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The Influence of Relationship Stability Patterns in Emerging Adulthood on Chronic Illness and Health Behaviors Patricia N. E. Roberson¹, Jerika Norona² and Jennifer Bishop³ ¹ University of California, Davis Received: 10 December 2016 Accepted: 5 January 2017 Published: 15 January 2017

7 Abstract

21

Objective: Relationship status (e.g., married, single) is linked to mental and physical health 8 outcomes. However, beyond this static, binary measure of relationship stability it is not 9 known how different patterns of moving in and out of these static statuses effect outcomes. 10 Therefore, using a recent, nationally representative sample of emerging adults, the present 11 longitudinal study examined patterns of relationship stability among young people between 12 the ages of 17 and 27 and their links with mental and physical health outcomes. Method: 13 Using mixed-method, participants? romantic relationship status was coded across five waves 14 into types of relationship stability patterns. Then, using quantitative methods, we determined 15 if relationship stability pattersn differed on self-reported measures of mental health (i.e., 16 psychological distress), physical health (e.g., chronic illness, self-reported health), and health 17 behaviors (e.g., sleep, binge drinking, smoking) using appropriate regression models (i.e., 18 linear, Poisson, logistic). Results: Participants (N = 694) were five relationship stability 19

²⁰ patterns were determined: Stable Single (42.6

Index terms— is a developmental period during which young people transition from adolescence into adulthood. Arnett 22 23 (2000 Arnett (, 2015)) proposed that the primary goal of emerging adults is to establish their roles and 24 responsibilities in the domains of love and work. Emerging adults thus strive to gain independence from their 25 families of origin and behave autonomously, as well as create a coherent identity (Arnett, 2015). To add to this 26 journey toward independence, emerging adults are also expected to establish long-term, committed romantic 27 relationships. These tasks are not easy and can often be daunting for young people; indeed, novel experiences 28 such as pursuing higher education, joining the military, joining the workforce, establishing a career, and forming 29 intimate relationships are not small feats. Given the inherent stress of being in transition, it is important 30 for researchers to better understand the factors that contribute to optimal health and well-being for emerging 31 adults as they establish their roles in love and work. Relationship status (e.g., married, single) is linked to 32 mental and physical health both among emerging adults and older adults with those in committed relationship 33 experiencing improved health outcomes (e.g., Ditzen, Hoppmann, & Klumb, 2008; Kumar, Mohan, Ranjith, & 34 Chandrasekaran, 2006). However, beyond this static, binary measure of relationship stability it is not known 35 how different patterns of moving in and out of these static statuses effect outcomes. Specifically, for Emerging 36 Adults, it appears that timing of transitioning into a committed may be liked to health outcomes (Roberson, 37 Norona, Zorotovitch, & Dirnberger, in press) Therefore, using a nationally representative sample of emerging 38 adults, the present longitudinal study examined patterns of relationship stability among emerging adults people 39 between the ages of 17 and 27 and their links with mental and physical health outcomes. 40

⁴¹ 1 II. Romantic Relationships in Emerging Adulthood

42 Much empirical attention has been given to romantic relationships in emerging adulthood because they contribute 43 greatly to physical and mental health across the life course (Davila, 2004). Unlike in other developmental

stages, emerging adults can take various trajectories toward adulthood in terms of their romantic relationships 44 ??Roberson et al., in press); although getting married during this life stage is somewhat uncommon (especially 45 compared to decades ago), emerging adults might choose to cohabitate with their committed romantic partners 46 (Stanley, Whitton, & Markman, 2004). Emerging adults also engage in romantic experiences outside the context 47 of romantic relationships, which can include casual sex (Claxton &van Dulmen, 2013). Although romantic 48 experiences can take different forms in emerging adulthood, forming a long-term, committed romantic relationship 49 is reportedly a common goal for emerging adults by the time they turn 30 years old (Arnett, 2015). What is 50 unknown is how relationship stability or instability might impact later health. 51

$\mathbf{2}$ a) Relationship Stability 52

In investigating the factors that contribute to emerging adults' physical and mental health, it is important to 53 consider the role of relationship stability. (Ditzen et al., 2008; ??umar et al., 2006). However, for emerging 54 adults, consistent associations are less clear. 55

For emerging adults, some studies show that being in a romantic relationships is related to an increase in 56 symptoms of depression (Davila, Steinberg, Kachadourian, Cobb, & Fincham, 2004); in contrast, married and 57 cohabiting emerging adults tend to exhibit fewer depressive symptoms compared to their single counterparts 58 (Brainthwaite, Delevi, & Fincham, 2010; Galambos, Barker, & Krahn, 2006). When these relationships are formed 59 during emerging adulthood is apparently important as those who experience romantic commitment early on during 60 this life stage tend to show decreases in depressive symptoms as they age ?? Roberson et al., in press). These 61 negative mental health outcomes can potentially affect other areas of life, including work and school (Mayseless 62 & Keren, 2014). Because of the inconsistent findings on the association between romantic relationship status 63 and mental and physical health outcomes in emerging adulthood, further research is needed to deepen our understanding of the factors that contribute to adaptive and maladaptive outcomes. 65

Emerging adults have been described as shifting in and out of romantic relationships (Shulman & Connolly, 66 2013) and a handful of studies have found different patterns of relationship instability during late adolescents 67 and early emerging adulthood (Bajoghli et al., 2017;Boisvert & Poulin, 2016; Rauer, Pettit, Lansford, Bates, & 68 Dodge, 2013). While these studies confirm that different patterns of relationship stability exist they only examine 69 precursors to these patterns. However, research has yet to examine how these shifts specifically affect physical 70 and mental health outcomes for emerging adults. Because emerging adulthood is a stage during which young 71

72 people are expected to explore and develop many types of romantic connections, relationship stability might not 73 impact health in the same ways as it does among older adults. Further, because emerging adults are generally

healthier due to their age, we might not see differences in the quality of their physical health. Rather, their 74

health behaviors might be more accurate gauges of their health during this life stage and might predict health 75 76 quality in middle and later life.

3 III. 77

64

The Current Study 4 78

Using a recent sample of emerging adults, the present longitudinal study examined the link between relationship 79 stability and emerging adults' mental health and physical health behaviors. This study extends previous research 80 in a number of ways. The present study begins to fill the current gap in the literature regarding relationship 81 instability and how it is related to health outcomes in emerging adulthood. Specifically, this study can shed light 82 on either the utility or the detriment of relationship transitions over time and whether they contribute to mental 83 health (aim 1) and physical health (aim 2). 84

Further, emerging adults are younger than most samples for which relationship status has been linked to 85 health outcomes (mental and physical) and health behaviors established in young adulthood tend to extend into 86 later years. Therefore, we also examine health behaviors that may prevent future health problems (e.g., exercise, 87 doctor visits; aim 3), or be problematic for future health quality (e.g., binge drinking, drug use, poor sleep 88 pattern; aim 4). Importantly, this study is the first step in understanding the relationship among relationship 89 stability and mental and physical health outcomes. 90

IV. $\mathbf{5}$ 91

Method a) Participants 6 92

Participants (N = 694) ranged in age from 17 to 19 in 2005 with an average age of 18 (SD = 0.79). 50% of 93 94 the sample reported as men and 50% as women. Participants mostly identified as White (49%) or African-95 American (42%), and ?1% identified as American Indian, Asian, Pacific Islander, or Other. When considering self-reported relationship status, in 2005, the majority reported being Never Married, Not Cohabitating (90%), 96 followed by Never Married, Cohabiting (5%), Married (3%), and then Separated < 1%. In contrast, the majority 97 of relationship statuses at follow-up in 2013 were still Never Married, Not Cohabiting, although a substantially 98 smaller proportion (53%), followed by Married (24%), Never Married, Cohabiting (18%), Separated (2%), 99 Divorced, Not Cohabiting (2%), and then Divorced, Cohabiting (1%). 100

¹⁰¹ 7 b) Procedures

Data in the present study were part of the Transition to Adulthood project, which is part of the larger ongoing Panel Study of Income Dynamics (Dynamics, 2016); this secondary data study is exempt from IRB approval. The PSID is a nationally representative sample of Americans and the longest running household study survey in the world. The Transition to Adulthood project (the present sample) participants are the grandchildren of the original PSID participants and were contacted once they turned 18 for biannual phone interviews. For the Transition to Adulthood data set, participants were eligible if their parents were part of the larger study, but only one sibling from each family was selected to participate in the next generation of the ongoing study.

The ii. Mental Health The mental health measure was developed by the PSID. This composite measure consisted of six items that assess psychological symptoms (e.g., "How often did you feel nervous in the past month?"), with responses ranging from 1 = all of the time to 5 = none of the time. Items were combined so that higher scores indicate more psychological distress (M 2005 = 5.33, SD 2005 = 3.58; M 2013 = 4.87; SD 2013 = 3.74).

¹¹⁴ 8 iii. Physical Health Status

Number of chronic illness was assessed by, "Has a doctor or other health professional ever told you that you have or had?" (a) asthma, (b) diabetes or high blood sugar, (c) cancer, (d) high blood pressure, (e) other chronic disease. Response options included (0) no, (1) yes, (8) don't know, or (9) not applicable. Response were summed into the used variable ranging from 0 to 5; don't know and not applicable were coded as missing. In 2005, 50% of participants reported having 0 chronic illnesses, followed by having 1 chronic illness (47%), 2 chronic illnesses (3%), and then 3 chronic illnesses (<1%). In 2013, 54% of participants reported having 1 chronic illness, followed by having 0 chronic illnesses (42%), 2 chronic illnesses (4%), and then 3 chronic illnesses (1%).

Self-reported physical health was assessed by, "Would you say your health in general is excellent, very good, good, fair, or poor?" with response options of 1 = excellent to 5 = poor (M 2005 = 1.17, SD 2005 = .92; M 2013 124 = 1.20, SD 2013 = .95).

Body mass index (BMI) was calculated by the PSID. Participants were organized into 4 BMI groups (0) < 18.5, 125 underweight; (1) 18.5 -24.9, Normal; (2) 25.0 -29.9, Overweight; (3) ? 30.0, Obese. In 2005, most participants 126 were coded as having a normal BMI (57%), followed by overweight (26%), obese (13%), and then underweight 127 (4%). In 2013, a smaller proportion were coded as having a normal BMI (42%), followed by overweight (30%), 128 obese (25%), then underweight (2%). Cigarette smoking was assessed by, "Do you smoke cigarettes"? with 129 respondents reporting (0) no or (1) yes. Respondents reports of 'don't know' or 'refuse' were coded as missing. 130 In 2005, 76.9% reported as nonsmokers and in 2013, 78.5% reported as non-smokers. Binge drinking was assessed 131 by, "In the last year, on how many days have you had (if male then 'five' / if female then 'four') or more drinks on 132 one occasion?" Total drug use was assessed by, "On how many occasions (if any) have you used in 133 the past 12 months": diet pills, amphetamines, marijuana, cocaine, barbiturates, tranquilizers, and steroids. We 134 coded each as 0 (never used) or 1 (used at least once) then summed for a total number of drugs used which ranged 135 from 0 to Stable, into relationship, out of relationship, in and out of relationship. Each participant's response 136 across all time points was examined, and only those who responded to the question about relationship status 137 at least three out of the five possible times received a code. In other words, some participants did not provide 138 an answer about their relationship status at all five time points, but if they provided at least three answers, a 139

140 pattern could be established and was coded.

ii. Health Outcomes For the second research question, we sought to understand the effects of the relationship 141 stability patterns on a number of outcomes relating to mental health, physical health, and health behaviors in 142 2013. For each of the outcome variables, we first examined bivariate association in SPSS. Depending on the type 143 of variable (e.g., continuous, dichotomous, or count) we used different statistical tests. Namely, we used cross 144 tabulations for the dichotomous outcomes and analysis of variance (ANOVA) for continuous or count outcomes. 145 Next, we examined the same outcome variable in predictive regression models controlling for baseline levels of 146 each variable, gender (male and female), age in 2005 ??17, 18, and 19), and minority status (White and other). 147 In the predictive models, the relationship stability patters were dummy coded so that the largest category was 148 used as the reference group. For continuous outcomes variables, we use linear regression, for count outcome 149 variables we used Poisson regression, and for dichotomous variables we used logistic regression. All predictive 150 models were run in Mplus so that we could handle missing data using full information maximum likelihood. We 151 examined the 95% confidence interval of each parameter and variance explained (R 2) of the predictive model. 152 in addition to significance level, when evaluating the effect of the determined relationship stability patterns on 153 health outcomes. 154

155

156 9 Results

V.

¹⁵⁷ 10 a) Relationship stability patterns

The patterns of relationships stability for each participant was coded according to the pre-determined patterns. However, during the coding process, we determined that stable had two sub-categories, stable committed and 160 stable single. 2) indicated that only emerging adults who Move Out Of Commitment have 60% more chronic 161 illnesses compared to Stable Single.

¹⁶² 11 d) Self-reported physical health

163 The ANOVA indicated mean differences among the relationship stability pattern, F(??

164 12 Discussion

In this study, we sought to investigate different types of relationship stability patterns among emerging adults in the United States ages 17-29 [1] and how those stability patterns differed on health outcomes near the end of this period. After examining these results, four patterns emerged.

168 First, emerging adults in the Moving out of Commitment pattern seemed to fair the worst compared to those 169 in the Stable Single pattern. Namely, that the Moving Out of Commitment pattern tended to report higher 170 psychological distress, a higher number of chronic diseases, worse self-reported physical health, and were more likely to smoke (although also less likely to binge drink alcohol) compared to those in the reference relationship 171 stability pattern. All in all, it appears that young people who start emerging adulthood in a committed 172 relationship and end it not in a relationship fair worse in terms of psychological and physical health. However, 173 we do not know the direction of association among these variables as previous research has found a bi-directional 174 association among adults (Torvik, Gustavson, Røysamb, & Tambs, 2015). 175

Future research is needed to further disentangle the association between relationship quality, relationship stability, and health; however, the findings here make it clear that the patterns that exist in emerging adulthood are similar to those in middle and later adulthood.

The second pattern found that those in the Moving In and Out of Commitment pattern did not have any 179 physical or mental health differences compared to the reference group, they were more likely to smoke and binge 180 drink alcohol, but reported using a fewer number of drugs. Therefore, relationship instability during emerging 181 adulthood may be more related to health behaviors than mental and physical health status. However, these health 182 behaviors might be indicative of poorer health in middle and later adulthood (BURNS et al., 2008), but they 183 might also be a function of a lifestyle often reported during this developmental period (e.g., casual sex; (Claxton 184 & van Dulmen, 2013)). If these health behaviors change as individuals move out of this developmental period, 185 their physical health in later adulthood might not be negatively impacted. Future research should examine the 186 long reaching impact of health behaviors during this developmental stage. 187

The third pattern was that those in the Moving into Commitment pattern tended to fair better than the 188 ??013). As to why this disparity occurs, some argue that the health disparity is partially because of a selection 189 process, those who are healthier select into marriage/relationship commitment and those who are less healthy do 190 not (Waldron, Hughes, & Brooks, 1996). This may be true as is evidenced by those who move out of commitment; 191 however, this is a minority of individuals during emerging adulthood (3.4%). What we believe may explain the 192 marital health disparity for a larger portion of the population is the reduction in problematic health behaviors 193 for those choosing relationship commitment, which should be related to better physical health in middle and 194 later adulthood. Therefore, it might be most effective to improve longterm relational and physical health by 195 implementing brief prevention programs which focus on both characteristics of healthy relationships, as well as 196 improvement of health behaviors during this emerging adulthood. 197

198 **13 VII.**

¹⁹⁹ 14 Limitations/Future Research

This study is not without limitations. First, some of the outcome measures are limited in number of items measuring each construct and the variability of some measures. Therefore, results may not be generalizable to emerging adults with more problematic health and should be replicated with such a population. Second, some scholars point to emerging adulthood as lasting until the late 20s or early 30s. Therefore, the findings here may not be an accurate representation of all of emerging adulthood as they only extend to age 27.

Third, we only include self-report measures of health and do not include biological measures such as all static load which is linked to future health problems. While those measures were not available to us, future research should include these to better predict long term effects of relationship stability.

208 15 VIII.

209 16 Conclusion

The findings of this study suggest that there are multiple patterns of relationship stability (or instability during Emerging Adulthood and that these patterns differentially impact subsequent mental health, physical health, and health behaviors. Namely, "Moving out of Commitment" is most problematic for health outcomes while "Stable Single or Committed" are less problematic for health. These finding can inform future integrative health Introduction merging adulthood (ages 18 to 29; Arnett, 2015)

Figure 1:

c) Measures
i. Romantic Relationship Status
Romantic relationship stability types were
coded from the marital/cohabitation status variable in
2005, 2007, 2009, 2011, and 2013. At each time point
participants were coded by the PSID as (1) Never
married, cohabiting; (2) Never married, not cohabiting;
(3) Married, spouse present; (4) Married, spouse not
present; (5) Separated; (6) Divorced, cohabiting; (7)
Divorced, not cohabiting; (8) Widowed; (9) Not
applicable, don't know.

Figure 2:

1

The

Figure 3: Table 1 :

 $\mathbf{2}$

BMI 2.5000 2.0000 1.5000 1.0000 0.5000 0.0000

Figure 4: Table 2)

 $\mathbf{2}$

Smoking Status: The bivariate association (Chi-squared) indicated that there was a difference across relationship stability patterns. Post-hoc analysis of the adjusted residuals indicates that a significantly smaller proportion of those Moving into Commitment smoked (14.4%; Z = -2.2), while those Moving Out of Commitment smoked more $(42.9\%; \mathbb{Z} = 2.2)$. The predictive model (logistic regression; Table 3) indicated that emerging adults Moving In and Out of Commitment were 35% more likely to smoke compared to those who were Stable Single (trending toward significance). Additionally, those Moving out of Commitment were 114% more likely to smoke compared to those who were Stable Single. Binge Drinking: The bivariate association (ANOVA) indicated that there were no bivariate associations, F(4,412) = .86, p = .49. The predictive model (Poisson regression; Table 3) indicated that those Movinginto Commitment (80%) or Moving Out of Commitment (51%)were less likely to drink, but those Moving In and Out of Commitment (122%) were more likely to drink compared to emerging adults who were Stable Single.

[Note: e) Health BehaviorsSleep: First the ANOVA indicated that there were no significant mean differences among the relationship stability patterns, F(4,419) = .55, p = .70. The predictive model (Table3) confirmed this. Number of drugs used: The ANOVA indicated that there were no bivariate associations, F(4,606) = 1.72, p = .14.Results of the predictive model (Poisson regression; Table 3) indicated that those Moving into Commitment (20%) and those Moving In and Out of Commitment used fewer drugs (19%; trending toward significant) compared to Stable Single. © 2017 Global Journals Inc. (US) s]

Figure 5: Table 2 :

3

Figure 6: Table 3 :

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significantly different on any physical health measures, they were less likely to engage in problematic health behaviors. Because of the decreased problematic behaviors, it is plausible to assume that those who move M (SD)/ % into commitment during emerging adulthood may also B(SE) Model 1: Sleep 2013 a Stabl

Stable Committed physical health (Umberson, Williams, Powers, Liu, & 6.75(1.16) -.29(.40)

Year Stable Committed Sleep 2005 Needham, 2006), indicating that better relationship 2.4% .26(.49) 1.30-2017

| | Smoking 2005 | - 1.39(.14)00* |
|---|---|--|
| 8 | Model 3: Binge Drinking c Stable Single | 1.21(1.40) |
| Volu XVI Is- sue VII Ver- sion I | matheto Commitment Out Of Commitment In & Out Of I Commitment Stable Committed Binge Drinking 2005 Model 4: Number of drugs used c (N = 611) Stable Single Into Commitment Out Of Commitment In & Out Of Commitment Stable Committed Number of drugs used 2005 | $\begin{array}{llllllllllllllllllllllllllllllllllll$ |
| (Н | | |

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programs to target types of stability patterns (rather than divorce in general) and potentially reduce health problems from manifesting or becoming exacerbated 1^{2} 214 problems from manifesting or becoming exacerbated. 215

 $^{^1 \}odot$ 2017 Global Journals Inc. (US) s The Influence of Relationship Stability Patterns in Emerging Adulthood on Chronic Illness and Health Behaviors $^{2} \odot$ 2017 Global Journals Inc. (US) s

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