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| **Table S1: Multiple logistic regression for In schools vs· out of school and HIV status in DREAMS provinces 2018-2019** | | | | | | | | | |
| hiv status | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Positive | (Intercept) | -6·467 | -4·846 | -13·694 | 1649·000 | ·000 | ·003 | ·002 | ·008 |
| [currently attending school= No] | -·191 | ·300 | ·433 | 1649·000 | ·665 | 1·056 | ·826 | 1·349 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | ·032 | 1·202 | 2·070 | 1649·000 | ·039 | 1·854 | 1·033 | 3·327 |
| [Between R1001-R5000 per month] | ·007 | 1·152 | 1·987 | 1649·000 | ·047 | 1·786 | 1·007 | 3·165 |
| [More than R5001 per month] | -·370 | ·799 | ·720 | 1649·000 | ·471 | 1·239 | ·691 | 2·223 |
| [Dont know income] | -·317 | ·969 | ·993 | 1649·000 | ·321 | 1·385 | ·728 | 2·635 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·624 | -·358 | -7·230 | 1649·000 | ·000 | ·612 | ·536 | ·699 |
| [caregiver HIV positive] | ·421 | ·976 | 4·943 | 1649·000 | ·000 | 2·011 | 1·524 | 2·653 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·524 | -·062 | -2·490 | 1649·000 | ·013 | ·746 | ·592 | ·940 |
| [Single orphan] | -·118 | ·369 | 1·013 | 1649·000 | ·311 | 1·134 | ·889 | 1·447 |
| [Double orphan] | ·413 | ·975 | 4·843 | 1649·000 | ·000 | 2·002 | 1·511 | 2·651 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·147 | ·206 | 11·628 | 1649·000 | ·000 | 1·193 | 1·158 | 1·229 |
| overall\_exposure | -·049 | ·020 | -·819 | 1649·000 | ·413 | ·986 | ·953 | 1·020 |
| [Gauteng] | -·834 | -·570 | -10·428 | 1649·000 | ·000 | ·496 | ·434 | ·566 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | hiv status | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | Positive | ·947 | ·741 | 1·211 |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=18·44; overall\_exposure=2·2713 | | | | | |

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| **Table S2: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and HIV status in DREAMS provinces 2018-2019** | | | | | | | | | |
| hiv status | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Positive | (Intercept) | -5·815 | -4·383 | -13·969 | 1456·000 | ·000 | ·006 | ·003 | ·012 |
| [Out of School no CSE] | -·030 | ·246 | 1·535 | 1456·000 | ·125 | 1·114 | ·970 | 1·279 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·677 | -·367 | -6·588 | 1456·000 | ·000 | ·593 | ·508 | ·693 |
| [caregiver HIV positive] | -·006 | 1·059 | 1·941 | 1456·000 | ·052 | 1·693 | ·994 | 2·883 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·142 | ·208 | 10·492 | 1456·000 | ·000 | 1·191 | 1·153 | 1·231 |
| [Gauteng ] | -·946 | -·620 | -9·435 | 1456·000 | ·000 | ·457 | ·388 | ·538 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | hiv status | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | Positive | ·898 | ·782 | 1·030 |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; cg\_hiv\_status=Data missing; Text=KwaZulu-Natal; Participant's age:=21·12 | | | | | |

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| **Table S3: Multiple logistic regression for In schools vs· out of school and HIV status in DREAMS provinces 2018-2019** | | | | | | | | | |
| hiv status | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Positive | (Intercept) | -7·412 | -4·321 | -7·445 | 1447·000 | ·000 | ·003 | ·001 | ·013 |
| [In school and no CSE] | ·061 | ·497 | 2·509 | 1447·000 | ·012 | 1·322 | 1·063 | 1·643 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·823 | 1·303 | ·443 | 1447·000 | ·658 | 1·271 | ·439 | 3·681 |
| [Between R1001-R5000 per month] | -·286 | 1·751 | 1·412 | 1447·000 | ·158 | 2·081 | ·752 | 5·760 |
| [More than R5001 per month] | -·727 | 1·399 | ·620 | 1447·000 | ·535 | 1·400 | ·483 | 4·053 |
| [Dont know income] | -1·301 | 1·063 | -·198 | 1447·000 | ·843 | ·888 | ·272 | 2·896 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·532 | -·011 | -2·044 | 1447·000 | ·041 | ·762 | ·587 | ·989 |
| [caregiver HIV positive] | ·618 | 1·257 | 5·760 | 1447·000 | ·000 | 2·554 | 1·856 | 3·514 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -1·542 | -·019 | -2·010 | 1447·000 | ·045 | ·458 | ·214 | ·981 |
| [Single orphan] | -1·164 | ·339 | -1·077 | 1447·000 | ·281 | ·662 | ·312 | 1·403 |
| [Double orphan] | -·249 | 1·333 | 1·345 | 1447·000 | ·179 | 1·720 | ·780 | 3·793 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·135 | ·251 | 6·556 | 1447·000 | ·000 | 1·213 | 1·145 | 1·285 |
| [Gauteng ] | -·776 | -·332 | -4·894 | 1447·000 | ·000 | ·575 | ·460 | ·718 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | hiv status | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | Positive | ·757 | ·608 | ·941 |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=14·98 | | | | | |

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| **Table S4: Multiple logistic regression for In schools vs· out of school and HIV status in DREAMS provinces 2018-2019** | | | | | | | | | |
| hiv status | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Positive | (Intercept) | -6·540 | -4·020 | -8·221 | 1416·000 | ·000 | ·005 | ·001 | ·018 |
| [currently attending school= No] | -·309 | ·367 | ·169 | 1416·000 | ·866 | 1·030 | ·734 | 1·444 |
| [currently attending school=Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | ·058 | 1·904 | 2·086 | 1416·000 | ·037 | 2·667 | 1·060 | 6·710 |
| [Between R1001-R5000 per month] | -·067 | 1·744 | 1·817 | 1416·000 | ·069 | 2·313 | ·935 | 5·719 |
| [More than R5001 per month] | -·424 | 1·424 | 1·062 | 1416·000 | ·288 | 1·649 | ·655 | 4·153 |
| [Dont know income] | -·224 | 1·720 | 1·510 | 1416·000 | ·131 | 2·113 | ·800 | 5·586 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·734 | -·406 | -6·816 | 1416·000 | ·000 | ·565 | ·480 | ·666 |
| [caregiver HIV positive] | -·199 | ·740 | 1·130 | 1416·000 | ·259 | 1·311 | ·819 | 2·097 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·446 | ·113 | -1·171 | 1416·000 | ·242 | ·847 | ·640 | 1·119 |
| [Single orphan] | -·220 | ·425 | ·622 | 1416·000 | ·534 | 1·108 | ·802 | 1·529 |
| [Double orphan] | -·042 | ·778 | 1·760 | 1416·000 | ·079 | 1·445 | ·959 | 2·176 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·117 | ·198 | 7·619 | 1416·000 | ·000 | 1·171 | 1·124 | 1·219 |
| overall\_exposure | -·077 | ·010 | -1·492 | 1416·000 | ·136 | ·967 | ·926 | 1·010 |
| [Gauteng ] | -1·073 | -·724 | -10·116 | 1416·000 | ·000 | ·407 | ·342 | ·485 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | hiv status | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | Positive | ·971 | ·693 | 1·362 |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=20·70; overall\_exposure=2·1996 | | | | | |

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| **Table S5: Multiple logistic regression for out of school no CSE vs Out of school attended CSE and HIV status in DREAMS provinces 2018-2019** | | | | | | | | | |
| hiv status | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Positive | (Intercept) | -5·390 | -3·639 | -10·113 | 1368·000 | ·000 | ·011 | ·005 | ·026 |
| [Out of School no CSE] | -·060 | ·253 | 1·212 | 1368·000 | ·226 | 1·102 | ·942 | 1·288 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·733 | -·397 | -6·609 | 1368·000 | ·000 | ·568 | ·481 | ·672 |
| [caregiver HIV positive] | -·266 | ·918 | 1·081 | 1368·000 | ·280 | 1·386 | ·767 | 2·505 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·114 | ·194 | 7·558 | 1368·000 | ·000 | 1·167 | 1·121 | 1·214 |
| [Gauteng ] | -1·061 | -·694 | -9·388 | 1368·000 | ·000 | ·416 | ·346 | ·500 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | hiv status | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | Positive | ·908 | ·776 | 1·062 |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; cg\_hiv\_status=Data missing; Text=KwaZulu-Natal; Participant's age:=21·36 | | | | | |

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| **Table S6: Multiple logistic regression for In schools vs· out of school and HIV status in DREAMS provinces 2018-2019** | | | | | | | | | |
| hiv status | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Positive | (Intercept) | -8·462 | ·304 | -1·827 | 774·000 | ·068 | ·017 | ·000 | 1·356 |
| [In school and no CSE] | ·056 | ·921 | 2·219 | 774·000 | ·027 | 1·630 | 1·058 | 2·511 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -3·481 | ·967 | -1·110 | 774·000 | ·267 | ·284 | ·031 | 2·630 |
| [Between R1001-R5000 per month] | -2·621 | 1·624 | -·461 | 774·000 | ·645 | ·607 | ·073 | 5·075 |
| [More than R5001 per month] | -3·295 | 1·104 | -·978 | 774·000 | ·328 | ·334 | ·037 | 3·016 |
| [Dont know income] | -3·512 | 1·137 | -1·003 | 774·000 | ·316 | ·305 | ·030 | 3·118 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·939 | ·097 | -1·596 | 774·000 | ·111 | ·656 | ·391 | 1·102 |
| [caregiver HIV positive] | -·516 | 1·258 | ·820 | 774·000 | ·412 | 1·449 | ·597 | 3·517 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -3·607 | -·234 | -2·235 | 774·000 | ·026 | ·147 | ·027 | ·791 |
| [Single orphan] | -3·659 | -·237 | -2·235 | 774·000 | ·026 | ·143 | ·026 | ·789 |
| [Double orphan] | -3·091 | ·479 | -1·436 | 774·000 | ·151 | ·271 | ·045 | 1·615 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·058 | ·465 | 2·520 | 774·000 | ·012 | 1·299 | 1·059 | 1·592 |
| [Gauteng ] | -1·619 | -·552 | -3·995 | 774·000 | ·000 | ·338 | ·198 | ·576 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | hiv status | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | Positive | ·613 | ·398 | ·945 |
| Dependent Variable: hiv status (reference category = Negative)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=16·97 | | | | | |

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| **Table S7: Multiple logistic regression for In schools vs· out of school and ever had sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| Ever had sex | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -9·240 | -7·921 | -25·511 | 1647·000 | ·000 | ·000 | 9·709E-5 | ·000 |
| [currently attending school= No] | ·734 | 1·052 | 11·005 | 1647·000 | ·000 | 2·442 | 2·083 | 2·863 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·356 | ·490 | ·309 | 1647·000 | ·757 | 1·069 | ·700 | 1·632 |
| [Between R1001-R5000 per month] | ·037 | ·837 | 2·144 | 1647·000 | ·032 | 1·548 | 1·038 | 2·309 |
| [More than R5001 per month] | ·056 | ·882 | 2·228 | 1647·000 | ·026 | 1·598 | 1·058 | 2·415 |
| [Dont know income] | -·012 | ·852 | 1·906 | 1647·000 | ·057 | 1·522 | ·988 | 2·344 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·249 | -·031 | -2·516 | 1647·000 | ·012 | ·870 | ·780 | ·970 |
| [caregiver HIV positive] | -·137 | ·276 | ·664 | 1647·000 | ·507 | 1·072 | ·872 | 1·318 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | ·314 | ·648 | 5·654 | 1647·000 | ·000 | 1·618 | 1·369 | 1·912 |
| [Single orphan] | ·285 | ·659 | 4·955 | 1647·000 | ·000 | 1·604 | 1·330 | 1·934 |
| [Double orphan] | ·286 | ·761 | 4·325 | 1647·000 | ·000 | 1·688 | 1·331 | 2·140 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·373 | ·428 | 28·622 | 1647·000 | ·000 | 1·493 | 1·452 | 1·534 |
| overall\_exposure | -·011 | ·046 | 1·218 | 1647·000 | ·223 | 1·018 | ·989 | 1·048 |
| [Gauteng ] | -·163 | ·061 | -·885 | 1647·000 | ·376 | ·951 | ·850 | 1·063 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: ever\_had\_sex (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | ever\_had\_sex | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | 1·00 | ·410 | ·349 | ·480 |
| Dependent Variable: ever\_had\_sex (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=18·44; overall\_exposure=2·2706 | | | | | |

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| **Table S8: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and HIV status in DREAMS provinces 2018-2019** | | | | | | | | | |
| Ever had sex | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| yes | (Intercept) | -4·077 | -2·933 | -12·021 | 1455·000 | ·000 | ·030 | ·017 | ·053 |
| [Out of School no CSE] | ·125 | ·374 | 3·922 | 1455·000 | ·000 | 1·283 | 1·133 | 1·454 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·280 | ·016 | -1·752 | 1455·000 | ·080 | ·876 | ·756 | 1·016 |
| [caregiver HIV positive] | ·185 | 1·439 | 2·542 | 1455·000 | ·011 | 2·253 | 1·204 | 4·215 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·190 | ·244 | 15·832 | 1455·000 | ·000 | 1·243 | 1·210 | 1·276 |
| [Gauteng ] | -·340 | -·026 | -2·283 | 1455·000 | ·023 | ·833 | ·712 | ·975 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: ever\_had\_sex (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | ever\_had\_sex | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | 1·00 | ·779 | ·688 | ·883 |
| Dependent Variable: ever\_had\_sex (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; cg\_hiv\_status=Data missing; Text=KwaZulu-Natal; Participant's age:=21·12 | | | | | |

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| **Table S9: Multiple logistic regression for In schools vs· out of school and ever had sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| Ever had sex | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -16·881 | -14·300 | -23·696 | 1445·000 | ·000 | 1·695E-7 | 4·662E-8 | 6·161E-7 |
| [In school and no CSE] | -·205 | ·098 | -·694 | 1445·000 | ·488 | ·948 | ·815 | 1·103 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·492 | ·697 | ·338 | 1445·000 | ·735 | 1·108 | ·611 | 2·008 |
| [Between R1001-R5000 per month] | -·355 | ·776 | ·731 | 1445·000 | ·465 | 1·235 | ·701 | 2·173 |
| [More than R5001 per month] | -·514 | ·643 | ·218 | 1445·000 | ·827 | 1·066 | ·598 | 1·902 |
| [Dont know income] | -·217 | ·974 | 1·247 | 1445·000 | ·213 | 1·460 | ·805 | 2·649 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | ·092 | ·424 | 3·049 | 1445·000 | ·002 | 1·295 | 1·096 | 1·529 |
| [caregiver HIV positive] | ·188 | ·788 | 3·192 | 1445·000 | ·001 | 1·629 | 1·207 | 2·199 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·413 | 1·220 | ·969 | 1445·000 | ·333 | 1·497 | ·661 | 3·389 |
| [Single orphan] | -·297 | 1·341 | 1·250 | 1445·000 | ·211 | 1·686 | ·743 | 3·825 |
| [Double orphan] | -·302 | 1·378 | 1·257 | 1445·000 | ·209 | 1·713 | ·740 | 3·966 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·771 | ·870 | 32·306 | 1445·000 | ·000 | 2·272 | 2·161 | 2·388 |
| [Gauteng ] | ·133 | ·442 | 3·642 | 1445·000 | ·000 | 1·333 | 1·142 | 1·556 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: ever\_had\_sex (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | ever\_had\_sex | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | 1·00 | 1·055 | ·907 | 1·228 |
| Dependent Variable: ever\_had\_sex (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=14·98 | | | | | |

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| **Table S10: Multiple logistic regression for In schools vs· out of school and early sexual debut in DREAMS provinces 2018-2019** | | | | | | | | | |
| early\_sex\_debut | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| =< 15 years old | (Intercept) | 2·803 | 4·712 | 7·725 | 1367·000 | ·000 | 42·841 | 16·499 | 111·242 |
| [currently attending school= No] | -·500 | -·097 | -2·900 | 1367·000 | ·004 | ·742 | ·606 | ·908 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·438 | ·747 | ·512 | 1367·000 | ·609 | 1·167 | ·645 | 2·111 |
| [Between R1001-R5000 per month] | -·732 | ·400 | -·577 | 1367·000 | ·564 | ·847 | ·481 | 1·491 |
| [More than R5001 per month] | -1·069 | ·139 | -1·510 | 1367·000 | ·131 | ·628 | ·343 | 1·149 |
| [Dont know income] | -1·054 | ·215 | -1·297 | 1367·000 | ·195 | ·657 | ·349 | 1·240 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·051 | ·257 | 1·316 | 1367·000 | ·188 | 1·109 | ·951 | 1·293 |
| [caregiver HIV positive] | ·429 | 1·121 | 4·397 | 1367·000 | ·000 | 2·171 | 1·536 | 3·068 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| age | -·289 | -·204 | -11·306 | 1367·000 | ·000 | ·782 | ·749 | ·816 |
| overall\_exposure | -·073 | ·013 | -1·381 | 1367·000 | ·168 | ·970 | ·930 | 1·013 |
| [Gauteng ] | ·046 | ·349 | 2·552 | 1367·000 | ·011 | 1·218 | 1·047 | 1·418 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: early\_sex\_debut (reference category = 16-19 sex debut)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | early\_sex\_debut | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | =< 15 years old | 1·348 | 1·101 | 1·649 |
| Dependent Variable: early\_sex\_debut (reference category = 16-19 sex debut)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; Text=KwaZulu-Natal; Participant's age:=20·49; overall\_exposure=2·2172 | | | | | |

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| **Table S11: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and early sex debut in DREAMS provinces 2018-2019** | | | | | | | | | |
| Early sex debut | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| =< 15 years old | (Intercept) | ·069 | 1·915 | 2·109 | 1309·000 | ·035 | 2·697 | 1·072 | 6·790 |
| [Out of School no CSE] | -·046 | ·300 | 1·439 | 1309·000 | ·151 | 1·135 | ·955 | 1·349 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·254 | ·121 | -·697 | 1309·000 | ·486 | ·936 | ·776 | 1·129 |
| [caregiver HIV positive] | ·632 | 1·521 | 4·752 | 1309·000 | ·000 | 2·935 | 1·882 | 4·578 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| age | -·182 | -·092 | -5·977 | 1309·000 | ·000 | ·872 | ·833 | ·912 |
| [Gauteng ] | -·116 | ·277 | ·806 | 1309·000 | ·420 | 1·084 | ·891 | 1·319 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: early\_sex\_debut (reference category = 16-19 sex debut)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | early\_sex\_debut | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | =< 15 years old | ·881 | ·741 | 1·047 |
| Dependent Variable: early\_sex\_debut (reference category = 16-19 sex debut)  Model: (Intercept), out\_of\_school\_CSE, cg\_hiv\_status, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; cg\_hiv\_status=Data missing; Text=KwaZulu-Natal; Participant's age:=21·22 | | | | | |

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| **Table S12: Multiple logistic regression for In schools vs· out of school and early sex debut in DREAMS provinces 2018-2019** | | | | | | | | | |
| Early sex debut | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| =< 15 years old | (Intercept) | 18·788 | 24·483 | 14·916 | 760·000 | ·000 | 2489965713·103 | 144398300·430 | 42936303502·043 |
| [In school and no CSE] | -·002 | ·613 | 1·948 | 760·000 | ·052 | 1·357 | ·998 | 1·847 |
| [In school and attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·756 | 1·707 | ·758 | 760·000 | ·449 | 1·609 | ·470 | 5·510 |
| [Between R1001-R5000 per month] | -·760 | 1·634 | ·716 | 760·000 | ·474 | 1·547 | ·468 | 5·122 |
| [More than R5001 per month] | -1·538 | ·961 | -·453 | 760·000 | ·650 | ·749 | ·215 | 2·614 |
| [Dont know income] | -1·086 | 1·585 | ·367 | 760·000 | ·714 | 1·283 | ·338 | 4·877 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·676 | -·026 | -2·122 | 760·000 | ·034 | ·704 | ·508 | ·974 |
| [caregiver HIV positive] | -·983 | ·174 | -1·373 | 760·000 | ·170 | ·667 | ·374 | 1·190 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| age | -1·459 | -1·156 | -16·972 | 760·000 | ·000 | ·270 | ·233 | ·315 |
| [Gauteng] | -·545 | ·067 | -1·531 | 760·000 | ·126 | ·788 | ·580 | 1·070 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: early\_sex\_debut (reference category = 16-19 sex debut)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | early\_sex\_debut | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | =< 15 years old | ·737 | ·541 | 1·002 |
| Dependent Variable: early\_sex\_debut (reference category = 16-19 sex debut)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; Text=KwaZulu-Natal; Participant's age:=16·95 | | | | | |

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| **Table S13: Multiple logistic regression for In schools vs· out of school and age disparate sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| In the past 12 months have any of your sexual partners been five or more years o | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -3·141 | -1·532 | -5·698 | 1414·000 | ·000 | ·097 | ·043 | ·216 |
| [currently attending school=No] | ·229 | ·677 | 3·961 | 1414·000 | ·000 | 1·573 | 1·257 | 1·969 |
| [currently attending school=Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·795 | ·229 | -1·084 | 1414·000 | ·279 | ·754 | ·452 | 1·258 |
| [Between R1001-R5000 per month] | -·849 | ·130 | -1·439 | 1414·000 | ·150 | ·698 | ·428 | 1·139 |
| [More than R5001 per month] | -·840 | ·186 | -1·252 | 1414·000 | ·211 | ·721 | ·432 | 1·204 |
| [Dont know income] | -1·069 | ·037 | -1·830 | 1414·000 | ·067 | ·597 | ·343 | 1·038 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | ·036 | ·309 | 2·482 | 1414·000 | ·013 | 1·189 | 1·037 | 1·362 |
| [caregiver HIV positive] | -·296 | ·458 | ·421 | 1414·000 | ·674 | 1·084 | ·744 | 1·580 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·146 | ·253 | ·528 | 1414·000 | ·598 | 1·055 | ·864 | 1·288 |
| [Single orphan] | ·005 | ·466 | 2·003 | 1414·000 | ·045 | 1·265 | 1·005 | 1·594 |
| [Double orphan] | -·098 | ·581 | 1·397 | 1414·000 | ·163 | 1·273 | ·907 | 1·787 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·033 | ·095 | 4·067 | 1414·000 | ·000 | 1·066 | 1·034 | 1·099 |
| overall\_exposure | -·031 | ·037 | ·183 | 1414·000 | ·855 | 1·003 | ·970 | 1·038 |
| [Gauteng] | ·190 | ·460 | 4·724 | 1414·000 | ·000 | 1·384 | 1·209 | 1·583 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: In the past 12 months have any of your sexual partners been five or more years o (reference category = No)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | In the past 12 months have any of your sexual partners been five or more years o | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | Yes | ·636 | ·508 | ·796 |
| Dependent Variable: In the past 12 months have any of your sexual partners been five or more years o (reference category = No)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=20·69; overall\_exposure=2·1949 | | | | | |

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| **Table S14: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and age disparate sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| In the past 12 months have any of your sexual partners been five or more years o | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -2·534 | -·725 | -3·533 | 1365·000 | ·000 | ·196 | ·079 | ·485 |
| [Out of School no CSE] | -·016 | ·234 | 1·715 | 1365·000 | ·087 | 1·115 | ·984 | 1·264 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -1·151 | ·038 | -1·835 | 1365·000 | ·067 | ·573 | ·316 | 1·039 |
| [Between R1001-R5000 per month] | -1·206 | -·060 | -2·167 | 1365·000 | ·030 | ·531 | ·299 | ·942 |
| [More than R5001 per month] | -1·168 | ·032 | -1·857 | 1365·000 | ·064 | ·567 | ·311 | 1·033 |
| [Dont know income] | -1·357 | -·101 | -2·278 | 1365·000 | ·023 | ·482 | ·257 | ·904 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | ·083 | ·380 | 3·054 | 1365·000 | ·002 | 1·261 | 1·086 | 1·463 |
| [caregiver HIV positive] | -·679 | ·349 | -·629 | 1365·000 | ·529 | ·848 | ·507 | 1·418 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·208 | ·277 | ·276 | 1365·000 | ·783 | 1·035 | ·812 | 1·319 |
| [Single orphan] | -·006 | ·526 | 1·917 | 1365·000 | ·055 | 1·297 | ·994 | 1·691 |
| [Double orphan] | -·182 | ·713 | 1·165 | 1365·000 | ·244 | 1·304 | ·834 | 2·040 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·027 | ·093 | 3·535 | 1365·000 | ·000 | 1·062 | 1·027 | 1·098 |
| [Gauteng] | ·196 | ·488 | 4·606 | 1365·000 | ·000 | 1·408 | 1·217 | 1·629 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: In the past 12 months have any of your sexual partners been five or more years o (reference category = No)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | In the past 12 months have any of your sexual partners been five or more years o | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | Yes | ·897 | ·791 | 1·016 |
| Dependent Variable: In the past 12 months have any of your sexual partners been five or more years o (reference category = No)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=21·37 | | | | | |

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| **Table S15: Multiple logistic regression for In schools vs· out of school and age disparate sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| In the past 12 months have any of your sexual partners been five or more years older | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -6·682 | -·739 | -2·451 | 771·000 | ·014 | ·024 | ·001 | ·477 |
| [In school and no CSE] | -·082 | ·473 | 1·385 | 771·000 | ·166 | 1·216 | ·922 | 1·605 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·422 | 2·125 | 1·313 | 771·000 | ·190 | 2·343 | ·656 | 8·373 |
| [Between R1001-R5000 per month] | -·507 | 1·944 | 1·151 | 771·000 | ·250 | 2·051 | ·602 | 6·987 |
| [More than R5001 per month] | -·630 | 1·908 | ·989 | 771·000 | ·323 | 1·895 | ·533 | 6·739 |
| [Dont know income] | -1·070 | 1·647 | ·417 | 771·000 | ·677 | 1·335 | ·343 | 5·193 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·382 | ·224 | -·513 | 771·000 | ·608 | ·924 | ·682 | 1·251 |
| [caregiver HIV positive] | -·310 | ·800 | ·866 | 771·000 | ·387 | 1·277 | ·733 | 2·225 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -1·441 | 2·352 | ·471 | 771·000 | ·637 | 1·577 | ·237 | 10·509 |
| [Single orphan] | -1·358 | 2·475 | ·572 | 771·000 | ·567 | 1·748 | ·257 | 11·882 |
| [Double orphan] | -1·382 | 2·495 | ·564 | 771·000 | ·573 | 1·744 | ·251 | 12·121 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | -·048 | ·177 | 1·122 | 771·000 | ·262 | 1·067 | ·953 | 1·194 |
| [Gauteng ] | ·036 | ·670 | 2·185 | 771·000 | ·029 | 1·423 | 1·037 | 1·954 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: In the past 12 months have any of your sexual partners been five or more years o (reference category = No)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | In the past 12 months have any of your sexual partners been five or more years o | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | Yes | ·822 | ·623 | 1·085 |
| Dependent Variable: In the past 12 months have any of your sexual partners been five or more years o (reference category = No)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=16·97 | | | | | |

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| **Table S16: Multiple logistic regression for In schools vs· out of school and transactional sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| Transactional sex | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -5·870 | -3·278 | -6·925 | 1414·000 | ·000 | ·010 | ·003 | ·038 |
| [currently attending school= No] | ·360 | 1·090 | 3·899 | 1414·000 | ·000 | 2·065 | 1·434 | 2·974 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·597 | 1·034 | ·526 | 1414·000 | ·599 | 1·244 | ·550 | 2·814 |
| [Between R1001-R5000 per month] | -1·164 | ·411 | -·937 | 1414·000 | ·349 | ·686 | ·312 | 1·509 |
| [More than R5001 per month] | -1·374 | ·263 | -1·331 | 1414·000 | ·184 | ·574 | ·253 | 1·301 |
| [Dont know income] | -·849 | ·805 | -·052 | 1414·000 | ·958 | ·978 | ·428 | 2·237 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·141 | ·255 | ·563 | 1414·000 | ·574 | 1·059 | ·868 | 1·291 |
| [caregiver HIV positive] | -·593 | ·586 | -·012 | 1414·000 | ·990 | ·996 | ·552 | 1·797 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·030 | ·667 | 1·794 | 1414·000 | ·073 | 1·375 | ·971 | 1·949 |
| [Single orphan] | ·112 | ·913 | 2·509 | 1414·000 | ·012 | 1·669 | 1·118 | 2·492 |
| [Double orphan] | ·308 | 1·258 | 3·232 | 1414·000 | ·001 | 2·187 | 1·360 | 3·517 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·042 | ·136 | 3·745 | 1414·000 | ·000 | 1·093 | 1·043 | 1·145 |
| overall\_exposure | -·019 | ·083 | 1·219 | 1414·000 | ·223 | 1·032 | ·981 | 1·087 |
| [Gauteng ] | -·267 | ·169 | -·439 | 1414·000 | ·661 | ·952 | ·766 | 1·185 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: trans\_sex\_bin (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | trans\_sex\_bin | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | 1·00 | ·484 | ·336 | ·697 |
| Dependent Variable: trans\_sex\_bin (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=20·69; overall\_exposure=2·1949 | | | | | |

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| **Table S17: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and transactional sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| Transactional sex | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -5·030 | -2·304 | -5·278 | 1365·000 | ·000 | ·026 | ·007 | ·100 |
| [Out of School no CSE] | -·048 | ·337 | 1·471 | 1365·000 | ·141 | 1·155 | ·953 | 1·400 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·767 | ·983 | ·243 | 1365·000 | ·808 | 1·114 | ·465 | 2·673 |
| [Between R1001-R5000 per month] | -1·279 | ·422 | -·988 | 1365·000 | ·323 | ·651 | ·278 | 1·525 |
| [More than R5001 per month] | -1·509 | ·244 | -1·415 | 1365·000 | ·157 | ·531 | ·221 | 1·277 |
| [Dont know income] | -·952 | ·830 | -·134 | 1365·000 | ·894 | ·941 | ·386 | 2·294 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·177 | ·257 | ·363 | 1365·000 | ·717 | 1·041 | ·838 | 1·293 |
| [caregiver HIV positive] | -·840 | ·648 | -·254 | 1365·000 | ·800 | ·908 | ·432 | 1·911 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·023 | ·716 | 1·841 | 1365·000 | ·066 | 1·414 | ·978 | 2·046 |
| [Single orphan] | -·036 | ·911 | 1·812 | 1365·000 | ·070 | 1·549 | ·964 | 2·488 |
| [Double orphan] | ·211 | 1·306 | 2·719 | 1365·000 | ·007 | 2·136 | 1·235 | 3·692 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·034 | ·131 | 3·365 | 1365·000 | ·001 | 1·086 | 1·035 | 1·140 |
| [Gauteng ] | -·300 | ·161 | -·592 | 1365·000 | ·554 | ·933 | ·741 | 1·175 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: trans\_sex\_bin (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | trans\_sex\_bin | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | 1·00 | ·866 | ·714 | 1·049 |
| Dependent Variable: trans\_sex\_bin (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=21·37 | | | | | |

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| **Table S18: Multiple logistic regression for In schools vs· out of school and transactional sex in DREAMS provinces 2018-2019** | | | | | | | | | |
| Transactional sex | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -26·009 | -26·009 | · | 771·000 | · | 5·065E-12 | 5·065E-12 | 5·065E-12 |
| [In school and no CSE] | -·482 | ·528 | ·091 | 771·000 | ·927 | 1·024 | ·618 | 1·696 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -1·204 | 2·715 | ·757 | 771·000 | ·449 | 2·129 | ·300 | 15·108 |
| [Between R1001-R5000 per month] | -2·078 | 1·717 | -·187 | 771·000 | ·852 | ·835 | ·125 | 5·567 |
| [More than R5001 per month] | -2·167 | 1·928 | -·114 | 771·000 | ·909 | ·887 | ·115 | 6·874 |
| [Dont know income] | -1·882 | 2·275 | ·185 | 771·000 | ·853 | 1·217 | ·152 | 9·725 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·216 | ·862 | 1·176 | 771·000 | ·240 | 1·381 | ·806 | 2·367 |
| [caregiver HIV positive] | -·487 | 1·359 | ·927 | 771·000 | ·354 | 1·546 | ·614 | 3·891 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | 19·954 | 19·954 | · | 771·000 | · | 463200069·519 | 463200069·519 | 463200069·519 |
| [Single orphan] | -6·403 | 47·013 | 1·492 | 771·000 | ·136 | 658375146·647 | ·002 | 261611024483703900000·000 |
| [Double orphan] | 20·562 | 20·562 | · | 771·000 | · | 850745698·408 | 850745698·408 | 850745698·408 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | -·046 | ·380 | 1·539 | 771·000 | ·124 | 1·182 | ·955 | 1·462 |
| [Gauteng ] | -·550 | ·546 | -·007 | 771·000 | ·994 | ·998 | ·577 | 1·727 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: trans\_sex\_bin (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | trans\_sex\_bin | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | 1·00 | ·977 | ·590 | 1·619 |
| Dependent Variable: trans\_sex\_bin (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=16·97 | | | | | |

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| **Table S19: Multiple logistic regression for In schools vs· out of school and condom use in DREAMS provinces 2018-2019** | | | | | | | | | |
| Inconsistent condom use previous 12 months | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Inconsistent | (Intercept) | -·925 | ·977 | ·054 | 1414·000 | ·957 | 1·026 | ·397 | 2·656 |
| [currently attending school= No] | ·171 | ·687 | 3·260 | 1414·000 | ·001 | 1·536 | 1·186 | 1·989 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | ·345 | 1·473 | 3·163 | 1414·000 | ·002 | 2·482 | 1·412 | 4·363 |
| [Between R1001-R5000 per month] | ·129 | 1·203 | 2·432 | 1414·000 | ·015 | 1·947 | 1·138 | 3·331 |
| [More than R5001 per month] | ·095 | 1·210 | 2·296 | 1414·000 | ·022 | 1·920 | 1·100 | 3·353 |
| [Dont know income] | ·027 | 1·180 | 2·054 | 1414·000 | ·040 | 1·829 | 1·028 | 3·256 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·400 | -·094 | -3·174 | 1414·000 | ·002 | ·781 | ·671 | ·910 |
| [caregiver HIV positive] | -·597 | ·190 | -1·014 | 1414·000 | ·311 | ·816 | ·550 | 1·210 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·239 | ·274 | ·133 | 1414·000 | ·894 | 1·017 | ·787 | 1·315 |
| [Single orphan] | -·112 | ·444 | 1·170 | 1414·000 | ·242 | 1·180 | ·894 | 1·558 |
| [Double orphan] | -·070 | ·715 | 1·613 | 1414·000 | ·107 | 1·381 | ·933 | 2·044 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·005 | ·080 | 2·229 | 1414·000 | ·026 | 1·043 | 1·005 | 1·083 |
| overall\_exposure | -·144 | -·067 | -5·371 | 1414·000 | ·000 | ·900 | ·866 | ·935 |
| [Gauteng ] | -·692 | -·391 | -7·045 | 1414·000 | ·000 | ·582 | ·500 | ·677 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: inconsistent\_condom\_use\_previous12 (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | inconsistent\_condom\_use\_previous12 | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | 1·00 | ·651 | ·503 | ·843 |
| Dependent Variable: inconsistent\_condom\_use\_previous12 (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=20·69; overall\_exposure=2·1949 | | | | | |

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| **Table S20: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and condom use in DREAMS provinces 2018-2019** | | | | | | | | | |
| Inconsistent condom use previous 12 months | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -1·611 | ·628 | -·862 | 1365·000 | ·389 | ·612 | ·200 | 1·874 |
| [Out of School no CSE] | ·254 | ·555 | 5·266 | 1365·000 | ·000 | 1·498 | 1·289 | 1·741 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | ·281 | 1·661 | 2·760 | 1365·000 | ·006 | 2·640 | 1·324 | 5·264 |
| [Between R1001-R5000 per month] | ·033 | 1·354 | 2·061 | 1365·000 | ·040 | 2·001 | 1·034 | 3·871 |
| [More than R5001 per month] | -·013 | 1·342 | 1·924 | 1365·000 | ·055 | 1·944 | ·987 | 3·828 |
| [Dont know income] | -·110 | 1·316 | 1·659 | 1365·000 | ·097 | 1·827 | ·896 | 3·727 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·446 | -·079 | -2·804 | 1365·000 | ·005 | ·769 | ·640 | ·924 |
| [caregiver HIV positive] | -·639 | ·706 | ·098 | 1365·000 | ·922 | 1·034 | ·528 | 2·026 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·286 | ·326 | ·127 | 1365·000 | ·899 | 1·020 | ·751 | 1·385 |
| [Single orphan] | -·044 | ·724 | 1·736 | 1365·000 | ·083 | 1·405 | ·957 | 2·063 |
| [Double orphan] | -·208 | ·957 | 1·262 | 1365·000 | ·207 | 1·455 | ·813 | 2·604 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·019 | ·103 | 2·829 | 1365·000 | ·005 | 1·063 | 1·019 | 1·108 |
| [Gauteng ] | -·641 | -·280 | -5·016 | 1365·000 | ·000 | ·631 | ·527 | ·755 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: inconsistent\_condom\_use\_previous12 (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | inconsistent\_condom\_use\_previous12 | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | 1·00 | ·668 | ·574 | ·776 |
| Dependent Variable: inconsistent\_condom\_use\_previous12 (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=21·37 | | | | | |

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| **Table S21: Multiple logistic regression for In schools vs· out of school and condom use in DREAMS provinces 2018-2019** | | | | | | | | | |
| Inconsistent condom use previous 12 | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| inconsistent | (Intercept) | -758·627 | 808·999 | ·063 | 771·000 | ·950 | 86694795641·301 | ·000 | ·a |
| [In school and no CSE] | -·053 | ·490 | 1·580 | 771·000 | ·114 | 1·244 | ·948 | 1·632 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·328 | 1·685 | 1·323 | 771·000 | ·186 | 1·971 | ·720 | 5·394 |
| [Between R1001-R5000 per month] | -·304 | 1·624 | 1·344 | 771·000 | ·179 | 1·935 | ·738 | 5·072 |
| [More than R5001 per month] | -·302 | 1·677 | 1·364 | 771·000 | ·173 | 1·989 | ·739 | 5·352 |
| [Dont know income] | -·403 | 1·687 | 1·205 | 771·000 | ·228 | 1·900 | ·668 | 5·402 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·762 | -·160 | -3·003 | 771·000 | ·003 | ·631 | ·467 | ·852 |
| [caregiver HIV positive] | -1·271 | -·225 | -2·809 | 771·000 | ·005 | ·473 | ·281 | ·798 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -821·427 | 778·333 | -·053 | 771·000 | ·958 | 4·388E-10 | ·000 | ·a |
| [Single orphan] | -766·750 | 723·714 | -·057 | 771·000 | ·955 | 4·516E-10 | ·000 | ·a |
| [Double orphan] | -796·575 | 753·890 | -·054 | 771·000 | ·957 | 5·382E-10 | ·000 | ·a |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | -·276 | -·060 | -3·047 | 771·000 | ·002 | ·846 | ·759 | ·942 |
| [Gauteng ] | -1·134 | -·551 | -5·669 | 771·000 | ·000 | ·431 | ·322 | ·577 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: inconsistent\_condom\_use\_previous12 (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |
| a· Set to system missing because floating point overflow occurred while computing this value· | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | inconsistent\_condom\_use\_previous12 | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | 1·00 | ·804 | ·613 | 1·054 |
| Dependent Variable: inconsistent\_condom\_use\_previous12 (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=16·97 | | | | | |

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| **Table S22: Multiple logistic regression for In schools vs· out of school and multiple sexual partners in DREAMS provinces 2018-2019** | | | | | | | | | |
| Two or more sex partners in previous 12 months | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -3·702 | -2·132 | -7·291 | 1414·000 | ·000 | ·054 | ·025 | ·119 |
| [currently attending school= No] | ·295 | ·741 | 4·547 | 1414·000 | ·000 | 1·679 | 1·342 | 2·099 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·579 | ·355 | -·470 | 1414·000 | ·638 | ·894 | ·560 | 1·427 |
| [Between R1001-R5000 per month] | -·478 | ·416 | -·136 | 1414·000 | ·892 | ·970 | ·620 | 1·516 |
| [More than R5001 per month] | -·551 | ·366 | -·395 | 1414·000 | ·693 | ·912 | ·577 | 1·442 |
| [Dont know income] | -·707 | ·253 | -·927 | 1414·000 | ·354 | ·797 | ·493 | 1·288 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | ·024 | ·276 | 2·334 | 1414·000 | ·020 | 1·162 | 1·024 | 1·318 |
| [caregiver HIV positive] | -·260 | ·430 | ·485 | 1414·000 | ·628 | 1·089 | ·771 | 1·538 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·199 | ·242 | ·189 | 1414·000 | ·850 | 1·021 | ·819 | 1·273 |
| [Single orphan] | -·431 | ·086 | -1·312 | 1414·000 | ·190 | ·841 | ·650 | 1·089 |
| [Double orphan] | -·271 | ·390 | ·355 | 1414·000 | ·722 | 1·062 | ·763 | 1·477 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·091 | ·153 | 7·781 | 1414·000 | ·000 | 1·130 | 1·096 | 1·165 |
| overall\_exposure | -·041 | ·026 | -·419 | 1414·000 | ·675 | ·993 | ·960 | 1·027 |
| [Gauteng ] | ·417 | ·686 | 8·037 | 1414·000 | ·000 | 1·736 | 1·518 | 1·987 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: two\_more\_sex\_partners (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | two\_more\_sex\_partners | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | 1·00 | ·596 | ·476 | ·745 |
| Dependent Variable: two\_more\_sex\_partners (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=20·69; overall\_exposure=2·1949 | | | | | |

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| **Table S23: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and multiple sex partners in DREAMS provinces 2018-2019** | | | | | | | | | |
| Two or more sex partners | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -3·020 | -1·228 | -4·650 | 1365·000 | ·000 | ·120 | ·049 | ·293 |
| [Out of School no CSE] | -·044 | ·199 | 1·256 | 1365·000 | ·209 | 1·081 | ·957 | 1·221 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·730 | ·419 | -·531 | 1365·000 | ·595 | ·856 | ·482 | 1·520 |
| [Between R1001-R5000 per month] | -·604 | ·501 | -·181 | 1365·000 | ·856 | ·950 | ·547 | 1·651 |
| [More than R5001 per month] | -·659 | ·464 | -·340 | 1365·000 | ·734 | ·907 | ·518 | 1·591 |
| [Dont know income] | -·882 | ·321 | -·913 | 1365·000 | ·361 | ·756 | ·414 | 1·379 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | ·046 | ·332 | 2·585 | 1365·000 | ·010 | 1·208 | 1·047 | 1·394 |
| [caregiver HIV positive] | -·301 | ·765 | ·854 | 1365·000 | ·393 | 1·261 | ·740 | 2·149 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·310 | ·185 | -·496 | 1365·000 | ·620 | ·939 | ·733 | 1·203 |
| [Single orphan] | -·416 | ·233 | -·553 | 1365·000 | ·581 | ·913 | ·660 | 1·262 |
| [Double orphan] | -·501 | ·340 | -·375 | 1365·000 | ·708 | ·923 | ·606 | 1·406 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·072 | ·139 | 6·201 | 1365·000 | ·000 | 1·111 | 1·075 | 1·149 |
| [Gauteng ] | ·468 | ·773 | 8·002 | 1365·000 | ·000 | 1·860 | 1·597 | 2·165 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: two\_more\_sex\_partners (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | two\_more\_sex\_partners | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | 1·00 | ·925 | ·819 | 1·045 |
| Dependent Variable: two\_more\_sex\_partners (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=21·37 | | | | | |

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| **Table S24: Multiple logistic regression for In schools vs· out of school and multiple partners in DREAMS provinces 2018-2019** | | | | | | | | | |
| Two or more sex partners | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -8·491 | -2·793 | -3·887 | 771·000 | ·000 | ·004 | ·000 | ·061 |
| [In school and no CSE] | -·121 | ·411 | 1·069 | 771·000 | ·285 | 1·156 | ·886 | 1·508 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -1·097 | ·892 | -·202 | 771·000 | ·840 | ·903 | ·334 | 2·441 |
| [Between R1001-R5000 per month] | -1·094 | ·801 | -·303 | 771·000 | ·762 | ·864 | ·335 | 2·228 |
| [More than R5001 per month] | -1·229 | ·744 | -·483 | 771·000 | ·630 | ·785 | ·293 | 2·104 |
| [Dont know income] | -1·261 | ·762 | -·484 | 771·000 | ·629 | ·779 | ·283 | 2·143 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·094 | ·455 | 1·289 | 771·000 | ·198 | 1·198 | ·910 | 1·577 |
| [caregiver HIV positive] | -·407 | ·682 | ·496 | 771·000 | ·620 | 1·147 | ·665 | 1·979 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -1·458 | 1·989 | ·303 | 771·000 | ·762 | 1·305 | ·233 | 7·312 |
| [Single orphan] | -1·750 | 1·736 | -·008 | 771·000 | ·994 | ·993 | ·174 | 5·677 |
| [Double orphan] | -1·299 | 2·201 | ·506 | 771·000 | ·613 | 1·570 | ·273 | 9·038 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·158 | ·389 | 4·640 | 771·000 | ·000 | 1·314 | 1·171 | 1·476 |
| [Gauteng ] | ·147 | ·681 | 3·048 | 771·000 | ·002 | 1·513 | 1·159 | 1·976 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: two\_more\_sex\_partners (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | two\_more\_sex\_partners | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | 1·00 | ·865 | ·663 | 1·129 |
| Dependent Variable: two\_more\_sex\_partners (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=16·97 | | | | | |

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| **Table S25: Multiple logistic regression for In schools vs· out of school and pregnancy in DREAMS provinces 2018-2019** | | | | | | | | | |
| Have you ever been pregnant ? | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -6·856 | -5·073 | -13·118 | 1407·000 | ·000 | ·003 | ·001 | ·006 |
| [currently attending school= No] | ·509 | ·951 | 6·486 | 1407·000 | ·000 | 2·075 | 1·664 | 2·588 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·132 | 1·068 | 1·530 | 1407·000 | ·126 | 1·597 | ·876 | 2·911 |
| [Between R1001-R5000 per month] | -·605 | ·556 | -·083 | 1407·000 | ·934 | ·976 | ·546 | 1·743 |
| [More than R5001 per month] | -·952 | ·232 | -1·193 | 1407·000 | ·233 | ·698 | ·386 | 1·261 |
| [Dont know income] | -·800 | ·457 | -·535 | 1407·000 | ·593 | ·842 | ·449 | 1·579 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·412 | -·147 | -4·135 | 1407·000 | ·000 | ·756 | ·662 | ·863 |
| [caregiver HIV positive] | -·124 | ·554 | 1·243 | 1407·000 | ·214 | 1·240 | ·883 | 1·740 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | ·135 | ·553 | 3·231 | 1407·000 | ·001 | 1·410 | 1·145 | 1·738 |
| [Single orphan] | ·171 | ·658 | 3·341 | 1407·000 | ·001 | 1·513 | 1·187 | 1·930 |
| [Double orphan] | ·229 | ·971 | 3·173 | 1407·000 | ·002 | 1·822 | 1·258 | 2·641 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·249 | ·314 | 17·111 | 1407·000 | ·000 | 1·325 | 1·283 | 1·369 |
| overall\_exposure | -·023 | ·043 | ·582 | 1407·000 | ·561 | 1·010 | ·977 | 1·043 |
| [Gauteng ] | -·636 | -·387 | -8·062 | 1407·000 | ·000 | ·600 | ·530 | ·679 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: Have you ever been pregnant ? (reference category = No)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | Have you ever been pregnant ? | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | Yes | ·482 | ·386 | ·601 |
| Dependent Variable: Have you ever been pregnant ? (reference category = No)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=20·68; overall\_exposure=2·2109 | | | | | |

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| **Table S26: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and pregnant in DREAMS provinces 2018-2019** | | | | | | | | | |
| Have you ever been pregnant? | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -6·134 | -4·157 | -10·212 | 1357·000 | ·000 | ·006 | ·002 | ·016 |
| [Out of School no CSE] | ·115 | ·350 | 3·878 | 1357·000 | ·000 | 1·262 | 1·122 | 1·419 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·270 | 1·140 | 1·210 | 1357·000 | ·226 | 1·545 | ·763 | 3·126 |
| [Between R1001-R5000 per month] | -·712 | ·657 | -·079 | 1357·000 | ·937 | ·973 | ·491 | 1·928 |
| [More than R5001 per month] | -1·093 | ·301 | -1·115 | 1357·000 | ·265 | ·673 | ·335 | 1·351 |
| [Dont know income] | -1·011 | ·463 | -·730 | 1357·000 | ·465 | ·760 | ·364 | 1·588 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·430 | -·135 | -3·754 | 1357·000 | ·000 | ·754 | ·651 | ·874 |
| [caregiver HIV positive] | -·204 | ·810 | 1·173 | 1357·000 | ·241 | 1·354 | ·816 | 2·247 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·010 | ·462 | 1·877 | 1357·000 | ·061 | 1·254 | ·990 | 1·588 |
| [Single orphan] | ·223 | ·844 | 3·367 | 1357·000 | ·001 | 1·704 | 1·249 | 2·325 |
| [Double orphan] | ·260 | 1·177 | 3·072 | 1357·000 | ·002 | 2·051 | 1·296 | 3·244 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·239 | ·306 | 15·881 | 1357·000 | ·000 | 1·313 | 1·269 | 1·358 |
| [Gauteng ] | -·656 | -·382 | -7·434 | 1357·000 | ·000 | ·595 | ·519 | ·683 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: Have you ever been pregnant ? (reference category = No)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | Have you ever been pregnant ? | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | Yes | ·793 | ·705 | ·891 |
| Dependent Variable: Have you ever been pregnant ? (reference category = No)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=21·37 | | | | | |

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| **Table S27: Multiple logistic regression for In schools vs· out of school and pregnancy in DREAMS provinces 2018-2019** | | | | | | | | | |
| Have you ever been pregnant? | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -9·797 | -3·190 | -3·859 | 758·000 | ·000 | ·002 | 5·563E-5 | ·041 |
| [In school and no CSE] | -·432 | ·175 | -·828 | 758·000 | ·408 | ·880 | ·649 | 1·192 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·586 | 1·731 | ·970 | 758·000 | ·332 | 1·773 | ·557 | 5·646 |
| [Between R1001-R5000 per month] | -1·150 | 1·080 | -·062 | 758·000 | ·951 | ·966 | ·317 | 2·945 |
| [More than R5001 per month] | -1·261 | 1·045 | -·184 | 758·000 | ·854 | ·897 | ·283 | 2·844 |
| [Dont know income] | -·880 | 1·514 | ·520 | 758·000 | ·603 | 1·373 | ·415 | 4·544 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·650 | -·002 | -1·977 | 758·000 | ·048 | ·722 | ·522 | ·998 |
| [caregiver HIV positive] | -·407 | ·696 | ·513 | 758·000 | ·608 | 1·155 | ·665 | 2·005 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -1·677 | 2·655 | ·443 | 758·000 | ·658 | 1·631 | ·187 | 14·223 |
| [Single orphan] | -1·822 | 2·521 | ·316 | 758·000 | ·752 | 1·419 | ·162 | 12·447 |
| [Double orphan] | -1·775 | 2·683 | ·400 | 758·000 | ·689 | 1·575 | ·170 | 14·632 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·181 | ·437 | 4·732 | 758·000 | ·000 | 1·362 | 1·198 | 1·548 |
| [Gauteng ] | -·775 | -·173 | -3·092 | 758·000 | ·002 | ·622 | ·461 | ·841 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: Have you ever been pregnant ? (reference category = No)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | Have you ever been pregnant ? | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | Yes | 1·137 | ·839 | 1·540 |
| Dependent Variable: Have you ever been pregnant ? (reference category = No)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=16·92 | | | | | |

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| **Table S28: Multiple logistic regression for In schools vs· out of school and condom self-efficacy in DREAMS provinces 2018-2019** | | | | | | | | | |
| Obtain condoms | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -5·008 | -3·893 | -15·655 | 1498·000 | ·000 | ·012 | ·007 | ·020 |
| [currently attending school= No] | ·212 | ·539 | 4·510 | 1498·000 | ·000 | 1·456 | 1·236 | 1·714 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·725 | -·086 | -2·493 | 1498·000 | ·013 | ·667 | ·485 | ·917 |
| [Between R1001-R5000 per month] | -·719 | -·107 | -2·646 | 1498·000 | ·008 | ·662 | ·487 | ·899 |
| [More than R5001 per month] | -·580 | ·061 | -1·587 | 1498·000 | ·113 | ·771 | ·560 | 1·063 |
| [Dont know income] | -·602 | ·076 | -1·522 | 1498·000 | ·128 | ·769 | ·548 | 1·079 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·214 | ·001 | -1·952 | 1498·000 | ·051 | ·899 | ·808 | 1·001 |
| [caregiver HIV positive] | -·362 | ·039 | -1·577 | 1498·000 | ·115 | ·851 | ·696 | 1·040 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·001 | ·353 | 1·953 | 1498·000 | ·051 | 1·193 | ·999 | 1·424 |
| [Single orphan] | -·133 | ·242 | ·571 | 1498·000 | ·568 | 1·056 | ·875 | 1·274 |
| [Double orphan] | -·189 | ·257 | ·300 | 1498·000 | ·764 | 1·035 | ·828 | 1·293 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·211 | ·255 | 20·844 | 1498·000 | ·000 | 1·262 | 1·235 | 1·290 |
| overall\_exposure | ·165 | ·223 | 13·170 | 1498·000 | ·000 | 1·214 | 1·179 | 1·250 |
| [Gauteng ] | -·085 | ·134 | ·434 | 1498·000 | ·664 | 1·025 | ·918 | 1·143 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: obtain\_cond\_bin (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | obtain\_cond\_bin | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | 1·00 | ·687 | ·583 | ·809 |
| Dependent Variable: obtain\_cond\_bin (reference category = ·00)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=18·47; overall\_exposure=2·2675 | | | | | |

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| **Table S29: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and obtain condoms in DREAMS provinces 2018-2019** | | | | | | | | | |
| Obtain condoms | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -1·855 | -·091 | -2·165 | 1314·000 | ·031 | ·378 | ·156 | ·913 |
| [Out of School no CSE] | -·492 | -·237 | -5·612 | 1314·000 | ·000 | ·695 | ·612 | ·789 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -1·280 | -·095 | -2·275 | 1314·000 | ·023 | ·503 | ·278 | ·910 |
| [Between R1001-R5000 per month] | -1·240 | -·094 | -2·285 | 1314·000 | ·022 | ·513 | ·289 | ·910 |
| [More than R5001 per month] | -1·142 | ·042 | -1·822 | 1314·000 | ·069 | ·577 | ·319 | 1·043 |
| [Dont know income] | -1·017 | ·184 | -1·359 | 1314·000 | ·174 | ·660 | ·362 | 1·203 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·173 | ·143 | -·188 | 1314·000 | ·851 | ·985 | ·841 | 1·153 |
| [caregiver HIV positive] | -·076 | 1·091 | 1·706 | 1314·000 | ·088 | 1·661 | ·927 | 2·977 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·356 | ·098 | -1·115 | 1314·000 | ·265 | ·879 | ·700 | 1·103 |
| [Single orphan] | -·839 | -·280 | -3·924 | 1314·000 | ·000 | ·572 | ·432 | ·756 |
| [Double orphan] | -·682 | ·045 | -1·719 | 1314·000 | ·086 | ·727 | ·506 | 1·046 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·096 | ·158 | 7·950 | 1314·000 | ·000 | 1·135 | 1·100 | 1·171 |
| [Gauteng ] | -·100 | ·204 | ·667 | 1314·000 | ·505 | 1·053 | ·904 | 1·226 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: obtain\_cond\_bin (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | obtain\_cond\_bin | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | 1·00 | 1·439 | 1·267 | 1·635 |
| Dependent Variable: obtain\_cond\_bin (reference category = ·00)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=21·12 | | | | | |

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| **Table S30: Multiple logistic regression for In schools vs· out of school and obtain condoms in DREAMS provinces 2018-2019** | | | | | | | | | |
| Obtain condoms | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| 1·00 | (Intercept) | -27·238 | -27·238 | · | 1317·000 | · | 1·482E-12 | 1·482E-12 | 1·482E-12 |
| [In school and no CSE] | -·553 | -·281 | -6·000 | 1317·000 | ·000 | ·659 | ·575 | ·755 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·723 | ·095 | -1·506 | 1317·000 | ·132 | ·731 | ·485 | 1·100 |
| [Between R1001-R5000 per month] | -·807 | -·035 | -2·141 | 1317·000 | ·032 | ·656 | ·446 | ·965 |
| [More than R5001 per month] | -·653 | ·169 | -1·154 | 1317·000 | ·249 | ·785 | ·521 | 1·184 |
| [Dont know income] | -·807 | ·066 | -1·666 | 1317·000 | ·096 | ·690 | ·446 | 1·068 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·078 | ·201 | ·867 | 1317·000 | ·386 | 1·064 | ·925 | 1·223 |
| [caregiver HIV positive] | -·268 | ·215 | -·216 | 1317·000 | ·829 | ·974 | ·765 | 1·240 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -1839·326 | 1882·721 | ·023 | 1317·000 | ·982 | 2649297845·258 | ·000 | ·a |
| [Single orphan] | -1915·629 | 1958·893 | ·022 | 1317·000 | ·983 | 2480855187·105 | ·000 | ·a |
| [Double orphan] | 21·579 | 21·579 | · | 1317·000 | · | 2354086821·729 | 2354086821·729 | 2354086821·729 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·318 | ·381 | 21·579 | 1317·000 | ·000 | 1·418 | 1·374 | 1·464 |
| [Gauteng ] | -·147 | ·144 | -·024 | 1317·000 | ·981 | ·998 | ·863 | 1·154 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: obtain\_cond\_bin (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |
| a· Set to system missing because floating point overflow occurred while computing this value· | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | obtain\_cond\_bin | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | 1·00 | 1·517 | 1·324 | 1·739 |
| Dependent Variable: obtain\_cond\_bin (reference category = ·00)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=14·99 | | | | | |

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| **Table S31: Multiple logistic regression for In schools vs· out of school and had an HIV test in DREAMS provinces 2018-2019** | | | | | | | | | |
| Have you ever had an HIV test? | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -4·774 | -3·815 | -17·577 | 1650·000 | ·000 | ·014 | ·008 | ·022 |
| [currently attending school= No] | ·203 | ·529 | 4·407 | 1650·000 | ·000 | 1·442 | 1·225 | 1·697 |
| [currently attending school= Yes] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·153 | ·460 | ·985 | 1650·000 | ·325 | 1·166 | ·858 | 1·585 |
| [Between R1001-R5000 per month] | -·216 | ·353 | ·474 | 1650·000 | ·636 | 1·071 | ·806 | 1·424 |
| [More than R5001 per month] | -·093 | ·501 | 1·346 | 1650·000 | ·178 | 1·226 | ·911 | 1·651 |
| [Dont know income] | -·081 | ·540 | 1·449 | 1650·000 | ·148 | 1·258 | ·922 | 1·716 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·172 | ·018 | -1·591 | 1650·000 | ·112 | ·926 | ·842 | 1·018 |
| [caregiver HIV positive] | ·087 | ·436 | 2·936 | 1650·000 | ·003 | 1·299 | 1·091 | 1·547 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | ·016 | ·328 | 2·157 | 1650·000 | ·031 | 1·187 | 1·016 | 1·388 |
| [Single orphan] | -·039 | ·293 | 1·504 | 1650·000 | ·133 | 1·136 | ·962 | 1·341 |
| [Double orphan] | ·032 | ·451 | 2·265 | 1650·000 | ·024 | 1·274 | 1·033 | 1·570 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·221 | ·261 | 23·542 | 1650·000 | ·000 | 1·273 | 1·247 | 1·298 |
| overall\_exposure | ·190 | ·244 | 15·627 | 1650·000 | ·000 | 1·242 | 1·209 | 1·277 |
| [Gauteng ] | -·452 | -·252 | -6·880 | 1650·000 | ·000 | ·703 | ·636 | ·777 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: Have you ever had an HIV test? (reference category = No)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | Have you ever had an HIV test? | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| currently\_attending\_school | Yes vs· No | Yes | ·694 | ·589 | ·816 |
| Dependent Variable: Have you ever had an HIV test? (reference category = No)  Model: (Intercept), currently\_attending\_school, total\_income, cg\_hiv\_status, orphanhood, age, overall\_exposure, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: currently\_attending\_school=Yes; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=18·44; overall\_exposure=2·2717 | | | | | |

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| **Table S32: Multiple logistic regression Out of school no CSE vs Out of school attended CSE and had an HIV test in DREAMS provinces 2018-2019** | | | | | | | | | |
| Have you ever had an HIV test? | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -3·315 | -1·604 | -5·638 | 1456·000 | ·000 | ·085 | ·036 | ·201 |
| [Out of School no CSE] | -·573 | -·271 | -5·474 | 1456·000 | ·000 | ·656 | ·564 | ·763 |
| [Out of school attended CSE] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·903 | ·360 | -·843 | 1456·000 | ·399 | ·762 | ·405 | 1·433 |
| [Between R1001-R5000 per month] | -·783 | ·457 | -·515 | 1456·000 | ·607 | ·850 | ·457 | 1·580 |
| [More than R5001 per month] | -·499 | ·784 | ·435 | 1456·000 | ·663 | 1·153 | ·607 | 2·189 |
| [Dont know income] | -·565 | ·720 | ·236 | 1456·000 | ·814 | 1·080 | ·568 | 2·054 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | -·462 | -·126 | -3·424 | 1456·000 | ·001 | ·745 | ·630 | ·882 |
| [caregiver HIV positive] | -·242 | ·981 | 1·184 | 1456·000 | ·236 | 1·447 | ·785 | 2·667 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·190 | ·250 | 14·306 | 1456·000 | ·000 | 1·246 | 1·209 | 1·284 |
| [Gauteng ] | -·436 | -·087 | -2·941 | 1456·000 | ·003 | ·770 | ·647 | ·917 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: Have you ever had an HIV test? (reference category = No)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | Have you ever had an HIV test? | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| out\_of\_school\_CSE | Attended sex ed out of school now vs· Did not attended sex ed now out of school now | Yes | 1·525 | 1·311 | 1·774 |
| Dependent Variable: Have you ever had an HIV test? (reference category = No)  Model: (Intercept), out\_of\_school\_CSE, total\_income, cg\_hiv\_status, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: out\_of\_school\_CSE=Attended sex ed out of school now; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; Text=KwaZulu-Natal; Participant's age:=21·14 | | | | | |

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| **Table S33: Multiple logistic regression for In schools vs· out of school and HIV test in DREAMS provinces 2018-2019** | | | | | | | | | |
| Have you ever had an HIV test? | Parameter | 95% Confidence Interval | | Hypothesis Test | | | Exp(B) | 95% Confidence Interval for Exp(B) | |
| Lower | Upper | t | df | Sig· | Lower | Upper |
| Yes | (Intercept) | -4·460 | -3·006 | -10·072 | 1446·000 | ·000 | ·024 | ·012 | ·049 |
| [In school and no CSE] | -·503 | -·279 | -6·841 | 1446·000 | ·000 | ·677 | ·605 | ·757 |
| [In school and attended CSE ] | · | · | · | · | · | 1·000 | · | · |
| [Less than R1000 per month] | -·050 | ·650 | 1·679 | 1446·000 | ·093 | 1·350 | ·951 | 1·915 |
| [Between R1001-R5000 per month] | -·202 | ·458 | ·760 | 1446·000 | ·447 | 1·137 | ·817 | 1·582 |
| [More than R5001 per month] | -·288 | ·406 | ·332 | 1446·000 | ·740 | 1·061 | ·750 | 1·500 |
| [Dont know income] | -·178 | ·575 | 1·033 | 1446·000 | ·302 | 1·219 | ·837 | 1·776 |
| [Refused] | · | · | · | · | · | 1·000 | · | · |
| [caregiver HIV negative/indeterminate/refused] | ·209 | ·427 | 5·720 | 1446·000 | ·000 | 1·375 | 1·233 | 1·533 |
| [caregiver HIV positive] | ·322 | ·694 | 5·348 | 1446·000 | ·000 | 1·662 | 1·379 | 2·002 |
| [Caregiver HIV data missing] | · | · | · | · | · | 1·000 | · | · |
| [Not an orphan] | -·820 | ·211 | -1·160 | 1446·000 | ·246 | ·737 | ·440 | 1·234 |
| [Single orphan] | -·808 | ·243 | -1·056 | 1446·000 | ·291 | ·754 | ·446 | 1·275 |
| [Double orphan] | -·714 | ·395 | -·564 | 1446·000 | ·573 | ·853 | ·490 | 1·485 |
| [Orphan data missing] | · | · | · | · | · | 1·000 | · | · |
| age | ·244 | ·294 | 21·033 | 1446·000 | ·000 | 1·309 | 1·277 | 1·342 |
| [Gauteng ] | -·696 | -·465 | -9·880 | 1446·000 | ·000 | ·559 | ·499 | ·628 |
| [KwaZulu-Natal] | · | · | · | · | · | 1·000 | · | · |
| Dependent Variable: Have you ever had an HIV test? (reference category = No)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | | | | | |

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| **Odds Ratiosa** | | | | | |
|  |  | Have you ever had an HIV test? | Odds Ratio | 95% Confidence Interval | |
|  |  | Lower | Upper |
| Sexed\_school | Attended sex ed and school vs· Did not attend sex ed/school | Yes | 1·478 | 1·321 | 1·653 |
| Dependent Variable: Have you ever had an HIV test? (reference category = No)  Model: (Intercept), Sexed\_school, total\_income, cg\_hiv\_status, orphanhood, age, province\_A | | | | | |
| a· Factors and covariates used in the computation are fixed at the following values: Sexed\_school=Attended sex ed and school; What is the approximate total family/household income including grants and after=Refused; cg\_hiv\_status=Data missing; orphanhood=Data missing; Text=KwaZulu-Natal; Participant's age:=14·98 | | | | | |