¹Table 1 Web Appendix: Iraqi Refugees – Selected Characteristics and Summary of Studies Identified to Meet Systematic Review Criteria

4 5

> ⁶₇For: Quosh, C., Eloul, L., Ajlani, R. (2013). Syria – Refugees and Displaced in the past and current crises: Systematic Review Assessing the Mental 8 Health Profile and System. *Intervention: International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed Conflict, 11*(3).

10 11

12 Search terminology used in systematic review for Iraqi Refugees

	Content	Population	Location
Key Search	Mental Health	Iraqi	Syria
Term			
Synonyms	Psychosocial Well-	Iraqis	Regional Locations
	being*		
	Emotional Well-	Iraqi refugee(s)	Jordan
	being*		
	Psychosocial*	Iraqi asylum seeker	Lebanon
	Social	Iraqi (internally) displaced	Egypt
	Psychological		Turkey
	Psychiatric		(Iraq)
	Trauma		
	Distress		
Exclusions**		Veteran, soldier, deployment	

** Based on a first test run exclusion terms were identified to tailor the search output

- 34 35
- 36

³⁷ The inclusion criteria for the review

38

³⁹₄₀1) The publication/study included Iraqi refugees in Syria or in refugee-hosting countries in the region (i.e., Jordan, Lebanon, Turkey, Egypt).

 $\frac{1}{41}$ The publication/study provided data relevant to understanding the mental health status and profile of Iraqi refugees

423) The article/document was published between 1997 and July 2013 in English or Arabic.

- 43 44
- 44
- 45 46
- 47
- 48
- 49

$\frac{1}{2}$ Summary of main findings by study and location divided by published, grey literature and additional literature

 $\overline{3}$ (The results are clustered according to content of studies and guiding framework.) 4

	Study (Author/ Year	Population, Location, Time Sample Size	Design Methodology Age (years) Gender (% female) Measures	Main Findings about Mental Health Profile and Outcome
	Iraqi Refug	gees published liter	ature (database search)	
	SYRIA			
1	Tappis et al., 2012	Iraqi female refugees in Syria March 2009 (N=701 with 486 for final analysis)	Cross-sectional survey with adult Iraqi females including health and well-being measures, domestic violence questionnaire, household questionnaire completed by oral interview, stratified 80x100 cluster sampling design	Domestic violence 30% respondents reported lifetime domestic violence, with physical 34%, verbal 56%, emotional abuse 20%, approx. 20% experienced abuse within the past year Risk factors for domestic violence: Non-Damascene resident, children under 18 in the household, borrowing money, experiences of violence in the past
	SYRIA & J			
2	Cope, 2011	Iraqi refugees in Jordan and Syria	Analysis of secondary data from UNICEF (2008) and the International Catholic Migration Commission (ICMC, 2009) assessments of the Iraqi population in Jordan and Syria;	<u>Psychological outcome</u> Jordan: Adults reported depressed mood: 16,67% (194 out of 1200) Syria: Adults reported depressed mood: 44,11% (352 out of 798) Psychosocial needs: 40.89% (330 out of 807)
		Jordan: N= 1,200 households (5,440 individuals) UNICEF Syria: N = 813 households (3,923 individuals) ICMC	multistage cluster design, Jordan: 120 x 10 cluster survey design, 120 clusters split proportionally between the Amman and non-Amman Iraqi populations, Syria: 80 x 10 cluster survey design with the 80 clusters split proportionally between the Damascus and non- Damascus Iraqi population, questionnaire was first developed in Jordan using feedback from multiple stakeholders and then applied in Syria	 Respondents reporting a <u>need for psychosocial services</u> in Syria were more likely to live a larger household (shown through an association between increased stresses related to living in a larger household), particularly among heads of households Household size overall showed little association with access to care Prevalence of physical or mental disability: 3% (Iraqis in Jordan), 7% (Iraqis in Syria)
3	Doocy et al., 2011	Iraqi refugees in Jordan and Syria	Secondary data analysis of data obtained from UNICEF survey conducted in 2008. Multistage cluster surveys, Jordan: 120 x 10 cluster survey design,	 <u>Food security and food assistance:</u> Livelihood and food is significantly more expensive in Jordan than in Syria A limited amount of people receive food assistance in Jordan (18%) as opposed to the majority receiving food assistance in Syria (90%)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Jordan: N= 1,200 households (4,997 individuals) Syria: N= 813 households (3,684 individuals)	 120 clusters split proportionally between the Amman and non-Amman Iraqi populations, Syria: 80 x 10 (see above) Questionnaire was developed in Jordan with input from different agencies and stakeholders Questionnaire aimed to ask Iraqi refugees about general food security and living conditions, health status, access to health services, and receipt of humanitarian assistance such as cash assistance and food aid 	 71% of Iraqis in Syria sold their food rations, compared to only 41% of Iraqis in Jordan Around 10% of the participants in Jordan and Syria went an entire day without eating a meal, and around 20% reported ever feeling hungry Cash assistance: Living expenses are significantly higher in Jordan than they are in Syria Cash assistance was limited both in Jordan and Syria 13.9% and 25.3 % respectively In Jordan cash assistance was positively associated with, large number of individuals in household, low economic status, and registration with the UNHCR In Syria cash assistance was associated with female headed households, UNHCR registration, residing in Damascus (close to UNHCR main office) and families with children
20 4 Doocy et al., 2013 21 22 al., 2013 23 24 25 26 27 28 29 30 31 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Iraqi refugees in Jordan and Syria Jordan: N= 1,200 households (5,440 individuals) UNICEF Syria: N = 813 households (3,923 individuals) ICMC Oct 2008 (Jordan) and March 2009 (Syria)	Nationally representative cross-sectional surveys of Iraqi populations displaced in Jordan and Syria – with health and disability focus (for details see above, numbers 2 and 3) Included Hopkins Symptom Checklist for one randomly selected adult of the household	Disability (physical and mental) - Overall disability rates were 7.1% (CI: 6.3–8.0) in Syria and significantly higher than 3.4% (CI: 3.0–3.9) in Jordan - In both countries, the majority of disability was attributed to conflict, prevalence was higher in men than women; the conflict-related disability rate in Syria was 1.6 (CI: 1.0–2.4) times greater than in Jordan possibly because of later arrival of the population - In Jordan, physical and mental disability rates were similar, whereas in Syria, mental disability occurred nearly twice as frequently as physical disability. Overall, men were more likely to be disabled than women in both Jordan (odds ratio (OR) = 1.3, CI: 1.0–1.8) and Syria (OR = 1.4, CI: 1.1–1.9). Odds of physical disability in Jordan and Syria, respectively, were 1.6 (CI: 1.0–2.8) and 2.7 (CI: 1.8–4.3) times greater among men than women. Mental disorders / symptoms - Depression was the leading cause of mental health disability - Depression accounted for 72% of mental disabilities in Jordan and 75% in Syria (p = 0.563); no significant difference was observed by sex in either location - When depressive symptoms were assessed in a random subsample of household members using a confidential questionnaire, women were more likely than men to have depressive symptoms in both Jordan (OR: 1.6, CI: 1.1–2.4) and Syria (OR: 2.5, CI: 1.8–3.5). - Sex-specific depressive symptom rates were significantly higher in Syria than in Jordan among men, at 37% and 12%, respectively, (OR: 4.3, CI: 3.0–6.2) and among women at 60% and 18%, respectively (OR: 6.6, CI: 4.8–9.2) Access to care - Majority of respondents in both countries perceived healthcare as unaffordable but acces

1		JORDAN			
∠ – 3 4	5	Doocy et al., 2010	Iraqi doctors arriving in	Respondent-driven sampling, 3 seeds were used and chains were carried	<u>Traumatic experiences of Iraqi doctors and reasons for their flight</u> - Flight from Iraq was associated with a violent event in 61 % (confidence interval [CI]: 56-
5 6		,	Jordan after the	out to 10-11 waves of	65) of cases
7			invasion of 2003	respondents; interviews in person or by phone	- 75 % (CI: 70-79) of doctor households experienced a violent event before migration
8			2003	phone	 - 17% experienced kidnappings or assassination attempts (CI: 25-34); - Male sex and older age were significantly associated with increased risk in multivariate
9 0			N = 401		models
1 2					- Only 30 % (CI: 25-34) of doctors reported they have plan to return to Iraq when the conflict is over
3					- 6 % (CI: 4-9) reported planning to return to Iraq within a year
4					- Majority, 52% (CI: 47-57) planned to settle in a third country
5	6	Bader et	Iraqi refugees in	Survey and short interviews on the health	Psychological outcome / Need for MH services and PSS
6 7 8		al., 2009	Amman, Jordan	needs, access to services, including sub- component on mental health services;	- 49% (95% CI = 45-53%) reported needing mental health services for themselves or a member of the household
9		(part of	Jan & Feb 2008	Random sample of care seekers, interval	- Reasons for needing mental health services: stress (65%), violence (21%), displacement
0		the results		sampling of	(21%), death of a family member, kidnapping or unknown status of family member and
1		published before	N= 664	= 664 patients in 7 health care clinics (of 2 NGO health providers) 61% female responders	related grief (20%), family disputes (6%) and unemployment or poverty (1,8%)
2 3		Doocy et al., 2008)			-5% (95% CI = 3-8%) of those in need had access to services
4					- Length of time spent in Jordan (adjusted $OR = 1.08$; 95% $CI = 1.00-1.11$) was associated with the need for mental health services
5 6 7					- The adjusted odds of requiring psychological services was 39% less for individuals from outside of Baghdad as compared to Baghdad residents ($OR = 0.61$; 95% $CI = 0.38$ -0.98)
, 8 9					- Responders citing violence as a factor were twice as likely to be from Baghdad (OR = 2.28; 95% CI = 1.03-6.91)
0 1					- Interviewees reporting displacement as a cause for needing mental health services were twice as likely to be female ($OR = 2.14$; 95% $CI = 1.12$ -4.18)
2 3					- In individuals 35-44 years of age (OR = 0.36 ; 95% CI = $0.14-0.87$) the need for mental health services due to displacement decreased by 64%
4 5 6					- Being a part of a female headed household decreased the need by 81% (OR = 0.19; 95% CI = 0.06-0.57%)
7 8 9					- Fluctuation in mental health needs over time is associated with beliefs that residence in Jordan is temporary, making the Iraqis less likely to immediately adapt to their new surroundings and creating long-term psychosocial problems
0					- Results suggest that mental health needs among this population will increase further
1 2					- Unexpected was the lack of an association between the respondent's educational level or
3					employment status and the reported need for mental health services. Both factors relate to
4					the ability of the head of the household to generate income and to provide basic necessities
5_	_	<u>a</u> 1	.	~	for the family, activities that affect mental health and psychosocial well-being.
-	7	Salem-	Iraqi refugees in	Survey	Health outcome
7 8		Pickartz, 2009	Amman, Jordan	designed and conducted by 36 Iraqi	- 59% of the interviewees reported physical health problems; most frequently mentioned
∘∟ 9		4		1	

1				refugees;	were illnesses that are, among others, related to stress
23			July 2007	Participants age 10-86, mixture of institution-based	Psychological outcome and perceived causes
4 5			N= 354	and 'snowball' sampling	- When asked about their physical ailments, 14% mentioned, primarily psychological problems such as anxiety, depression, and 'going mad'
6 7 9 10 11 12				53,7% female, 18,6% below 18 years	- 78% of all respondents described psychological health problems further through perceived causes such as: financial problems (18.8%), bad physical health (15.2%), difficult living conditions (13.0%), loneliness (12.3%), instability (11.9%), no future (11.6%), lack of protection and residency, and fear of deportation (10.5%), no access to education (10.5%), no job (9.7%), being away from home (9.7%), traumatic experiences in Iraq (8.7%), and worries (8.7%)
13 14 15 16 17					 <u>Social concerns / support</u> Neighbors and friends from Iraq were considered primary sources of information 14.1% of the respondents indicated that they did not know of anyone who could help them get the necessary information and 25% did not know anybody to turn to for practical help,
18 19 20 21					 23% would turn to relief organizations or to immediate and extended family Members of the immediate family were primary emotional comfort resources for all respondents
22 23 24 25 26					<u>Coping strategies</u> - Praying (49.7%) and reading the Qur'an or the Bible (42.1%) were the most preferred strategies of handling psychological distress and enhancing psychological wellbeing - Followed by talking to others (28.5%), going out (28.5%), sleeping (21.5%), taking
27 28	8	Jordans et	Iraqi refugees in	Series of mediator analyses, using data	medication, (14.1%), doing sports (11.9%), or doing nothing (10.2%) Role of current perceived needs in explaining the association between past traumatic
29 30	-	al., 2012	Jordan (and Bhutanese	from Jordan (Iraqi refugees) and Nepal	exposure and distress in humanitarian settings
31			refugees in	(Bhutanese refugees) Measures: The General Health	- Current perceived needs were found to mediate the association between past traumatic exposure and distress in Jordan
32 33 34 35 36			Nepal)	Questionnaire (GHQ-12), the Humanitarian Emergency Settings Perceived Needs Scale (HESPER) and the traumatic events list of the Composite International Diagnostic Interview (CIDI)	=> an integrated approach that includes a focus on daily stressors should be adopted to mitigate the impact of traumatic exposure in humanitarian settings
37 38 39 40	9	Khatib et al., 2010	Iraqi refugee children and women in a	Cross-sectional study with nutritional and health status focus	- On self-reporting of personal health, 15.4% (24 out of 156) of homemakers reported <u>neurological or psychological disorders</u> and 16.7% (26) had non-specific complaints of general pain and weakness
41 42 43 44			camp at the Eastern border of Jordan in 2004	Presented results based on 156 women selected for short interviews	
45 46 47			N = 777 (325 children, 452 women); 156 selected		
48 49		5	-	•	·

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	10	Yanni et al., 2012 Chynowet h, 2008	US-bound Iraqi refugees in Amman, Jordan (IOM clinics) June 2007– September 2009 N = 18,990 Iraqi refugees in Jordan	Analysis of medical screening data with focus on Health Profile and Chronic Diseases Comorbidities	 <u>Mental health of Iraqi refugees to be resettled to the U.S.</u> 0.9% of screened US-bound Iraqi refugees were identified with neuro-developmental and mental disorders 0.2% with mental retardation, 0.2% with epilepsy, 0.2% with post-traumatic stress disorder, less than 0.1% with mental disorders associated with harmful behavior, including schizophrenia, severe depression; 0.04% with autism, less than 0.1% with current drug or alcohol addiction; with addiction in remission; and (0.02%) with attention deficit hyperactivity disorder Note: The sample represents refugees selected for resettlement to the U.S. The prevalence of mental health problems and mental disorders in refugees accepted for resettlement to the U.S. studied in Jordan was significantly lower than what is reported in other studies. With the existing data no conclusion can be made as to whether this is related to the resettlement decision or the selection of persons and families for resettlement. <u>Reproductive health and sexual violence among Iraqi refugees in Jordan</u> According to the interviewees sexual exploitation has increased since the beginning of the
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36			Jordan: N= 8 families and 30 individuals Agencies: 5 United Nations agencies 6 local organisations 8 international organizations	men and young people) and 8 Iraqi families residing in Jordan, as well as 19 organisations working with refugees in Jordan discussing their reproductive health and services	 war and one local organization reported 15% of women seeking temporary marriages or sexwork (in Iraq) Rape survivors are discouraged from approaching services in Jordan due to social stigma and cultural norms. By law, doctors are obliged to report to the police any woman seeking medical care for rape incidents There is one obstetric clinic that provides primary care for free. It is however far for many of the Iraqis and does not provide obstetric services for females unless they provide a marriage certificate. Not many Iraqis are aware these service exists. UN agencies, international and local organizations do not prioritize reproductive health services Sexual exploitation was reported by many Iraqis in Jordan (<i>not quantified</i>) The Iraqi Aid Association for Chronic Patients, reported observed discrimination against patients who are HIV + (in Iraq) As reported by the Iraqi participants, contraceptives are not distributed and pharmacists in Jordan would refuse to sell condoms to young and unmarried women and girls Domestic violence was commonly reported by Iraqi women in Jordan and associated with traumatic experiences of war, current distress with providing for family, lack of employment, and current living conditions
37 38					- Marital rape was also reported
39	12		& JORDAN	Analysis of collected participant	"In between worlds" / traumatic experiences
40 41 42 43 44 45 46 47	12	LeRoch et al., 2010	Iraqi refugees in Amman, Jordan and Beirut, Lebanon N= 83	Analysis of collected participant data and outcomes for two different psychosocial programs for Iraqi refugees in Amman, Jordan and Beirut, Lebanon Iraqi adults	 <u>"In between worlds" / traumatic experiences</u> The majority of refugees describes themselves as 'living between two worlds.' Having fled from the horrors and destruction of war and not yet having reached their dream destination, they remain on 'standby.' Many refugees, especially recent arrivals from Iraq, have experienced trauma such as witnessing the death, kidnapping or injury of friend or family, physical or sexual assault, and other traumas causing not only psychological distress, but also exacerbating existing mental health concerns and impacting coping ability
48 49		6	1	1	1

1					Psychological outcome, mental disorders / symptoms, services use
2					Out of the 83 clients the majority suffered from emotional disorders (92.7%), followed by
3					behavioral disorders (55.4%) and sleeping disorders (48.2%)
4 5					- Most prevalent self-reported symptoms to TdH psychologists were specific phobias, fears,
6					nervousness and anxiety in adults and children
7					- Behavioral disorders such as aggressiveness and withdrawal were observed more in
8					children
9					- Sleeping problems were represented mainly by repetitive and traumatic nightmares;
10					frequent awakenings disturbed the parents, and children refused to sleep alone. - Exile-related stressors have exacerbated distress, and as the years of asylum pass the
11					condition of the majority of Iraqis is deteriorating
12					- Half of participants demonstrated a state of psychological distress for over one year
13					- In Jordan more women (55%) consulted the psychologists, with men representing 45% of
14 15					the patients
15 16					
17					Social concerns / support, education
18					- Social isolation, lack of social networks and difficult living conditions contribute to poor
19					mental health
20					- Changes in family structure and unemployment cause fundamental role changes, resulting
21					in a rise in domestic violence
22					- Many Iraqis would relate their problems to obvious social causes or physical health issues only
23 24					- While the two Iraqi refugee populations manifested similar psychosocial problems, the
25					different contexts in Jordan and Lebanon required different approaches to psychosocial
26					programs (Jordan: combination of psychosocial center-based services and community
27					outreach / Lebanon: home and community-based services)
28					- Parents believe it is futile for their children to attend schooltemporarychildren remain
29					enclosed in their parents' resettlement dreams; the parents do not foresee their future in the
30 31					asylum country
31 32					- Iraqis have become scapegoats for the misguided belief that they are responsible for
33					burdening the already fragile general economythreatened national identitynot facilitated
34					integration 'multidimensional social alienation' – in Jordan
35	12	LEBANON	II. have a for a second	Maria Carlandi	Design the second
36	13	Bastin et al., 2013	Urban refugees (including Iraqi	Measures for baseline assessment: the Global Assessment of Functioning	<u>Psychological outcome</u> The most frequent primary diagnoses were depressive disorders (28.8%), anxiety disorders
37		al., 2013	refugees) with	(GAF) and the Self Reporting	(15.6%) and psychosis (11.5%).
38 39			common and	Questionnaire-20 items (SRQ 20) were	
39 40			severe mental	used	A lower baseline SRQ20 score/higher baseline GAF score (indicators of severity), being
41			disorders at	to evaluate treatment outcome in terms of	diagnosed with anxiety (compared to being diagnosed with depression or psychosis) and a
42			Médecins sans	functionality	higher level of education were associated with better outcomes
43			Frontières		Note: The data analysis was not separated by nationality.
44			(MSF) run	Mean age was 39.2 years (28.5-46.5),	
45			community	64.2% female	
46			mental health centre in Beirut,		
47 48			Lebanon		
40 49		7	Louinon	l	
		1			

		December 2008 and June 2011 N = 1144 (1.2% Iraqi refugees, 63.7% Lebanese, 31.8%		
	EGYPT	Palestinian)		
	2009	Egypt June-Sept 2008 N=204	groups of psychosocial stress factors; convenience sample, participants directly contacted in different neighborhoods, 47% females, 19% below 18 years	 More than 56% have experienced multiple traumatic situations before and during their flight Reported traumatic experiences: 52.9% witnessed explosions 49.1% were in the middle of an exchange of arms/weapons 32.8% witnessed killing one or more of relatives 30.8% witnessed corpses 29.4% witnessed killing one or more of other people 29.4% received direct death threat message 12.2% exposed to torture or interrogation 8.8 % were kidnapped 3.9% are injured or lost body part due to violence
				 <u>Psychological outcome and pre-existing conditions</u> Refugee respondents report major impacts on their health, mental health and socioeconomic situation 59% of the respondents indicated suffering from one or more psychological symptom, mostly anxiety or depressed mood Of those who reported psychological symptoms about half (51%) said these started in Ira and about half (49%) said they started in Egypt Of those with preexisting psychological symptoms in Iraq most of them (71%) said the symptoms deteriorated while in Egypt The number of experienced traumatic events and the number of reported mental health symptoms were related (p<0.01)
				Social support - 71% of the respondents described a lack of social support Socio-economic - 78% were unemployed Outlook - 32% motivated to return home, 17% planned to stay in Egypt
15	Shaarawi, 2012	Iraqi refugees in Egypt	Mixed-methods approach, ethnographic field research including participant observation, person-centered interviews	 <u>Socio-economic, social concerns and education</u> Majority of participants unemployed, face socio-economic difficulties and decline in living conditions, often causing anxiety regarding future

1		1		
1 2		Summer 2009	with refugees (n=110), interviews with	- Family as a central aspect of life emphasized, family separation as a cause for suffering
3			service providers and archival research;	- Change in family dynamics, roles, disrupted relationships
4		Clients	purposive sampling with focus on	- Education often primary motivating factor in family decision making – disrupted
5		presenting at	assessing ways in which refugees seek to	education main concern
6		Cairo, Egypt NGO	mitigate the effects of displacement through interactions with institutions and	- Lack of social support and lack of organized community activities
7		1100	policies	Health, mental health and psychosocial well-being
8 9		N = 110	ponenes	- Each interviewee reported an average of 1.5 health issues and 2.0 psychological problems, a few reported none (37% health, and 11% <i>hala nufsia</i>)
10				- Interviewees articulated the connection between their <i>mental health/psychosocial</i>
11				wellbeing (hala nufsia) and other aspects of health and well-being often noting that their
12				psychological situation "made them sick" or exacerbated existing conditions
13				- Problems identified as being part of mental health were also sometimes described in
14				medical and/or somatic terms, although emotions, such as tired <i>(ta'aban)</i> , nervous, and
15				angry as well as qualitative terms, such as bad or difficult, predominated
16 17				 Most commonly used adjectives to describe current state: "bad", "difficult", "not good", "not comfortable" "tired"
18				
19				- Most frequent concept: <i>ta'aban</i> , meaning tiredness or fatigue
20 21				 16% of men and 10% of women reported either suffering from depression or being depressed
22				- 9 main categories of how psychosocial situation affects refugees: 1) anxiety; 2) sadness; 3)
23				lack of comfort; 4) anger; 5) isolation; 6) sleep disruptions; 7) somatic presentation; 8)
23				nervous breakdown; and 9) cognitive effects - in order of frequency
25				- Women (73%) in the sample were more likely than men (57%) to report health concerns,
26				93% of women identified some negative concern with their well-being compared to 82%
27				of men
28				- The refugee situation in Egypt is conceptualized in terms of instability, an uncertain or
29				insecure context in which one's life trajectory has been disrupted
30				- Instability is a main cause for mental health and psychosocial problems
31				- Seeking resettlement is one way to address this state, with implications for health and
32				well-being that relate to experiences of war trauma and persecution, but are not directly
33				attributable to them
34	TURKEY			
35 16	Yaman et	Refugees in	Retrospective Analysis of medical	Mental health / disorders
36	al., 2012	Ankara, Turkey	records for age	- 12% of the refugees treated at the clinic were identified with post-traumatic stress disorder
37		at a private	distribution, gender, origin, diagnoses,	- Women were more likely to be identified with PTSD
38		family medical	type of treatment and referral	- No other mental disorder or mental health condition was assessed in this study
39		centre	41% female,	Note: The data analysis was not separated by nationality.
40 41		September	Ages ranged from 19	
41 42		1997 to March	to 50 years	
42 43		1997 to March 1998		
43 44		1770		
44 45		N = 212 (from		
45 46		In $= 212$ (IIOIII) Iraq 64%, Iran		
40 47		22%, Ethiopia		
47		8%, Palestinian		
40 49	0	070, 1 alcountail	1	
17	9			

	Territories 69 etc.)	%	
Study (Author/ Year	Populati on, Location , Time Sample Size	Design Methodology Age (years) Gender (% female) Measures	Main Findings about Mental Health Profile and Outcome
Iragi Refug	ees - Grey Li	terature	
SYRIA CDC / UNHCR 2007b	Iraqi refugees, 31 Oct - 25 Nov 2007, UNHCR Regis- tration Center Damascus	Survey, 754 interviews, 15 interviewers, convenience sample drawn from families who registered or scheduled an appointment to register during the survey period, Instruments: Hopkins Checklist Depression Scale (HSCL-D), Harvard Trauma Questionnaire (HTQ)	Psychological outcome Estimated level of anxiety and depression symptoms above 80% - Many Iraqi refugees showed symptoms of depression (estimated at 89.5%) and anxiety (estimated a 81.6%) (n=384), with post-traumatic stress disorder symptoms at 67.6% (n=754). - These co-occur with severe medical conditions and are found to be prevalent in 20% of the registere population - Approximately 17% of Iraqi refugees have reported mental disabilities and 11% identified disabilitie that are a result of torture Traumatic Experiences - Every survey respondent reported experiencing at least one traumatic event, as defined by the HTQ - 77% reported being affected by air bombardments and shelling or rocket attacks - 80% reported being witness to a shooting - 68% reported being witness to a shooting - 68% reported being multitas or other groups - 22% had been beaten by militias or other groups - 23% had been kidnapped, - 72% had been eclose to them who had been killed or murdered - All reported being tortured - 73% of household members alive and still in household, 22% living elsewhere, 4% dead, 1% missin - For those who died, 78% were murdered (62% of those by militia) - Of those alive and currently in Syria, 57% have received a direct threat, 53% have survived bombin, 11% have been assaulted, 6% have been kidnapped

1 2 3 4					Socio-economic and basic needs Main source of income: - 37% savings, 24% remittances, 24% salary, 12% pension - 41% did not reveal the source of their income
5 6 7 8 9 10 11					 Education - 32% of Iraqi children (information obtained on 1109 children) are not enrolled in Syrian schools (compared to 76% in May 2007) -10% of School-age children working - 46% dropped out of school, 19% of those in order to work, 13% for 'psychosocial issues', i.e., bullying, discrimination
12 13 14					Note: - High education level of the population (31% of the sample have a university degree)
15 16 17					<u>Health (disability)</u> - 4% persons with disabilities or have a family member with disability - 2.1% registered with UNCHR are persons with disabilities
18 19 20 21 22 23 24 25 26 27 28 29	2	Health Sector Appeal, 2007	Iraqi Refugees in Syria July 2007	Refers to Ministry of Health (MOH), UNICEF and WHO Rapid Assessment	 <u>Socio-economic and basic needs</u> Majority faces financial difficulties (arrived without meaningful financial resources and most do not have employment) 62% of household heads are unemployed 35.8% work in private jobs 45.4% of Iraqi refugee families can be classified as poor or extremely poor 72% of families live in shared accommodation with Syrian or Iraqi families (average family size is five, sharing accommodation leads to overcrowding) Mental and psychosocial distress have been further aggravated by the increasing financial difficulties, unemployment, different living environment, and an uncertain future, resulting in psychological fragility, distress and in some cases trauma
30 31 32 33 34 35			Iraqi Refugees in Syria February 2007	Refers to WFP rapid food needs assessment	Socio-economic and basic needs – Estimated that 15 % of those registering with UNHCR are unable to meet their expenses for more than three months from the date of arrival in Syria
35 36 37 38 39 40	3	SARC / DRC, 2007 (unpublish	Iraqi refugees in Syria Aug - Sept	Rapid emergency needs assessment, qualitative Focus group discussions with 206 persons divided into groups with women, men, adolescents (male and	 <u>Psychological outcome and social concerns</u> Adults and adolescents appeared mentally exhausted, running out of resources Shift in family structure and the loss of traditional roles occurring as a result of displacement, the inaccessibility of work and often education, contributes to stress within the families, leading to a rise in domestic violence among refugee households
41 42 43 44 45		ed)	2007 N = 206	female), children (male and female) in 8 SARC locations – Damascus and Rural Damascus and cities and town in the north and the northeast of Syria	 Women concerned about not being able to provide for their children, reporting abuse of their children as a result of their stress level Men frustrated at not being able to provide for their families Children becoming increasingly aggressive towards each other, often cry without apparent reason Adolescents (esp. females) seen as isolated, less supported and particularly vulnerable
46 47 48					 Parents stated that their children are feeling lonely, homesick and having problems adapting to their new environment Children have become increasingly aggressive towards each other and often cried without apparent
49		11			

4	UNHCR, 2008	UNHCR registered Iraqi	Analysis of registration data, identification of medical needs (including psychological) based on	 reasons for doing so Children and adolescents, especially female adolescents, spent most of their time at home watching TV and helping their parents Boredom, frustration and a lack of Iraqi social support structures was evident Focus group participants had a difficult time concentrating on issues psychosocial wellbeing; they were preoccupied by material and financial difficulties Adults expressed to "…have no control…extreme lack of confidence in their personal or collective ability to induce change or improve their situation" Those in border areas have a stronger social network and sense of support from both Iraqis and Syrians than do those in and around Damascus In Damascus / Rural Damascus, higher alienation and hopelessness, hopes for resettlement 19% of Iraqi refugees registered since 2007 are suffering from an serious medical condition such as chronic illnesses or psychological disorders
		refugees in Syria	registration of 216, 370 refugees	
5	Loughry et al., 2007 ICMC- USCCB Mission Syria	Iraqi refugees in Syria Dec 2007	Assessment based on stakeholder interviews	 <u>Psychological outcome</u> High levels of distress coupled with uncertainty about the future and concern not to be able to provide the family impacting families and children Social service agencies in the church reported many significant and distressing incidences of families under enormous psychological stress Medical doctors reported that many clients reporting to outpatient clinics with physical complaints displayed signs of mental health problems A stakeholder described children as being anxious, experiencing some difficulty learning and being unable to play
				- Teenagers are prevented from their life roles and become depressed, some severely
6	UNICEF, 2007	Iraqi adolescent girls in Damascus, Syria June- August 2007	 4 focus group discussions with Iraqi adolescent girls between the ages of 12 through 18, 1 with Palestinian adolescent girls > 20 interviews with UN partners and NGOs, as well as community- based workers, parents, Iraqi adolescent boys, and other members of the Iraqi refugee community 	 Many adults exhibit severe anxiety and depression High school drop-out and high interest to continue education Many experienced the violent death or kidnapping of a family member or friend Family separation impacts well-being and constant worry about those who remain in Iraq Many girls feel isolated and report lack outlets to communicate their sadness or frustrations Loss of support network of friends and isolation Mobility restrictions Iraqi girls spend most of their time tending to household chores with their mothers, and often live in cramped living quarters with other relatives in each bedroom Reported domestic violence Many Iraqi children work long hours to support their family, earning as little as an equivalent of 12 US a day
7	UNICEF, 2008	Iraqi mothers in	6 case studies of Iraqi girls involved in sex labour Focus-group discussions and survey with Iraqi mothers (N=22), four	 Reports of exploitation and abuse (e.g. delay or refusal to pay by employers, verbal and physical abuse Reports of the rise in sex labour (many girls under 18) Based on available data, sex work of Iraqi refugees in Syria is divided into three types: sex labour on t individual level, on a family level, and on the level of organized networks Reports of girls being trafficked out of Iraq and sold to nightclubs and casinos as dancers, virgin bride and prostitutes Parenting problems are related to financial problems, level of education of the mother, and the presence (increased tension) or absence (increased responsibility) of her spouse

	Damascus, Syria April-May 2008	consultation sessions with 40 mothers in Child Friendly Spaces (CFSs) in Damascus with random selection of respondents	 Mothers reported experiencing high levels of stress and feelings of loneliness Lack of supportive social networks Many mothers admitted to taking out their frustration on their children by being irritable, shouting or hitting
8 WHO, 2010 (unpublish ed)	Iraqi refugees in Syria N=2,996 families	Family Health Survey	<u>Psychological outcome</u> Approximately 60% of the interviewed Iraqi refugees described feelings of sadness 50% described feelings of desperation, loneliness, and anxiety, as well as difficulties sleeping and the sense that everything requires more effort than usual
9 Tsovili, Coutts & Quosh, 2010 (unpublish ed)	Iraqi refugee children attending child friendly spaces from Feb 2008 - August 2009 N=21,480	Quantitative data analysis of 2 datasets in June 2009 and January 2010 with psychosocial and child protection indicators collected by SARC volunteers in different child friendly spaces in Damascus, Syria Average age 10.4 years in database 1 and 9.1 in database 2, almost half are female	Children - Half of the children and adolescents assessed reported high levels of past distressing experiences impacting social and psychological aspects of well-being and development even after a significant period of time - Significantly more than half of the assessed children and adolescents displayed psychological symptoms - Approximately a third reported general health problems - Approximately a third reported general health problems - Psychosocial well-being impacted by interrelation between experiences of violence and conflict as well as socio-economic conditions in host country - Exhaustion and lack of coping resources and adaptive mechanisms reported - A trend is observed towards girls being more isolated and withdrawn, and boys more disruptive and aggressive in addition to elevated levels of fear, anger, sleeping difficulties and sadness Dateset 1: Past distressing experiences 55.8% of the children and adolescents were documented to have experienced potentially distressing events: 26.4% Kidnapping, 10.2% Death in family, 9% Torture and 0.8% Rape Psychological outcome 80.8% children and adolescents were identified to manifest at least one psychological difficulties The following is a list of the documented psychological difficulties: 48.3% Fear, 38.1% Anger, 24.2% Sleeping problems, 22.8% Change in manners, 21.4% Symptoms of depression 14.7% Enuresis or soiling and 13.7% Passivity

10	UNHCR, 2008-2011 (unpublish ed)	Iraqi refugees in Damascus, Syria	Internal review of UNHCR participatory assessments between 2008 and 2011, Based on focus group discussions with Iraqi women, men, male and female adolescents	Social concerns 51% of the children and adolescents of dataset 1 were identified to manifest at least one social difficulty 32.1% of the children and adolescents of this sample were categorized as having learning or concentration difficulties Dataset 2: - Most common psychological indicators were fear (54.6%), anger (48.8%), sleeping difficulties (24.6%) and depressed mood (20%) Psychological outcome Many refugees reported emotional problems that were related both to past experiences and prese adjustment difficulties, including hyper-arousal (quickly angered and frightened), fatigue, hopelessness and that the current situation we exacerbating pre-existing mental health problems - Exacerbation of epileptic and non-epileptic seizures, increased somatisation Social isolation and marginalization - Lack of social support - Family conflicts and violence - Lack of future opportunities - Disruption of family structure and roles - Sexual harassment and violence from within and outside the home - Lack of caretakers for vulnerable persons
11	Al Ammar, 2009/2010	Iraqi refugees in Damascus, Syria 2009	Field diagnostic study using validated REF (differentiating acute PTSD symptoms – 1-3 months and chronic – 3-6 months duration)	 Parents were concerned about education for their children, peer relationships and aggression amon children, unstable family situations, stunted development, and child abuse. Approximately 36% of the respondents presented with chronic or acute symptoms of PTSD Gender had no significant effect on symptom presentation Injuries were related to significant increase in acute symptom presentation but not in chronic, as did loss of an immediate family member The destruction of one's home had significant impact on both acute and chronic symptom presentation
12	UNHCR Survey, 2012	N= 700 Refugees in Syria Feb 2012 N = 804	Survey during UNHCR counseling and distributions to assess impact of crisis on socio-economic status of refugees in Syria 52% female	Psychological outcome - Increased anxiety and fear - Refugee women report that tensions within households are increasing due to worsening financial circumstances and anxieties about the general situation in the country - More than 75% of the interviewed refugees stated that the current prevailing situation has had a negative impact on their mental or physical wellbeing
13	Quosh, 2013 14	Registered Iraqi refugees in Syria	Survey with culturally-based assessment instrument	 Preliminary analysis of a UNHCR assessment on psychosocial well-being, distress and functioning shows that the overall psychosocial well-being of the refugee population has been consistently low The total mean of the respondents to a population assessment was 5.97 (on a 1-10 Likert scale, low number indicating low well-being) Clients assessed receiving mental health services and psychosocial support scored higher

		Spring, 2011		
		N=199		
1.4	T T 1	households	01.11 4.10	
14	Unknown	Iraqi refugee	Children 4-10 years 1000 Iraqi refugee children in	SDQ results Emotional
	author	children	addition to Syrian children	0-3 normal: 23.7% (boys: 21.3%, girls 26.6%)
	2012	cinitaten	Conducted surveys in schools,	4 borderline: 11.7% (boys: 9.8%, girls 14%)
	2012	N = 1000	health centres and communities in	5-10 abnormal: 64.6% (boys: 68.9%, girls 59.3%)
			Damascus	Conduct: abnormal range: 54.5%
			in 2010 and 2011	Hyperactivity: abnormal range: 42.6%
			Using translated and modified	Peer problems: abnormal range: 47.6%
			version of the SDQ (Strengths and	Total abnormal range: 44.9%
			Difficulties questionnaire) and	Scores are in general above average (Iraqi children higher scores than Syrian children, whereas Syrian
			childhood war trauma	children score high compared to other studies in the region, many Iraqi children express clinical sympto
			questionnaire, semi-structured	such as speech problems, enuresis)
	SYRIA & JO	ORDAN	interview with care-givers	
15	AFSC,	Iraqi	Interviews with Iraqi refugees and	Past traumatic experiences
-	2008	refugees in	stakeholders	- Many of the interviewed refugee families - especially those in Syria – reported experiences of severe
		Amman,		violence
		Jordan and		- Most left Iraq because of the violence, after family members or friends had been killed, or after receiv
		Damascus,		direct threats
		Syria		- High degree of traumatization reported, with an observed blend of fear, anger, and hopelessness as we as resilience that enables survival
		Nov 2007		as resilience that enables survival
	JORDAN	100 2007		
16	CDC/UNH	Iraqi	Survey - Health assessment	Health and education were the primary concerns of the interviewed families
	CR,	refugees in	Adults (primarily Christians)	62% reported health problems
	2007a	East	28% female	Health problems were reported to be associated with depression and trauma
		Amman,		Past traumatic experiences
		Jordan		- 22% reported having experienced a personal traumatic event
		participatin		- 20% reported having been a survivor of torture
		g in Communit		Developed and antenna
		v		 <u>Psychological outcome</u> - 77% surveyed reported one or more psychological or emotional problems
		Developm		The most common responses were:
		ent Center		• Anxiety and depression: 42%
				• Emotional pressure (stress): 22.4% (due to economic and social conditions)
		Fall 2007		· Sadness and emotional instability: 20.3%
		NI 272		· Fear and insecurity: 8.7%
		N = 372		· Isolation: 6.6%
				 Women reported more anxiety, depressed mood, emotional pressure, sadness and emotional instability Men reported more fear and a sense of insecurity

1 2 3 4 5 6 7 8 9 10 11 12				Children43% witnessed violence in Iraq39% lost someone close through violenceSocial concernsFamily life is impacted because of the stressful situation, with increased prevalence of domestic violence -linked to the inability of traditional heads of households to provide for the family through employment -resulting in a loss of role and identity for traditional heads of households- Men (representing 88% of the heads of households in the study) report depression, frustration and angeras a consequence of the inability to fulfil their traditional roles within the family- Misperceptions about the impact of the Iraqi refugees and Jordanian host community
13 17 14 15 16 17 18 19 20 21 22 23	Jayawickra ma & Gilbert, 2008 (unpublish ed)	Iraqi Refugees in Jordan	Qualitative assessment	 <u>Psychological outcome and social concerns</u> Both men and adolescents express feeling "not useful in society" As long as the political situation remains as it is, no plans for the future can be made, thus anxiety, uncertainty, helplessness, and dependency on external agencies will continue The role of religion is central to people's lives and can be used within counseling to help with acceptance and adaptation Men struggle with the loss of roles and internal pressure within families is compounded by severe overcrowding, fear of the police, loss of hope and frustration at the lack of possibilities for change, relation to domestic violence Unrealistic hopes of resettlement prevent adjustment to the present
24	JORDAN &			
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	ЮМ, 2008	Iraqi refugee families in Lebanon and Jordan Nov 2007 – Jan 2008 N > 209 households and 10 youth	Rapid Appraisal Procedures approach-based assessment: 36 interviews with key informants, volunteer interviewers; 178 interviews with Iraqi families in Jordan (125) and Lebanon (53), 3 focus groups with 31 families in Lebanon, 1 with youth in Lebanon; - 166 Field observation (113 in Jordan, 53 in Lebanon) Using different questionnaires and tools	Psychological outcome and social concerns High levels of emotional and psychological distress, half of the interviewed sample disclosed manifestations of distress, including: panic attacks, anger, tiredness, sleep problems and fear (from observations based on distress indicators list, almost 50% of families in Jordan present 8 or more indicators and more than 50% of families in Lebanon) - Self-evaluated psychosocial uneasiness on a scale from 1 to 10: Jordan the mean is 7.5 and 7.8 in Lebanon - Particularly among Iraqis who have been displaced for two years or longer - ¼ of focus group participants reported domestic violence - Although children are often more resilient than adults, "behavioral and learning difficulties" are recognized, in part due to "stress in the family" • Women are taking on new responsibilities and challenges • Men are disempowered and disenfranchised of their role as protector and provider, reducing self-reliance • De-professionalization & readapting social roles were cited as a main stressor by 33% • Minor labor/lack of schooling & problems in school were reported • Discrimination and mistreatment from the host community • I Jordan and Lebanon not many spaces for socialization that are free of cost exist → esp. important in the case of young men • Keeping bonds with Iraq (through ties with family and friends who are still there) is considered psychosocially important to respondents

1					- 50% of Iraqis displaced in Jordan reported to be in-need of psychosocial support but are
2					unlikely to search for treatment because of cultural stigmatizationlack or difficulty in accessing
3					appropriate services (in Jordan, lack of services / in Lebanon, services are private and too expensive)
4					- Women, in particular, show a tendency not to share emotional suffering within the family, for cultural
5					and gender-related issue
6					- Most families in Jordan are assumed to be in phase 2, and most in Lebanon to be between phase 1 &2
7		IRAQ			Most fulfilles in soldan die assuned to be in plase 2, and most in Lebanon to be between plase 1 e2
8	19	IOM 2005-	IDPs in	60 stakeholder interviews and	- Depression, frustration, stress, fears for security and humiliation are, according to the stakeholders,
9	19	2006		113 interviews with IDPs and host	widespread feelings among Iraqi population
10		2000	Iraq	families were conducted in 6	- The main fears are related to the lack of security, the specific condition of IDPs and the lack of juridical
11			N = 112		and administrative status or a final political resolution about their situation
12			N = 113	governorates, 55 field observations	1
13			IDPs and		Reasons of their psychosocial needs:
14			host		- Insecurity
15			families		- Lack of justice and of state control
16					- Unemployment
17					- Lack of basic services, and
18					- The instability of the situation
19					- Lack of social recreational life, stress related to unemployment, shortage of basic services and food, also
20					resulting in despair and family violence
21					- Many children do not go to schools and are not given alternative safe environments for personal growth;
22					parents are concerned about disrupted education of their children
23					- There is an increase in family separation, due to economic constraints
24					- Most IDPs are, according to the Hertz scale, facing a rebound phase
25					- Most returnees, with the exclusion of Baghdad, are in between the rebound and coping phases
26					- Secondary displaced present a very variable status, where indicators of impact rebound and coping
27					phases often coexist
28					- Political divisions among sects and consequent discrimination are considered a main cause of distress for
29					a small percentage of the interviewees
30					- A large percentage (almost half) of the IDPs interviewed, think that the relation with the host community
31					is non-existent or very negative
32					- Loss of social and family roles and the necessity to reaffirm it may be at the basis of the increase in
33					violent communication within families
	20	Refugee	Iraqi	Interviews with Iraqi refugee	Sexual violence
35		Internation	refugee	families in Northern Iraq as well as	In both the Kurdistan Regional Government (KRG) and Syria, extreme financial pressures on displaced
36		al,	returnees	with community center workers	families are resulting in increased reports of forced early marriages, "temporary marriages" (muta), sex
37		2009	to Iraq,		labour, and trafficking of women and girls
38			displaced		- Increased domestic violence
39			within Iraq		- Displaced women in KRG have difficulties accessing already weak gynecological, preventive and mental
40			(N unclear)		health services
41			,		
42					- Increased school drop-out in Syria
43		IRAQ - addit			
44		Alhasnawi,	Iraqi	Data from a 2007 - 2008 national	- The estimated lifetime prevalence of any mental disorder was 18.8%
45		2009	mental	face-to-face survey of the adult Iraq	- Cohort analysis documented significantly increasing lifetime prevalence of most disorders across
46		WHO,	health	population,	generations, most pronounced for panic disorder and post-traumatic stress disorder, with lifetime-to-date
47		IMHS	survey	Interviews were administered to a	prevalence 5.4-5.3 times as high at comparable ages in the youngest (ages 18-34) as oldest (ages 65+)
48			(IMHS)	probability sample of Iraqi	cohorts
49		17			

			household residents by trained lay	- Anxiety disorders were the most common class of disorders (13.8%) and major depressive disorder
2		2006 and	interviewers, the WHO Composite	(MDD) the most common disorder (7.2%)
3				
1		2007	International Diagnostic interview	- Twelve-month prevalence of any disorder was 13.6%, with 42.1% of cases classified mild, 36.0%
-		N = 4,332	(CIDI) was used to assess DSM-IV	moderate, and 21.9% serious
5			disorders	- The disorders most often classified serious were bipolar disorder (76.9%) and substance-related disorders
6			alboracib	(54.9%)
7				
8				- Socio-demographic correlates were generally consistent with international epidemiological surveys, with
				the two exceptions of no significant gender differences in mood disorders and positive correlations of
9				anxiety and mood disorders with education
10				- Only 2.2% of IMHS respondents reported receiving treatment for emotional problems in the 12 months
11				
12				before interview, including 23.7% of those with serious, 9.2% with moderate, and 5.3% with mild
13				disorders and 0.9% of other respondents
			•	
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49	10			
17	18			

Web appendix 2

 Table 2 Web Appendix:
 Syrian IDPs and Refugees –

 1
 Selected Characteristics and Summary of Studies Identified to Meet Systematic Review Criteria

 3
 Selected Characteristics and Summary of Studies Identified to Meet Systematic Review Criteria

 5
 For: Quosh, C., Eloul, L., Ajlani, R. (2013). Syria – Refugees and Displaced in the past and current crises: Systematic Review Assessing the

 7
 Mental Health Profile and System. Intervention: International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed

 9
 Conflict, 11(3).

9 10

11

 $^{12}_{13}$ Search terminology used in systematic review for Syrian internally displaced persons (IDPs) and refugees 14

L5	Content	Population	Location
¹⁶ Key Search	Mental Health	Syrian	Syria
Term			
19 Synonyms	Psychosocial Well-	Syrians	Regional Locations
20	being*		
21	Emotional Well-	Syrian Refugee(s)	Jordan
22 23	being*		
24	Psychosocial*	Syrian asylum seeker	Lebanon
25	Social	Syrian (internally) displaced	Turkey
26	Psychological		Iraq
27 28	Psychiatric		Egypt
29	Trauma		
30	Distress		
Exclusions**		Hamster	

*Different spelling variations were used, e.g., psycho-social and psychosocial

** Based on a first test run exclusion terms were identified to tailor the search output

- 35
- 36 37

38 The inclusion criteria for the review

39

 $^{40}_{41}$ The inclusion criteria for this review were:

⁴¹ The publication/study included Syrian baseline data, internally displaced persons in Syria or Syrian refugees in refugee-hosting countries 43 in the region (i.e., Jordan, Lebanon, Turkey, Iraq, Egypt).

442) The publication/study provided data relevant to understanding the mental health status and profile of internally displaced Syrians and
 ⁴⁵ Syrian refugees.

 $\frac{46}{47}$ 3) The article/document was published between 1997 and July 2013 in English or Arabic.

48

¹ ² Summary of main findings by study and location, divided by grey literature and additional literature

 ${}^{3}_{4}$ (The results are clustered according to content of studies and guiding framework.)

Study (Author/ Year)	Population, Location, Time Sample Size	Design Methodology Age (years) Gender (% female) Measures	Main Findings about Mental Health Profile and Outcome
Syrian IDP SYRIA	and Refugees - G		
MHPSS Working Group, 2012	Syrian internally displaced September 2012 N= 14	Qualitative stakeholder assessment among 14 MHPSS Working Group members Stakeholders covered the areas of Damascus, rural Damascus, Homs and Aleppo, but could not provide detailed updates on the profiles of other governorates.	Basic Needs 60% mentioned lack of basic needs impacting mental health and well-being, in order of priority: 1. Safety and Security 2. Housing / Shelter 3. Food Economic problems (incl. unemployment, poverty) 4. Health Psychological outcome 1. Fear, anxiety 2. Grief, mourning, bereavement 3. Depressed mood and loss of trust 4. Isolation, increased distress, aggressiveness and anger 5. Loss of control, inability to accept circumstances Social concerns and support 1. Separated and scattered families 2. Lack of social support, social relations 3. Change in gender roles, lack of activities Children: Development and attachment problems Resources • Adaptation, acceptance, community outreach & support, new social networks, involvement in planning, activated charities, NGOs & volunteerism Key concern • Increased family and sexual violence Populations that are of primary concern were identified as persons who have been internally displaced (particularly those displaced several times), who have experienced severe violence and multiple losses, SGBV survivors, persons with mental disorders, children, separated families, female headed household and host families.

49

	UNHCR/ SARC, 2013	Syrian internally	Qualitative stakeholder assessment	Priority concerns of displaced populations/basic needs
		~		Lack of security
		displaced	with psychiatrists, psychologists,	Sudden forced displacement
			master trainers, and psychosocial	 Lack/destruction of shelter, access to basic services and livelihood
		January 2013	community volunteers	 Lack/destruction of or no access to schools and educational institutions
				 High unemployment, increased poverty and severe socio-economic problems
			Stakeholders covered the areas of	
			Damascus, rural Damascus, Homs	Psychological outcome
1			and Aleppo, but could not provide	 Difficulties adapting to the situation and dealing with multiple losses, grief and mourning
			detailed updates on the profiles of	 Hopelessness and loss of trust
			other governorates.	Continuous fear and anxiety
			C	 Disruption of social relationships, disintegration of family and social structures
				(Maladaptive) coping mechanisms
				Increase in gender-based violence, child abuse, violence against the elderly
				• Increase in number of early marriages
				 Increase in child labor
				Community resources and adaptive coping Mechanisms:
				Activated community networks, community support, youth engagement
				Active community leaders
				Religious coping
				Priority concerns for frontline workers and volunteers
				Increase in burnout symptoms, symptoms of depression and anxiety, grief and mourning
3	SARC,	Syrian	Qualitative assessment	The following trends among children were described
	2012	internally	by SARC volunteers	Mental Health Outcome and Trends among Children
		displaced	in schools and collective shelters	 Increased sadness and fatigue
			working with children in	 Loss of interest, pessimistic outlook and passiveness
		Mid-2012	Damascus and rural Damascus	 Increased fears and anxiety
				 Increased withdrawal and attachment to parents
				 Sleeping difficulties (incl. nightmares), bedwetting
				 Reduced levels of concentration, comprehension and understanding
				 Increased headaches
				 Increased aggression
				 Increased violence among peers and within families
				 Difficulties for parents in dealing with their children
				Volunteers reported being severely affected by their work, including experiencing anxiety and depressi-
				symptoms, somatic complaints, anger, grief, and mourning.
4	J-RANS II,	Syrian	(Second) rapid multi-sector	Child protection, well-being concerns and injuries
	2013	internally	assessment with questionnaire	- Serious child protection concerns for tens of thousands of children have been reported, including: kill
		displaced and	and key informant interviews,	and maiming; sexual violence; torture; arbitrary detention; recruitment and use of children by armed
		affected	reached 69% of the sub-districts	forces; exposure to explosive remnants of war; and growing intolerance
		population in	of 7 northern governorates,	- More than 11,000 children under the age of 18 years were reported to be injured in the areas assessed
		northeastern	representing an estimated 84% of	J-RANS II with the highest number of injured reported in Aleppo and Idleb
		governorates	the total population living in the	
			area before the conflict started,	- Signs of distress are a common and widespread concern
			•	· · · · · · · · · · · · · · · · · · ·

Quo		May 2013	104 out of the total of 150 sub-	characteristics and summary of studies identified to meet systematic review criteria - When asked how their children are coping with their experiences, most parents reply that the war has
		May 2013	districts in 29 districts of 7	children with a pervading and persistent feeling of fear
			Governorates (Hama, Idleb,	- Parents also reported that their children are showing signs of significant emotional distress, such as
			Aleppo, Lattakia, Ar-Raqqa, Al-	nightmares, bed-wetting, or becoming uncharacteristically aggressive or withdrawn; any loud noise
			Hassakeh and Deir-ez-Zor)	reminds the children of the violence they fled from
				- Children with disabilities, chronic diseases or from single parent families are particularly vulnerable
				do not have equal access to services
				- In Al Karameh IDP camp in Idleb, children are showing obvious signs of distress and are exposed to
				maltreatment and neglect from parents who themselves are showing high levels of distress and are una
				to cope with their own difficulties
				- Same signs were reported by children in other camps and host communities in Idleb Governorate
				Psychological outcome:
				- " <i>Frustration</i> " (including anxiety, psychological stress etc.) was rated as a high protection concern,
				<i>"violence against civilians</i> and <i>psychological trauma"</i> were priority issues in all assessed areas of Ale
				City
				<i>Frustration</i> was mentioned as a priority concern in 20 of the 106 assessed sub-districts however with
				further specification by key informants.
				In 4 of the 20 sub-districts, the recruitment of children into armed forces was mentioned as a priority
				concern in addition to frustration concerns.
				Other secondary concerns included violence against civilians (2 sub-districts in Deir-ez-Zor and Alep
				family separation (2 sub-districts in Lattakia and Al-Hassakeh) and hazardous child labour (3 sub-dis
				in Aleppo). It is however unclear to which extent these protection concerns are correlated.
				Social concerns and support
				Communal tensions were attributed to assistance being insufficient to meet the needs of all those affect
				Most vulnerable and affected groups
				- Destitute families
				- Female-headed households
				- Older person headed households
				- Households with persons with a disability
				Education
				- Approx. 89% Syrian children attended primary school in rural areas in 2006; even lower rates for po
				north-eastern regions as well as for secondary school attendance
				- In the northern governorates, now only 43% of the schools were reported to be functional and used a
				educational activities
				- The data collected in J-RANS II indicates however a great disparity in these governorates depending
				the intensity of conflict; on average 49% of the children attend school in low conflict intensity areas
5	UNICEF,	Syrian	Remote qualitative assessment	- Identified serious child protection concerns for tens of thousands of children, including: killing
5	2013	children	Kennote quantative assessment	maiming; sexual violence; torture; arbitrary detention; recruitment and use of children by armed f
	2013	Cillurell		exposure to explosive remnants of war; and growing intolerance (see above)
				- Children's exposure to extreme violence is causing serious psychological distress and impacting s
				- Children's exposure to extreme violence is causing serious psychological distress and impacting s
				- Many children have been unable to attend school for the past 2 years
		1		- many cinuten have been unable to attend school for the past 2 years

				Note: Approximately 20% of Syria's schools are either used as collective shelters for IDPs or have been destroyed or damaged (OCHA, 2013b, 24; OCHA, 2013c). Current drop-out rates as well as reports on school attendance before the crisis vary across assessments. According to a UNICEF/SCFA (2007) report, before the crisis, 98% of Syrian children attended primary school, while the J-RANS II report (see above) refers to a rate of 89% for rural areas.
	JORDAN	a :		
6	IMC / JHAS, 2012	Syrian refugees in host communities in Jordan January 2012 N = 353	MHPSS information gathering exercises, qualitative assessment with focus group discussions, key informant interviews and individual interviews using tools 8 and 11 from the World Health Organization (WHO) MHPSS Assessment Toolkit average age 37 years 28% female	 The assessment in host communities in Mafraq, Ramtha and, Irbid highlighted increased levels of fear worry and grief, anger, boredom and psychological distress among the refugees 45% respondents felt intense fear all or most of the time The most frequently cited coping methods were praying, smoking and socializing with friends and family
7	IMC / UNICEF, 2012	Syrian refugees in Za'atari refugee camp August 2012 N = 69	MHPSS information gathering exercises, qualitative assessment, combination of convenience and snowball sampling, with individual and group interviews, using adapted versions of the tools 10 and 11 from the WHO/UNHCR MHPSS Assessment Toolkit 50% female	 General problems: camp conditions, worry and fear about family members back in Syria and about their properties, as well as about the current situation in the camp, aggressiveness and psychological distress due to the camp conditions, respiratory problems due to dust in the camp, shock (related to traumatic events in Syria), worry, financial and housing problems Increased levels of worry, fear, psychological distress as well as aggressiveness and boredom among th interviewed refugees The most frequently cited coping methods were as well also praying or reading the Quran, talking t people, family, and friends, household chores, and cooking
	LEBANON			
8	IMC, 2011	Syrians refugees at the northern Lebanese- Syrian border May-June, 2011 N = 100	Qualitative assessment in the region of Wadi Khaled, using a free-listing tool 11 from the World Health Organization (WHO) MHPSS Assessment Toolkit 64 % female	 Reported general problems in order of frequency: lethargy, fear of insecurity, anxiety, worry about family, lack of necessities, changes in children's behaviors, financial problems, sleeping difficulties, loneliness, loss of appetite, discomfort at host home, feeling empty, bodily aches The most frequently reported mental health problems were anxiety, feeling depressed, lethargy, eating and sleeping problems, anger and fatigue Anger, fear, anxiety, feeling depressed and stress affect relationships within families and daily functioning and health Anxiety leads to feeling hostile and hopelessness to feeling guilty Inability of following up daily tasks as well as isolation were mentioned Mothers described changes in the behaviors of their children and within the family itself Mothers expressed an inability to show affection towards their children, feeding into their feelings of isolation, alienation, and negative relationships Positive coping mechanisms: exercising, going out, and playing with one's children. Negative coping mechanisms: smoking, watching TV [specifically the news and worrying about the one

9	MDM	Syrian	Semi-structured individual	[increasing one's feelings of social alienation] - Well-being is greatly attributed to fulfilling basic needs with the following priorities: 1) income and
	(Pérez-	refugees in	interviews,	future, 2) shelter, and 3) food
	Sales),	Bekaa Valley,	Cluster sampling and latin square	- Most people experience overwhelming emotions of fear, anger, fatigue, or hopelessness
	2013	Lebanon	method,	- Feelings of humiliation and frustration with dependency on aid were prevalent as well
		1 2012	66% female	- Negative emotions seemed to increase over time
		Jan 2013		- Among the refugee community a lack of unity, community organization, support, trust and confidence was reported as well as increased frustration and anger
		N = 154		- Gender-based violence as well as experiencing torture were reported among men and women
		11 - 154		- Praying is a main coping strategy and the community asked for financial support, employment,
				assistance, shelter, education, and activities for children and adolescents
10	Mobayad	Syrian	Random sample study of Syrian	Psychological outcome
	(2013, in	refugees in 2	men and women between 18 and	- prevalence rates of PTSD from 36.3% to 61.9% among adults
	preparation	camps	65 and children from 10-16 years	- main predictors were exposure to fighting and hostility, history of trauma
)		in 2 camps	- prevalence rates of PTSD from 41.3% to 76.49% among children
	Referenced	N = 228 adults		- main predictors were number of traumatic experiences related to conflict
	in Abou-	N = 129	Note: location was not confirmed	
	Saleh et al. (2013)	n = 129 children	by author	
11	MSF, 2012	Syrian	Cross-sectional survey in three	- 5 main problems reported are rental costs, housing quality, lack of employment opportunities leading to
11	1101,2012	refugees in	regions of Lebanon	dependency on external assistance, poor quality water, and lack of money.
		Lebanon	- structured questionnaire	- The high cost of living, low availability of drugs, and psychological stress were concerns
			1	- Many women, men, children report psychological problems, more prevalent in Wadi Khaled (based on
		N = 889	55.4% female (survey)	survey results)
		(survey) 83 (records)		Out of 83 patients consulted by mental health team (based on mental health records)
		85 (lecolus)		- Depression represented 50% of cases and anxiety accounted for 25%
				- Some patients reported having been tortured and raped
				<u>Children:</u> - High levels of distress
	TURKEY			- High levels of distress
12	Bahcesehir	Syrian	Primarily quantitative survey with	- Children display different levels functioning and adaptation
	Study,	children in	different measurements including	- Three out of four Syrian children have lost a loved one in the fighting
	2013	Islahiye camp	the Stressful Life Events	- More than 60% experienced events where they felt their lives were in danger
		in Southern	Questionnaire, the Social	- 50% had been exposed to 6 or more traumatic
		Turkey	Provisions Scale, the Children's	- However, 71% of the girls and 61% of the boys had strong close relationships to trusted persons for help
			Depression Inventory, the	and support
ļ		N=311	Children's Revised Impact of	- 30% reported that they had been separated from their families
			Events Scale	 Around 60% of the children reported symptoms of depression (significantly higher among girls) 45% reported symptoms of PTSD
			Children between 9 and 18, mean	- 22% aggression
			age 12.4 56% female	- 65% psychosomatic symptoms to a degree that seriously reduces the children's level of functioning

<u>13</u>	Marwa,	Syrian	Unknown	 I characteristics and summary of studies identified to meet systematic review criteria - reported the prevalence rate of PTSD to be 61%, morbid anxiety 53% and morbid depression 54% 		
15	2012	refugees in		reported the prevalence rate of 1 15D to be 01/0, morbid anxiety 55/0 and morbid depression 54/0		
	Referenced	four camps in				
	in Abou-	southern				
	Saleh et al.	Turkey				
	(2013)	runey				
	(2015)	N=300				
	Marwa,	11 200				
	2013					
	Study	Population,	Design	Main Findings about Mental Health Profile and Outcome		
	(Author/	Location,	Methodology			
	Year	Time				
	1 Car	Time	Age (years)			
			Gender (% female)			
		Sample	Measures			
		Size				
	Additional I	Publichad Litara	ture (Dro 2011 Conflict)			
		dditional Published Literature (Pre-2011 Conflict) fental health in Syria - Databases				
1	Kilzieh et	Syrians in	Cross-sectional, population-	- In women, predictors of depression were heart disease (OR = 3.95, 95% CI: 1.50-10.40), hypertension		
	al., 2008	Aleppo	based study in Aleppo on adults	(OR = 2.92, 95% CI: 1.53-5.55), and kidney disease (OR = 2.96, 95% CI: 1.64-5.32)		
			aged 18-65	- Depression comorbidity with any chronic disease decreased in higher socio-economic status (middle vs.		
		N = 2038	utilizing a structured interview	low: OR = 0.28, 95% CI: 0.12-0.65; high vs. low: OR = 0.20, 95% CI: 0.05-0.81)		
			questionnaire	- In men, predictors of depression were rheumatism (OR = 7.10, 95% CI: 2.58-19.60) and respiratory disease (OR = 3.77, 95% CI: 1.23-11.60)		
			mean age 35.3	- Depression comorbidity decreased in residence in formal zones (OR = 0.22, 95% CI: 0.06-0.80)		
			55 % female			
2	Kilzieh et	Syrians in	Cross-sectional, population-	- 4.5% of the respondents had depression		
	al., 2010	Aleppo	based study in Aleppo on adults	- Female gender, low socioeconomic status (SES), and depression were associated with high physical		
		N = 2038	aged 18-65 utilizing a structured interview	impairment - Women had more impairment (OR = 3.35, 95% CI: 2.15-5.21) with little change after controlling for		
		11 - 2030	questionnaire	depression and chronic diseases, but significantly decreased after controlling for socio-demographics (OR		
			physical impairment was	= 1.51, 95% CI: 0.84-2.73)		
			measured via an adapted 12-	- The association with low (vs. high) SES was prominent ($OR = 2.48, 95\%$ CI: 1.32-4.67) after controlling		
			item World Health	for all variables		
			Organization, Health State	- Depression's association (OR = 4.85, 95% CI: 1.93-12.15) lost significance after controlling for chronic		
			Description Individual	diseases (OR = 2.81, 95% CI: 0.96-8.25), but further adjustment for socio-demographics had little effect		
			Questionnaire which includes			
			both physical and emotional			
			items			
			25.2			
			mean age 35.3			
2	Marialant	I ou income	55 % female	Current physical shuge (bottoning at least 2 times during the previous even) and found in 220/ of the		
3	Maziak et	Low-income	Sample recruited from	- Current physical abuse (battering at least 3 times during the previous year) was found in 23% of the		

	al., 2003	women in Aleppo, Syria	: Syrian IDPs & Refugees – Selected 8 randomly selected primary care centers in Aleppo	investigated and among 26% of married women, while regular abuse (battering at least once weekly) was found in 3.3% of married women
		N = 411	A special questionnaire was used including questions about	- Correlates of physical abuse were women's education, religion, age, marital status, economic status, mental distress, smoking, and residence
			physical abuse, the self- reporting questionnaire (SRQ- 20),	
			mean age 28 100 % female	
4	Maziak et al., 2002	Low-income women in Aleppo, Syria	Sample recruited from 8 randomly selected primary care centers in Aleppo	 The prevalence of psychiatric distress was 55.6% Predictors of women's mental health in the logistic regression analysis were: physical abuse, women's education, polygamy, residence, age and age of marriage
		N = 412	A special questionnaire was used incl. the self-reporting questionnaire (SRQ-20) and background questions, mean age 28 100 % female	- Among these predictors, women's illiteracy, polygamy and physical abuse were the strongest determinants of mental distress leading to the worse outcomes
5	Maziak, W. et al., 2005	Syrians in Aleppo May to August 2004 N = 1,021	Household survey with randomly selected sample using stratified cluster sampling including self-reported health/disability measures mean age 34 54% female	 Residents of informal zones suffer from substantial physical and mental health problems and are exposed to high levels of indoor air pollution All seem to affect women and the elderly disproportionately Men are more affected by smoking, occupational respiratory exposures, and injuries
6	Ward et al., 2006	Syrians in Aleppo N = 2038	Mixed-method research design Mean age 35.3 years 54% female	 The prevalence of cigarette smoking was 56.9% among men and 17.0% among women The prevalence of waterpipe smoking was 20.2% among men and 4.8% among women Daily use predominated for cigarettes (29.0%), while the opposite was seen in waterpipe use with 10.6% smoking occasionally Interest in quitting was greater for cigarette than waterpipe smokers (74.0% v 48.6%), while quit rates were higher for waterpipe compared to cigarettes (28.2% v 16.5%) In-depth ethnographic interviews with smokers show that smoking waterpipe is often viewed as an aesthetic enjoyable experience, while smoking cigarettes is viewed as a mundane anxiety-relieving addiction Clinical laboratory studies reveal that both waterpipe and cigarette smokers in Syria are exposed to smoke toxicants and exhibit dependence symptoms
7	Smriga et al., 2004	Syrians in north-western Syria 2003	As part of a 3-month randomized double-blind study with poor Syrian communities consuming wheat as a staple food	 Lysine is a limiting amino acid in diets based on wheat as the staple In the lysine-fortified group, the plasma cortisol response to the blood drawing as a cause of stress was reduced in females, as was sympathetic arousal in males as measured by skin conductance Lysine fortification also significantly reduced chronic anxiety as measured by the trait anxiety inventory in males These results suggest that some stress responses in economically weak populations consuming cereal-based diets can be improved with lysine fortification

CQuosh et al. Table 2 Web Appendix: Syrian IDPs & Refugees – Selected characteristics and summary of studies identified to meet systematic review criteria								
1	Study	Population,	Design	Main Findings about Mental Health Profile and Outcome				
2	(Author/	Location,	Methodology					
3	Year	Time	Age (years)					
4			Gender (% female)					
5		Sample	Measures					
6		Size	1110dbd105					
7		SIZC						
8 9	Additional Grey Literature (Pre-2011 Conflict)							
10	Mental health etc. in Syria							
11 1	LAS/PAPF		General health population	General Health Survey of 2001: 10.2% of the youth between 15 and 24 felt anxious and 7.1% reported				
12	AM, 2002	nationals,	survey	feeling depressed.				
13		2001						
14								
15 16								
10								
18								
19								
20								
21								
22								
23 24								
25								
26								
27								
28								
29								
30								
31 32								
33								
34								
35								
36								
37								
38								
39 40								
41								
42								
43								
44								
45								
46 47								
47								
49	0							
	9							

Full List of References:

For: Quosh, C., Eloul, L., Ajlani, R. (2013). Syria – Refugees and Displaced in the past and current crises: Systematic Review Assessing the Mental Health Profile and System. *Intervention: International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed Conflict, 11*(3).

- Abou-Saleh, M., Mobayad, M. (2013). Mental Health in Syria. *International Psychiatry*, 10(3), 58-60.
- Al Ammar, K. (2009/2010). الإضرابات التالية للصدمة الناتجة عن الحرب على العراق : دراسة تشخيصية على عينة على عينه الحرية للصدمة الناتجة عن الحرب على العراق : دراسة تشخيصية على عينه على عينه عن المورقيين في مدينة دمشق *Post Traumatic Stress Disorder resulting from the war in Iraq: Diagnostic study with a sample of displaced Iraqis.]* Unpublished master's thesis, University of Damascus, Damascus, Syria.
- Al Obaidi, A. S., & Atallah, S. F. (2009). Iraqi refugees in Egypt: An exploration of their mental health and psychosocial status. *Intervention: International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed Conflict*, 7(2), 145-151.
- Alhasnawi, S., Sadik, S., Rasheed, M., Baban, A., Al-Alak, M. M., Othman, A. Y., et al. (2009). The prevalence and correlates of DSM-IV disorders in the Iraq Mental Health Survey (IMHS). *World Psychiatry*, 8(2), 97-109.
- American Friends Service Committee (AFSC). (2008). *Iraqi Refugee and IDP Assessment Summary Report*. Philadelphia: AFSC. Retrieved from: https://afsc.org/sites/afsc.civicactions.net/files/documents/summaryreport.pdf.pdf
- Arnetz, J., Rofa, Y., Arnetz, B., Ventimiglia, M., Jamil, H. (2013). Resilience as a Protective Factor Against the Development of Psychopathology Among Refugees. *The Journal of Nervous and Mental Disease*, 201(3), 167-72.
- Assessment Working Group for Northern Syria. (2013). *Joint Rapid Assessment of Northern Syria II (J-RANS II) - Final Report*. Retrieved from: http://reliefweb.int/sites/reliefweb.int/files/resources/JRANS%20II%20 %20Final%20Report_0.pdf
- Assistance Coordination Unit (ACU). (2013,). Joint Rapid Assessment of Northern Syria Interim Report (draft). ACU. Retrieved from: http://www.npr.org/documents/2013/mar/syria_report.pdf
- Bader, F., Sinha, R., Leigh, J., Goyal, N., Andrews, A., Valeeva, N., et al. (2009).
 Psychosocial Health in Displaced Iraqi Care-Seekers in Non-Governmental Organization Clinics in Amman, Jordan: An Unmet Need. *Prehospital and Disaster Medicine*, 24(4), 312-320.
- Bastin, P., Bastard, M., Rossel, L., Melgar, P., Jones, A., & Antierens, A. (2013). Description

and Predictive Factors of Individual Outcomes in a Refugee Camp Based Mental Health Intervention (Beirut, Lebanon). *PLoS One*, 8 (1), e54107.

- Chynoweth, C., (2008). The Need for Priority Reproductive Health Services for Displaced Iraqi Women and Girls. *Reproductive Health Matters*, 16(31), 93-102.
- Community Development Centre (CDC), & United Nations High Commissioner for Refugees (UNHCR). (2007a). *Health Assessment, Community Development Centre of Sweileh* (CDC-Sweileh) Final Report. East Amman Survey of Iraqis. Amman: CDC, UNHCR.
- Centre for Disease Control (CDC), & United Nations High Commissioner for Refugees (UNHCR). (2007b). *Second IPSOS survey on Iraqi refugees*. Damascus: UNHCR. Retrieved from: http://media.mcclatchydc.com/smedia/2007/12/14/16/IPSOS-II SurveyDec07.source.prod_affiliate.91.pdf
- Cope, J. R. (2012). Estimating the factors associated with health status and access to care among Iraqis displaced in Jordan and Syria using population assessment data. *Dissertation Abstracts International*, 73(1-B), 262. (Publication No. 3483379).
- Doocy, S., & Sirois, A., International Medical Corps –Johns Hopkins School of Public Health Study Team (2008). *Health Needs and Perceptions of Patients in Jordanian Red Crescent and Caritas Clinics. Report of Survey Findings.* Amman: International Medical Corps and Johns Hopkins School of Public Health. Retrieved from: http://internationalmedicalcorps.org/document.doc?id=80
- Doocy, S., Malik, S., & Burnham, G. (2010). Experiences of Iraqi doctors in Jordan during conflict and factors associated with migration. *American Journal of Disaster Medicine*, 5(1), 41-47.
- Doocy, S., Sirois, A., Anderson, J., Tileva, M., Biermann, E., Storey, et al. (2011). Food security and humanitarian assistance among displaced Iraqi populations in Jordan and Syria. *Social Science & Medicine*, 72(2), 273-282.
- Doocy, S., Sirois, A., Tileva, M., Storey, J. D., & Burnham, G. (2013) Chronic disease and disability among Iraqi populations displaced in Jordan and Syria. *International Journal of Health Planning and Management*, 28(1), e1-e12.
- El-Shaarawi, N. (2012). Living an Uncertain Future: An Ethnography of Displacement, Health, Psychosocial Well-being and the Search for Durable Solutions among Iraqi Refugees in Egypt. *Dissertation Abstracts International Section A*, 73(6-A), 2191. Retrieved from https://etd.ohiolink.edu/
- Eloul, L., Quosh, C., Ajlani, R., Avetisyan, N., Barakat, M., Barakat, L., Ikram, M.W. &
 Shammas, L., Diekkamp, V. (2013). Syria MHPSS Interagency Coordination for
 Refugees and Displaced in the past and current crises, Mapping the Context and Building

on Protracted Refugee Response. International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed Conflict, 11 (3). Interagency Standing Committee Mental Health And Psychosocial Support Reference Group (IASC MHPSS RG). (2013) Notes on Telephone Conference on the Syria Crisis, 3 July 2013. IASC MHPSS RG. Retrieved from: http://mhpss.net/wp-content/uploads/group documents/152/137638070120130714FinalnotesMHPSSRGtelephoneconferenceSyria03 072013.pdf International Medical Corps (IMC). (2011). Psychosocial Assessment of Displaced Syrians at the Lebanese-Syrian Northern Border. Beirut: IMC. Retrieved from: http://data.unhcr.org/syrianrefugees/download.php?id=225 International Medical Corps (IMC), & Jordan Health Aid Society (JHAS) (2012). Displaced Syrians in Jordan: A Mental Health and Psychosocial Information Gathering Exercise. Analysis and Interpretations of Findings. Amman: IMC, JHAS. International Medical Corps (IMC) & United Nations Children's Fund (UNICEF). (2012). Displaced Syrians in Za'atari Camp: Rapid Mental Health and Psychosocial Support Assessment Analysis and Interpretations of Findings. Amman: UNICEF & IMC. Retrieved from: https://data.unhcr.org/syrianrefugees/download.php?id=895 International Organization for Migration. (2005). Psychosocial Status of IDP Communities in Iraq. An assessment. Amman: IOM. International Organization for Migration (IOM). (2008). Assessment on Psychosocial Needs of Iragis Displaced in Jordan and Lebanon. Amman & Beirut: IOM. Retrieved from the IOM Website: http://www.iom.int/jahia/webdav/shared/shared/mainsite/published_docs/brochures_and nfo_sheets/report_psy_assessment.pdf International Rescue Committee (IRC). (2012). Syrian Women & Girls: Fleeing death, facing ongoing threats and humiliation. A Gender-based Violence Rapid Assessment. Syrian Refugee Populations Lebanon. August 2012. Geneva: IRC. Retrieved from: http://data.unhcr.org/syrianrefugees/download.php?id=900 Jayawickrama, J., & Gilbert, J. (2008). Responding to the mental health and wellbeing of refugees in Jordan: Challenges for systems, organizations and staff. Report for the Disaster and Development Centre at Northumbria University and United Nations High Commissioner for Refugees. Jordans, M. D., Semrau, M., Thornicroft, G., & van Ommeren, M. (2012). Role of current perceived needs in explaining the association between past trauma exposure and distress in humanitarian settings in Jordan and Nepal. The British Journal of Psychiatry, 201(4), 276-281.

- Khatib, I. M., Samrah, S. M., Zghol, & F. M. (2010). Nutritional interventions in refugee camps on Jordan's eastern border: assessment of status of vulnerable groups. *Eastern Mediterranean Health Journal*, 16(2), 187-193.
- Kilzieh, N., Rastam, S., Maziak, W., & Ward, K. D. (2008). Comorbidity of depression with chronic diseases: a population-based study in Aleppo, Syria. *International Journal of Psychiatry in Medicine*, 38(2), 169-184.
- Kilzieh, N., Rastam, S., Ward, K. D., & Maziak, W. (2010). Gender, depression and physical impairment: An epidemiologic perspective from Aleppo, Syria. *Social Psychiatry and Psychiatric Epidemiology*, 45(6), 595-602.

League of Arab States (LAS), Pan Arab Project for Family Health (PAPFAM), Office of the Prime Minister, & Central Bureau of Statistics. (2002). *The Family Health Survey in the Syrian Arab Republic / General Health Survey*. Damascus: PAPFAM & Government of Syrian Arab Republic. Retrieved from: http://www.unfpa.org.sy/pubfiles/Ko6_2F_qt_4E9wQ_m.pdf

- Le Roch, K., Pons, E., Squire, J., Anthoine-Milhomme, J., & Colliou, Y. (2010). Two Psychosocial Assistance Approaches for Iraqi Refugees in Jordan and Lebanon : Center Based Services Compared to Community Outreach Services. *Journal of Muslim Mental Health*, 5(1), 99-119.
- Loughry, M., & Duncan, J. (2007). *Iraqi Refugees in Syria*. Geneva: International Catholic Migration Comission (ICMC), & United States Conference of Catholic Bishops (USCCB) Mission to Assess the Protection Needs of Iraqi Refugees in Syria. Retrieved from: http://www.aina.org/reports/icmc2008report.pdf
- Marwa, M. K. (2012). *Psychosocial sequels of Syrian revolution*. Abstract presented at the Pan Arab Psychiatric Conference, Dubai. Retrieved from: http://www.papc2012.com/program_-_day_2.html.
- Marwa, M.K. (2013). *Psychological Distress Among Syrian Refugees*. Science & Practice, Presentation at the 12th World Congress on Stress, Trauma and Coping, Baltimore. Retrieved from: http://www.icisf12thworldcongress.org/education/plenary-presentations/
- Maziak, W., & Asfar, T. (2003). PHYSICAL ABUSE IN LOW-INCOME WOMEN IN ALEPPO, SYRIA. *Health Care for Women International*, 24(4), 313-326.
- Maziak, W., Asfar, T., Mzayek, F., Fouad, F. M., & Kilzieh, N. (2002). Socio-demographic correlates of psychiatric morbidity among low-income women in Aleppo, Syria. *Social Science & Medicine*, 54(9), 1419-1427.
- Maziak, W., Ward, K. D., Mzayek, F., Rastam, S., Bachir, M. E., Fouad, M. F., et al. (2005). Mapping the health and environmental situation in informal zones in Aleppo, Syria: report from the Aleppo household survey. *International Archives of Occupational and*

Environmental Health, 78(7), 547-558.

McLeod, B. (2013, May 10). Syrian refugees 'sold for marriage' in Jordan. BBC News Middle East. Retrieved from: http://www.bbc.co.uk/news/world-middle-east-22473573 Medicin Sans Frontieres (MSF). (2012). Fleeing the violence in Syria. Syrian refugees in Lebanon. Beirut: MSF. Retrieved from: http://www.doctorswithoutborders.org/publications/article.cfm?id=6286 Mental Health Psychosocial Support Working Group Syria (MHPSSWG). (2012). Stakeholder assessment. Damascus: MHPSS WG. Unpublished Report. Office for the Coordination of Humanitarian Affairs (OCHA). (2012). Regional Response Plan for Iraqi Refugees Mid Term Review 2012. Geneva: OCHA. Retrieved from: https://docs.unocha.org/sites/dms/CAP/MYR 2012 Iraq RRP.pdf Office for the Coordination of Humanitarian Affairs (OCHA). (2012a). Syrian Humanitarian Assistance Response Plan (SHARP). Geneva: OCHA. Retrieved from: http://www.unocha.org/cap/appeals/draft-syria-humanitarian-assistance-response-plan Office for the Coordination of Humanitarian Affairs (OCHA). (2013a). Syrian Arab Republic: People in Need and IDPs by Governorate – as of April 2013. Geneva: OCHA. Retrieved from: http://reliefweb.int/sites/reliefweb.int/files/resources/Syria%20People%20in%20Need% and%20IDPs%20by%20Governorate%20Arabic%20Version.pdf Office for the Coordination of Humanitarian Affairs (OCHA). (2013b). Syria: Humanitarian Needs Overview. Geneva: OCHA. Retrieved from: http://reliefweb.int/sites/reliefweb.int/files/resources/Syria%20Humanitarian%20Needs 20Overview%20April%202013.pdf Office for the Coordination of Humanitarian Affairs (OCHA). (2013c). Revised Syrian Humanitarian Assistance Response Plan (SHARP). Geneva: OCHA. Retrieved from: http://www.unocha.org/cap/appeals/revised-syria-humanitarian-assistance-response plansharp-january-december-2013 Office for the Coordination of Humanitarian Affairs (OCHA). (2013d). Humanitarian Bulletin: Syria, 31, July 30-August 12. Geneva: OCHA. Retrieved from: http://reliefweb.int/sites/reliefweb.int/files/resources/Syria%20Humanitarian%20Bulletin %20Issue%2031_0.pdf Özer, B., Sirin, S., & Oppedal, B. (2013). Bahcesehir Study of Syrian Refugee Children in Turkey: Bahcesehir University. Retrieved from: http://www.fhi.no/dokumenter/4a7c5c4de3.pdf

- б
- Pérez-Sales, P. (2012). Assessment of Trauma Experiences, Mental Health and Individual and Community Coping Resources of Refugee Syrian Population Displaced in North Bekaa (Lebanon). France/Spain: Medicin Du Monde (MDM). Retrieved from: mhpss.net/.../1360149134-MHPSSAssesmentNorthBeka...
- Quosh, C. (2011). Takamol: Multi-professional capacity building in order to strengthen the psychosocial and mental health sector in response to refugee crises in Syria. Intervention: International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed Conflict, 9(3), 249-264.
- Quosh, C. (2013). Mental Health, Forced Displacement & Recovery: Integrated, Multidimensional Mental Health & Psychosocial Support Programme for Urban Refugees in Syria. International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed Conflict, 11 (3).
- Refugee International. (2009, July). Iraqi Refugees: Women's Rights and Security Critical to Returns. Washington, DC: Refugee International. Retrieved from: http://www.refugeesinternational.org/policy/field-report/iragi-refugees-womens-rights and-security-critical-returns
- Rudoren, J. (2013, May 8). A Lost Generation: Young Syrian Refugees Struggle to Survive. New York Times. Retrieved from: http://www.nytimes.com/2013/05/09/world/middleeast/syrian-refugees-in-jordan struggle-to-survive.html?pagewanted=all&_r=0
- Salem-Pickartz, J. (2009). Iraqi refugees in Jordan research their own living conditions: 'we only have our faith and families to hold on to'. Intervention: International Journal of Mental Health, Psychosocial Work & Counselling in Areas of Armed Conflict, 7(1), 34-49.
- Schöpfel, J., & Farace, D.J. (2010). 'Grey Literature'. In Bates M.J., & Maack, M. N. (Eds.), *Encyclopedia of Library and Information Sciences*, (3rd ed., pp. 2029-2039). London: CRC Press.
- Smriga, M., Ghosh, S., Mouneimne, Y., Pellett, P. L., & Scrimshaw, N. S. (2004). Lysine fortification reduces anxiety and lessens stress in family members in economically weak communities in Northwest Syria. Proceedings of the National Academy of Science of the United States of America, 101(22), 8285-8288.
- Syrian Arab Red Crescent (SARC). (2012). Psychosocial Assessment with SARC volunteers. Damascus: SARC. Unpublished Report.
- Syrian Arab Red Crescent (SARC), & Danish Red Cross (DRC). (2007). Psychosocial needs assessment of the Iraqi displaced in Syria. Damascus: SARC & DRC. Unpublished Report.
- Tappis, H., Biermann, E., Glass, N., Tileva, M., & Doocy, S. (2012). Domestic Violence Among

Iraqi Refugees in Syria. Health Care for Women International, 33(3), 285-297.

Tsovili, T. D., Coutts, A., & Quosh, C. (2010). *Psychosocial well-being of Iraqi refugee children in Syria: Report prepared for UNICEF and the Syrian Arab Red Crescent*. Unpublished Report.

Unknown (2012). Screening Iraqi uprooted children in SAR for patterns of emotional and behavioral disorders, and PTSD. Internal Presentation 01/2012 at UNHCR Syria.

- United Nations Children's Fund (UNICEF). (2008a). Parenting Problems and Counseling Needs of Iraqi Mothers. Report from Focus Group Discussions. (Damascus Papers: no4.) Damascus: UNICEF.
- United Nations Children's Fund (UNICEF). (2008b). *Situation Analysis of Early Childhood Development in Syria*. Damascus: UNICEF.
- United Nations Children's Fund (UNICEF). (2013). Syria's Children: A lost generation? Crisis Report March 2011 – March 2013. NY: UNICEF. Retrieved from: http://www.unicef.org/infobycountry/files/Syria_2yr_Report.pdf
- United Nations Children's Fund (UNICEF) & Syrian Commission for Family Affairs (SCFA). (2007). *Report on focus groups in analyzing Children's situation in Syria*. Damascus: UNICEF & SCFA.
- United Nations High Commissioner for Refugees (UNHCR). (2008-2011). *Participatory Assessment Results*. Damascus: UNHCR. Unpublished reports.
- United Nations High Commissioner for Refugees (UNHCR). (2012a). UNHCR Syria Factsheet July 2012. Damascus: UNHCR Syria.
- United Nations High Commissioner for Refugees (UNHCR). (2012b). *Impact of the Syrian Crisis on the Socioeconomic Status of Refugees*. Damascus: UNHCR.
- United Nations High Commissioner for Refugees (UNHCR). (2013a). UNHCR Syria Refugee Fact Sheet April 2013. Damascus: UNHCR. Retrieved from: http://reliefweb.int/report/syrian-arab-republic/unhcr-syria-refugee-fact-sheet-april-2013
- United Nations High Commissioner for Refugees (UNHCR). (2013b). UNHCR Syria Refugee Fact Sheet June 2013. Damascus: UNHCR. Retrieved from: http//:reliefweb.int/report/syrian-arab-republic/unhcr-syria-refugee-fact-sheet-june-2013 enar
- United Nations High Commissioner for Refugees (UNHCR), & Syrian Arab Red Crescent (SARC). (2013). *Stakeholder assessment*. Damascus: UNHCR &SARC. Unpublished raw data.

United Nations Populations Fund (UNFPA), United Nations High Commissioner for Refugees (UNHCR), United Nations Children's Fund (UNICEF), World Food Programme (WFP), & World Health Organization (WHO). (2007). *Health Sector Appeal. Meeting the Health Needs of Iraqis Displaced in Neighbouring Countries*. UNFPA, UNHCR, UNICEF, WFP, & WHO. Retrieved from: http://www.who.int/hac/crises/irq/appeal/iraq_neighbours_appeal_18sep07.pdf

- Ward, K. D., Eissenberg, T., Rastam, S., Asfar, T., Mzayek, F., Fouad, et al. (2006). The tobacco epidemic in Syria. *Tobacco Control*, 15, (Suppl 1), i24-i29.
- The World Factbook (2010). Washington, DC: Central Intelligence Agency. Retrieved from: https://www.cia.gov/library/publications/download/download-2010
- World Health Organization (WHO), & Ministry of Health, Iraq. (2009). *Iraqi Mental Health Survey (IMHS)*. Baghdad: WHO.

World Health Organization (WHO). (2010). Family Health Survey Syria. Damascus: WHO.

- Yaman, H., Kut, A., Yaman, A., & Ungan, M. (2002). Health Problems Among UN Refugees at a Family Medical Centre in Ankara, Turkey. *Scandinavian Journal of Primary Health Care*, 20(2), 85-87.
- Yanni, E. A., Naoum, M., Odeh, N., Han, P., Coleman, M., & Burke, H. (2013). The Health Profile and Chronic Diseases Comorbidities of US-bound Iraqi Refugees Screened by the International Organization for Migration in Jordan: 2007–2009. *Journal Of Immigrant And Minority Health*, 15(1), 1-9.