

## Supplements

Supplement Table 1. Follow-up between Harvest 1 and Harvest 2

| <b>Job</b>                                  | <b>Field support staff</b> | <b>Irrigation repair workers</b> | <b>Seed cutters</b> | <b>Burned cane cutters</b> |
|---|----------------------------|----------------------------------|---------------------|----------------------------|
| Any kind of follow-up Harvest 1             | 52                         | 128                              | 188                 | 157                        |
| Returned to Harvest 2 baseline examination  | 41 (76%)                   | 113 (88%)                        | 165 (87%)           | 127 (80%)                  |
| Provided serum samples                      | 38 (93%)                   | 108 (96%)                        | 154 (93%)           | 116 (91%)                  |
| Applied for work Harvest 2                  | 37 (90%)                   | 101 (89%)                        | 116 (70%)           | 88 (69%)                   |
| Not hired                                   | 1 (3%)                     | 3 (3%)                           | 19 (16%)            | 7 (8%)                     |
| SCr $\geq$ cut-off                          | 0                          | 0                                | 9 (47%)             | 4 (57%)                    |
| SCr <cut-off                                | 1                          | 3                                | 10 (53%)            | 3 (43%)                    |
| Applied to other than the four jobs studied | 12 (32%)                   | 14 (14%)                         | 3 (3%)              | 5 (6%)                     |
| Applied to one of four jobs studied         | 24 (65%)                   | 84 (83%)                         | 94 (81%)            | 76 (86%)                   |
| Applied to the same job as in Harvest 1     | 20 (54%)                   | 77 (76%)                         | 85 (73%)            | 74 (84%)                   |

Indentation denotes row is nested within the superior level row with less indentions. Percentages are calculated within this superior level. Categories with the same indentation nested within a superior level are not necessarily mutually exclusive.

Supplement Table 2. Expanded table on participation by job during Harvest 2

| <b>2A. Job applied for at baseline</b>  | <b>Field support staff</b> | <b>Irrigation repair workers</b> | <b>Seed cutters</b> | <b>Burned cane cutters</b> |
|---|----------------------------|----------------------------------|---------------------|----------------------------|
| Applicants who accepted participation and had baseline questionnaire and serum samples <sup>1</sup>     | 64                         | 159                              | 325                 | 235                        |
| Not hired, N (%)  | 2 (3%)                     | 10 (6%)                          | 109 (34%)           | 35 (15%)                   |
| Started to work   | 62 (97%)                   | 149 (94%)                        | 216 (66%)           | 200 (85%)                  |
| Refused end-harvest follow-up   | 0 (0%)                     | 1 (1%)                           | 0 (0%)              | 0 (0%)                     |
| Showed up at end-harvest testing  | 52 (84%)                   | 98 (66%)                         | 178 (82%)           | 172 (83%)                  |
| Missing end-harvest samples   | 1 (2%)                     | 2 (2%)                           | 2 (1%)              | 1 (1%)                     |
| Provided serum samples at end-harvest ( <i>completely observed workers</i> )                            | 51 (82%)                   | 96 (64%)                         | 176 (81%)           | 171 (82%)                  |
| Drop-outs contacted after harvest   | 6 (10%)                    | 38 (26%)                         | 21 (10%)            | 14 (7%)                    |
| Completely lost   | 4 (6%)                     | 12 (9%)                          | 17 (8%)             | 14 (7%)                    |
| Has mid-harvest testing   | 30 (48%)                   | 117 (79%)                        | 180 (83%)           | 181 (87%)                  |
| Completely observed workers and drop-out workers contacted after harvest                                | 57 (92%)                   | 134 (90%)                        | 197 (91%)           | 185 (89%)                  |
| Reported working mostly in another of the studied four jobs at end-harvest, i.e. analyzed with that job | 0                          | 4                                | 0                   | 2                          |
| Reported working mostly in a job other than four included in study, i.e. excluded from analysis         | 2                          | 1                                | 2                   | 1                          |
| <b>2B. Job reported at end-harvest or after harvest</b>   | <b>Field support staff</b> | <b>Irrigation repair workers</b> | <b>Seed cutters</b> | <b>Burned cane cutters</b> |
| Provided serum samples at end-harvest ( <i>completely observed workers</i> )                            | 53                         | 91                               | 176                 | 168                        |
| IKI <sub>Measured</sub>   | 1 (2%)                     | 0 (0%)                           | 13 (7%)             | 9 (5%)                     |
| Completely observed workers and drop-out workers contacted after harvest                                | 59                         | 129                              | 196                 | 183                        |
| IKI <sub>All</sub> (IKI <sub>Measured</sub> +IKI <sub>Reported</sub> )                                  | 1 (2%)                     | 2 (2%)                           | 20 (10%)            | 13 (7%)                    |

Indentation denotes row is nested within the superior level row with less indentions. Percentages are calculated within this superior level. Categories with the same indentation nested within a superior level are not necessarily mutually exclusive. Incident Kidney Injury (IKI<sub>Measured</sub>) was defined as an increase of SCr by  $\geq 0.30$  mg/dL or an increase  $\geq 1.5$  times from baseline to end-harvest (IKI<sub>Measured</sub>) or combined with self-reported kidney injury (IKI<sub>Reported</sub>) among drop-outs (IKI<sub>All</sub>)

<sup>1</sup> Applicants who agreed to participate in the study and had baseline questionnaires, 9 applicants in total did not agree to participate, 11 had lost baseline questionnaires.

Supplement Table 3. Kidney injury by harvest, job, and assessed implementation

|                            | Harvest 1<br>Existing preventive measures   |  | Harvest 2<br>Improved prevention |  |  |  |
|----------------------------|---|--|----------------------------------|--|--|--|
|                            | Observations on preventive measures implementation  | Kidney injury incidence during harvest |                                  | Observations on preventive measures implementation   | Kidney injury incidence during harvest         |  |
|                            |   | IKI <sub>Measured</sub>                | IKI <sub>All</sub>               |  | IKI <sub>Measured</sub>                        | IKI <sub>All</sub>                               |
| <b>Burned cane cutters</b> | No known difference between work groups. Mechanized harvesters breakdown with spreading of preventive resources over more cutting <i>cuadrillas</i> | 27/128<br>(21%)                        | 43/157<br>(27%)                  | No implementation differences between <i>cuadrillas</i>  | 9/168<br>(5%)                                  | 13/183<br>(6%)                                   |
| <b>Seed cutters</b>        | No known difference between work groups   | 5/148<br>(3%)                          | 16/188<br>(9%)                   | Best implementation <i>cuadrilla</i><br>Intermediate implementation <i>cuadrillas</i><br>Worst implementation <i>cuadrilla</i> | 0/55<br>(0%)<br>8/83<br>(10%)<br>5/37<br>(14%) | 1/58<br>(2%)<br>10/90<br>(11%)<br>10/47<br>(21%) |

Incident Kidney Injury (IKI<sub>Measured</sub>) was defined as an increase of SCr by  $\geq 0.30$  mg/dL or an increase  $\geq 1.5$  times from baseline to end-harvest (IKI<sub>Measured</sub>) or combined with self-reported kidney injury (IKI<sub>Reported</sub>) among drop-outs (IKI<sub>All</sub>).