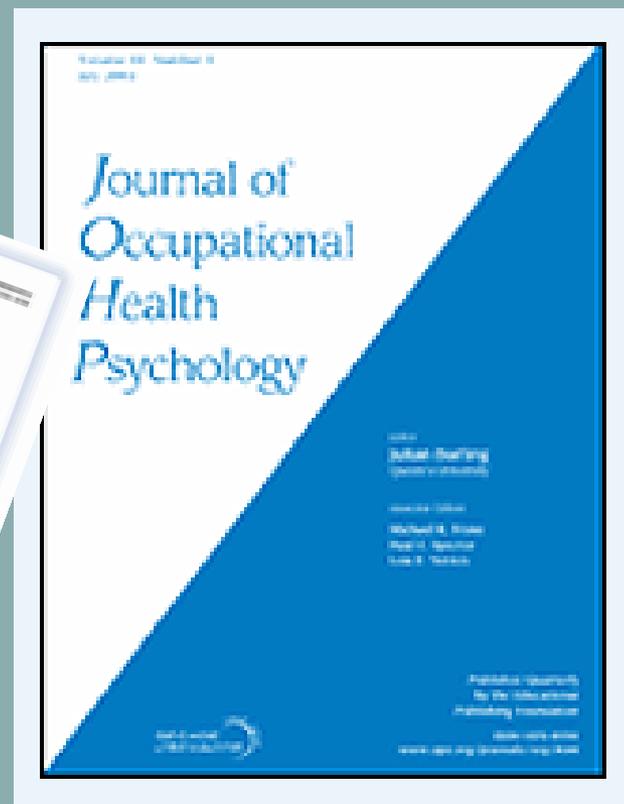
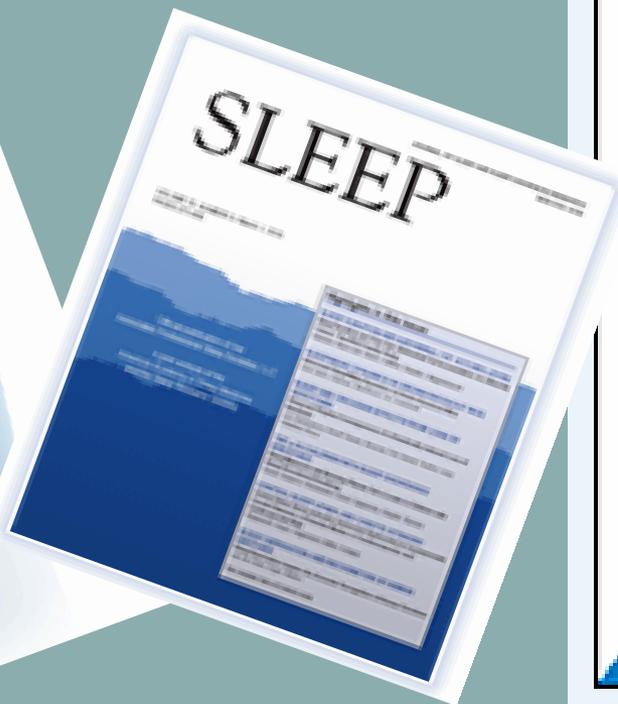
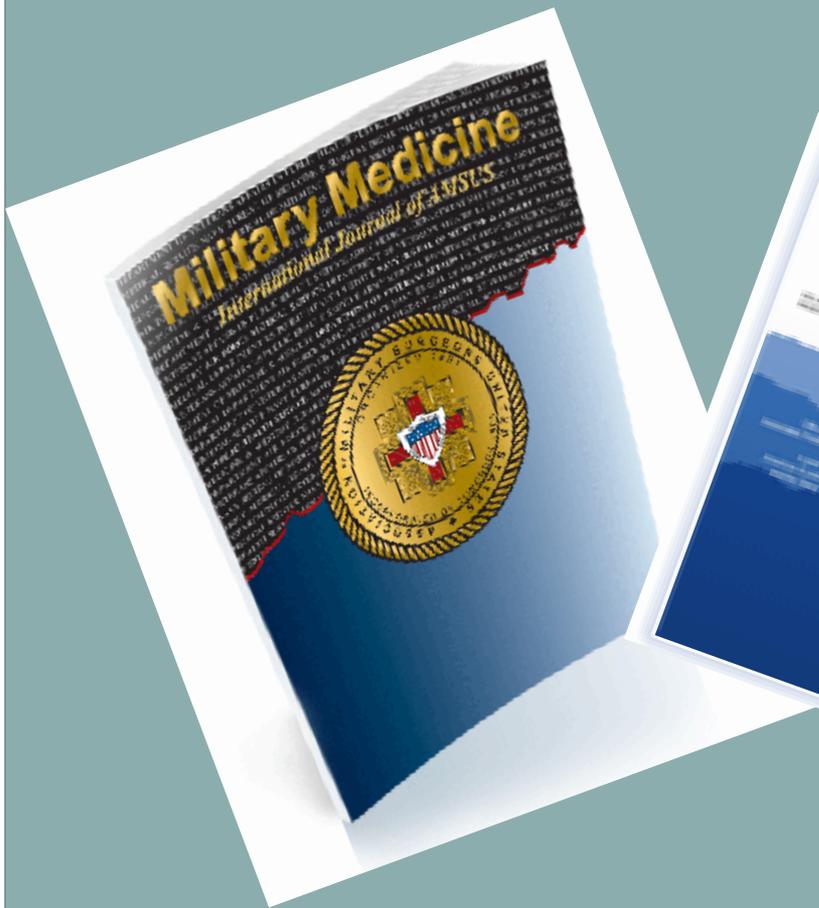


The latest 20 years are displayed.

¹The h-index reflects productivity and impact. $h > 20$ is highly respected; $h > 45$ associated with high honors (e.g., NAS membership).



USAMRU-EUROPE SOURCES OF PUBLICATION





USAMRU-EUROPE SOURCES OF PUBLICATION

Source Title	Number of Pubs	% of 76
MILITARY MEDICINE	17	22.37%
MILITARY PSYCHOLOGY	12	15.79%
JOURNAL OF OCCUPATIONAL HEALTH PSYCHOLOGY	6	7.89%
JOURNAL OF TRAUMATIC STRESS	5	6.58%
WORK AND STRESS	4	5.26%
ARMED FORCES & SOCIETY	2	2.63%
INTERNATIONAL JOURNAL OF THE ADDICTIONS	2	2.63%
JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY	2	2.63%
SLEEP	2	2.63%
AMERICAN JOURNAL OF PREVENTIVE MEDICINE	1	1.32%
AMERICAN PSYCHOLOGIST	1	1.32%
ARCHIVES OF GENERAL PSYCHIATRY	1	1.32%
AVIATION SPACE AND ENVIRONMENTAL MEDICINE	1	1.32%
BRITISH JOURNAL OF PSYCHIATRY	1	1.32%
CLINICAL NEUROPSYCHOLOGIST	1	1.32%

- 76% of USAMRU-E publications appear in these 15 journals
- 38% of USAMRU-E publications appear in two journals:
Military Medicine
and *Military Psychiatry*

What do citation patterns tell us about journals?

Christenson J A, Sigelman L. *Accrediting knowledge: Journal stature and citation impact in social science*. Soc. Sci. Quart, 66:964-75, 1985.

[The authors] conclude that citation data "permit scholars to evaluate the importance of journals based not on opinion but on the frequency of citations" and that "frequency of citation implies scholarly acceptance, or at least acknowledgment of importance through utilization of others' work."



TOP SOURCES* OF USAMRU-EUROPE PUBLICATIONS ANALYZED USING JOURNAL CITATION REPORTS®

- USAMRU-E research is multidisciplinary and covers the social sciences and medicine.
- In the social sciences, USAMRU-E publishes in 6 journals which have an impact factor > 2.

JCR Year and Edition: 2009 Social Science

Abbreviated Journal Title	{2009} Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	{2009} Articles	Cited Half-Life	Eigenfactor Score	Article Influence Score
AM PSYCHOL	14416	6.537	9.729	1.562	48	>10.0	0.01803	4.126
J CONSULT CLIN PSYCH	18044	4.461	6.336	0.604	106	>10.0	0.02682	2.313
CLIN PSYCHOL-SCI PR	1708	3	3.293	1.714	28	7.3	0.00385	1.177
J OCCUP HEALTH PSYCH	807	2.351	3.048	0.32	25	5.4	0.00358	1.179
J TRAUMA STRESS	3387	2.326	2.985	0.245	94	8.1	0.00884	1.033
WORK STRESS	1095	2.31	3.734	0.4	20	8.2	0.00255	1.126
ARMED FORCES SOC	552	0.762	1.021	0.125	32	>10.0	0.00067	0.227
MIL PSYCHOL	320	0.391	0.778	0.157	51	9	0.00063	0.279



TOP SOURCES* OF USAMRU-EUROPE PUBLICATIONS ANALYZED USING JOURNAL CITATION REPORTS®

• In medicine, USAMRU-E publishes in 5 journals which have an impact factor > 3.

JCR Year and Edition: 2009 Science*

Abbreviated Journal Title	{2009} Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	{2009} Articles	Cited Half-Life	Eigenfactor Score	Article Influence Score
ARCH GEN PSYCHIAT	33963	12.257	16.433	1.352	125	>10.0	0.08054	6.354
BRIT J PSYCHIAT	19155	5.777	6.364	1.394	155	>10.0	0.037	2.122
SLEEP	11511	5.402	5.949	0.932	161	7.1	0.03072	1.802
AM J PREV MED	9457	4.235	5.006	1.815	232	5.5	0.03739	1.891
DRUG ALCOHOL DEPEN	8348	3.599	3.947	0.89	254	6	0.02659	1.281
CLIN NEUROPSYCHOL	1671	1.766	2.319	0.466	73	8.4	0.00316	0.671
AVIAT SPACE ENVIR MD	2912	0.993	1.054	0.326	135	10	0.00513	0.291

* Military medicine, the journal containing the most USAMRU-E papers, is not included in JCR; neither is the *International journal of the addictions*



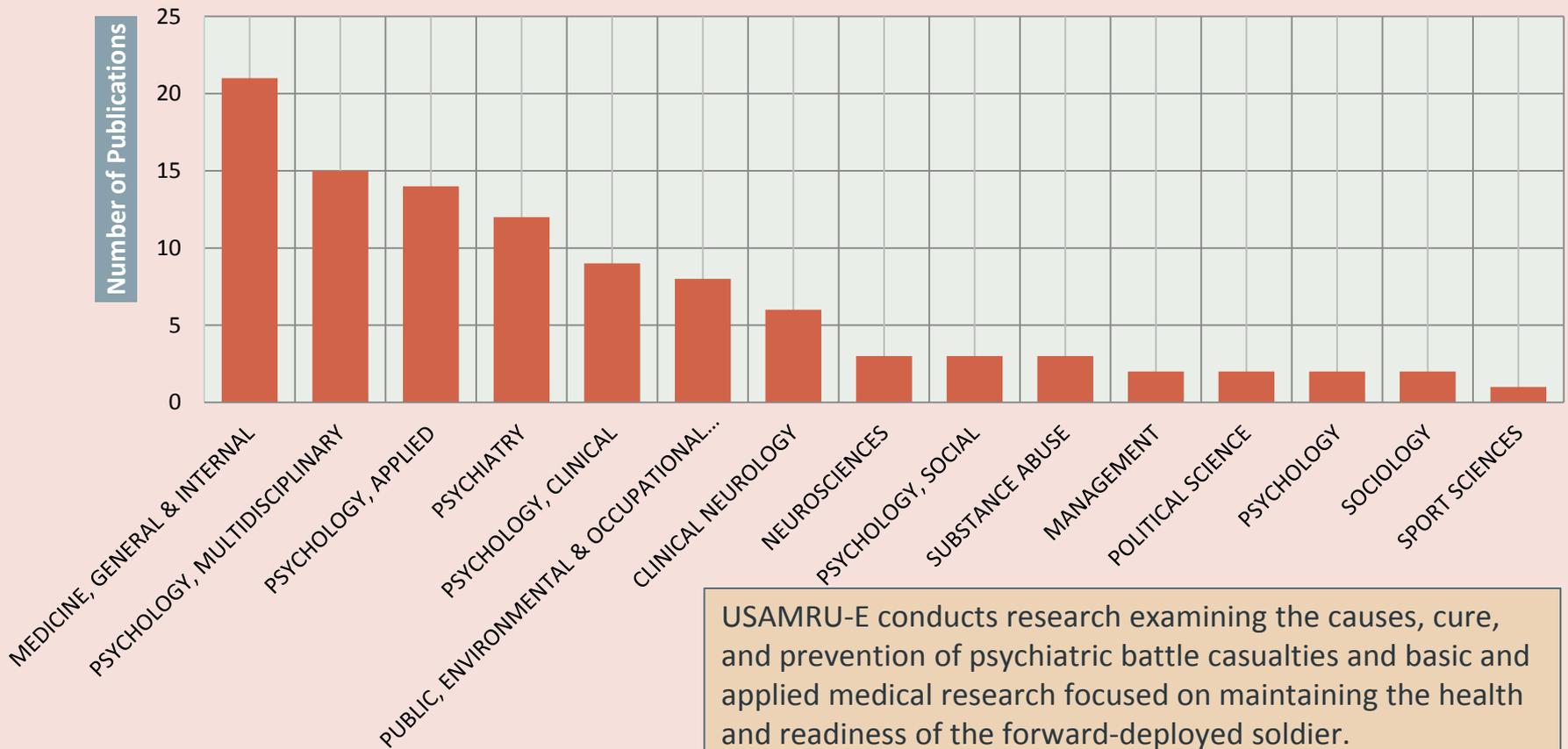
USAMRU-EUROPE

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**SUBJECT AREAS
AND
COLLABORATIONS**



USAMRU-EUROPE PAPERS TOP 15 Subject Areas





USAMRU-EUROPE TOPICAL HIGHLIGHTS

- 23 of the 76 USAMRU-E papers (30%) focus on assessing soldier performance
- As an example, the USAMRU-E 2004 paper below has been cited 47 times in Web of Science

Balkin TJ, Bliese PD, Belenky G, Sing H, Thorne DR, Thomas M, Redmond DP, Russo M, Wesensten NJ. Comparative utility of instruments for monitoring sleepiness-related performance decrements in the operational environment. *Journal of Sleep Research* 2004 Sep;13(3):219-27.

- USAMRU-E published again on this topic in 2010

- 53 of the 76 USAMRU-E papers (70%) focus on stress and trauma, including PTSD
- As an example, the USAMRU-E 2002 paper below has been cited 104 times in Web of Science

Litz BT, Gray MJ, Bryant RA, Adler AB. Early intervention for trauma: Current status and future directions. *Clinical Psychology-Science and Practice* 2002 Sum;9(2):112-34.

- USAMRU-E published again on this topic in 2011



USAMRU-EUROPE THERAPEUTIC PRODUCT HIGHLIGHT



- In the early 1990's, USAMRU-E conducted surveys to assess relationships between commanders' priorities and the psychological readiness of their units.
- This project demonstrated the feasibility of using surveys to provide empirical information about associations between leaders' values and the psychological readiness of their subordinates

Kirkland FR, Bartone PT, Marlowe DH. COMMANDERS PRIORITIES AND PSYCHOLOGICAL READINESS. *Armed Forces & Society* 1993 Sum;19(4):579-98.



USAMRU-EUROPE THERAPEUTIC PRODUCT HIGHLIGHT

- USAMRU-E validated the diagnostic efficiency of the Primary Care Posttraumatic Stress Disorder Screen (PC-PTSD) and the Posttraumatic Stress Disorder Checklist (PCL) as clinical screening tools for active duty soldiers recently returned from a combat deployment. At the same time, USAMRU-E examined the item-level characteristics of both the PC-PTSD and the PCL. This work was published in the paper below, among others.

Bliese PD, Wright KM, Adler AB, Cabrera O, Castro CA, Hoge CW. Validating the primary care posttraumatic stress disorder screen and the posttraumatic stress disorder checklist with soldiers returning from combat. *Journal of Consulting and Clinical Psychology* 2008 Apr;76(2):272-81.



USAMRU-EUROPE THERAPEUTIC PRODUCT HIGHLIGHT

- USAMRU-E conducted studies assessing Battlemind Debriefing and Battlemind Training as early interventions with the at-risk population of soldiers returning from deployment. This work was published in the highly-cited paper below, among others.

Adler AB, Bliese PD, McGurk D, Hoge CW, Castro CA. Battlemind Debriefing and Battlemind Training as Early Interventions With Soldiers Returning From Iraq: Randomization by Platoon. *Journal of Consulting and Clinical Psychology* 2009 Oct;77(5):928-40.



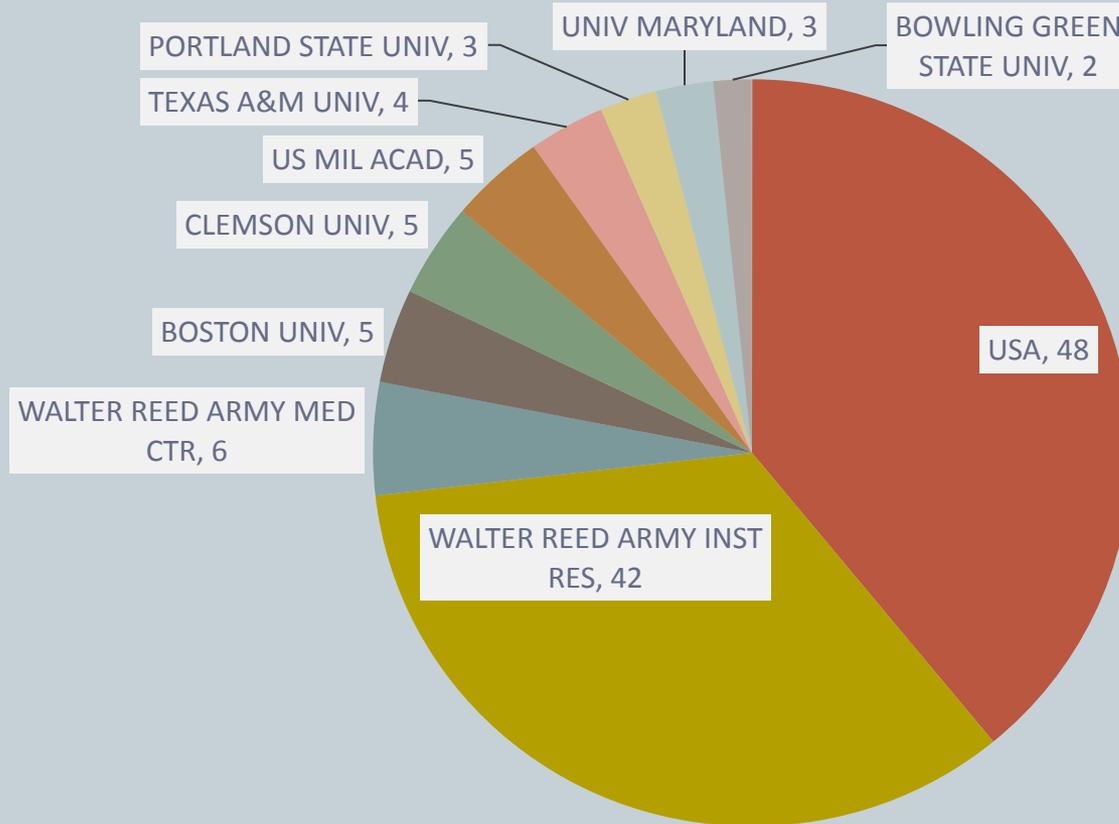
USAMRU-EUROPE THERAPEUTIC PRODUCT HIGHLIGHT

- Similar empirical research is being done today, as evidenced by USAMRU-E's current involvement in the Comprehensive Soldier Fitness Program (CSFP)
 - Assessment is a key component of the CSF program, which uses the Global Assessment Tool (GAT), a self-report survey that measures psychosocial fitness in emotional, social, family, and spiritual domains
 - The paper below outlines the approach to evaluating program efficacy

Lester PB, McBride S, Bliese PD, Adler AB. Bringing Science to Bear An Empirical Assessment of the Comprehensive Soldier Fitness Program. *American Psychologist* 2011 Jan;66(1):77-81.



USAMRU-EUROPE INSTITUTIONAL COLLABORATIONS TOP TEN*



USAMRU-E collaborates most often with other US military organizations.

Note: Since multiple authors from an institution may collaborate on any one article, it is reasonable to see a larger number of institutional collaborations than the number of papers for USARMRU-E, as is shown here.



GLOBAL INFLUENCE OF USAMRU-EUROPE RESEARCH





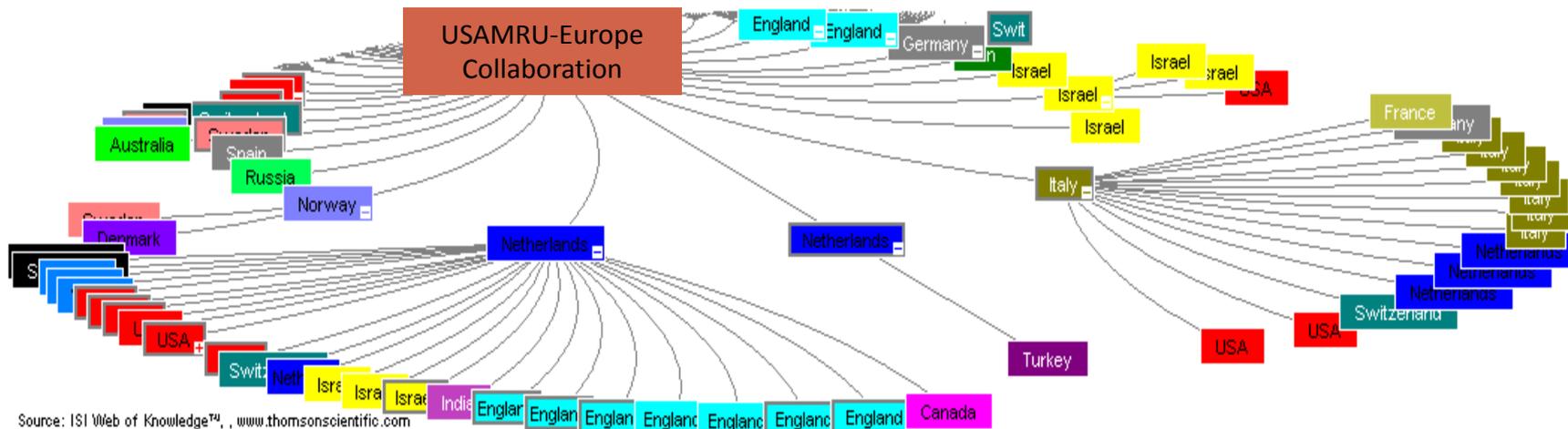
IMPACT OF USAMRU-EUROPE RESEARCH

- The most highly cited USAMRU-E paper was a collaboration with WRAIR researchers. It is a review of the literature which has been cited by researchers internationally.

Litz BT, Gray MJ, Bryant RA, Adler AB. Early intervention for trauma: Current status and future directions. *Clinical Psychology-Science and Practice* 2002 Sum;9(2):112-34. First published in 2002, it was cited as recently as April 2011 in a paper by Mulligan K, Fear NT, Jones N, et al., published in the journal , *Psychological Medicine*.

Early intervention for trauma: Current status and future directions

Friday, May 6 2011 ISI Web of KnowledgeSM





USAMRU-EUROPE RESEARCH SUMMARY

- USAMRU-E research has largely focused on psychological and psychiatric issues in support of Warfighter Psychological Resilience
- USAMRU-E researchers have contributed significantly since 1977, sharing their research by publishing in journals, presenting at meetings, and writing numerous technical reports (not represented in Web of Science)
- USAMRU-E research on PTSD has been particularly noteworthy in recent times
- USAMRU-E researchers have contributed significantly to the base of empirical data on soldier stress and performance