## Adding Comments and Notes to Your PDF

To facilitate electronic transmittal of corrections, we encourage authors to utilize the comment/annotations features in Adobe Acrobat. The PDF provided has been *comment enabled*, which allows you to utilize the comment and annotation features even if using only the free Adobe Acrobat reader (see note below regarding acceptable versions). Adobe Acrobat's Help menu provides additional details on the tools. When you open your PDF, the annotation tools are clearly shown on the tool bar (although icons may differ slightly among versions from what is shown below).

For purposes of correcting the PDF proof of your journal article, the important features to know are the following:

- To **insert text**, place your cursor at a point in text and select the Insert Text tool ( Text tool (
- To **replace text**, highlight the text to be changed, select the Replace Text tool ( ) from the menu bar, and type the new text in the pop-up box. Do this instead of deleting and then reinserting.
- To **delete text**, highlight the text to be deleted and press the Delete button on the keyboard.
- Use the **Sticky Note tool** ( ) to describe changes that need to be made (e.g., changes in bold, italics, or capitalization use; altering or replacing a figure) or to answer a question or approve a change from the editor. To use this feature, click on the Sticky Note tool in the menu bar and then click on a point in the PDF where you would like to make a comment. Then type your comment in the pop-up box.
- Use the Callout tool ( ) to point directly to changes that need to be made. Try to put the callout box in an area of white space so that you do not obscure the text.
- Use the **Highlight and Add Note to Text tool** ( ) to indicate font problems, bad breaks, and other textual inconsistencies. Select text to be changed, choose this tool, and type your comment in the pop-up box. One note can describe many changes.
- To view a list of changes to the proof or to see a more comprehensive set of annotation tools, select **Comment** from the menu bar.

As with hand-annotated proof corrections, the important points are to communicate changes clearly and thoroughly, to answer all queries and questions, and to provide complete information to allow us to make the necessary changes to your article so it is ready for publication. Do not use tools that incorporate changes to the text in such a way that no indication of a change is visible. Such changes will not be incorporated into the final proof.

To utilize the comments features on this PDF you will need Adobe Reader version 7 or higher. This program is freely available and can be downloaded from <a href="http://get.adobe.com/reader/">http://get.adobe.com/reader/</a>

## **Subscriptions and Special Offers**

In addition to purchasing reprints of their articles, authors may purchase an annual subscription, purchase an individual issue of the journal (at a reduced rate), or request an individual issue at no cost under special "hardship" circumstances.

To place your order online, visit <a href="http://www.apa.org/pubs/journals/subscriptions.aspx">http://www.apa.org/pubs/journals/subscriptions.aspx</a>; or you may fill out the order form below (including the mailing label) and send the completed form and your check or credit card information to the address listed on the order form.

For information about becoming a member of the American Psychological Association, visit <a href="http://www.apa.org/membership/index.aspx">http://www.apa.org/membership/index.aspx</a>; or call the Membership Office at 1-800-374-2721.

#### 2017 EPF Journal Subscription Rates

Journal*	Individual Rate	APA Member Rate	Journal*	Individual Rate	APA Member Rate
American Jrnl of Orthopsychiatry	\$ 139	\$ 95	Peace & Conflict: Jnl of Peace Psychology	\$ 139	\$ 76
Asian American Jrnl of Psychology	\$ 139	\$ 76	Personality Disorders: TRT	\$ 139	\$ 76
Behavioral Analysis: Research and Practice	\$ 139	\$ 76	Practice Innovations	\$ 81	\$ 55
(online only)			Psychiatric Rehabilitation Jrnl	\$ 181	\$ 90
Behavioral Development Bulletin (online only)	\$ 81	\$ 39	Psychoanalytic Psychology	\$ 139	\$ 76
Canadian Jrnl of Behavioural Science	\$ 139	\$ 96	Psychological Services	\$ 139	\$ 76
Canadian Jrnl of Experimental Psych	\$ 139	\$ 96	Psychological Trauma: TRPP	\$ 181	\$ 85
Canadian Psychology	\$ 139	\$ 96	Psychology & Neuroscience (online only)	\$ 139	\$ 76
Clin Pract in Pediatric Psychology	\$ 139	\$ 76	Psychology of Aesthetics, Creativity, & Arts	\$ 139	\$ 76
Consulting Psychology Journal	\$ 139	\$ 76	Psychology of Consciousness	\$ 139	\$ 76
Couple & Family Psychology: Res & Prac	\$ 139	\$ 76	Psychology of Men & Masculinity	\$ 139	\$ 76
Cultural Diversity & Ethnic Minority Psych	\$ 139	\$ 76	Psychology of Popular Media Culture	\$ 139	\$ 76
Decision	\$ 139	\$ 76	Psychology of Religion & Spirituality	\$ 139	\$ 76
Dreaming	\$ 145	\$ 76	Psychology of Sexual Orientation and	\$ 139	\$ 76
Evolutionary Behavioral Science	\$ 139	\$ 76	Gender Diversity		
Families, Systems, & Health	\$ 193	\$ 113	Psychology of Violence	\$ 139	\$ 76
Group Dynamics: Theory, Res, and Practice	\$ 139	\$ 76	Psychomusicology: Music, Mind, & Brain	\$ 139	\$ 76
Health Psychology	\$ 302	\$ 136	Psychotherapy	\$ 164	\$ 81
International Jrnl of Play Therapy	\$ 139	\$ 76	Qualitative Psychology	\$ 81	\$ 55
International Jrnl of Stress Management	\$ 139	\$ 76	Review of General Psychology	\$ 139	\$ 76
International Perspectives in Psychology: RPC	\$ 139	\$ 76	Scholarship of Teaching and Learning in	\$ 139	\$ 76
Jrnl of Diversity in Higher Education	\$ 139	\$ 76	Psychology		
Jrnl of Latina/o Psychology	\$ 139	\$ 76	School Psychology Quarterly	\$ 139	\$ 76
Jrnl of Neuroscience, Psychology & Econ	\$ 139	\$ 76	Spirituality in Clinical Practice	\$ 139	\$ 76
Jrnl of Occupational Health Psychology	\$ 139	\$ 76	Sport, Exercise, & Performance Psychology	\$ 139	\$ 76
Jrnl of Psychotherapy Integration	\$ 139	\$ 90	Stigma and Health	\$ 81	\$ 55
Jrnl of Rural Mental Health	\$ 139	\$ 76	The Humanistic Psychologist	\$ 63	\$ 62
Jrnl of Theoretical & Philosophical Psych	\$ 139	\$ 76	The Psychologist-Manager Jrnl	\$ 139	\$ 76
Jrnl of Threat Assessment & Management	\$ 139	\$ 76	Training & Education in Prof. Psych.	\$ 139	\$ 76
Law and Human Behavior	\$ 145	\$ 90	Translational Issues in Psychological Science	\$ 139	\$ 76
Military Psychology	\$ 138	\$ 96	Traumatology (online only)	\$ 139	\$ 76
Motivation Science	\$ 139	\$ 76			

<sup>\*</sup>For journal descriptions, see APA's website: <a href="http://www.apa.org/pubs/journals">http://www.apa.org/pubs/journals</a>

**Instructions:** Check the appropriate box, enter journal title and price information, and complete the mailing label in the right column. Enclose a check made out to the **American Psychological Association**, and mail it with the form to the APA Order Department or complete the credit card information below. Orders can also be placed online at <a href="http://www.apa.org/pubs/journals/subscriptions.aspx">http://www.apa.org/pubs/journals/subscriptions.aspx</a>.

Annual Subscription (available on January-December basis only). To subscribe, specify calendar year of the subscription. Refer to the Subscription Rates shown above.
Journal:
Calendar year of subscription: Price:
ecial Offers! If you are a journal article author, you may take antage of two Special Offers.
<b>Individual Copy.</b> You may order individual copies of the entire issue in which your article appears. Does not apply to online-only journals. As an author, you receive a special reduced rate of \$5 per copy for up to a maximum of 25 copies. No phone requests accepted.
Journal:
Vol. no.: Issue no.: Issue month:
copies @ \$5 a copy = \$ (order amount) + (handling; see below)
TOTAL enclosed: \$

Shipping & Handling Fees								
Order amount:	U.S. & Puerto Rico	Guaranteed	Economy					
Order amount.		Non-U.S.*	Non-U.S.**					
Up to \$14.99	\$5.00	\$50.00	\$15.00					
\$15 to \$59.99	\$6.00	\$75.00	\$16.00					
\$60.00+	10% Order Total	\$125.00	\$20.00					

<sup>\*</sup>International rates for guaranteed service are estimates.

**I agree that international economy service is non-guaranteed and does not
provide tracking or date/time specific delivery. Delivery time for this level of
service can take up to 8 weeks. If this level of service is selected, APA will not
be held liable and will not honor any claims for undelivered, delayed, or lost
shipments.
suprients.

☐ Hardship Request. If you do not have a personal subscription to the journal and you do not have access to an institutional or

the issue in which y information below.	cription copy, you may obtain a single copy of your article appears at no cost by filing out the					
	Issue no.:					
Issue month:						
CREDIT CARD PAYMENT VISA MASTERCARD AMERICAN EXPRESS						
CARD NUMBER						
Expire Date	Signature					

## PRINT CLEARLY - THIS IS YOUR MAILING LABEL

Name			
Addross			
Address			
City	State	Zip	

Send the completed form and your check, made out to the American Psychological Association, or your credit card information to:

APA Order Department 750 First Street, NE Washington, DC 20002-4242

All orders must be prepaid. Allow 4-6 weeks after the journal is published for delivery of a single copy or the first copy of a subscription.

American Journal of Orthopsychiatry

© 2017 American Orthopsychiatric Association http://dx.doi.org/10.1037/ort0000272

# Understanding the Mental Health Consequences of Family Separation for Refugees: Implications for Policy and Practice

AQ: au Alexander Miller and Julia Meredith Hess

University of New Mexico

**Deborah Bybee**Michigan State University





Consistent evidence documents the negative impacts of family separation on refugee mental health and concerns for the welfare of distant family members and desire to reunite with family members as priorities for refugees postmigration. Less is known about refugees' emic perspectives on their experiences of family separation. Using mixed methods data from a communitybased mental health intervention study, we found that family separation was a major source of distress for refugees and that it was experienced in a range of ways: as fear for family still in harm's way, as a feeling of helplessness, as cultural disruption, as the greatest source of distress since resettlement, and contributing to mixed emotions around resettlement. In addition to these qualitative findings, we used quantitative data to test the relative contribution of family separation to refugees' depression/anxiety symptoms, posttraumatic stress disorder (PTSD) symptoms, and psychological quality of life. Separation from a family member was significantly related to all 3 measures of mental health, and it explained significant additional variance in all 3 measures even after accounting for participants' overall level of trauma exposure. Relative to 26 other types of trauma exposure, family separation was 1 of only 2 traumatic experiences that explained additional variance in all 3 measures of mental health. Given the current global refugee crisis and the need for policies to address this large and growing issue, this research highlights the importance of considering the ways in which family separation impacts refugee mental health and policies and practices that could help ameliorate this ongoing stressor.

Alexander Miller, School of Medicine, University of New Mexico; Julia Meredith Hess, Departments of Anthropology & Pediatrics, University of New Mexico; Deborah Bybee, Department of Psychology, Michigan State University; Jessica R. Goodkind, Department of Sociology, University of New Mexico.

This study was funded by a grant to JRG from the National Institute on Minority Health & Health Disparities (R01MD007712). We wish to acknowledge the contributions of our core research team members (Suha Amer, Brandon Baca, Charlisa Christian, R. Neil Greene, Brian Isakson, Eric Ndaheba, Martin Ndayisenga, and Mahbooba Pannah), community advisory council members (Habiba Alkozai, Malalai Alkozai, Rahilah Alkozai, Hala Al-kurdi, Muslim Al-kurdi, Larry Buelow, Sharief Hadi, Marshall Jenson, Desire Kasi, Antoinette Kasi, Kiri Mathsen, Nina Nahimana, Jerome Ndabirorere, Freedance Nibakiza, Jean Paul Ninziza, Ngerina Nyankundwakazi, Kresta Opperman, Mandy Ortaa Danielle Parker, Rosa Reyes, Seyyed Qasim Sadat, and Sadiqa Sadat), interviewers/interpreters/ research assistants (Safaa Abid, Hadeer Albazzaz, Ebtisam Ali, Abdulamir Alibrahimi, Motasem Aljubury, Mohammed Alkawaz,

Sulah Alkawaz, Rana Al-khafaji, Odai Amer, Salim Ansari, Mika Armenta, Warood Arrawi, Samia Ayoubi, Karim Bakhsh, Venes Barlas, Jodi Beers, Chanda Begin, Kaveri Bisht, Alexandra Cervantes, Yousif Dabbach, Yuka Doherty, Jennifer Espinosa, Mariah Everett, Abdul Fahim, Mallory Fallin, Marilyn Garcia, Julia George-Jones, Noha Ghaly, Sharief Hadi, Caroline Hanawalt, Alyssa Herrera, Courtney Howe, Yasir Hussain, Parwin Hussaini, Alaa Hussein, Mohammed Ismail, Peace Izabayo, Maribel Jauregui, Kerstin Kalke, Elijah Kamermans, Arif Khan, Kelly Kourouma, Sonam Lama, Kaleka Lukusa, Sherry MacKay, Arianna Martinez, Ahmad Manshad, Ahmed Mashhadi, Larissa Messier, Cyntia Mfurakazi, Stephanie Mladinich, Chance Najera, Peter Njagi, Jemima Organ, Lorraine Pacheco, Danielle Parker, Jennifer Perry, Rose Rohr, Angelica Romero, Babak Shahsiah, Cece Shantzek, Ammar Sheraad, Sahar Shirzada, Sara Siyavoshi, Casey Smith, Chonour Varyani, Angelica Velasquez, Sage Vogel, Karen Wang, Sanaa Yaqoob, and Asma Yusufi), and all of the research participants and student advocates.

Correspondence concerning this article should be addressed to Jessica R. Goodkind, Department of Sociology, University of New Mexico, MSC05 3080, Albuquerque, NM 87131. E-mail: jgoodkin@unm.edu

| tapraid5/ort-ort/ort-ort/ort99917/ort2533d17z | xppws | S=1 | 3/31/17 | 6:03 | Art: 2016-1527

MILLER, HESS, BYBEE, AND GOODKIND

#### Public Policy Relevance Statement

Although family reunification has been a consistent consideration within U.S. immigration and refugee policy in the past, recent government actions and policies suggest that this has changed, and that, in fact, current U.S. policies and practices have actually increased refugees' and immigrants' risks for being separated from their families. This study finds that family separation has dire mental health consequences for individuals and may impede newcomer integration in U.S. society. Thus, our findings highlight the importance of local, state, federal, and international immigration and refugee policies returning to a prioritization of family reunification.

ngoing conflicts in southwest Asia and East Africa have resulted in the number of forcibly displaced people rising to an all-time high at the end of 2015, an estimated 65.3 million people worldwide (UNHCR Global Trends, 2016). This represented an increase of 12.4 million individuals during the 12 months of 2015, which equates to almost 34,000 people per day forced to leave their homes because of conflict or persecution. The majority of these 65 million people—approximately 40.8 million—are internally displaced persons, driven from their homes but remaining within the borders of their country of origin, while 21.3 million are classified as refugees. Refugee status is designated by the United Nations High Commissioner for Refugees and applies to those who have a well-founded fear of persecution should they return to their country of origin. States that produce refugees are sites of profound social upheaval, civil war, even genocide. Thus, most refugees have experienced traumatic events, such as torture, sexual assault, family fragmentation, and the death of loved ones (Knipscheer et al., 2015).

Given the difficult life experiences that many refugees have had to overcome, it is unsurprising that high rates of mental illness have been documented among refugee populations. Numerous studies have found that symptoms consistent with posttraumatic stress disorder (PTSD), major depression, suicidality, and anxiety are reported more commonly among refugee groups living in exile than among the background populations in these states (Centers for Disease Control and Prevention, 2013; Fazel, Wheeler, & Danesh, 2005; Heeren, Mueller, Ehlert, Schnyder, Copiery, & Maier, 2012; Mills et al., 2005; Pham, Vinck, & Stover, 2009; Porter & Haslam, 2005; Robjant, Hassan, & Katona, 2009). However, rates of psychological distress among refugees are lower than might be expected given their levels of trauma exposure and extensive research has documented the importance of broadening the ways in which the impact of trauma are measured to include culturally specific measures of distress (Miller et al., 2006) and psychosocial adaptive systems (Silove, 1999).

While there has been a great deal of research on the role of premigration experiences in refugee mental health, only recently have researchers come to recognize how profoundly postmigration circumstance impacts refugee well-being (Miller & Rasmussen, 2010; Tempany, 2009). In fact, psychosocial stressors such as discrimination, lack of economic opportunity, and significant social isolation some refugees experience after resettlement may more strongly predict emotional distress than exposure to trauma before or during flight (Pernice & Brook, 1996; Porter & Haslam, 2005; Rasmussen et al., 2010). Furthermore, research shows that

trauma exposure does not straightforwardly cause emotional distress or mental illness in all people the same way—rather, its impacts are variable, depending in large part upon conditions that prevail after the trauma has occurred (Carswell, Blackburn, & Barker, 2011; Gorst-Unsworth & Goldenberg, 1998).

Among the range of postmigration factors that impact refugee mental health, familial fragmentation has emerged as an important one among a variety of refugee communities (Rousseau, Mekki-Berrada, & Moreau, 2001). Ethnographic research demonstrates that conceptions of family vary across cultures, with more expansive conceptualizations of family common in non-Western cultures (Georgas, Berry, van de Vijver, Kagitcibasi, & Poortinga, 2006). Of note, Muslim families often conceive of core family members from up to three or four generations (Dhami & Sheikh, 2000). In recognition of the diverse meanings that family carries in different cultural settings, the United Nations High Commissioner on Refugees (UNHCR), in its 2008 Annual Tripartite Consultation on Settlement, attempted to extend to nonbiological members of a family group the same rights and protections as biological members (McDonald-Wilmsen & Gifford, 2016). The U.S. Refugee Resettlement Program resettles nuclear family units-parents and children. Moreover, family reunification for refugees outside the Refugee Resettlement Program has been limited, as the U.S State Department now requires applicants to obtain DNA tests or official adoption papers to ensure the veracity of familial relationships of applicants of its P-3 visa program, which allows refugees to apply for resettlement of family members fleeing crisis (Worth, 2015).

Although family is constructed differently across cultural settings, preliminary research suggests that the effects of familial separation may be similar for refugees from different geocultural regions (Rousseau, Mekki-Berrada, & Moreau, 2001). Studies have repeatedly documented concerns for the welfare of distant family members and the desire to reunite with said family members as prominent priorities for refugees in the postmigration period (McDonald-Wilmsen & Gifford, 2016; Momartin, Steel, Coello, Aroche, Silove, & Brooks, 2006; Rousseau, Mekki-Berrada, & Moreau, 2001). Although family separation clearly negatively impacts refugees' mental health, there is limited research that explores refugees' perspectives on their experiences of separation from family members, including the ways in which family separation impacts their mental health and how its impacts are manifested in their daily lives. It is also important to understand the relative importance of family separation on refugee mental health compared with other traumas and life stressors. Given the current global refugee crisis and the need for policies to

AQ: 3

3

FAMILY SEPARATION AND REFUGEE MENTAL HEALTH

address this large and growing issue, research on familial fragmentation and mental health that addresses these gaps is particularly important.

#### Method

The data we are reporting on in this article were collected as part of a randomized controlled trial, funded by the National Institute on Minority Health and Health Disparities (R01MD007712) and approved by the University of New Mexico Human Research Protections Office, that examines the efficacy of a communitybased advocacy, learning, and social support intervention to improve the mental health of recently arrived adult refugees from Afghanistan, Iraq, and the Great Lakes Region of Africa. The mixed methods study uses a convergent parallel design and includes quantitative and qualitative data collected from participants at four time points over a period of 14 months; the data are analyzed separately and integration occurs at the analytic level (Creswell & Plano Clark, 2011). Quantitative data is being analyzed to determine the impact of the intervention on reducing refugees' psychological distress, increasing protective factors, and engaging and retaining refugee adults with PTSD in Narrative Exposure Therapy (NET; Schauer, Neuner, & Elbert, 2005). NET is an evidence-based, short-term intervention that has been implemented and tested with people from many different parts of the world, including the Middle East and Africa. NET includes aspects of trauma-focused cognitive-behavioral therapy and testimony therapy and involves exposure but within the context of an individual's whole life. The narrative structure of NET is more culturally consistent with many non-Western cultures, and it enables the individual to address multiple traumatic events. Qualitative interviews are being used to explore participants' experiences of resettlement, to explore experiences with and effects of the intervention, to inform interpretation of quantitative data, and to investigate unexpected impacts of the study on participants.

## **Participants**

The overall study will be implemented with four cohorts. For each year of the study, all refugees in Albuquerque from the above countries who have been resettled in the United States within the last 3 years are invited to join the study. Participants are then randomized by family groups into control and intervention conditions. The control group is invited to attend a one-time stress management session, and the intervention group is invited to participate in the 6-month intervention in which participants are paired with undergraduate students who are trained in a mutual learning and advocacy model with the aim of increasing access to resources and social support. Participants in both conditions who are experiencing symptoms associated with posttraumatic stress disorder are offered Narrative Exposure Therapy.

The current research involves quantitative and qualitative data collected from initial preinterviews with refugee participants in the first three cohorts of the larger study (participants enrolled between October 2013 through November 2015). Quantitative and qualitative data were collected from 165 participants, through interviews and self-administered questionnaires translated into participants' languages. Participants came from three main re-

gions: Afghanistan/Persian area (52), Iraq/Syria (77), and Great Lakes Region of Africa (36). Potential participants (all refugees living in Albuquerque who were from the three regions of interest and who had been in the United States fewer than 3 years) were contacted by bilingual/bicultural study staff who briefly explained the study over the phone and arranged in-person meetings with refugees who were interested, at which time the study was explained in more detail. Eighty-five percent of eligible refugees agreed to participate in the study. Participant ages ranged from 18 to 71, with a mean of 36.29 and SD of 12.13. Eighty-six (52.0%) were women. In terms of time in the United States, the mean time was 7.81 months (SD = 7.22), with 40 participants here fewer than 2 months, 49 participants here between 2.0 and 4.9 months, 38 participants here between 5 and 12 months, and 38 participants here more than 12 months.

#### **Data Collection**

Interviews took place in participants' homes and were conducted by a bicultural interpreter who spoke the participant's native language and a native English speaker. Whenever possible (and almost all of the time), project staff and interviewees were matched by gender: men were interviewed by men and women by women.

The qualitative semistructured component of each interview was comprised of open ended questions that covered a variety of topics: personal background, resettlement experience in the United States, challenges and benefits of living in the United States, impacts of resettlement on family members, social support, access to resources and perceived cultural difference and cultural maintenance, hopes and goals for the future. Questions were asked in English, then interpreted, participants responded, and responses were interpreted back into English. The entire qualitative portion was recorded with the participant's consent. Average interview length was 50 min; the range was 12 to 143 min.

#### **Qualitative Analyses and Results**

The importance of familial separation emerged as numerous study team members who participated in initial qualitative analyses were struck by the frequency, poignancy, and intensity of refugees' discussions of their separation from family members and its deep impact on their daily lives and well-being. These observations were the impetus for the analyses and results described here

#### **Qualitative Data Analysis**

English portions of the qualitative interviews were transcribed by a professional transcriptionist. When possible, project staff speaking the participant's language checked interpretation for accuracy. Transcripts were then formatted, anonymized and imported into Nvivo 10 (QSR International, 2012), a qualitative data AQ: 4 management package. All text was then coded using a multiphase process. First, transcripts were coded according to question, allowing for rapid analysis of our semistructured data. Second, all text was coded thematically using a hierarchical coding tree by two coders working independently. The data analysis team conducted

a series of meetings to define codes to ensure consistency in the way they were applied to the data. Our goals were not to have coders apply the codes in exactly the same manner, but to allow for inclusion of the perspectives of a diverse team of analysts, which include refugee members, to apply the codes in a way that ensures ongoing discussion of interpretation and meaning. Third, analytic memos on major themes were created to analyze content for patterns and anomalies across the data, akin to focused coding as described by Charmaz (2014). The first author created analytic memos examining the effects of family separation on participant health.

#### **Qualitative Results**

Data from the semistructured qualitative interviews demonstrated that a major source of distress for participants is separation from their family members that comes with settling in a new country. This distress is experienced and described in a range of ways: as fear for family still in harm's way, as a feeling of powerlessness to assist distant family members, as the greatest source of distress since resettlement, as mixed emotions around the decision to resettle in the United States, as feeling constrained about what one can communicate to distant family, and as a cultural disruption.

## Fear for physical safety of family still in conflict

**zone.** Interviewees discussed fears for family members' safety on many occasions. Participants often described the negative emotional impact that these fears have on their lives here in the United States. One 33-year old Iraqi woman, Halima (all names are pseudonyms to protect the identity of participants), noted:

I'm not okay, psychologically. I feel really bad all the time, depressed, because we left our family in Iraq. We always hear of explosions and bombings in Iraq. Where my family lives in Baghdad, it's not a very safe place. I'm not really happy.

A 49-year old Iraqi man, Mushtaq, noted how his concerns for his brother have a pervasive impact on his thought processes here in the United States:

It's still bad in Iraq now. I have a lot concerns about my brother, because he lives—my brother, he lives under the stress, and the bad security situation. Just I'm putting my mind [to] how [to] push my brother to the safer place. How can I push him to move out of Iraq to safe place?

Numerous participants downplayed the other stressors that exist in their lives in the United States, in deference to their concerns for distant family.

The concerns participants had for their family members back home were made more urgent and distressing when information about those family members was difficult to find. One 40-year old Congolese woman, Meissa, described how: "I don't feel really good about it because when it comes to my two sons I still don't know where they are right now, so it's really heartbreaking for me. I don't feel good about it."

Meanwhile, other participants described how news about the conflict back home created an urgent need to verify the safety of family members. One Iraqi man, Aleem, related: "I wanted always to check for their health or being well because of the bombing in

Iraq and unsafe situation so when I hear anything I would have to call and check for them."

Among the Iraqi and Afghan participants, those who were employed by U.S. or Coalition forces often described how their work history led to additional uncertainty or danger for their loved ones back home. One Afghan man noted that:

Because they would face arrest and threat, because they are parents of a person who have been working with the coalition forces for 5 years. So they are, it's important that they hide. They should keep it secret.

One Iraqi man provided a glimpse into how affected he was by this problem, how he thought about his family more often than he thought about himself:

Interviewer: How does being in touch with them affect your

well-being?

Participant: Yeah, [being in touch with family back home]

affect[s] me a lot and it helped me during my resettlement here but I'm always thinking about them more than myself because I'm worried

about them.

Powerlessness to help distant family. Alongside fears for the safety of family members still in the conflict zone, another prominent theme was a feeling of powerlessness to help those family members. One Congolese woman, Ayana, stated that this feeling of powerlessness issued not only from the distance between her and her family back home, but from her impoverished circumstances here in the United States, "... if I had like money I could send her to support her. So that, but now we're crying together. We don't have anything." Moving to the United States had changed nothing for her family back home, and the participant also expressed pessimism about her future ability to help them materially. This seemed to make the separation from family more difficult to bear for this participant.

The notion that one derives personal fulfillment from helping family members—and is left disheartened when unable to do so—was present in other accounts as well. As Haleema, an Iraqi woman in her 60s discussed:

Since my daughters are over there [in Iraq] I cannot help them. Like I cannot sit with them, see them, so  $\dots$  if they just get here I can like help them with their kids, like watching their kids, maybe feel comfortable when I see them  $\dots$  [Iraqis] want to talk and to see each other so I will feel good if I do that.

The idea that family interaction will provide fulfillment for the participant was notable, beyond the obvious benefit it would provide for her daughters.

#### Dispersed family means unmet emotional needs.

Another theme prominent in our interviews was how individuals' socioemotional needs were not met when their family is spread out or distant. Participants detailed the ways in which having their relatives far away negatively impacted them, as well as relaying how their family members were responding to the participant being newly distant, here in the United States.

One Iraqi woman in her late 30s, Basmah, shared how her settling here in the United States had diminished her contact with

5

her family still living in Iraq, made her "emotionally tired." And without her family, "here, there is nothing."

Basmah's comment highlighted that visiting with family is a restorative emotional experience from which one can draw strength, a sentiment seen in other participants' accounts as well. An Iraqi man, age 28, Mukhalad, made very similar comments:

Interviewer: It [your mood] went down?

Participant: Yeah, 'cause of my family. In Syria, I was not

with my family all the time, but I had the chance to go see them whenever I want, but now I cannot, and this is the first Time I've been away from my family, like really, really

far from them.

Mukhalad's comment demonstrated that he considered a drop in mood to be the natural consequence of not having regular contact with family

One Iraqi man in his late 40s named Mushtaq, spoke about how he felt emotionally isolated without his family members: "It's not like a mental symptom. It's like mental concerns. Because there is nobody from your friends, or from your relatives around you, can't listen to you, or you can't participate your concerns with them." For Mushtaq, the separation from family meant not having anyone to discuss one's concerns with. Other participants made similar observations, namely, that family helps an individual to deal with adversity, and that not having family around made difficult experiences even harder. Peter, a 28-year old Congolese man, had similar sentiments about the adversity he faced soon after arriving to the United States:

Physically, it didn't really affect me, but mentally it really affected, 'cause I was hurt. Especially at that time, with all that was happening, I really thought about my mother a lot. I wished she was there for me. Going through all those problem[s] without her, it really hurt my heart.

Peter's comment suggested that family plays an important role in buffering a person against emotional shocks.

A variation on this theme emerged from a number of interviews—namely, that proximity of family allows individuals to be their best selves and to excel in life. Conversely, the absence of family served to slow or prevent growth or progress. A young Iraqi man, Amar, who was in his mid-20s, said the presence of family members was necessary for his own progress:

Interviewer: What are your hopes and ambitions for your

family?

Participant: I wish they would come to the United States,

come to this place so we're all together again and they can help me to improve in my life

basically, yeah.

A Congolese man, Zachariah, who was 40 years old, said being in touch with his family was "what adds beauty" to his life in the United States, and "If I'm not in contact with them I won't be happy." These passages demonstrate the various emotional responses that participants experienced during family separation; participants often characterized this separation as their single greatest source of distress.

**Separation as greatest source of distress.** In a number of passages, participants stated that the distance from their family members, and the emotional distress this engendered, was either their foremost concern in the United States, or the most distressing aspect of their life postresettlement. For Jameel, a 63-year old Iraqi man, being distant from his sons still in Iraq, was the only grievance he had about the United States: "So the main problem is the sons but otherwise I love U.S. I feel very safe, very happy, like all the benefits, everything is good." In a separate interview, his wife Asal, an Iraqi woman in her late 50s, likewise characterized this distance from children as her chief concern:

Okay, so the most thing make me sad [is] my son in Iraq, I wish that I can make him come here like in any way 'cause he's [the youngest] and he was the closest [son] to us, like every Time I talk to him he tells me, "I feel alone in the whole world, like when you just left." So I'm so sad for him. I want him to come here so it's the most thing that makes me sad.

Later on, speaking more directly about her health, Asal described how the presence of her sons here in the United States was the only missing precondition for her to have good health:

Interviewer: Okay. So you talked a little bit about some

health difficulties you're facing. What do you think you need in order to heal or get better?

Participant: My sons. Yeah.

Interviewer: Okay, how do you think that will make you

better?

Participant: When they come here first of all I wouldn't be

alone so that's going to help a lot. Second, I feel that they can help me, like help me for work, help me for not to be alone, to be a big family, to be happy, and . . . sometimes when I talk to my sons' kids, like when I just hear their voices I think to go back, like just for them. So I just want to be with them, to be happy.

The participant believed that her sense of loneliness would be resolved by her sons' arrival, that they could help her carry out her daily duties, and then described the duty she felt to care for her grandchildren, which at times gave her the urge to return to Iraq, despite the risks.

A 19-year old Iraqi woman, Delal, had similar feelings about her distance from her parents, which she characterized as the factor that most impacted her health here in the United States: "My parents is the most thing that makes me feel really bad because I [am] so worried about them, I miss them, I feel sad, yeah, so it's mostly this [that has affected my health during resettlement]."

Felicia, the Congolese woman quoted earlier, had a similarly comprehensive description of how her family arriving to the United States would benefit her health:

Interviewer: So you've mentioned that you have headaches,

and sometimes you think a lot, and the stress, what do you think you need in order to heal or

get better?

Participant: I need like someone to talk to. I need like to see

my family. Yeah . . .

Interviewer: Like how do you think it would help you?

Participant: To erase my stress. Yeah.

6

Interviewer: And if you were able to talk to your family how

would that help?

Participant: So much, it going to help me so much because

my family, they're part of me. The presence of one's family is felt by participants to be a necessary condition for maintenance or recovery of good health. Given the scope of the distress that family separation caused participants, participants often experienced mixed emotions over their decision to resettle in the

United States.

**Feeling conflicted about decision to resettle in the United States.** Because distance from family was often an overriding concern for study participants, one that sometimes dwarfed their relative satisfaction with other dimensions of life, participants also stated that separation from family contributed to emotional conflict related to their presence here in the United States. As one 44-year old Iraqi woman, Walaa, related,

[I]t's really hard for me just to leave them there behind, but at the same time, I'm thinking of my kids and their safety, which is my priority... There, no, I have to be worried because they might face bombs and kidnapping and that is not safe at all for them. Here, they are really fine and safe, and that will make me feel really—it's a relief and make me feel comfortable. What can I do? It just have a price.

The "price," for Walaa seemed to be a trade-off between her children living with safety and security here in the United States, which had obvious and overriding benefit in her mind, but which came at the cost of distance from other family members. "What can I do?" she asked, as if to say that there was no perfect course of action in her situation, but that she considered the needs of her children first.

An Iraqi woman in her mid-30s, Halima, described how, for her, the safety of her immediate family was likewise paramount:

My family in Iraq, they are sad that we left. They're not really happy, but we are very happy because now we're safe. It's so different in here. We were living in a war zone, so this is really safe. We're happy.

Another Iraqi woman, Azhar, who was 20 years old, described how the dissonant feelings that participants experience are matched by a peculiar blend of emotions in their family members back home:

So they were very sad that we are leaving because, you know, it's far away from here. We are going to miss them a lot. But at the same time, they encouraged us to come here because, you know ... when we were in Iraq during the war, my dad got kidnapped, my brother get to be disabled because of the war there, so they were praying for us, encouraging us to go and say please, be safe, we want you to live. "Go and try to find a better life, a safer life there." ... So it's kind of having two things like they are sad we are not there but at the same time they are comfortable, they are happy that we are safe here now.

Thus, for Azhar, this "success" was a mixed experience, tempered by sadness and longing.

Another Iraqi man, Zaid, age 50, hinted at the "mixed" emotional experience of leaving family behind to come to the United States, and how this caused "emotional issues:"

One feet here, one feet back home. Do you understand me? Then I feel like always I am in the middle, or I can tell you: my body here, but my soul there. That's what. Then that's me, cause me like emotional issue[s], mental things together.

A related but distinct theme of emotional conflict was relayed by participants who said that while their families were happy they were in the United States, ironically, they were not happy being here. A 22-year old Afghan man, Farid, stated: "They are so happy for me. But I'm not so happy."

Still another example of emotional dissonance was found in the comments of some Afghan participants. A 40-year old Afghan woman named Diba described how the expectations and preferences of her family members back in Afghanistan contributed to her family's uncertainty when immigrating to the United States:

We didn't tell them until we [arrived] here. Then we informed the families in Afghanistan that [we] were in U.S. Some of them were happy, some of them not, some have bad mentality about U.S. They do not know what's going on here.

When Diba said that her relatives "don't know what's going on here," she seemed to suggest that her relatives did not know about the aspects of life in the United States that she and her family had come to value. The discordance that participants experienced when confronted with the opinions and experiences of distant family members contributed to another theme found in our interviews, that participants felt constrained about what they could communicate to their distant family members.

Feeling constrained in what one can communicate to distant family. During interviews, participants frequently relayed their misgivings about communicating to distant family members the full details of their resettlement here in the United States. One Iraqi man, Saad, aged 40, discussed how he withheld details of his difficulties in order that he might prevent his family from feeling frustration:

Honestly, when I am talking to them and when I keep contact with them I have to say that everything is perfect, and I have to—because I do not want to push them for frustration, in order not to be frustrated over there, because they are planning to come here. I do not have to say that [resettlement agency] treated me just like this way, as I mentioned before. I have to keep that by myself in order to prevent them from the frustration.

Hearing of the difficult times he had experienced in the United States, he believed, would be very distressing to them.

Similarly Mushin, a 43-year old Iraqi man shared how he avoided communicating with his family through video calls, so that his family would not be alarmed by his appearance, which he considered to be an indicator of his unhealthy state. When asked how it impacted his health when he talked to his family, he responded, "Actually I feel sad because they used to see me in a better situation, healthy. And if they see me like that right now I will feel very sad and uncomfortable, so that will affect my situation, my health."

An Iraqi woman in her late 30s, Shaymaa, shared that she was reluctant to contact her family because she did not want to tell them how difficult life had proven for her in the United States:

Actually, I try to not contact them very much because I do not want to tell them the issue, the truth. Because our people, they know America is very great place and all the people here are very happy and rich, but this is not the truth. Then I cannot call them and tell them the[se] things ha[ve] not happened to me. Then I wait 'til maybe after 1 year, or I do not know when, but just 'til I can find a good job, like my job as a teacher or teacher assistant.... I cannot tell them now what's happening right now, that's difficult.

Like Saad, Shaymaa had made the judgment that sharing her difficulties with her distant family members would not serve her interests or theirs.

Separation as cultural disruption. While some participants described the toll that distance from family took on them in emotional terms, others spoke of challenges that it presented to cultural or religious practice. Zaid mentioned that in Iraqi culture, the word "family" means extended family rather than being limited to nuclear family. An Iraqi woman, Areej, who was in her early 30s, voiced a similar idea when she said that the most difficult thing about coming to the United States was leaving their families, because they are "a part of us."

Mukhalad attributed straying from strict religious practice to not having family members around him:

Like I told you, my family's not here, so there is nothing to keep me in base with that, with my religion, with my spiritual things. It's very hard to do it at home, so yeah. I've been starting to lose track of that.

His matter of fact response suggested the ways in which absence of family members could result in disconnection with wellestablished spiritual practices. One Afghan man, Atash, who was in his mid-40s, spoke about the universality of familial separation for refugees, and offered a unique description of how he imagined the family: "[It's] a big concern for all the refugees. The family is like a body. If you lose a body part, you are disabled."

Meanwhile, Zachariah, a Congolese man, described his wish to see his parents immigrate to the United States in terms of the cultural continuity they would be able to provide for his children:

I really need my parents here. I really want to see my family here because in the country back home they are not okay.... And I need my children also to learn about the culture where I come from. I think that legacy can only be given from my parents.

Zachariah later repeated his wish to have his parents immigrate to the United States as his "number one" worry. When asked why this was important, he again emphasized the cultural background that they would serve to connect him and his family with, because connection to one's culture had ontological value in itself: "It is important because I believe somebody who does not know he or she comes from is a lost person. He loses focus in life." A 19-year old Afghan woman named Elham similarly described her wish to see her family in cultural terms:

I miss my family. There is no one around me to talk with me and guide me in my life in the U.S. The culture is very different here and I need someone to communicate [with me] and guide me.

The participant framed her desire for family members close by as "guidance," implying that she felt disoriented, even adrift,

Our qualitative results show that in response to open-ended questions about refugee resettlement, health, and well-being, family separation was named repeatedly as the most distressing aspect of many refugees' resettlement experiences. Participants discussed family separation as having a large impact on their mental and physical health, and mentioned it in ways that suggest it also affected their feelings of self-efficacy and agency with respect to postmigration life.

## **Quantitative Analyses and Results**

After exploring the in-depth qualitative data on refugees' experiences of familial fragmentation and separation and the ways in which it impacted their mental health and resettlement experiences, we decided to augment these analyses with an examination of our quantitative data. The mixed method approach of the overall study was chosen to provide opportunities for such triangulation of findings (Creswell & Plano Clark, 2011). In this case, we sought to explore whether our quantitative data confirmed our qualitative findings related to the negative impact of family separation on refugee participants' mental health, and furthermore, to examine the strength of the relationship of family separation to participants' mental health, relative to other traumatic stressors.

## **Quantitative Measures and Data Analysis**

This study included three measures of psychological well-being: the Hopkins Symptom Checklist-25 measure of emotional distress (Derogatis et al., 1974), the PTSD Checklist—Civilian Version (Weathers et al., 2013), and the World Health Organization Psychological Quality of Life scale (The WHOQOL Group, 1998). All measures were translated by two people and independently backtranslated by two others. Discrepancies in translation were resolved through discussion among translators and the fourth author. Although not included here, the overall study also involved the development and testing of culturally specific measures of psychological distress for each refugee group.

Hopkins Symptom Checklist-25 (HSC-25). The HSC-25 is a self-report measure of anxiety and depression symptoms that has been used successfully and repeatedly with populations throughout the world, including refugees (e.g., CepedaBenito & Gleaves, 2000; Hermansson, Timpka, & Thyberg, 2002; Ichikawa, Nakahara, & Wakai, 2006; Mollica, Wyshak, de Marneffe, Khuon, & Lavelle, 1987; Nickerson et al., 2011; Smith-Fawzi et al., 1997) AQ: 6 and was rated by Hollifield and colleagues (2002) in their review of mental health measures for refugees as one of only two instruments to meet all five of their established criteria. Response choices for each item are on a Likert-type scale ranging from 1 (not at all) to 4 (extremely). The HSC-25 produces three scores: total score (mean of all 25 items), depression score (mean of the 15 depression items), and anxiety score (mean of the 10 anxiety items). It has been consistently shown in multiple populations that the total score is highly correlated with severe emotional distress of unspecified diagnosis, and that the depression score is correlated

with major depression as defined by the *Diagnostic and Statistical* Manual of the American Psychiatric Association-Fourth Edition (DSM-IV). We used the total score (calculated as the mean of all items) in the current study. Participants' scores ranged from 1.00 to 3.67, with M = 1.64, SD = 0.64. Typically, a score of 1.75 or above suggests clinically significant distress; 29.4% of our participants had scores above this cutoff. Cronbach's  $\alpha$  in our study was .96, with a range of item-total correlations from .66–.79.

8

#### PTSD Symptom Checklist-Civilian Version (PCL-C).

The PCL-C is a self-report measure of 17 PTSD symptoms that reflect the DSM-IV criteria/symptoms. An advantage of the PCL-C is that it asks about symptoms in relation to generic "stressful experiences," which allows for inclusion of the multiple traumas refugees may have experienced because symptom endorsements are not attributed to a specific event (although we also used a measure of trauma exposure, described subsequently, to verify that participants had experienced at least one trauma that would warrant completion of the PCL-C). The PCL-C is designed to produce a total symptom severity score (range = 17-85), which is obtained by summing the scores from each of the 17 items that have response options ranging from 1 (not at all) to 5 (extremely). The PCL-C can also be used to make a "presumptive" determination of whether respondents meet the DSM-IV criteria for PTSD, but we did not attempt to make diagnoses for our study, both because of our focus on symptom change rather than diagnosis and because we did not include a structured clinical interview. Cutpoint scores ranging from 30-50 have been recommended for the PCL-C, depending upon the population and setting of administration (Blanchard, Jones-Alexander, Buckley, & Forneris, 1996; Freedy et al., 2010). Based on review of relevant research, our clinical team chose to use a cutpoint score of 40 for this study. Our participants' scores ranged from 17.00 to 81.00, with M = 33.91, SD = 16.20,  $\alpha = .95$ , range of item-total correlations = .45–.80, and 27.8% of participants having a PTSD score above the clinical cutpoint score of 40.

World Health Organization Quality of Life Scale-Brief Version (WHOQOL-BREF). The WHOQOL-BREF is a 26-itme quality of life measure that was collaboratively developed by researchers at 15 international WHO field centers, with the goal of creating a quality of life assessment that would be applicable cross-culturally and that would assess respondents' quality of life from their own perspective (The WHOQOL Group, 1998). The full version of the WHOQOL has 100 items. The WHOQOL has four domains: physical health, psychological wellbeing, social relationships, and environment. For this study, we used three items from the psychological well-being subscale of the WHOQOL-BREF, which includes items that measure positive feelings, spirituality/religion/personal beliefs, and thinking, learning, memory and concentration. Response choices for each item are on a Likert-type scale ranging from 1 (not at all) to 5 (an extreme amount). Total subscale score is calculated as a sum of all items (possible range of 3 to 15), with higher scores indicating more positive quality of life. Participants' scores ranged from 3.00 to 15.00, with M = 9.78, SD = 2.88,  $\alpha = .80$ , range of item-total correlations = .36-.47. The WHOQOL-BREF is not designed to have specific cut-off scores, but rather is used to obtain a subjective assessment of respondents' quality of life.

Trauma exposure and family separation. Trauma exposure was assessed by a 27-item checklist that was created for our study in consultation with several clinical researchers who focus on trauma exposure in refugee populations and included items from Weine and colleagues (1995), Foa and colleagues (1993), and the Harvard Trauma Questionnaire (Mollica et al., 1992). Participants' scores ranged from 0 to 25 (indicating that some participants did not endorse any of the 27 items of trauma exposure while some participants reported experiencing 25 of the 27 types of trauma); M = 8.45, SD = 6.19,  $\alpha = .91$ , item-total correlations = .24-.59. One trauma exposure item in the 27-item checklist assessed whether the participant had experienced "separation from a family member or loved one"; this item was endorsed by 93 (56.4%) of the participants. This item was removed from the overall trauma score to examine its separate effects; for the remaining 26-item scale, M = 7.72, SD = 5.81.

## **Quantitative Data Analysis**

To explore whether the negative impact of family separation on refugee participants' mental health could be seen in the quantitative data, we first used t tests to compare individuals who reported family separation with those who did not on each of the three measures of psychological well-being. We then performed a multivariate analysis of covariance (MANCOVA) on the set of three mental health variables by family separation, adjusting for the potentially confounding effects of overall trauma and months in the United States. To reduce the impact of missing data, we imputed three scores affecting two participants, using expectation maximization (Enders, 2010).

#### **Quantitative Results**

Table 1 contains means, SDs, and t tests comparing refugees T1 who had experienced family separation with those who had not on the three measures of psychological well-being plus overall trauma exposure and weeks in the United States. Refugees who reported family separation had significantly higher levels on the Hopkins measure of anxiety and depression and the PTSD checklist and significantly lower levels of psychological quality of life. They also reported higher levels of overall trauma. There were no differences on length of time in the United States.

Table 2 presents the results of MANCOVA by family separation T2 on the three psychological well-being measures, adjusting for overall trauma and time in the United States. As expected, the effect of overall trauma exposure was significant in the multivariate test and all univariate tests, accounting for 3 to 25% of the variance in the individual psychological well-being measures. After accounting for the effects of overall trauma, family separation showed significant effects in both the multivariate test as well as the univariate tests for all three psychological well-being measures. Family separation accounted for an additional 4% of the variance in the Hopkins measure of anxiety and depression symptoms, 7% of the variance in PTSD symptoms, and 5% of the variance in psychological quality of life.

To assess whether other specific types of trauma also explained additional variance after controlling for overall trauma exposure, each of the other 26 items of the trauma exposure measure was

Table 1. Psychological Well-Being, Overall Trauma Exposure, and Months in the United States by Family Separation

		eparation = 93)		separation - 72)	Comparative statistic		
Dependent variables	Mean	SD	Mean	SD	t(163)	p	
Hopkins symptom checklist	1.85	.66	1.37	.49	5.31	<.001	
PTSD checklist	40.12	17.04	25.52	10.30	6.81	<.001	
WHO psychological quality of life	9.04	2.78	10.74	2.73	3.91	<.001	
Overall trauma exposure (26-item)	9.90	5.33	4.90	5.20	6.03	<.001	
Months in United States	8.53	7.94	6.88	6.09	1.51	.13	

Note. PTSD = posttraumatic stress disorder; WHO = World Health Organization.

tested. Only one other item—having experienced physical assault, beating, or torture—explained additional variance in all three measures of psychological well-being.

#### **Discussion**

In-depth qualitative interviews with 165 recently resettled refugees from Afghanistan, Iraq, and the Great Lakes Region of Africa revealed that family separation was one of the most salient and distressing aspects of their resettlement experiences. Quantitative data from the same refugee participants confirmed the strong negative association between family separation and mental health, and further highlighted that family separation explained additional variance in depression/anxiety symptoms, PTSD symptoms, and psychological quality of life after controlling for overall trauma exposure. This is particularly striking because only one of the other 26 types of trauma exposure measured explained additional variance in all three measures of mental health. These findings emphasize the importance of conducting mixed methods research with refugee populations to enable us to more comprehensively understand refugee experiences and also suggest numerous implications for policy and practice.

Refugee participants repeatedly discussed separation from family members as a major stressor and family reunification as one of the primary needs they had to improve their quality of life in the United States. While much research on refugee well-being has focused on premigration trauma, increasingly researchers have sought to examine resettlement stressors and the role they play in mental health and social integration (e.g., Carswell et al., 2011; Miller & Rasmussen, 2010). Family separation can be construed as both a premigration trauma and as an ongoing postmigration

stressor; it is a temporal process that does not end, and indeed may be exacerbated by resettlement in the United States as geographical distances between family members increase. Rousseau and colleagues (2001) note that: "For refugees who have had traumatic experiences, extended separation from family members may serve as a continuing link to an unbearable past" (p. 41). Thus, familial separation is a phenomenon that connects pre- and postmigration experiences. This understanding is consistent with transnational theorizing of migration, which has upended the notion of a distinct separation between pre- and postmigration life (Basch, Glick Schiller, & Szanton Blanc, 1994).

More important, our results further elucidate the ways in which familial separation spans pre- and postmigration experience through participants' descriptions of their ongoing fears for family still in harm's way, their feelings of powerlessness to assist their distant family members, their separation from family as the greatest source of distress since resettlement, their experiences of mixed emotions around the decision to resettle in the United States, their constrained feelings about being able to seek social support from distant family members because of not wanting to burden family members living in danger with their difficulties, and the cultural disruption that resulted from being separated from family.

Our qualitative data show that refugees experience separation from family in a number of ways, and describe the emotional impacts of this separation in diverse language. Common to these accounts, however, is the notion that this separation is a noxious experience, a stressor. As discussed previously, research has shown that ongoing stressors play a critical role in mediating the impacts of past traumas on emotional well-being in refugees (Steel et al., 1999). For professionals working with refugees and for policymakers who make decisions that impact refugees' ability to

**Table 2.** MANCOVA on Three Measures of Psychological Well-Being by Family Separation, Adjusting for Overall Trauma, and Months in United States

							Univariate tests for each dependent variable					e
	Multivariate tests		Hopkins symptom checklist			PTSD checklist			WHO psychological quality of life			
Effects	F(3, 159)	p	$\eta^2$	F(1, 161)	p	$\eta^2$	F(1, 161)	p	$\eta^2$	F(1, 161)	p	$\eta^2$
Family separation	4.51	.01	.08	7.04	.01	.04	11.89	<.001	.07	7.83	.01	.05
Overall trauma exposure (covariate)	19.60	<.001	.27	29.90	<.001	.16	53.40	<.001	.25	4.17	.04	.03
Months in United States (covariate)	1.09	.36	.02	.01	.93	.00	.21	.64	.00	1.31	.25	.02

Note. MANCOVA = multivariate analysis of covariance; PTSD = posttraumatic stress disorder; WHO = World Health Organization.

reunify with family members, the need to neutralize ongoing stressors should be paramount. However, as Rousseau and colleagues (2001) speculate, countries of permanent settlement may tend to focus on past traumas in studies of refugee mental health:

10

Perhaps the fact that there is greater academic interest in trauma than in separation reflects the political dimension of these phenomena: armed conflict and war trauma are seen as the violence of others (Kleinman & Kleinman, 1997), whereas an examination of prolonged separations highlights Western administrative violence (Rousseau, Mekki-Berrada, & Moreau, 2001, p. 56).

Rousseau and colleagues suggest that the extended separations from family that refugees experience—often as relatives' refugee or immigration cases pend according to an unknown timeline—are examples of "Western administrative violence" that presumably continue to cause harm to refugees and should be acknowledged and addressed when considering how to improve the well-being of refugees.

Indeed, a common feature of many of the separations that our interviewees related was an unknown duration. Participants variously articulated hopes, dreams, and, occasionally, plans for the reunion with family, but seldom stated concrete dates or timelines. It is this uncertainty around the reunion with family that makes these separations examples of "ambiguous loss," a kind of relational disorder described by Boss (2010) in which a loved one is either physically present but psychologically absent, or psychologically present but physically absent. Examples relevant to this study included kidnapping, disappearance, or migration—all situations in which loss was unclear, confusing, incomprehensible, and, critically, defied closure (Boss, 2010). In such losses, there is "no verification, no closure, no rituals for support, and thus no resolution of grief" (Boss, 2010, p. 144).

In the case of third country resettlement, one could argue that safety concerns are dramatically lessened for at least some members of the family, which certainly creates an avenue for increased hope for the future and family reunification. Still, it is important to note that Laban and colleagues (2004) found that protracted administrative limbo was an important risk factor for psychopathology in Iraqi asylum seekers, with those who had spent longer in the process more likely to have higher levels of psychiatric distress. Hauff and Vaglum's (1995) research also suggests that longer separations may contribute to more pathology: "Refugees may feel that they never will see their families again, but it is difficult to mourn since the people they miss are in fact still alive. Exile normally implies an unfavourable situation for mourning, because of social deprivation and isolation and a feeling of a lack of safety" (p. 366).

#### Limitations

Although our study makes important contributions to understanding the impact of familial separation on mental health of refugees, one notable limitation is a lack of inclusion of measures that systematically assessed the frequency and types of contact that participants had with family members from whom they were separated. Over the last two decades, the global dissemination of communication technology has contributed to the ability of refugees to be in contact with family members to an unprecedented degree. In the open-ended interviews, many participants indicated

that they communicated with family members in their home countries or other places abroad often daily or at least weekly. They communicated by phone, but more often by free Internet phone and video calling services, including Skype, Facebook, and Viber. In addition, cable, satellite, and Internet access to news in their native languages meant that participants were continuously aware of news from their home countries and other places where their family members lived, which were often places of continued conflict and danger. Participants indicated this this level of contact and awareness of potential dangers to family members had impacts on their health and well-being. While many participants discussed the positive effects of speaking with family members, as seen in our results, many other refugees felt they could not be honest about the difficulties they faced in the United States for fear of distressing family members further. These contrasting experiences related to contact with family members who were far away but could be communicated with much more easily than in the past is an important area for future research. Although there is evidence that being with family members can have protective effects for people who have experienced trauma (e.g., Tsoi, Yu, & Lieh-Mak, 1986), less is known about connecting with family members through virtual means.

#### **Conclusion**

Historically, family reunification has been a cornerstone of U.S. immigration and refugee policy. Our research shows that family separation not only has serious health impacts for individuals, but that it also may have important effects on refugee integration in U.S. society in the long-term. Further, recent government policy changes and actions, including an Executive Order that cuts the number of refugees to be resettled in the United States by more than half in the current year and bans immigration from seven countries, as well as policies requiring DNA testing for reunification of refugee family members, and more generally, the increase in deportations of unauthorized Mexican immigrants, many from mixed status families, indicate an erosion of this important aspect of U.S. immigration and refugee policy. Given our findings of the importance of family for refugee mental health, policies and practices that facilitate family reunification may be important for promoting refugee and immigrant well-being. Our findings are consistent with other studies (e.g., Carswell et al., 2011) that have pointed to the need for greater responsiveness on the part of government agencies to the various needs of refugees, including prioritizing family reunification.

**Keywords:** family separation; mental health; mixed methods; postmigration stressors; refugee

AQ: 2

#### References

Basch, L., Glick Schiller, N., & Szanton Blanc, C. (1994). Nations unbound: Transnational projects, post-colonial predicaments, and deteriorialized nation-states. New York, NY: Routledge.

Blanchard, E. B., Jones-Alexander, J., Buckley, T. C., & Forneris, C. A. (1996). Psychometric properties of the PTSD Checklist (PCL). Behaviour Research and Therapy, 34, 669–673. http://dx.doi.org/10.1016/0005-7967(96)00033-2

Boss, P. (1999). Ambiguous loss: Learning to live with unresolved grief. Cambridge, MA: Harvard University Press.

11

AQ: 9

AQ: 10

AQ: 11

- Boss, P. (2010). The trauma and complicated grief of ambiguous loss.

  Pastoral Psychology, 59, 137–145. http://dx.doi.org/10.1007/s11089-009-0264-0.
- Carswell, K., Blackburn, P., & Barker, C. (2011). The relationship between trauma, post-migration problems and the psychological well-being of refugees and asylum seekers. *International Journal of Social Psychiatry*, 57, 107–119. http://dx.doi.org/10.1177/0020764009105699
- Centers for Disease Control and Prevention (CDC). (2013). Suicide and suicidal ideation among Bhutanese refugees—United States, 2009– 2012. Morbidity and Mortality Weekly Report, 62, 533–536.
- Creswell, J. W., & Plano Clark, V. L. (2011). *Designing and constructing mixed method research* (2nd ed.). Thousand Oaks, CA: Sage.
- Derogatis, L. R., Lipman, R. S., Rickels, K., Uhlenhuth, E. H., & Covi, L. (1974). The Hopkins Symptom Checklist (HSCL): A self-report symptom inventory. *Behavioral Science*, 19, 1–15. http://dx.doi.org/10.1002/bs.3830190102
- Dhami, S., & Sheikh, A. (2000). The Muslim family: Predicament and promise. *The Western Journal of Medicine*, 173, 352–356. http://dx.doi.org/10.1136/ewjm.173.5.352
- Enders, C. K. (2010). Applied missing data analysis. New York, NY: Guilford Press.
- Fazel, M., Wheeler, J., & Danesh, J. (2005). Prevalence of serious mental disorder in 7000 refugees resettled in western countries: A systematic review. *The Lancet*, 365, 1309–1314. http://dx.doi.org/10.1016/S0140-6736(05)61027-6
- Foa, E. B., Riggs, D., Dancu, C., & Rothbaum, B. (1993). Reliability and validity of a brief instrument for assessing post-traumatic stress disorder. *Journal of Traumatic Stress*, 6, 459–473. http://dx.doi.org/10.1002/jts .2490060405
- Freedy, J. R., Steenkamp, M. M., Magruder, K. M., Yeager, D. E., Zoller, J. S., Hueston, W. J., & Carek, P. J. (2010). Post-traumatic stress disorder screening test performance in civilian primary care. *Family Practice*, 27, 615–624. http://dx.doi.org/10.1093/fampra/cmq049
- Georgas, J., Berry, J. W., van de Vijver, F., Kagitçibasi, C., & Poortinga, Y. H. (2006). Families across cultures: A 30-Nation psychological study. Cambridge: Cambridge University Press. http://dx.doi.org/10.1017/ CBO9780511489822
- Gorst-Unsworth, C., & Goldenberg, E. (1998). Psychological sequelae of torture and organised violence suffered by refugees from Iraq. Traumarelated factors compared with social factors in exile. *The British Journal* of Psychiatry, 172, 90–94. http://dx.doi.org/10.1192/bjp.172.1.90
- Hauff, E., & Vaglum, P. (1995). Organised violence and the stress of exile.
  Predictors of mental health in a community cohort of Vietnamese refugees three years after resettlement. *The British Journal of Psychiatry*, 166, 360–367. http://dx.doi.org/10.1192/bjp.166.3.360
- Heeren, M., Mueller, J., Ehlert, U., Schnyder, U., Copiery, N., & Maier, T. (2012). Mental health of asylum seekers: A cross-sectional study of psychiatric disorders. *BMC Psychiatry*, 12, 114. http://dx.doi.org/10.1186/1471-244X-12-114
- Hollifield, M., Warner, T. D., & Lian, N. (2002). Measuring trauma and health status in refugees: A critical review. *Journal of the American Medical Association*, 288, 611–621.
- Kirmayer, L. J. (2003). Failures of imagination: The refugee's narrative in psychiatry. Anthropology & Medicine, 10, 167–185. http://dx.doi.org/ 10.1080/1364847032000122843

AO: 8

- Kleinman, A., & Kleinman, J. (1997). The appeal of experience; the dismay of images: Cultural appropriations of suffering in our times. In A. Kleinman, V. Das, & M. Lock (Eds.), Social suffering (pp. 1–24). Berkeley, CA: University of California Press.
- Knipscheer, J. W., Sleijpen, M., Mooren, T., ter Heide, F. J. J., & van der Aa, N. (2015). Trauma exposure and refugee status as predictors of mental health outcomes in treatment-seeking refugees. *BJPsych Bulletin*, 39, 178–182.

- Laban, C. J., Gernaat, H. B., Komproe, I. H., Schreuders, B. A., & De Jong, J. T. (2004). Impact of a long asylum procedure on the prevalence of psychiatric disorders in Iraqi asylum seekers in The Netherlands. *Journal of Nervous and Mental Disease*, 192, 843–851. http://dx.doi.org/10.1097/01.nmd.0000146739.26187.15
- Laban, C. J., Gernaat, H. B., Komproe, I. H., van der Tweel, I., & De Jong, J. T. V. M. (2005). Postmigration living problems and common psychiatric disorders in Iraqi asylum seekers in the Netherlands. *Journal of Nervous and Mental Disease*, 193, 825–832. http://dx.doi.org/10.1097/01.nmd.0000188977.44657.1d
- McDonald-Wilmsen, B., & Gifford, S. M. (2016). Refugee resettlement, family separation and Australia's humanitarian programme. *New Issues in Refugee Research, Research Paper No. 178. UNHCR*. Retrieved from http://www.unhcr.org/4b167ae59.pdf
- Miller, K. E., Omidian, P., Quraishy, A. S., Quraishy, N., Nasiry, M. N., Nasiry, S., . . . Yaqubi, A. A. (2006). The Afghan symptom checklist: A culturally grounded approach to mental health assessment in a conflict zone. *American Journal of Orthopsychiatry*, 76, 423–433. http://dx.doi .org/10.1037/0002-9432.76.4.423
- Miller, K. E., & Rasmussen, A. (2010). War exposure, daily stressors, and mental health in conflict and post-conflict settings: Bridging the divide between trauma-focused and psychosocial frameworks. *Social Science* & *Medicine*, 70, 7–16. http://dx.doi.org/10.1016/j.socscimed.2009.09 .029
- Mills, E. J., Singh, S., Holtz, T. H., Chase, R. M., Dolma, S., Santa-Barbara, J., & Orbinski, J. J. (2005). Prevalence of mental disorders and torture among Tibetan refugees: A systematic review. *BMC International Health and Human Rights*, 5, 7–14. http://dx.doi.org/10.1186/1472-698X-5-7
- Mollica, R. F., Caspi-Yavin, Y., Bollini, P., Truong, T., Tor, S., & Lavelle, J. (1992). The Harvard Trauma Questionnaire. Validating a cross-cultural instrument for measuring torture, trauma, and posttraumatic stress disorder in Indochinese refugees. *Journal of Nervous and Mental Disease*, 180, 111–116. http://dx.doi.org/10.1097/00005053-199202000-00008
- Momartin, S., Steel, Z., Coello, M., Aroche, J., Silove, D. M., & Brooks, R. (2006). A comparison of the mental health of refugees with temporary versus permanent protection visas. *The Medical Journal of Australia*, 185, 357–361.
- Neimeyer, R. (2001). Meaning, reconstruction and the experience of loss. Washington, DC: American Psychological Association. http://dx.doi.org/10.1037/10397-000
- Nickerson, A., Bryant, R. A., Brooks, R., Steel, Z., Silove, D., & Chen, J. (2011). The familial influence of loss and trauma on refugee mental health: A multilevel path analysis. *Journal of Traumatic Stress*, 24, 25–33. http://dx.doi.org/10.1002/jts.20608
- Oxman Martinez, J., & Vincent, N. L. (2002). Precarious immigration status, dependency and women's vulnerability to violence: Impacts on their health. Montreal: Centre for Applied Family Studies, McGill University and Immigration and Metropolis. Retrieved from http://www.im.metropolis.net/medias/Version\_ang\_PDF.pdf
- Pham, P. N., Vinck, P., & Stover, E. (2009). Returning home: Forced conscription, reintegration, and mental health status of former abductees of the Lord's Resistance Army in northern Uganda. BMC Psychiatry, 9, 23–36. http://dx.doi.org/10.1186/1471-244X-9-23
- Porter, M., & Haslam, N. (2005). Predisplacement and postdisplacement factors associated with mental health of refugees and internally displaced persons: A meta-analysis. *Journal of the American Medical Association*, 294, 602–612. http://dx.doi.org/10.1001/jama.294.5.602
- Robjant, K., Hassan, R., & Katona, C. (2009). Mental health implications of detaining asylum seekers: Systematic review. *The British Journal of Psychiatry*, 194, 306–312. http://dx.doi.org/10.1192/bjp.bp.108.053223
- Rousseau, C., Mekki-Berrada, A., & Moreau, S. (2001). Trauma and extended separation from family among Latin American and African

refugees in Montreal. Psychiatry, 64, 40–59. http://dx.doi.org/10.1521/psyc.64.1.40.18238

- Schauer, M., Neuner, F., & Elbert, T. (2005). Narrative Exposure Therapy (NET): A short-term intervention for traumatic stress disorders after war, terror or torture. Boston, MA: Hogrefe.
- Silove, D. (1999). The psychosocial effects of torture, mass human rights violations, and refugee trauma: Toward an integrated conceptual framework. *Journal of Nervous and Mental Disease*, 187, 200–207. http://dx .doi.org/10.1097/00005053-199904000-00002
- Steel, Z., Silove, D., Bird, K., McGorry, P., & Mohan, P. (1999). Pathways from war trauma to posttraumatic stress symptoms among Tamil asylum seekers, refugees, and immigrants. *Journal of Traumatic Stress*, 12, 421–435. http://dx.doi.org/10.1023/A:1024710902534
- Tempany, M. (2009). What research tells us about the mental health and psychosocial wellbeing of Sudanese refugees: A literature review. *Transcultural Psychiatry*, 46, 300–315. http://dx.doi.org/10.1177/1363461509105820
- The WHOQOL Group. (1998). Development of the World Health Organization WHOQOL-BREF quality of life assessment. *Psychological Medicine*, 28, 551–558. http://dx.doi.org/10.1017/S0033291798006667

- Tsoi, M. M., Yu, G. K., & Lieh-Mak, F. (1986). Vietnamese refugee children in camps in Hong Kong. *Social Science & Medicine*, *23*, 1147–1150. http://dx.doi.org/10.1016/0277-9536(86)90332-1
- UNHCR Global Trends. (2015). Forced displacement in 2015. Geneva, Switzerland: UNHCR. Retrieved from http://www.unhcr.org/en-us/ statistics/country/576408cd7/unhcr-global-trends-2015.html
- Weathers, F. W., Litz, B. T., Keane, T. M., Palmieri, P. A., Marx, B. P., & Schnurr, P. P. (2013). The PTSD Checklist for *DSM*–5 (PCL-5). *National Center for PTSD*. Retrieved from http://www.ptsd.va.gov/professional/assessment/adult-sr/ptsd-checklist.asp
- Weine, S. M., Becker, D. F., McGlashan, T. H., Laub, D., Lazrove, S., Vojvoda, D., & Hyman, L. (1995). Psychiatric consequences of "ethnic cleansing": Clinical assessments and trauma testimonies of newly resettled Bosnian refugees. *The American Journal of Psychiatry*, 152, 536– 542. http://dx.doi.org/10.1176/ajp.152.4.536
- Worth, K. (2015). For some refugees, safe haven now depends on a DNA test. Frontline, October, 15, 2015. Retrieved from http://www.pbs.org/ wgbh/frontline/article/for-some-refugees-safe-haven-now-depends-ona-dna-test/

# **AUTHOR QUERIES**

## **AUTHOR PLEASE ANSWER ALL QUERIES**

- AQau—Please confirm the given-names and surnames are identified properly by the colors.
  - ■= Given-Name, ■= Surname

The colors are for proofing purposes only. The colors will not appear online or in print.

- AQ1—Author: Please be sure to provide the name of the department(s) with which you and your coauthors are affiliated at your respective institutes if you have not already done so. If you or your coauthors are affiliated with an institute outside of the United States, please be sure to provide the city, province (if applicable), and country in which the institute is based. If you are affiliated with a governmental department, business, hospital, clinic, VA center, or other nonuniversity-based institute, please provide the city and U.S. state (or the city, province, and country) in which the institute is based.
- AQ2—Author: Journal style is to provide 3 to 5 keywords or phrases. Please note the change to your original list.
- AQ3—Author: Please add Pernice & Brook (1996) and Rasmussen et al. (2010) to the reference list or remove it from the text.
- AQ4—Author: Please add QSR International (2012) to the reference list or remove it from the text.
- AQ5—Author: Please add Charmaz (2014) to the reference list or remove it from the text.
- AQ6—Author: Please add CepedaBenito & Gleaves (2000); Hermansson et al. (2002); Ichikawa et al. (2006); and Smith-Fawzi et al. (1997) to the reference list or remove it from the text.
- AQ7—Author: Please cite Boss (1999) in the text or remove it from the reference list.
- AQ8—Author: Please cite Kirmayer (2003) in the text or remove it from the reference list.
- AQ9—Author: Please cite Laban et al. (2005) in the text or remove it from the reference list.
- AQ10—Author: Please cite Neimeyer (2001) in the text or remove it from the reference list.
- AQ11—Author: Please cite Oxman-Martinez & Vincent (2002) in the text or remove it from the reference list.