**Table S1a**. Comparison of baseline sample characteristics between analysis sample (n=974) and those without dating violence and mental health data (n=1146)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Analysis sample (n=974) | Participants without dating violence and mental health data (n=1146) | p-value |
| **Participant** |
|  *Female, %* | 53.2 | 45.6 | p<0.001 |
|  *Caucasian ethnicity, %* | 85.0 | 77.0 | p<0.001 |
|  *Same sex, bisexual, or asexual, %* | 9.1 | - | - |
|  *Peer victimization, M(SD)* | 0.00 (0.1) | -0.00 (0.1) | 0.066 |
|  *Internalizing symptoms, M(SD)* | 0.00 (0.04) | -0.00 (0.04) | 0.471 |
|  *Verbal IQ, M(SD)* | 113.73 (13.8) | 112.67 (16.8) | 0.179 |
| **Parent** |
|  *Maternal depressive symptoms, M(SD)* | 1.37 (1.1) | 1.39 (1.1) | 0.607 |
|  *Maternal anxiety, M(SD)* | 1.33 (1.1) | 1.31 (1.2) | .068 |
|  *Maternal exposure to physical or* *psychological violence, %* | 45.2 | 35.9 | p<0.001 |
|  *Paternal depressive symptoms, M(SD)* | 1.01 (1.0) | 0.99 (0.9) | 0.597 |
| **Family** |
|  *Family functioning, M(SD)* | 1.47 (1.0) | 1.54 (1.2) | 0.192 |
|  *Socioeconomic status, M(SD)* | -0.06 (0.9) | 0.06 (1.0) | 0.983 |
|  *At-risk family status, %* | 39.0 | 33.0 | 0.006 |

a Data were compiled from the final master file of the Québec Longitudinal Study of Child

Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec.

**Table S2a**. Weighted correlations of dating violence and mental health with covariates

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** |
| 1. Victimization 15 years |  |  |  |  |  |  |
| 2. Victimization 17 years | 0.19\* |  |  |  |  |  |
| 3. Perpetration 15 years | 0.44\* | 0.19\* |  |  |  |  |
| 4. Perpetration 17 years | 0.20\* | 0.51\* | 0.27\* |  |  |  |
| 5. Internalizing symptoms 15 years | 0.28\* | 0.26\* | 0.23\* | 0.24\* |  |  |
| 6. Internalizing symptoms 17 years | 0.21\* | 0.28\* | 0.18\* | 0.25\* | 0.64\* |  |
| *Baseline characteristics* |  |  |  |  |  |  |
| **Sex** | 0.10\* | 0.15\* | 0.14\* | 0.15\* | 0.42\* | 0.38\* |
| Ethnicity | -0.01 | -0.04 | -0.05 | 0.07\* | -0.01 | -0.02 |
| **Sexuality** | 0.06\* | 0.04 | 0.01 | 0.10\* | 0.10\* | 0.13\* |
| **Peer victimization** | 0.04 | 0.09\* | 0.01 | 0.04 | 0.17\* | 0.13\* |
| **Internalizing symptoms** | 0.04 | 0.16\* | 0.11\* | 0.15\* | 0.38\* | 0.34\* |
| Verbal IQ | 0.03 | -0.09\* | -0.01 | -0.07\* | 0.01 | 0.01 |
| **Maternal depressive symptoms** | 0.04 | 0.10\* | 0.06\* | 0.13\* | 0.09\* | 0.11\* |
| **Maternal anxiety** | 0.09\* | 0.08\* | 0.10\* | 0.13\* | 0.06\* | 0.07\* |
| Paternal depressive symptoms | 0.06\* | 0.08\* | 0.04 | 0.13\* | 0.04 | 0.04 |
| **Maternal exposure to physical or psychological violence** | 0.01 | 0.05\* | 0.07\* | 0.05 | 0.04 | 0.08\* |
| Family functioning | 0.03 | 0.10\* | 0.06\* | 0.12\* | 0.02 | 0.04 |
| **Socioeconomic status** | -0.08\* | -0.12\* | -0.08\* | -0.11\* | -0.05\* | -0.10\* |
| At-risk family status | -0.00 | 0.02 | 0.02 | 0.04 | 0.04 | 0.03 |

a Data were compiled from the final master file of the Québec Longitudinal Study of Child

Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec.

\*p<.05

Bolded baseline characteristics were included as covariates in adjusted cross-lagged models

8.4

6.6

12.7

9.9

17.4

26.2

22.5

15.5

22.6

19.4

8.5

9.8

9.3

10.5

6.7

2.4

11.8

7.8

**A**

**\***

**\***

**\***

**\***

10.1

3.9

2.2

3.0

12.2

20.8

17.2

10.5

13.7

12.3

3.7

15.4

10.5

6.3

13.2

1.7

1.7

1.7

**B**

**\***

**\***

**\***

**Figure S1a.** Prevalence of sub-types (physical, psychological, sexual) of dating violence victimization (panel A) and perpetration (panel B) at 15 and 17 years

a Data were compiled from the final master file of the Québec Longitudinal Study of Child Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec. \* p < 0.05

Control variables and interaction term

Victimization

15 years

Internalizing symptoms

15 years

Victimization

17 years

Internalizing symptoms

17 years

0.10 [-0.06;0.25]

0.27 [0.14;0.40]

0.03 [-0.07;0.12]

0.59 [0.51;0.67]

**A**

*0.23*

*0.28*

Perpetration

15 years

Internalizing symptoms

15 years

Perpetration

17 years

Internalizing symptoms

17 years

**B**

0.23 [0.02;0.44]

0.24 [0.09;0.38]

0.02 [-0.12;0.17]

0.58 [0.50;0.67]

*0.28*

*0.16*

Control variables and interaction term

**Figure S2a**. Cross-lagged associations between dating violence (victimization and perpetration) and internalizing symptoms adjusted for dating violence perpetration at 15 years (model A), dating violence victimization at 15 years (model B), and the interaction between them (models A and B). Single-headed arrows represent associations (standardized coefficients, *β* [95% confidence intervals]) and double-headed arrows represent correlations (*r*). Solid lines represent significant associations (*p<0.05*) and dashed lines represent non-significant associations (*p≥0.05*).

a Data were compiled from the final master file of the Québec Longitudinal Study of Child

Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec.

Control variables and interaction term

Victimization

15 years

Depression

15 years

Victimization

17 years

Depression

17 years

0.16 [0.01;0.30]

0.02 [-0.10;0.14]

0.00 [-0.11;0.11]

0.29 [0.22;0.37]

**A**

*0.16*

*0.17*

Perpetration

15 years

Depression

15 years

Perpetration

17 years

Depression

17 years

**B**

0.27 [0.07;0.47]

0.00 [-0.13;0.14]

0.06 [-0.07;0.20]

0.28 [0.20;0.36]

*0.08*

*0.02*

Control variables and interaction term

**Figure S3a**. Cross-lagged associations between dating violence (victimization and perpetration) and depression adjusted for dating violence perpetration at 15 years (model A), dating violence victimization at 15 years (model B), the interaction between them (models A and B), and covariates listed in Table 1 (models A and B). Single-headed arrows represent associations (standardized coefficients, *β* [95% confidence intervals]) and double-headed arrows represent correlations (*r*). Solid lines represent significant associations (*p<0.05*) and dashed lines represent non-significant associations (*p≥0.05*).

a Data were compiled from the final master file of the Québec Longitudinal Study of Child Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec.

Control variables and interaction term

Victimization

15 years

Anxiety

15 years

Victimization

17 years

Anxiety

17 years

0.40 [0.03;0.76]

0.01 [-0.12;0.14]

-0.11 [-0.34;0.11]

0.29 [0.21;0.37]

**A**

*0.04*

*0.05*

Perpetration

15 years

Anxiety

15 years

Perpetration

17 years

Anxiety

17 years

**B**

0.28 [0.07;0.48]

0.09 [-0.03;0.22]

0.04 [-0.07;0.15]

0.31 [0.23;0.39]

*0.09*

*0.06*

Control variables and interaction term

**Figure S4a**. Cross-lagged associations between dating violence (victimization and perpetration) and anxiety adjusted for dating violence perpetration at 15 years (model A), dating violence victimization at 15 years (model B), the interaction between them (models A and B), and covariates listed in Table 1 (models A and B). Single-headed arrows represent associations (standardized coefficients, *β* [95% confidence intervals]) and double-headed arrows represent correlations (*r*). Solid lines represent significant associations (*p<0.05*) and dashed lines represent non-significant associations (*p≥0.05*).

a Data were compiled from the final master file of the Québec Longitudinal Study of Child Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec.

Physical victimization

15 years

Internalizing symptoms

15 years

Physical victimization

17 years

Internalizing symptoms

17 years

0.19 [-0.31;0.68]

0.24 [0.08;0.41]

0.08 [-0.07;0.22]

0.52 [0.46;0.58]

**A**

*0.29*

*0.13*

Control variables and interaction term

Psychological victimization

15 years

Internalizing symptoms

15 years

Psychological victimization

17 years

Internalizing symptoms

17 years

0.07 [-0.09;0.23]

0.21 [0.07;0.35]

0.00 [-0.09;0.09]

0.51 [0.44;0.59]

**B**

*0.23*

*0.22*

Control variables and interaction term

Sexual victimization

15 years

Internalizing symptoms

15 years

Sexual victimization

17 years

Internalizing symptoms

17 years

0.09 [-0.06;0.25]

0.19 [0.01;0.37]

0.00 [-0.11;0.12]

0.52 [0.46;0.58]

**C**

*0.12*

*0.20*

Control variables and interaction term

**Figure S5a**. Cross-lagged associations between sub-types of dating violence victimization (physical, psychological, and sexual) and internalizing symptoms adjusted for all sub-types of dating violence victimization and perpetration at 15 years (models A, B, and C), the interactions between physical dating violence victimization and perpetration at 15 years (model A), psychological dating violence victimization and perpetration at 15 years (model B), and sexual dating violence victimization and perpetration at 15 years (model C), and covariates listed in Table 1 (models A, B, and C). Single-headed arrows represent associations (standardized coefficients, *β* [95% confidence intervals]) and double-headed arrows represent correlations (*r*). Solid lines represent significant associations (*p<0.05*) and dashed lines represent non-significant associations (*p≥0.05*).

a Data were compiled from the final master file of the Québec Longitudinal Study of Child Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec.

Control variables and interaction term

Physical perpetration

15 years

Internalizing symptoms

15 years

Physical perpetration

17 years

Internalizing symptoms

17 years

0.14 [-0.06;0.34]

0.15 [0.02;0.29]

-0.02 [-0.13;0.09]

0.51 [0.44;0.58]

**A**

*0.09*

*0.18*

Psychological perpetration

15 years

Internalizing symptoms

15 years

Psychological perpetration

17 years

Internalizing symptoms

17 years

0.25 [0.06;0.44]

0.21 [0.04;0.37]

0.06 [-0.06;0.18]

0.52 [0.43;0.60]

**B**

*0.16*

*0.18*

Control variables and interaction term

Sexual perpetration

15 years

Internalizing symptoms

15 years

Sexual perpetration

17 years

Internalizing symptoms

17 years

0.03 [-0.44;0.51]

0.01 [-0.44;0.45]

0.00 [-0.30;0.30]

0.55 [0.46;0.63]

**C**

*0.18*

*0.08*

Control variables and interaction term

**Figure S6a**. Cross-lagged associations between sub-types of dating violence perpetration (physical, psychological, and sexual) and internalizing symptoms adjusted for all sub-types of dating violence perpetration and victimization at 15 years (models A, B, and C), the interactions between physical dating violence victimization and perpetration at 15 years (model A), psychological dating violence victimization and perpetration at 15 years (model B), and sexual dating violence victimization and perpetration at 15 years (model C), and covariates listed in Table 1 (models A, B, and C). Single-headed arrows represent associations (standardized coefficients, *β* [95% confidence intervals]) and double-headed arrows represent correlations (*r*). Solid lines represent significant associations (*p<0.05*) and dashed lines represent non-significant associations (*p≥0.05*).

a Data were compiled from the final master file of the Québec Longitudinal Study of Child Development (1998-2015), © Gouvernement du Québec, Institut de la Statistique du Québec.