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# Divorce Conflict and Health Across the Divorce Process: A Ten-Year Observational Study of Medicine Prescriptions, Primary Care Visits, and Hospitalizations

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# **Divorce Conflict and Health Across the Divorce Process: A Ten-Year Observational Study of Medicine Prescriptions, Primary Care Visits, and Hospitalizations**

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# **Abstract**

## **Objectives**

This study examines the association between divorce conflict and medicine prescriptions, primary care visits, and hospitalizations, over a ten-year period around juridical divorce.

## **Design**

A longitudinal observational study was conducted using a cohort of 1,784 Danes who divorced between 2015 and 2017. Conflict was measured with the validated Divorce Conflict Scale, and health outcomes were obtained from national registers.

## **Methods**

Negative binomial and logistic regression models examined the relationship between divorce conflict and health outcomes, controlling for prior health status, demographic factors, and socioeconomic variables. Analyses included sensitivity tests to explore pre- and post-divorce health patterns, and an exploratory analysis of health trajectories based on conflict levels.

## **Results**

A one-standard deviation increase in divorce conflict was associated with a significant 28% increase in medicine prescriptions, a 5% increase in primary care visits, and 13% higher odds of hospitalization in the five years following juridical divorce. Sensitivity analyses showed that these associations were robust but also varied depending on the pre-divorce health period, highlighting the importance of pre-divorce health in explaining outcomes. Exploratory analyses indicated that high-conflict divorcees had consistently elevated health trajectories across all outcomes, with a significantly steeper increase in primary care visits before divorce compared to those with average or low conflict.

## **Conclusions**

High-conflict divorcees experienced consistently worse health outcomes, including more medicine prescriptions, primary care visits, and hospitalizations, both before and after divorce. These findings stress the importance of conceptualizing divorce as a process and addressing conflict during the divorce process to mitigate long-term health consequences.

**Keywords:** Divorce Conflict, Mental Health, Healthcare usage, Longitudinal study, Divorce Stress Adjustment, High Conflict, Health Trajectories

# Introduction

## Background

Divorce is a significant life transition that can affect the physical, mental, and social well-being of those involved. While experiences vary, divorcees report heightened anxiety (Hald et al., 2022), reduced subjective well-being (Kaleta & Mróz, 2023), increased depressive symptoms (Lu et al., 2021), greater perceived stress (Strizzi et al., 2021), and higher risks of infectious diseases requiring hospitalization (Nielsen et al., 2014). More generally, they have poorer overall physical health (Pellón-Elexpuru et al., 2024), more socioeconomic challenges (Sbarra & Whisman, 2022), and increased mortality risk (Shor et al., 2012).

A key factor in these outcomes is the degree of conflict between partners (Hald et al., 2019). While most divorcees report some discord, 5–25 percent experience persistent high-conflict divorces (Ciprić et al., 2022; Hald et al., 2019). High conflict involves pervasive negative interactions and a strained, hostile, and distrustful emotional environment between ex-partners. It can worsen physical, mental, and social challenges (Amato, 2000; Amato, 2014; Hald et al., 2019; Ottosen et al., 2017) and is linked to higher symptoms of depression, stress, and anxiety (Kalmijn & Monden, 2006; Liu & Zeng-Yin, 2006; Symoens et al., 2014) and lower overall well-being (Amato, 2000; Lamela et al., 2016; Symoens et al., 2014).

To better understand how divorce and divorce conflict relate to health, the Divorce-Stress-Adjustment Perspective (DSAP) is useful (Amato, 2000; Amato, 2014). The DSAP conceptualizes divorce as a process with multiple stressors and protective factors that influence health through both selection and causation mechanisms. Stressors may already be present in the years leading up to divorce, for example shifting family dynamics or emotional distance. High conflict can intensify these stressors by creating a hostile atmosphere or can function as a stressor on its own (Booth & Amato, 2001). Low conflict may help by

preserving a more supportive environment. After divorce, new demands such as co-parenting and financial changes can extend psychological strain. High conflict may escalate these difficulties and maintain tension, whereas low conflict may support collaboration and deescalate these difficulties. Through a selection lens, people who experience high conflict may already differ in personality traits, psychological or physical vulnerabilities, or long-standing strain. Through a causation lens, conflict itself may affect psychological and physiological health pathways during the divorce process.

## Present study

Existing research has conceptualized divorce as a process and documented its association with adverse health effects. Still, important knowledge gaps remain in the literature.

First, much of the existing literature relies on non-validated measurements of divorce conflict, which limits the reliability and comparability of findings. To address this, we use the validated Divorce Conflict Scale (DCS) to provide a more precise understanding of how divorce conflict influences health outcomes and to improve the overall quality of evidence (Hald et al., 2019).

Second, most studies rely on self-report health measures. To track yearly health consequences before and after divorce, we use objective register-based data on medicine prescriptions, primary care visits, and hospitalizations (Pellón-Elexpuru et al., 2024; Reneflot et al., 2020). Healthcare use is widely used as a proxy for health in longitudinal research (Agerholm et al., 2016; Marselle et al., 2020; Meulman et al., 2023; Smith et al., 2009; Vedsted & Christensen, 2005). Short-term use may reflect adaptive help-seeking, but high or persistent use over time is associated with distress and poorer health (Smith et al., 2009; Vedsted & Christensen, 2005). To validate our outcomes, we examined their associations with depression, anxiety,

and somatization from the SCL-90-R (Derogatis & Unger, 2010), which supported their relevance.

Third, the temporal scope of most research is limited because studies often focus only on the period after juridical divorce and overlook the earlier stages of the divorce process (Amato, 2000; 2014). To better capture this process, we use longitudinal data that cover both pre- and post-divorce years, which allows us to track health trajectories across an extended time window. Ideally, we would identify exactly when the divorce process starts and ends for each couple, but this is difficult to determine, even for the individuals involved, because it may begin gradually with relational distance or emotional withdrawal. There is thus no gold standard for defining when divorce begins or ends. In this study, we therefore selected observation periods to balance data availability with the DSAP view of divorce as a process that may start years before and extend well beyond juridical divorce. Guided by this, we hypothesized that the divorce process may on average begin about two years before juridical divorce and extend up to five years after. For the main confirmatory analysis, we follow health outcomes for five years after juridical divorce while controlling for outcomes measured from five to three years before divorce. This provides a conservative estimate because it focuses on a period that clearly follows juridical divorce while excluding the years immediately before it, which may already reflect early stages of the process. To assess the robustness of this approach, we conducted two a priori sensitivity analyses that extend the control and outcome periods. Based on the descriptive results, we also carried out a post hoc exploratory analysis covering the entire ten-year window using two- and four-piece linear spline models.

Taken together, this study's main research question is whether higher levels of divorce conflict are linked with higher levels of healthcare use across the divorce process. In answering this, we address three important knowledge gaps by using validated conflict

measures, objective register-based outcomes, and a design that captures both pre- and post-divorce periods.

## **Methods**

### **Study Design**

In this observational study, we analysed a cohort of recently divorced Danes ( $n=1,784$ ) across a ten-year window covering five years before and five years after each person's juridical divorce. Respondents were recruited by email through the Danish State Administration, which handled divorce decrees at the time, as part of an RCT evaluating the digital platform SES One (Ciprić et al., 2020). Survey data were collected from January 2016 to January 2018 (Hald et al., 2020). The email included a link to an online questionnaire with the DCS, which participants completed on average within one week of their divorce, after which they were randomly assigned to SES One or no intervention. Because respondents completed the survey after their divorce date, the exact calendar years included in each person's observation window slightly differ from the survey period. This means the divorcees in the study were divorced between 2015 and 2017, although the survey took place from January 2016 to January 2018. The Danish registers provide individual-level data, so each participant contributed information from five years before to five years after their own divorce date. For example, a person who divorced in March 2017 contributed register data from March 2012 to March 2022.

SES One integrates elements from Cognitive Behavioural Therapy, Narrative Therapy, and Acceptance and Commitment Therapy and was designed to support divorcees with post-divorce challenges, co-parenting, and understanding children's reactions. It consists of 17 online modules (15–50 minutes each) that users can select freely, covering themes such as conflict management, communication with ex-partners, children's needs, and the divorcee's



mental health (see Sander et al., 2024). The RCT showed that SES One reduced self-reported depression, anxiety, stress, and sick days during the first post-divorce year (Hald et al., 2020; Sander et al., 2024).

Because randomization in the RCT was independent of conflict level, any effects of SES One were evenly distributed across conflict groups and did not confound the association examined here. We therefore included all participants in the analyses and linked de-identified social security numbers to national registers to obtain data on healthcare use and background variables.

### Ethical approval

As this study involved the analysis of pseudo-anonymized data from Danish registers, it complied with the EU General Data Protection Regulation (GDPR). In accordance with the Law of Statistics Denmark, internal review board approval or participant consent was not required. The study adhered to STROBE reporting guidelines.

### Participants

The original RCT had a sample of 1,856 individuals. During the five years post-divorce, 3.1% ( $n = 58$ ) exited the study due to migration or death. Attrition was unrelated to conflict level or background characteristics so we treat this missingness as missing completely at random. Because outcomes were modelled as cumulative counts over defined time windows, the participants remained in the sample and contributed outcome data up until the year they migrated or died. To ensure a valid and reliable measure of divorce conflict, we excluded 68 respondents who did not answer at least one item in each conflict dimension of the DCS (61 answered none; seven answered only one) and four respondents with missing income data,

resulting in a final sample of 1,784 individuals. Sensitivity analyses revealed no systematic patterns among excluded respondents.

All respondents were Danish and divorced in Denmark, which has one of the most liberal divorce laws in the world (Rosenbeck, 2017). Couples can typically separate without court involvement, and juridical divorce is granted administratively through the Agency of Family Law (prior to 2019, this was handled by the Danish State Administration). In cases involving children, parents are encouraged or required to participate in mediation before finalising co-parenting plans. This legal framework makes it relatively easy to exit a marriage. Still, prior research has shown that even in countries like Denmark, divorce stressors can lead to prolonged interparental disputes and negatively affect post-divorce well-being (Ottosen et al., 2017; Hald et al., 2019).

Table 1 shows most respondents were female (67.3%), had education above high school (62.5%), and were born to at least one parent with Danish citizenship (91.8%). The average age was 45.1 years, and average income was DKK 479,372. Marriages lasted an average of 12.7 years, with 84% of divorces initiated by one spouse alone and 36% of respondents having a new partner at the time of divorce

**Table 1.** Descriptive Statistics of the Sample on Background, Predictor, and Outcome

Variables.

<b>Background variables</b>	<b>Total</b>
	N (%)
Total	1,784(100)
Initiated divorce	
Respondent	784 (44.0)
Both	280 (15.7)
Former spouse	720 (40.4)
New partner	
Both	87 (4.8)
None	1,136 (63.7)
Respondent	185 (10.4)
Former spouse	376 (21.1)
Number of children	
0	169 (9.5)
1	287 (16.1)
2	920 (51.0)
3	253 (19.8)
4	60 (3.4)
5	4 (0.2)
6	1 (0.1)
Times divorced	
1	1,572 (88.1)
2	178 (10.0)
3	27 (1.5)
4	7 (0.4)
Danish origin <sup>a</sup>	
No	146 (8.2)
Yes	1,638 (91.8)
Educational attainment	
Short (ISCED 0-2)	125 (7.0)
Medium (ISCED 3-4)	544 (30.5)
Long (ISCED 5+)	1,115 (62.5)
Divorce month	
Jan	169 (9.5)
Feb	150 (8.4)
Mar	175 (9.8)
Apr	133 (7.5)
May	141 (7.9)
Jun	132 (7.4)
Jul	162 (9.1)
Aug	161 (9.0)
Sep	138 (7.7)
Oct	155 (8.7)
Nov	146 (8.2)
Dec	122 (6.8)

Divorce year	
2015	87 (4.9)
2016	917 (51.4)
2017	780 (43.7)
Age <sup>1</sup>	45.104 (8.541)
Child age <sup>1</sup>	13.514 (8.176)
Duration of marriage <sup>1</sup>	12.727 (7.983)
Income (in DKK) <sup>1</sup>	479,372 (325,301)

Predictor variable (min, max)	Total
	Mean (std.dev)
Conflict level	
DCS (6, 27)	13.794 (4.880)
Latent IRT variable (-2.232, 2.622)	0.000 (1.000)
Health outcomes	Total
	Mean (std.dev)
Medicine prescriptions	
Counting from 0 to +5 relative to divorce	4.881 (16.869)
Counting from -2 to +5 relative to divorce	6.302 (21.920)
Counting from -5 to -3 relative to divorce	1.254 (5.057)
Counting from -5 to -2 relative to divorce	1.929 (7.617)
Primary care visits	
Counting from 0 to +5 relative to divorce	62.854 (53.879)
Counting from -2 to +5 relative to divorce	87.725 (70.646)
Counting from -5 to -3 relative to divorce	30.308 (28.849)
Counting from -5 to -2 relative to divorce	42.465 (37.335)
Ever hospitalized (0=no, 1=yes)	
Counting from 0 to +5 relative to divorce	0.256 (0.436)
Counting from -2 to +5 relative to divorce	0.322 (0.467)
Counting from -5 to -3 relative to divorce	0.128 (0.334)
Counting from -5 to -2 relative to divorce	0.183 (0.387)

Notes: ISCED: International Standard Classification of Education.

<sup>1</sup>Age, Child age, Duration of marriage, and Income are continuous variables presented as mean (std.dev.)

<sup>a</sup>Danish origin coded as at least one parent of the respondent had Danish citizenship.

## Procedures & Measures

The institutions managing the registers compiled and organized the data. We submitted requests for specific data and merged the datasets using social security identifiers. Data requests, organization, and administration were conducted from December 2023 to August 2024, with the final dataset completed by September 2024.

Data on respondents' social security numbers, treatment status, and marriage related variables were sourced from the RCT study. Background variables, including legal gender (man/woman), age (in years), income (total pre-tax income in DKK), educational level (highest completed), migration background (Danish or non-Danish origin), and date of juridical divorce, were obtained from Statistics Denmark's Population Register, Income Register, and Labor Market Register, measured at juridical divorce.

Information on divorce conflict was sourced from responses to the DCS in the RCT study (Ciprić et al., 2020; Hald et al., 2019). The DCS identifies three interconnected dimensions to conceptualize divorce conflict (Anderson et al., 2010; Hald et al., 2019; Johnston, 1994; Ottosen et al., 2017). The domain dimension refers to the areas where disagreements occur, such as child-rearing, custody arrangements, financial matters, and emotional issues. The tactics dimension reflects the methods and strategies used to address or solve these disagreements, ranging from collaborative approaches to hostile strategies like threats or force. The attitudinal dimension captures the degree of negativity, distrust, and hostility between former spouses. The DCS consist of six items, please see Hald et al. (2019) for full details on the items and response categories.

An Item Response Theory Graded Response Model (IRT-GRM) was used to generate a standardized latent variable for divorce conflict, used as the predictor in all analyses. This approach accounted for differing scales, accommodated the ordinal nature of the six Likert-scale DCS items, and handled missing responses under the assumption that they were missing at random, consistent with the treatment of ignorable missing data in IRT models (Sulis & Porcu, 2017). Missing data primarily affected one DCS item: "My former spouse and I have no trouble talking about issues concerning our child/children," which was not administered to 49% of the sample due to technical issues in the RCT. All items showed acceptable discrimination (1.74–2.83) and threshold parameters, with high reliability (marginal

reliability=0.84). Latent scores (theta) ranged from  $-2.23$  to  $+2.62$ , with higher scores indicating greater conflict. Unidimensionality was confirmed via confirmatory factor analysis, with good fit (RMSEA=0.047, CFI=0.992, TLI=0.987, CD=0.890) and factor loadings (0.454–0.796).

Outcome variables were sourced from the Danish Patient Register, Medical Insurance Database, and Medical Prescription Database. ‘Medicine prescriptions’ included all filled prescriptions based on ATC codes N05 (psycholeptics, including antipsychotics, anxiolytics, hypnotics, and sedatives) and N06A (antidepressants). N06C (psycholeptics and psychoanaleptics in combination) was excluded, as it is not used in Denmark. ‘Primary care visits’ included all billed consultations with publicly funded general practitioners, specialist practitioners, and psychologists. ‘Hospitalizations’ was measured as a binary variable indicating whether an individual spent at least one night in the hospital.

To assess the validity of the health outcomes as proxies for health status, we examined their associations with standardized scores on the depression, anxiety, and somatization subscales of the SCL-90-R, measured at the time of juridical divorce. As shown in Supplementary Table 1, a one-standard-deviation increase in depression was associated with 42.4% more medicine prescriptions and 15.7% more primary care visits; anxiety with 57.2% more prescriptions and 18.5% more visits; and somatization with 47.9% more prescriptions, 22.1% more visits, and 25.5% higher odds of hospitalization. These results indicate that the outcomes are strongly linked to validated measures of self-perceived health and therefore interpret them as valid proxies for health status.

## Statistical methods

Analyses were conducted using Stata/MP 18.0 (StataCorp., 2023). Two-tailed tests were used, with  $\alpha = .05$  considered statistically significant.

To examine associations between divorce conflict and the count outcomes (medicine prescriptions and primary care visits), we used separate negative binomial regression models. Additional models were run for the individual variables of each index (psycholeptics, antidepressants; general practitioners, specialists, psychologists) to assess differential associations. All models had log-dispersion parameters significantly above zero, confirming overdispersion and the appropriateness of negative binomial regression. Results are presented as Incidence Rate Ratios (IRRs) with corresponding confidence intervals and p-values.

To examine the association between divorce conflict and hospitalizations, we used logistic regression. This method was chosen over negative binomial regression due to the high number of zeros in the data, with 77% of respondents not hospitalized during the five years after juridical divorce. Results are presented as odds ratios with corresponding confidence intervals and p-values.

Because divorce is a process and the onset of divorce-related stressors varies across individuals, it is uncertain when changes in health begin, meaning that estimated associations may differ depending on how the pre- and post-divorce windows are defined. To address this uncertainty and control for confounding by prior health status, we conducted a confirmatory a priori main analysis addressing the primary research question, along with two a priori decided sensitivity analyses to test robustness. After reviewing descriptive plots of observed yearly means, we also carried out post hoc exploratory analyses of health trajectories.

Relative to juridical divorce, the main analysis counted outcomes from year 0 to +5, controlling for years -5 to -3; Sensitivity Analysis 1 used the same outcome period but controlled for years -5 to -2; and Sensitivity Analysis 2 counted outcomes from year -2 to +5, controlling for years -5 to -3. If the results change across these analyses, it will indicate

that timing uncertainty affects how the findings should be interpreted. It would also suggest that the conclusions depend heavily on how we choose to define the ‘divorce window’.

To further examine the association between divorce conflict and health outcomes, we predicted marginal effects of the continuous conflict variable at 0.5-SD increments. Predicted values were obtained using average marginal predictions from Stata’s margins command, which fixes the conflict variable at specified values while averaging predicted outcomes over the observed distribution of all other covariates. To improve interpretability for medicine prescriptions, control variables for prior medicine use were log-transformed (with +1 added to handle zeros). This stabilized the models and resolved issues with inflated margins due to outliers. The transformation did not affect predictor coefficients, p-values, or the overall interpretation.

We also explored health trajectories over the ten-year period by plotting observed mean values for three conflict groups: low ( $< -1$  SD), average ( $-1$  to  $+1$  SD), and high ( $> +1$  SD) on the standardized IRT conflict variable. Conflict was analysed as a continuous variable in all other models; the low, average, and high conflict groups are used only to aid interpretation in the exploratory analysis. Given the standardization, about 16% of the sample fell into each of the low- and high-conflict groups, and 68% into the average group, consistent with prior research on high-conflict prevalence (Ciprić et al., 2022; Hald et al., 2019). To further examine potential linear or curvilinear trends, we estimated two-piece linear spline models (pre/post-divorce) and four-piece models with breakpoints at  $-2$  and  $+2$  years (Wright & London, 2009). Predicted values were plotted alongside observed means. Spline models used negative binomial regression for prescriptions and primary care visits, and logistic regression for hospitalizations.



Finally, in all models we tested an interaction between intervention assignment and divorce conflict. It was not significant in any model and did not improve model fit, so it was not included.

## Results

Conflict was analysed as a continuous variable in the main and sensitivity analyses. We present average marginal predictions based on the continuous conflict variable from the fully adjusted model, with all other covariates set to their mean value. For the main interpretation of our results, we focus on the average marginal predictions at  $\pm 1$  SD from the mean of the conflict variable. In the exploratory analyses, conflict was instead analysed as a categorical variable. The categories “low conflict” ( $< -1$  SD), “average conflict” ( $-1$  to  $+1$  SD), and “high conflict” ( $> +1$  SD) are derived from the continuous conflict variable.

**Main analysis: Health outcomes from divorce to five years after, controlling for outcomes from five to three years before**

Higher divorce conflict was significantly associated with increased medicine prescriptions in the five years post-divorce (Table 2: IRR=1.275, 95% CI: 1.106–1.469,  $p=0.001$ ), with a one-standard-deviation increase in conflict corresponding to a 27.5% higher expected count of prescriptions. Respondents at  $+1$  SD had about three more average marginal predicted prescriptions than those at  $-1$  SD ( $-1$  SD=5.05;  $+1$  SD=8.21, Figure 1). This effect was primarily driven by psycholeptics (Supplementary Table 3: IRR=1.572, 95% CI: 1.308–1.889,  $p<0.001$ ), with a non-significant association for antidepressants.

Divorce conflict was also positively associated with primary care visits in the five years post-divorce (Table 2: IRR=1.045, 95% CI: 1.003–1.088,  $p=0.034$ ), with a one-standard-deviation increase in conflict corresponding to a 4.5% increase in expected visits. Respondents at  $+1$ SD

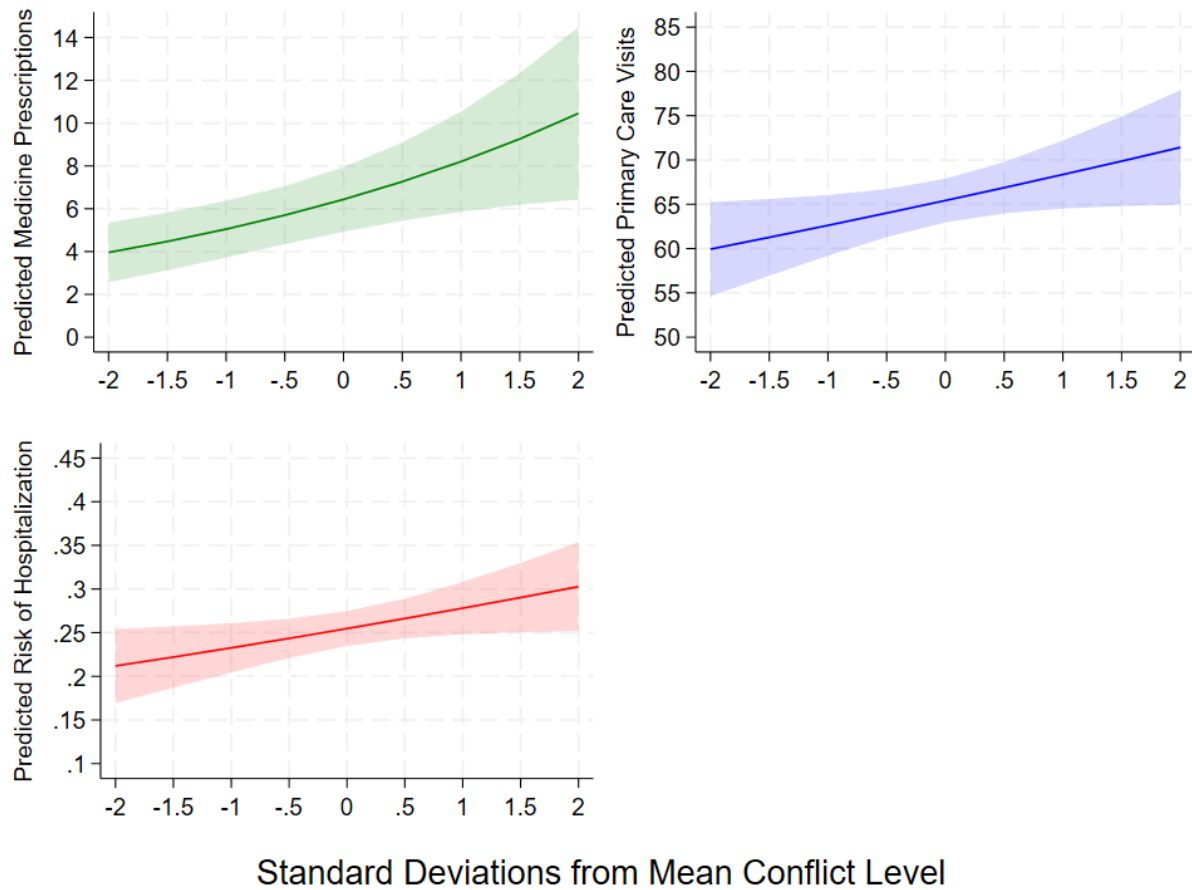
had approximately six more average marginal predicted visits than those at  $-1$ SD ( $-1$ SD=62.63;  $+1$ SD=68.36, Figure 1). This was mainly driven by psychologist visits (Supplementary Table 3: IRR=1.237, 95% CI: 1.068–1.434,  $p=0.005$ ), with non-significant associations for GP and specialist visits.

Finally, higher conflict was associated with increased odds of hospitalization (Table 2: OR=1.131, 95% CI: 1.009–1.269,  $p=0.035$ ), with a one-standard-deviation increase in divorce conflict corresponding to a 13.1% increase in hospitalization odds. Respondents at  $+1$ SD had a 5-percentage-point higher average marginal predicted probability of hospitalization than those at  $-1$ SD in the five years post-divorce ( $-1$ SD=0.23;  $+1$ SD=0.28, Figure 1).

**Table 2.** Divorce Conflict's Association with Medicine Prescriptions, Primary Care Visits, and Hospitalizations from Divorce to Five Years After, Controlling for Outcomes from Five to Three Years Before Divorce (N=1,784).

Health Outcome	IRR/OR	95% CI	P value
<b>Medicine prescriptions (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.275	1.106 to 1.469	0.001
Medicine prescriptions (years -5 to -3)	3.225	2.824 to 3.683	<0.001
<b>Primary care visits (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.045	1.003 to 1.088	0.034
Primary care visits (years -5 to -3)	1.014	1.012 to 1.015	<0.001
<b>Ever hospitalized (years 0 to 5)</b>	<i>OR</i>		
Conflict level	1.131	1.009 to 1.269	0.035
Ever hospitalized (years -5 to -3)	2.436	1.813 to 3.273	<0.001

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. All coefficients from the full models are provided in Supplementary Table 2 and models for the individual variables of each index are provided in Supplementary Table 3. Medicine prescriptions and primary care visits were analysed using negative binomial regression, with exponentiated coefficients reported as incidence rate ratios (IRRs). Hospitalizations (binary outcome) were analysed using logistic regression, with exponentiated coefficients reported as odds ratios (ORs). Medicine prescriptions (years  $-5$  to  $-3$ ) were log-transformed.



**Figure 1.** Average Marginal Predicted Medicine Prescriptions, Primary Care Visits, and Hospitalizations by Conflict Level, with 95% Confidence Intervals (N = 1,784). Average Marginal Predicted Values for the Individual Variables of Each Index are Provided in Supplementary Figure 1. Predicted Margins Were Calculated for the Continuous Conflict Variable at 0.5-SD Increments from -2 to 2, with Confidence Intervals Reflecting These Discrete Prediction Points.

# Sensitivity analysis 1: Health outcomes from divorce to five years after, controlling for outcomes from five to two years before

When controlling for outcomes up to two years before juridical divorce, higher divorce conflict remained significantly associated with increased medicine prescriptions (Table 3: IRR=1.193, 95% CI: 1.037–1.373,  $p=0.014$ ) and hospitalization (OR=1.126, 95% CI: 1.003–1.265,  $p=0.045$ ) in the five years post-divorce. However, these associations were weaker than in the main analysis, with IRR and OR values reduced by 0.082 and 0.005, respectively. More notably, the association with primary care visits (IRR=1.035, 95% CI: 0.996–1.075,  $p=0.075$ ) was just short of the predefined significance threshold ( $p<0.05$ ).

**Table 3.** Divorce Conflict's Association with Medicine Prescriptions, Primary Care Visits, and Hospitalizations from Divorce to Five Years After, Controlling for Outcomes from Five to Two Years Before Divorce (N=1,784).

Health Outcome	IRR/OR	95% CI	P value
<b>Medicine prescriptions (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.193	1.037 to 1.373	0.014
Medicine prescriptions (years -5 to -2)	3.008	2.704 to 3.347	<0.001
<b>Primary care visits (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.035	0.996 to 1.075	0.075
Primary care visits (years -5 to -2)	1.012	1.011 to 1.013	<0.001
<b>Ever hospitalized (years 0 to 5)</b>	<i>OR</i>		
Conflict level	1.126	1.003 to 1.265	0.045
Ever hospitalized (years -5 to -2)	2.681	2.066 to 3.478	<0.001

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. All coefficients from the full models are provided in Supplementary Table 4 and models for the individual variables of each index are provided in Supplementary Table 5. Medicine prescriptions and primary care visits were analysed using negative binomial regression, with exponentiated coefficients reported as incidence rate ratios (IRRs). Hospitalizations (binary outcome) were analysed using logistic regression, with exponentiated coefficients reported as odds ratios (ORs). Medicine prescriptions (years –5 to –2) were log-transformed.

## Sensitivity analysis 2: Health outcomes from two years before divorce to five years after, controlling for outcomes from five to three years before

When counting health outcomes from two years before to five years after juridical divorce, higher divorce conflict was significantly associated with increased prescriptions (Table 4: IRR=1.271, 95% CI: 1.105–1.462,  $p=0.001$ ), with an IRR nearly identical to the main analysis (0.004 lower). The association with primary care visits was also significant (IRR=1.039, 95% CI: 1.003–1.076,  $p=0.033$ ), differing only slightly from the main analysis (0.006 lower IRR). Conflict was also significantly associated with hospitalization (OR=1.173, 95% CI: 1.055–1.304,  $p=0.003$ ), with a notably stronger effect than in the main analysis (0.042 higher OR).

**Table 4.** Divorce Conflict's Association with Medicine Prescriptions, Primary Care Visits, and Hospitalizations from Two Years Before Divorce to Five Years After, Controlling for Outcomes from Five to Three Years Before Divorce (N=1,784).

Health Outcome	IRR/OR	95% CI	<i>P</i> value
<b>Medicine prescriptions (years -2 to 5)</b>	<i>IRR</i>		
Conflict level	1.271	1.105 to 1.462	0.001
Medicine prescriptions (years -5 to -3)	3.503	3.086 to 3.976	<0.001
<b>Primary care visits (years -2 to 5)</b>	<i>IRR</i>		
Conflict level	1.039	1.003 to 1.076	0.033
Primary care visits (years -5 to -3)	1.014	1.013 to 1.016	<0.001
<b>Ever hospitalized (years -2 to 5)</b>	<i>OR</i>		
Conflict level	1,173	1.055 to 1.304	0.003
Ever hospitalized (years -5 to -3)	2.239	1.672 to 2.997	<0.001

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. All coefficients from the full models are provided in Supplementary Table 6 and models for the individual variables of each index are provided in Supplementary Table 7. Medicine prescriptions and primary care visits were analysed using negative binomial regression, with exponentiated coefficients reported as incidence rate ratios (IRRs). Hospitalizations (binary outcome) were analysed using logistic regression, with exponentiated coefficients reported as odds ratios (ORs). Medicine prescriptions (years –5 to –3) were log-transformed.

## Explorative analysis: Health trajectories by divorce conflict level

Medicine prescriptions increased significantly before divorce in the low-conflict group (Table 5: IRR=1.195, 95% CI: 1.059–1.349,  $p=0.004$ ) and leveled off afterward (Table 5: IRR=0.980, 95% CI: 0.886–1.083,  $p=0.687$ ). High conflict was associated with substantially higher overall prescription levels (Table 5: IRR=1.953, 95% CI: 1.299–2.936,  $p=0.001$ ), but the rate of change before and after divorce did not differ by conflict level, suggesting parallel health trajectories at different levels, as shown in Figure 2. Supplementary Figure 2 shows larger pre-divorce differences in antidepressants and larger post-divorce differences in psycholeptics between conflict levels, though these were not reflected in differing rates of change (Supplementary Table 8).

For primary care visits, levels were stable before divorce in the low-conflict group, followed by a significant decline post-divorce (Table 5: IRR=0.892, 95% CI: 0.867–0.918,  $p<0.001$ ), likely reflecting reduced use during the COVID-19 pandemic in years 4 and 5. The high-conflict group had a higher overall level of visits (Table 5: IRR=1.250, 95% CI: 1.116–1.399,  $p<0.001$ ) and a steeper pre-divorce increase (Table 5: IRR=1.048, 95% CI: 1.003–1.095,  $p=0.037$ ), suggesting an escalation in visits leading up to divorce, as evidenced by Figure 2. Supplementary Figure 2 shows this pattern was consistent across all variables. Supplementary Table 8 indicates some pre-divorce slope differences, especially for psychologist visits, but none were statistically significant.

For hospitalization, patterns were erratic, and no significant associations with conflict level were found in any model term. Pre- and post-divorce slopes were non-significant across all groups, and differences in overall levels did not reach significance. This suggests that, unlike prescriptions and primary care visits, hospitalization odds were not meaningfully influenced by divorce conflict in the two-piece spline model.

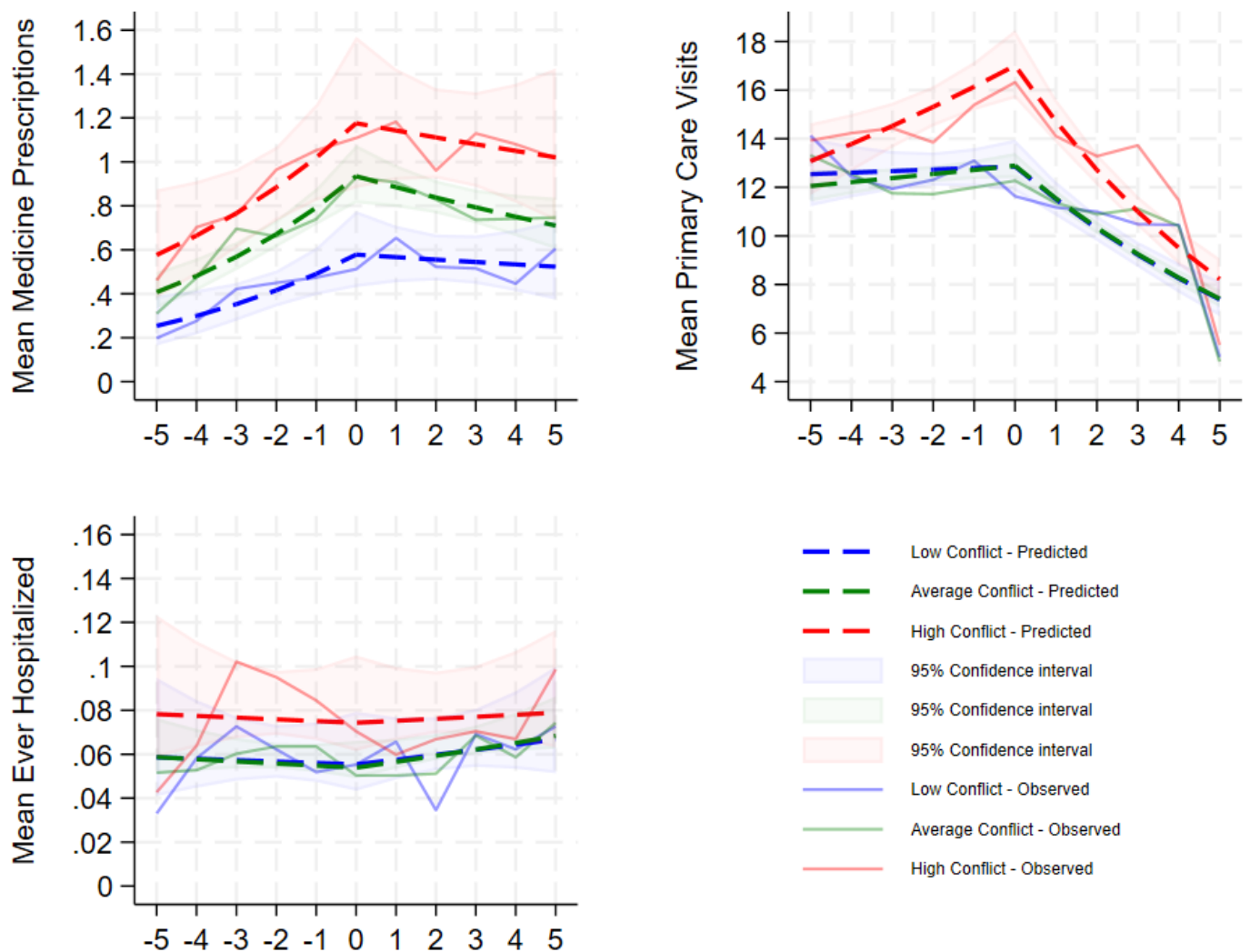
Lastly, we tested four-piece linear spline models with breakpoints at  $-2$  and  $+2$  years relative to juridical divorce to explore finer patterns in health trajectories. Results (Supplementary Figures 3 and 4) were similar to the two-piece models but indicated a potential breakpoint around two years pre-divorce, particularly for primary care visits. However, increased multicollinearity between slope terms led to less stable estimates, and the added complexity did not appear to improve explanatory value. We therefore do not consider the four-piece models an improvement over the two-piece models.

**Table 5.** Divorce Conflict’s Association with Medicine Prescriptions, Primary Care Visits, and Hospitalizations, Modelled Using Interactions Between Conflict Level and Two-Piece Linear Splines for Time Before and After Divorce (N = 1,784).

	Medicine prescriptions IRR (CI 95%), p-value	Primary care visits IRR (CI 95%), p-value	Hospitalizations OR (CI 95%), p-value
<b>Conflict level main effect</b>			
Average conflict vs. low conflict	<b>1.560 (1.130 to 2.155), p=0.007</b>	0.988 (0.894 to 1.067), p=0.605	0.969 (0.692 to 1.358), p=0.856
High conflict vs. low conflict	<b>1.953 (1.299 to 2.936), p=0.001</b>	<b>1.250 (1.116 to 1.399), p&lt;0.001</b>	1.317 (0.878 to 1.977), p=0.183
<b>Pre-divorce slope for low conflict</b>	<b>1.195 (1.059 to 1.349), p=0.004</b>	1.007 (0.976 to 1.039), p=0.662	0.988 (0.876 to 1.113), p=0.837
<b>Post-divorce slope for low conflict</b>	0.980 (0.886 to 1.083), p=0.687	<b>0.892 (0.867 to 0.918), p&lt;0.001</b>	1.041 (0.939 to 1.154), p=0.445
<b>Conflict level x pre-divorce slope</b>			
Average conflict vs. low conflict	0.992 (0.868 to 1.133), p=0.900	1.008 (0.973 to 1.043), p=0.671	0.994 (0.870 to 1.135), p=0.924
High conflict vs. low conflict	0.941 (0.796 to 1.112), p=0.475	<b>1.048 (1.003 to 1.095), p=0.037</b>	1.002 (0.854 to 1.176), p=0.979
<b>Conflict level x post-divorce slope</b>			
Average conflict vs. low conflict	0.973 (0.871 to 1.088), p=0.636	0.998 (0.967 to 1.031), p=0.904	1.011 (0.901 to 1.133), p=0.853
High conflict vs. low conflict	0.989 (0.859 to 1.138), p=0.878	0.966 (0.928 to 1.007), p=0.101	0.973 (0.847 to 1.118), p=0.700

Notes: p<0.05 highlighted in bold. “x” denotes an interaction term that reflects whether the slope for each time segment differs by conflict level compared to the low conflict group. All presented coefficients are estimates from the full models adjusted for divorce initiator, age, gender, income, and education. Models for the individual variables of each index are provided in Supplementary Table 8. Medicine prescriptions and primary care visits were analyzed using negative binomial regression with exponentiated coefficients reported as Incidence Rate Ratios (IRRs); hospitalizations (binary outcome) were analyzed using logistic regression with exponentiated coefficients reported as Odds Ratios (ORs). All models include interactions between conflict level (low, average, high) and two-piece linear spline time variables (pre-divorce and post-divorce slopes).





## Years Relative to Divorce

**Figure 2.** Yearly Predicted and Observed Means of Medicine Prescriptions, Primary Care Visits, and (Binary) Hospitalizations by Conflict Group (N = 1,784). Yearly Predicted and Observed Means of the Individual Variables of Each Index are Provided in Supplementary Figure 2. Predicted Values Are Based on Two-Piece Linear Spline Models with Separate Slopes Before and After Juridical Divorce (Year 0).

## Discussion

### Principal findings

This study shows a clear and persistent association between divorce conflict and divorcees' health. Higher conflict was linked to worse outcomes across all measures. In line with the DSAP (see Introduction), the results support the idea of 'divorce as a process' that often starts years before the actual break-up itself rather than 'divorce as a discrete event' such as the juridical divorce.

A one-standard-deviation increase in divorce conflict was linked to 28% more medicine prescriptions, 5% more primary care visits, and 13% higher odds of hospitalization in the five years after juridical divorce. Sensitivity analysis 1 shows that part of the association may be explained by the period from three to two years before divorce. Sensitivity analysis 2 shows that associations with medicine prescriptions and primary care visits were similar before and after divorce, while the association with hospitalizations was stronger pre-divorce. Exploratory analyses suggest that high-conflict divorcees had consistently elevated health trajectories, with a steeper rise in primary care visits before divorce and otherwise similar trajectories as low or average conflict.

### Patterns and mechanisms linking divorce conflict and health outcomes

The patterns of medicine prescriptions showed that across all conflict groups, prescriptions increased leading up to the juridical divorce and then stabilized. However, low-conflict divorcees consistently had fewer prescriptions and high-conflict divorcees consistently had

more. The pre-divorce differences in medicine prescriptions among low-, average-, and high-conflict groups appeared to be driven by higher pre-divorce use of antidepressants, whereas post-divorce differences appeared more driven by psycholeptics. Depressive symptoms have been linked to escalating conflict before divorce (Hald et al., 2019; Kalmijn & Monden, 2006), explaining the pre-divorce pattern in antidepressants. In contrast, the stress persisting after high-conflict divorces (Cummings & Davies, 1996; Reneflot et al., 2020) may lead to sleep difficulties and anxiety, explaining the pattern in psycholeptics. This interpretation is supported by the main analysis and both sensitivity analyses, where conflict level was significantly associated with increased psycholeptics use in the five years after divorce but not antidepressants. This pattern suggests that antidepressants may reflect a selection process, identifying individuals already at risk of high-conflict divorces, whereas psycholeptics align more with the causation perspective (Amato, 2000).

The patterns of primary care visits showed that although visit rates were relatively stable in the years leading up to divorce, they rose sharply from two years before the juridical divorce through the divorce year itself, particularly among individuals in the high-conflict group. Understanding divorce as a process that begins before juridical divorce, this rise may reflect a causation perspective. High conflict may exacerbate psychological distress and prompt increased help-seeking during a period of acute stress and adjustment (Lamela et al., 2016; Symoens et al., 2014). In the main analysis, divorce conflict was significantly associated with increased post-divorce visits, particularly to psychologists; this association held in sensitivity analysis 2 but not in sensitivity analysis 1. This suggests that the timing and level of conflict contribute to increased primary care visits, consistent with a causation perspective. The gradual decline in visit rates across all conflict groups post-divorce also suggests some stabilization over time, with convergence by the end of the five-year period. However, this was likely accelerated by the COVID-19 pandemic, during which non-acute GP consultations

were largely suspended and many Danes reduced or delayed healthcare-seeking due to lockdowns and infection concerns (Olagnier & Mogensen, 2020; Raasthøj Holst et al., 2025).

The patterns of hospitalization were relatively stable across the ten-year period, with no significant upward or downward predicted slopes leading up to or following judicial divorce across conflict groups. Nevertheless, the odds of hospitalization increased with conflict level, with the high-conflict group showing the highest odds. Differences were most pronounced in the pre-divorce years, whereas post-divorce patterns were less clear. In the main analysis, divorce conflict was significantly associated with increased odds of hospitalization. This association remained significant in both sensitivity analyses, although it was substantially stronger in sensitivity analysis 2. This suggests that hospitalizations may reflect a selection process, where individuals experiencing being hospitalized before divorce are also more likely to go through high-conflict divorce. At the same time, the lack of a consistent post-divorce increase makes a strong causation explanation less likely.

## Practical implications

The observed rise in primary care visits and prescriptions in the years before juridical divorce, especially among high-conflict divorcees, suggests that the primary healthcare workforce could screen patients who present with stress-related symptoms for relationship strain or conflict. Simple brief screeners on relationship quality may help identify those experiencing high conflict and enable earlier referral to mediation, co-parenting counselling, and digital health platforms (Becher et al., 2015; O'Hara et al., 2024; Turner et al., 2021). More broadly, because high-conflict divorcees showed persistently elevated health trajectories across the full ten-year period, initiatives to improve interprofessional collaboration within primary care (Hald et al., 2021) and coordination across sectors such as primary care and social care (Kristensen et al., 2019) would also be essential to secure

continuity of support for these at-risk individuals. Importantly, whether it is a new screening tool or way to collaborate, it is essential to involve the stakeholders who are expected to implement these initiatives, as their involvement helps surface tensions that can hinder uptake (Hald et al., 2025) and makes it easier to identify the key conditions for success (Hald et al., 2024).

## Limitations & Future research

First, while medicine prescriptions, primary care visits, and hospitalizations provide objective, longitudinal health indicators, they may also partly reflect short-term help-seeking that supports recovery. Future research may consider more direct measures such as repeated self-ratings or biomarkers, or longer-term indicators such as sick leave, disability benefits, or mortality.

Second, register data strengthens reliability but does not capture the lived experience of divorce conflict. Qualitative research such as interview studies could help clarify how people understand and manage conflict and how this shapes health status, offering insight into coping strategies and the social and emotional consequences of conflict.

Third, we could not definitively determine where each couple was in the divorce process. We addressed this with sensitivity and exploratory analyses across multiple periods, but any defined period remains a proxy.

Fourth, we used the DCS as a complete scale to measure divorce conflict. It is possible that the domain, tactics, and attitudinal components relate differently to health outcomes. Future research could examine these dimensions separately or compare results using alternative divorce conflict measures to assess robustness.

Fifth, we adjusted for prior healthcare use, demographics, socioeconomic status, and divorce initiation, but residual confounding likely remains. Unmeasured factors such as personality or

social factors like the presence and age of children, family estrangement, or parental alienation, may influence both conflict and health. These factors are closely intertwined with the divorce process and were therefore not included as control variables, but they remain important contextual elements that future studies designed to separate them more clearly from divorce conflict could explore. We also lacked data on the former spouse's gender, although same-sex marriages made up only 1.7% of our sample, limiting meaningful subgroup analysis.

Sixth, the sample was drawn from a Danish population, which may limit generalizability. Denmark's universal healthcare, liberal divorce laws, and general acceptance of divorce may buffer the health impact of conflict (Birk et al., 2024). In settings with less healthcare access or different cultural norms, the effects may differ, as stigma and social expectations affect both the experience of conflict and its health consequences. Cross-cultural studies could help clarify how legal, social, and cultural factors influence this association.

Finally, the COVID-19 pandemic likely affected healthcare use in the later years of our observation window. Denmark's early lockdowns and rapid reorganization of healthcare services changed access to primary care and led many Danes to delay or avoid seeking care (Olagnier & Mogensen, 2020; Raasthøj Holst et al., 2025). Divorce filings also declined to their lowest level in five years (Fallesen, 2021). These factors suggest that the decline in primary care visits in years four and five post-divorce likely reflects pandemic related disruptions.

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**Suppl. Table 1.** Associations Between Self-Rated Somatization, Depression, and Anxiety (SCL-90-R Subscales) and Medicine Prescriptions, Primary Care Visits, and Hospitalizations at the Year of Juridical Divorce (N=1,740)

Self-rated measure (standardized)	Medicine prescriptions IRR (CI 95%)	Primary care visits IRR (CI 95%)	Hospitalizations OR (CI 95%)
Depression	1.424** (1.205 to 1.683)	1.157** (1.103 to 1.214)	1.219 (0.984 to 1.510)
Anxiety	1.572** (1.343 to 1.840)	1.185** (1.132 to 1.240)	1.119 (0.915 to 1.368)
Somatization	1.479** (1.281 to 1.707)	1.221** (1.169 to 1.276)	1.255* (1.041 to 1.514)

Notes: \* $p < 0.05$  \*\*  $p < 0.01$ . All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. The somatization, depression, and anxiety subscales were standardized before analyses. Medicine prescriptions and primary care visits were analysed using negative binomial regression with exponentiated coefficients reported as Incidence Rate Ratios (IRRs); hospitalizations (binary outcome) were analysed using logistic regression with exponentiated coefficients reported as Odds Ratios (ORs).

**Suppl. Table 2.** Divorce conflict's association with medicine prescriptions, primary care visits, and hospitalizations from divorce to five years after, controlling for outcomes from five to three years before divorce ( $N=1,784$ ).

Health Outcome	IRR/OR	95% CI	<i>P</i> value
<b>Medicine prescriptions (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.275	1.106 to 1.469	0.001
Medicine prescriptions (years -5 to -3)	3.225	2.824 to 3.683	<0.001
Divorce initiator (ref: respondent)			
Both	1.178	0.711 to 1.952	0.524
Former spouse	1.352	0.980 to 1.863	0.066
Age	1.016	0.998 to 1.035	0.081
Gender	1.028	0.725 to 1.457	0.878
Income	0.999	0.999 to 0.999	<0.001
Education	1.001	0.824 to 1.214	0.995
<b>Primary care visits (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.045	1.003 to 1.088	0.034
Primary care visits (years -5 to -3)	1.014	1.012 to 1.015	<0.001
Divorce initiator (ref: respondent)			
Both	1.014	0.916 to 1.124	0.784
Former spouse	0.942	0.875 to 1.014	0.113
Age	1.004	0.997 to 1.010	0.248
Gender	1.476	1.364 to 1.597	<0.001
Income	0.999	0.999 to 1.000	0.015
Education	0.961	0.916 to 1.007	0.095
<b>Ever hospitalized (years 0 to 5)</b>	<i>OR</i>		
Conflict level	1.131	1.009 to 1.269	0.035
Ever hospitalized (years -5 to -3)	2.436	1.813 to 3.273	<0.001
Divorce initiator (ref: respondent)			
Both	0.942	0.680 to 1.305	0.722
Former spouse	0.808	0.634 to 1.030	0.085
Age	1.009	0.996 to 1.023	0.186
Gender	1.167	0.914 to 1.489	0.215
Income	0.999	0.999 to 1.000	0.604
Education	0.850	0.731 to 0.987	0.033

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. Medicine prescriptions and primary care visits were analysed using negative binomial regression, with exponentiated coefficients reported as incidence rate ratios (IRRs). Hospitalizations (binary outcome) were analysed using logistic regression, with exponentiated coefficients reported as odds ratios (ORs). Medicine prescriptions (years -5 to -3) were log-transformed.

**Suppl. Table 3.** Divorce Conflict's Association with Psycholeptics, Antidepressants, GP Visits, Specialist Visits, and Psychologist Visits from Divorce to Five Years After, Controlling for Outcomes from Five to Three Years Before Divorce (N=1,784)

Health outcome	IRR	95% CI	<i>P</i> value
<b>Psycholeptics (years 0 to 5)</b>			
Conflict level	1.572	1.308 to 1.889	<0.001
Psycholeptics (years -5 to -3)	5.020	3.710 to 6.793	<0.001
<b>Antidepressants (years 0 to 5)</b>			
Conflict level	1.116	0.934 to 1.333	0.227
Antidepressant (years -5 to -3)	3.818	3.202 to 4.553	<0.001
<b>GP visits (years 0 to 5)</b>			
Conflict level	1.040	0.996 to 1.086	0.074
GP visits (years -5 to -3)	1.016	1.014 to 1.018	<0.001
<b>Specialist visits (years 0 to 5)</b>			
Conflict level	1.044	0.964 to 1.130	0.290
Specialist visits (years -5 to -3)	1.052	1.041 to 1.064	<0.001
<b>Psychologist visits (years 0 to 5)</b>			
Conflict level	1.237	1.068 to 1.434	0.005
Psychologist visits (years -5 to -3)	1.107	1.064 to 1.152	<0.001

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. All models are analysed with negative binomial regression, with exponentiated coefficients as Incidence Rate Ratios (IRRs). Psycholeptics (years -5 to -3) and Antidepressant (years -5 to -3) have been logarithmically transformed

**Suppl. Table 4.** Divorce conflict's association with medicine prescriptions, primary care visits, and hospitalizations from divorce to five years after, controlling for outcomes from five to three years before divorce ( $N=1,784$ ).

Health Outcome	IRR/OR	95% CI	P value
<b>Medicine prescriptions (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.193	1.037 to 1.373	0.014
Medicine prescriptions (years -5 to -2)	3.008	2.704 to 3.347	<0.001
Divorce initiator (ref: respondent)			
Both	1.073	0.673 to 1.709	0.767
Former spouse	1.415	1.016 to 1.971	0.040
Age	1.012	0.995 to 1.029	0.157
Gender	1.097	0.782 to 1.539	0.594
Income	0.999	0.998 to 0.999	<0.001
Education	0.973	0.794 to 1.193	0.795
<b>Primary care visits (years 0 to 5)</b>	<i>IRR</i>		
Conflict level	1.035	0.996 to 1.075	0.075
Primary care visits (years -5 to -2)	1.012	1.011 to 1.013	<0.001
Divorce initiator (ref: respondent)			
Both	1.017	0.920 to 1.122	0.750
Former spouse	0.961	0.897 to 1.029	0.252
Age	1.002	0.996 to 1.008	0.553
Gender	1.438	1.333 to 1.550	<0.001
Income	0.999	0.999 to 1.000	0.019
Education	0.963	0.921 to 1.006	0.092
<b>Ever hospitalized (years 0 to 5)</b>	<i>OR</i>		
Conflict level	1.126	1.003 to 1.265	0.045
Ever hospitalized (years -5 to -2)	2.681	2.066 to 3.478	<0.001
Divorce initiator (ref: respondent)			
Both	0.950	0.684 to 1.319	0.759
Former spouse	0.804	0.630 to 1.026	0.080
Age	1.010	0.997 to 1.024	0.135
Gender	1.135	0.887 to 1.451	0.314
Income	1.000	0.999 to 1.000	0.586
Education	0.867	0.741 to 1.001	0.051

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. Medicine prescriptions and primary care visits were analysed using negative binomial regression, with exponentiated coefficients reported as incidence rate ratios (IRRs). Hospitalizations (binary outcome) were analysed using logistic regression, with exponentiated coefficients reported as odds ratios (ORs). Medicine prescriptions (years -5 to -2) were log-transformed.

**Suppl. Table 5.** Divorce Conflict's Association with Psycholeptics, Antidepressants, GP Visits, Specialist Visits, and Psychologist Visits from Divorce to Five Years After, Controlling for Outcomes from Five to Two Years Before Divorce (N=1,784)

Health outcome	IRR	95% CI	<i>P</i> value
<b>Psycholeptics (years 0 to 5)</b>			
Conflict level	1.450	1.194 to 1.762	<0.001
Psycholeptics (years -5 to -2)	4.157	3.381 to 5.110	<0.001
<b>Antidepressants (years 0 to 5)</b>			
Conflict level	1.056	0.869 to 1.284	0.584
Antidepressant (years -5 to -2)	3.407	2.962 to 3.919	<0.001
<b>GP visits (years 0 to 5)</b>			
Conflict level	1.032	0.991 to 1.074	0.127
GP visits (years -5 to -2)	1.014	1.012 to 1.015	<0.001
<b>Specialist visits (years 0 to 5)</b>			
Conflict level	1.039	0.961 to 1.124	0.333
Specialist visits (years -5 to -2)	1.046	1.038 to 1.054	<0.001
<b>Psychologist visits (years 0 to 5)</b>			
Conflict level	1.230	1.064 to 1.422	0.005
Psychologist visits (years -5 to -2)	1.119	1.078 to 1.161	<0.001

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. All models are analysed with negative binomial regression, with exponentiated coefficients as Incidence Rate Ratios (IRRs). Psycholeptics (years -5 to -2) and Antidepressant (years -5 to -2) have been logarithmically transformed.



**Suppl. Table 6.** Divorce conflict's association with medicine prescriptions, primary care visits, and hospitalizations from divorce to five years after, controlling for outcomes from five to three years before divorce ( $N=1,784$ ).

Health Outcome	IRR/OR	95% CI	P value
<b>Medicine prescriptions (years -2 to 5)</b>	<i>IRR</i>		
Conflict level	1.271	1.105 to 1.462	0.001
Medicine prescriptions (years -5 to -3)	3.503	3.086 to 3.976	<0.001
Divorce initiator (ref: respondent)			
Both	1.291	0.793 to 2.100	0.305
Former spouse	1.348	0.988 to 1.838	0.060
Age	1.017	0.999 to 1.035	0.072
Gender	1.024	0.733 to 1.433	0.888
Income	0.999	0.999 to 1.000	<0.001
Education	0.996	0.822 to 1.193	0.920
<b>Primary care visits (years -2 to 5)</b>	<i>IRR</i>		
Conflict level	1.039	1.003 to 1.076	0.033
Primary care visits (years -5 to -3)	1.014	1.013 to 1.016	<0.001
Divorce initiator (ref: respondent)			
Both	0.999	0.912 to 1.093	0.979
Former spouse	0.942	0.882 to 1.007	0.079
Age	1.004	0.999 to 1.010	0.140
Gender	1.417	1.321 to 1.520	<0.001
Income	1.000	0.999 to 1.000	0.011
Education	0.967	0.928 to 1.009	0.114
<b>Ever hospitalized (years -2 to 5)</b>	<i>OR</i>		
Conflict level	1,173	1.055 to 1.304	0.003
Ever hospitalized (years -5 to -3)	2.239	1.672 to 2.997	<0.001
Divorce initiator (ref: respondent)			
Both	0.970	0.717 to 1.314	0.845
Former spouse	0.789	0.629 to 0.996	0.041
Age	0.997	0.984 to 1.010	0.619
Gender	1.290	1.028 to 1.619	0.028
Income	1.000	0.999 to 1.000	0.633
Education	0.794	0.690 to 0.912	0.001

Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. Medicine prescriptions and primary care visits were analysed using negative binomial regression, with exponentiated coefficients reported as incidence rate ratios (IRRs). Hospitalizations (binary outcome) were analysed using logistic regression, with exponentiated coefficients reported as odds ratios (ORs). Medicine prescriptions (years -5 to -3) were log-transformed.

**Suppl. Table 7.** Divorce Conflict's Association with Psycholeptics, Antidepressants, GP

Visits, Specialist Visits, and Psychologist Visits from Two Years Before Divorce to Five Years

After, Controlling for Outcomes from Five to Three Years Before Divorce (N=1,784)

Health outcome	IRR	95% CI	<i>P</i> value
<b>Psycholeptics (years -2 to 5)</b>			
Conflict level	1.538	1.303 to 1.817	<0.001
Psycholeptics (years -5 to -3)	5.501	4.128 to 7.330	<0.001
<b>Antidepressants (years -2 to 5)</b>			
Conflict level	1.148	0.963 to 1.369	0.124
Antidepressant (years -5 to -3)	4.257	3.587 to 5.053	<0.001
<b>GP visits (years -2 to 5)</b>			
Conflict level	1.032	0.994 to 1.071	0.099
GP visits (years -5 to -3)	1.016	1.015 to 1.018	<0.001
<b>Specialist visits (years -2 to 5)</b>			
Conflict level	1.043	0.974 to 1.117	0.232
Specialist visits (years -5 to -3)	1.061	1.050 to 1.072	<0.001
<b>Psychologist visits (years -2 to 5)</b>			
Conflict level	1.211	1.053 to 1.394	0.007
Psychologist visits (years -5 to -3)	1.141	1.097 to 1.187	<0.001

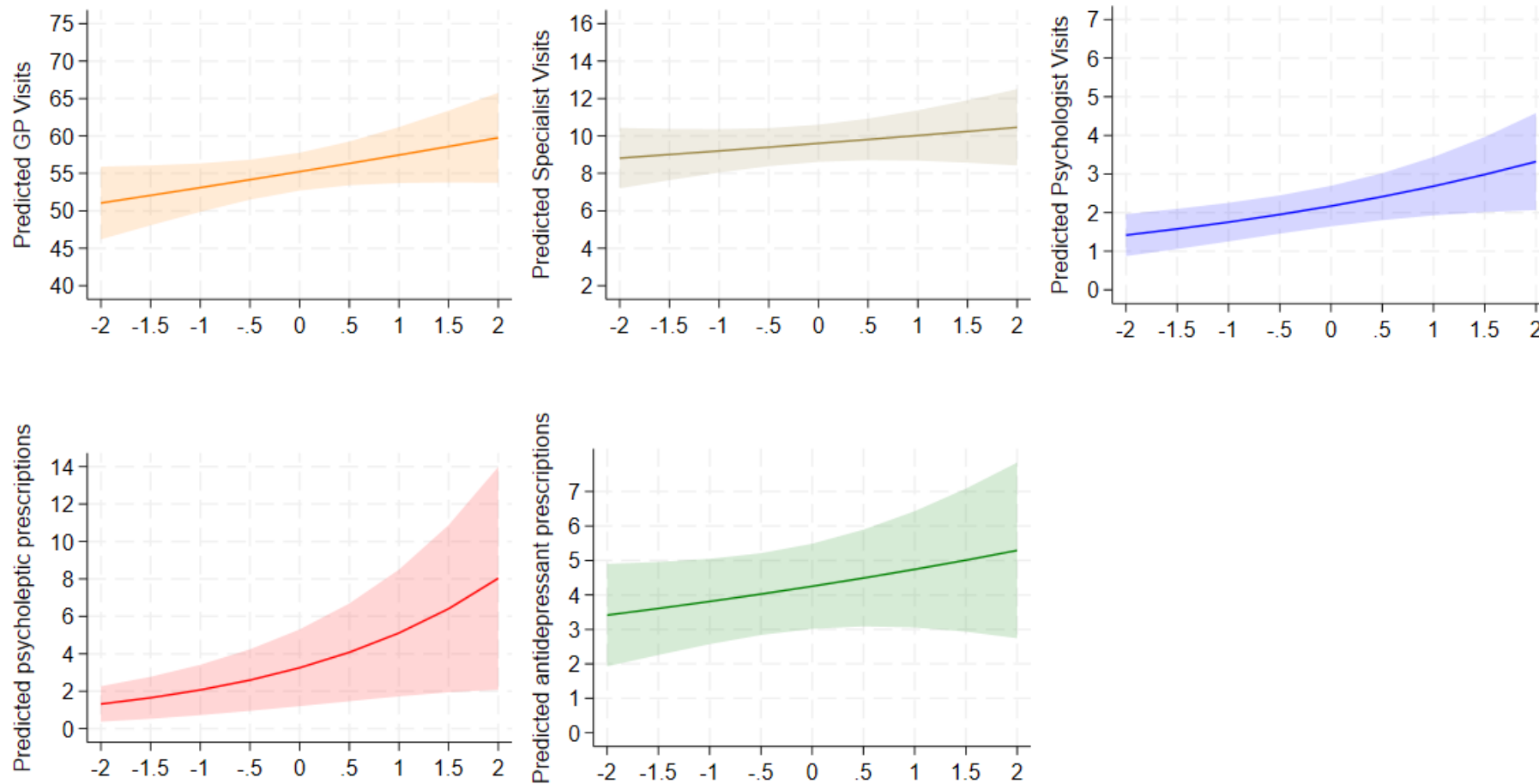
Notes: All presented coefficients are estimated from the full models adjusted for divorce initiator, age, gender, income, and education. All models are analysed with negative binomial regression, with exponentiated coefficients reported as Incidence Rate Ratios (IRRs). Psycholeptics (years -5 to -3) and Antidepressant (years -5 to -3) have been logarithmically transformed.

**Suppl. Table 8.** Divorce Conflict's Association with Psycholeptics, Antidepressants, GP Visits, Specialist Visits, and Psychologist Visits,

Modelled Using Interactions Between Conflict Level and Two-Piece Linear Splines for Time Before and After Divorce (N = 1,784)

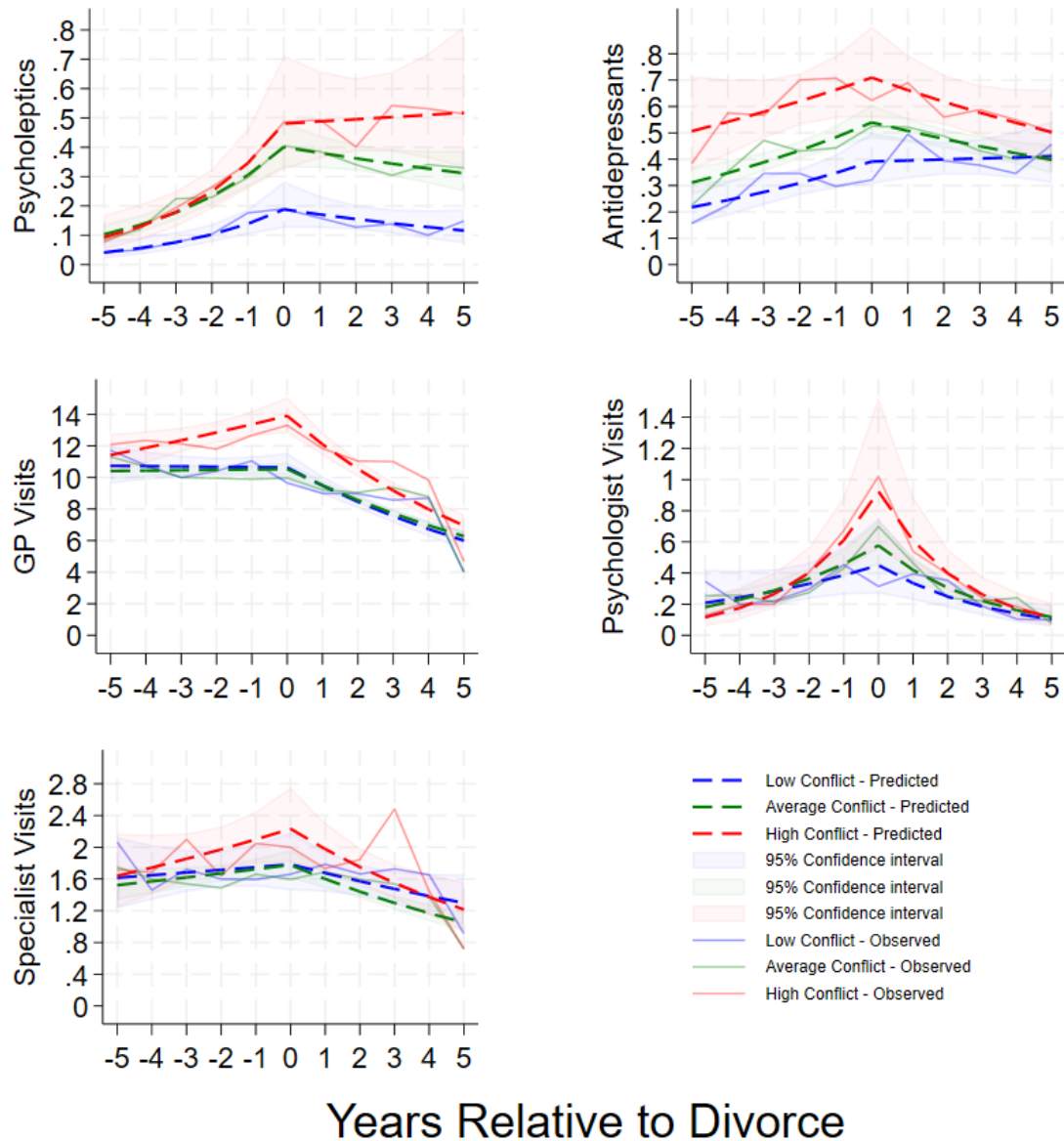
	<b>Psycholeptics IRR (CI 95%)</b>	<b>Antidepressants IRR (CI 95%)</b>	<b>GP visits IRR (CI 95%)</b>	<b>Specialist visits IRR (CI 95%)</b>	<b>Psychologist visits IRR (CI 95%)</b>
<b>Conflict level main effect</b>					
Average conflict vs. low conflict	<b>1.895 (1.221–2.941)</b>	1.315 (0.895–1.931)	0.961 (0.879–1.049)	0.976 (0.782–1.220)	1.037 (0.581–1.851)
High conflict vs. low conflict	<b>2.569 (1.482–4.454)</b>	1.574 (0.969–2.556)	<b>1.227 (1.097–1.373)</b>	1.197 (0.898–1.595)	1.834 (0.896–3.752)
<b>Pre-divorce slope for low conflict</b>	<b>1.413 (1.183–1.689)</b>	1.133 (0.983–1.306)	0.999 (0.969–1.030)	1.027 (0.951–1.110)	<b>1.257 (1.027–1.538)</b>
<b>Post-divorce slope for low conflict</b>	0.904 (0.787–1.038)	1.001 (0.888–1.276)	<b>0.890 (0.865–0.916)</b>	<b>0.930 (0.865–0.999)</b>	<b>0.689 (0.569–0.835)</b>
<b>Conflict level x pre-divorce slope</b>					
Average conflict vs. low conflict	0.971 (0.799–1.179)	0.994 (0.850–1.163)	1.003 (0.969–1.038)	1.012 (0.929–1.103)	1.038 (0.832–1.295)
High conflict vs. low conflict	0.976 (0.767–1.243)	0.924 (0.759–1.124)	1.040 (0.995–1.086)	1.047 (0.937–1.170)	1.291 (0.972–1.715)
<b>Conflict level x post-divorce slope</b>					
Average conflict vs. low conflict	1.049 (0.901–1.222)	0.943 (0.826–1.076)	1.008 (0.976–1.041)	0.962 (0.888–1.043)	1.049 (0.850–1.294)
High conflict vs. low conflict	1.121 (0.928–1.355)	0.922 (0.780–1.090)	0.975 (0.937–1.016)	0.945 (0.851–1.049)	0.956 (0.737–1.241)

Notes:  $p < 0.05$  highlighted in bold. “x” denotes an interaction term that reflects whether the slope for each time segment differs by conflict level compared to the low conflict group. All presented coefficients are estimates from the full models adjusted for divorce initiator, age, gender, income, and education. All models are analysed with negative binomial regression, with exponentiated coefficients reported as Incidence Rate Ratios. All models include interactions between conflict level (low, average, high) and two-piece linear spline time variables (pre-divorce and post-divorce slopes).

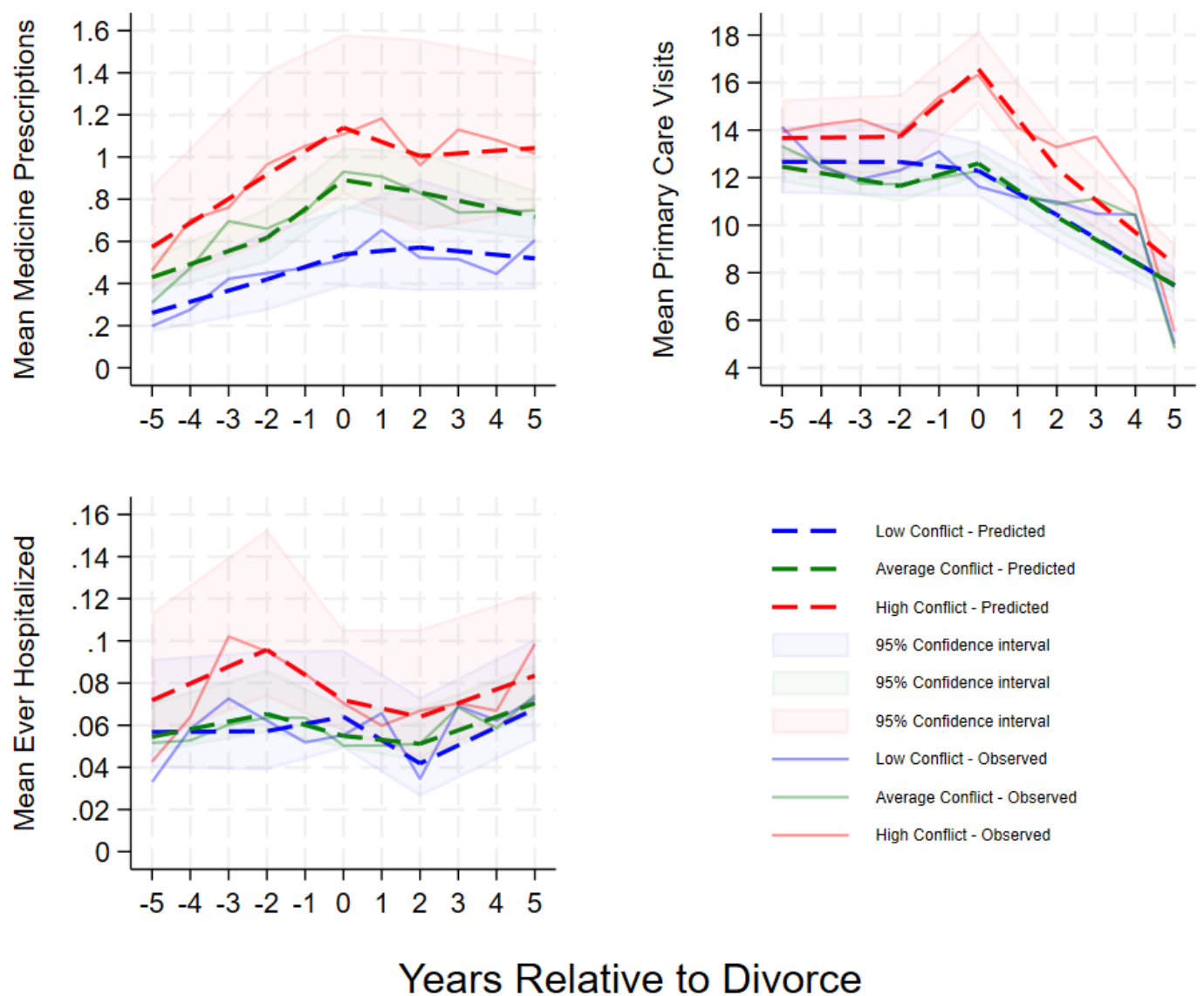


### Standard Deviations from Mean Conflict Level

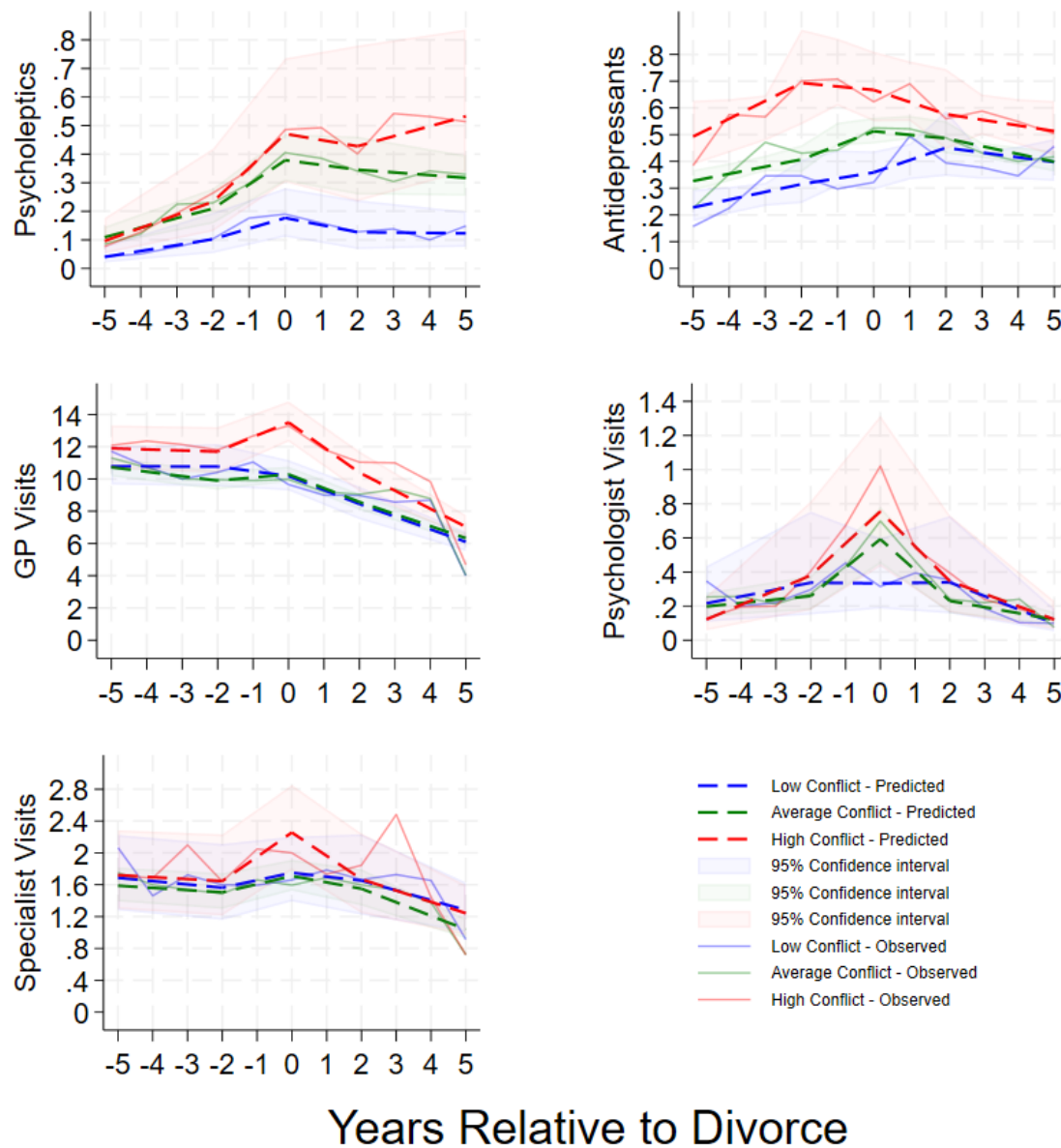
**Suppl. Figure 1.** Average Marginal Predicted Psycholeptics Prescriptions, Antidepressants Prescriptions, GP Visits, Specialist Visits, and Psychologist Visits by Conflict Level, with 95% Confidence Intervals (N=1,784)



**Suppl. Figure 2.** Yearly Predicted and Observed Means of Psycholeptics, Antidepressants, GPs, Specialists, and Psychologist Visits by Conflict Group (N=1,784). Predicted Values Are Based on Two-Piece Linear Models With Separate Slopes Before and After Juridical Divorce (Year 0).



**Suppl. Figure 3.** Yearly Predicted and Observed Means of Medicine Prescriptions, Primary Care Visits, and Binary Hospitalizations by Conflict Group (N=1,784). Predicted Values are Based on Four-Piece Linear Spline Models with Separate Slopes From -5 to -2 Years, -2 to 0, 0 to 2, and 2 to 5 Years Relative to Juridical Divorce.



**Suppl. Figure 4.** Yearly Predicted and Observed Means of Psycholeptics, Antidepressants, GPs, Specialists, and Psychologist Visits by Conflict Group (N=1,784). Predicted Values are Based on Four-Piece Linear Spline Models With Separate Slopes From  $-5$  to  $-2$  Years,  $-2$  to  $0$ ,  $0$  to  $2$ , and  $2$  to  $5$  Years Relative to Juridical Divorce.