

**Supplemental material 1.** Variables collected in Excel spreadsheet and codings

| <b>Variable</b>                     | <b>Coding</b>  |
|-------------------------------------|--|
| Patient ID                          | Numerical  |
| Age                                 | Numerical  |
| Gender                              | 1: men, 2: women   |
| Main reason for consultation        | 1: hematemesis, 2: melena, 3: hematochezia   |
| Vital signs                         |  |
| Glasgow score                       | Numerical  |
| Systolic blood pressure (mmHg)      | Numerical  |
| Pulse rate (per min)                | Numerical  |
| Nurse classification                | Numerical  |
| Symptoms                            |  |
| Hematemesis                         | 0: no, 1: yes  |
| Melena                              | 0: no, 1: yes  |
| Syncope                             | 0: no, 1: yes  |
| Medical history                     |  |
| Liver disease/cirrhosis             | 0: no, 1: yes  |
| Heart disease                       | 0: no, 1: yes  |
| Malignancy                          | 0: no, 1: yes  |
| Biological results                  |  |
| Hemoglobin (g/dL)                   | Numerical  |
| Uremia (mmol/L)                     | Numerical  |
| Scores                              |  |
| GBS                                 | Numerical (automatic calculation)  |
| mGBS                                | Numerical (automatic calculation)  |
| CANUKA                              | Numerical (automatic calculation)  |
| Outcome                             | 0: discharge, 1: hospitalization   |
| Endoscopy                           | 0: no, 1: yes  |
| If yes:                             | 1: during ED stay, 2: during hospitalization   |
| Final diagnosis                     | 0: unknown, 1: peptic disease, 2: portal hypertension, 3: Mallory-Weiss syndrome, 4: malignancy, 5: other upper gastro-intestinal bleeding, 6: lower gastro-intestinal bleeding, 7: other diagnosis (not gastro-intestinal bleeding) |
| Need for intervention within 7 days |  |
| Endoscopic hemostasis               | 0: no, 1: yes  |
| Blood transfusion                   | 0: no, 1: yes  |
| Rebleeding                          | 0: no, 1: yes  |
| In-hospital mortality               | 0: no, 1: yes  |

**Supplemental material 2.** Patients' characteristics and outcomes according to their orientation

|   | Total<br>n=386  | Hospitalized<br>n=233 | Discharged<br>n=153 |
|---|-----------------|-----------------------|---------------------|
| Age (years), median [Q1Q3]                | 60 [38-78]      | 66 [54-82]            | 41 [30-67]          |
| Male sex, n(%)                            | 252 (65.3)      | 148 (63.5)            | 104 (68)            |
| Symptoms, n(%)                            |                 |                       |                     |
| Hematemesis                               | 248 (64.2)      | 131 (56.2)            | 117 (76.5)          |
| Melena                                    | 175 (45.3)      | 138 (59.2)            | 37 (24.2)           |
| Hematochezia                              | 5 (1.3)         | 4 (1.7)               | 1 (0.6)             |
| Syncope                                   | 24 (6.2)        | 22 (9.4)              | 2 (1.3)             |
| Medical history, n(%)                     |                 |                       |                     |
| Liver disease                             | 82 (21.1)       | 72 (30.1)             | 10 (6.5)            |
| Heart disease                             | 39 (10.1)       | 33 (14.2)             | 6 (3.9)             |
| Malignancy <sup>a</sup>                   | 41 (10.6)       | 35 (15)               | 6 (3.9)             |
| Vital parameters, median [Q1Q3]           |                 |                       |                     |
| Heart rate (/min)                         | 87 [73-102]     | 88 [75-104]           | 84 [72-98]          |
| Systolic blood pressure (mmHg)            | 127 [113-143]   | 122 [108-140]         | 133 [121-146]       |
| Laboratory results, median [Q1Q3]         |                 |                       |                     |
| Hemoglobin (g/dL) <sup>b</sup>            | 11.8 [8.9-13.9] | 10.3 [8.3-10.3]       | 13.9 [12.3-15]      |
| Urea (mmol/L) <sup>c</sup>                | 7.1 [4.7-11.7]  | 9.5 [6.3-14.5]        | 5.1 [3.9-6.4]       |
| Endoscopy, n(%)                           | 217 (56.2)      | 185 (79.4)            | 32 (20.9)           |
| Scores, median [Q1Q3]                     |                 |                       |                     |
| GBS <sup>c</sup>                          | 6 [1-11]        | 9 [5-12]              | 1 [0-3]             |
| mGBS <sup>c</sup>                         | 5 [1-9]         | 7 [4-10]              | 1 [0-3]             |
| CANUKA <sup>d</sup>                       | 6 [3-9]         | 8 [6-10]              | 3 [2-4]             |
| Need for intervention within 7 days, n(%) |                 |                       |                     |
| Blood transfusion                         | 120 (31.3)      | 113 (48.5)            | 7 (4.6)             |
| Endoscopic hemostasis                     | 81 (21)         | 79 (33.9)             | 2 (1.3)             |
| Rebleeding                                | 41 (10.6)       | 36 (15.5)             | 5 (3.3)             |
| Mortality within 30 days, n(%)            | 12 (3.1)        | 10 (4.3)              | 2 (1.3)             |

<sup>a</sup>2 missing data, <sup>b</sup>12 missing data, <sup>c</sup>29 missing data, <sup>d</sup>31 missing data

Q1Q3: first and third quartiles, GBS: Glasgow-Blatchford score

**Supplemental material 3.** Number of events according to low or high-risk classification, for each scores' threshold.

| <b>GBS &gt; 1</b> | Death or need for intervention | No death or need for intervention | Total |
|-------------------|--------------------------------|-----------------------------------|-------|
| High-risk         | 138                            | 130                               | 268   |
| Low-risk          | 2                              | 87                                | 89    |
| Total             | 140                            | 217                               | 357   |

| <b>mGBS &gt; 0</b> | Death or need for intervention | No death or need for intervention | Total |
|--------------------|--------------------------------|-----------------------------------|-------|
| High-risk          | 162                            | 130                               | 292   |
| Low-risk           | 3                              | 62                                | 65    |
| Total              | 165                            | 192                               | 357   |

| <b>mGBS &gt; 1</b> | Death or need for intervention | No death or need for intervention | Total |
|--------------------|--------------------------------|-----------------------------------|-------|
| High-risk          | 119                            | 127                               | 246   |
| Low-risk           | 6                              | 105                               | 111   |
| Total              | 125                            | 232                               | 357   |

| <b>CANUKA &gt; 1</b> | Death or need for intervention | No death or need for intervention | Total |
|----------------------|--------------------------------|-----------------------------------|-------|
| High-risk            | 194                            | 130                               | 324   |
| Low-risk             | 0                              | 31                                | 31    |
| Total                | 194                            | 161                               | 355   |

| <b>CANUKA &gt; 2</b> | Death or need for intervention | No death or need for intervention | Total |
|----------------------|--------------------------------|-----------------------------------|-------|
| High-risk            | 158                            | 130                               | 288   |
| Low-risk             | 0                              | 67                                | 67    |
| Total                | 158                            | 197                               | 355   |