

Supplemental Table 1. Characteristics from the registration form including 5-year data from the Danish Myelodysplastic Syndromes Database. Data are shown for the whole population, the validation sample and the misclassified MDS patients.

	Total MDS population	Validation sample	Misclassified MDS patients
Numbers	449 (20%)	47 (20%)	8 (36%)
Treatment			
Transfusion	9 (2%)	-	0
Erythropoiesis-stimulating agents	147 (33%)	21 (45%)	0
Granulocyte-colony-stimulating-factors	63 (14%)	6 (13%)	0
Hypomethylating agents (Azacitidine)	39 (9%)	4 (8.5%)	0
Iron-chelating agents	33 (7%)	6 (13%)	-
Hydroxyurea	22 (5%)	-	-
AML-like chemotherapy	18 (4%)	-	0
Immune suppressive agents	37 (8%)	4 (8.5%)	0
Lenalidomide	-	0	0
Protocol participation	18 (4%)	-	0
<i>Missing</i>	0	0	0
<i>Unknown</i>	19 (4%)	-	0
Progression to sAML	55 (12%)	9 (19%)	0
<i>Missing</i>	9 (2%)	0	0
<i>Unknown</i>	9 (2%)	0	0
Date of progression to sAML	47 (10%)	7 (80%)	0
<i>Missing</i>	8 (14%)	-	0
<i>Unknown</i>	0	0	0
Allo-HSCT	30 (7%)	-	0
<i>Missing</i>	0	0	0
<i>Unknown</i>	0	0	0
Date of Allo-HSCT	30 (100%)	-	0
<i>Missing</i>	0	0	0
<i>Unknown</i>	0	0	0
Type of Allo-HSCT	30 (100%)	-	0
<i>Missing</i>	0	0	0
<i>Unknown</i>	0	0	0

Abbreviations: Allo-HSCT, allogeneic hematopoietic stem cell transplantation; sAML, acute myeloid leukemia.

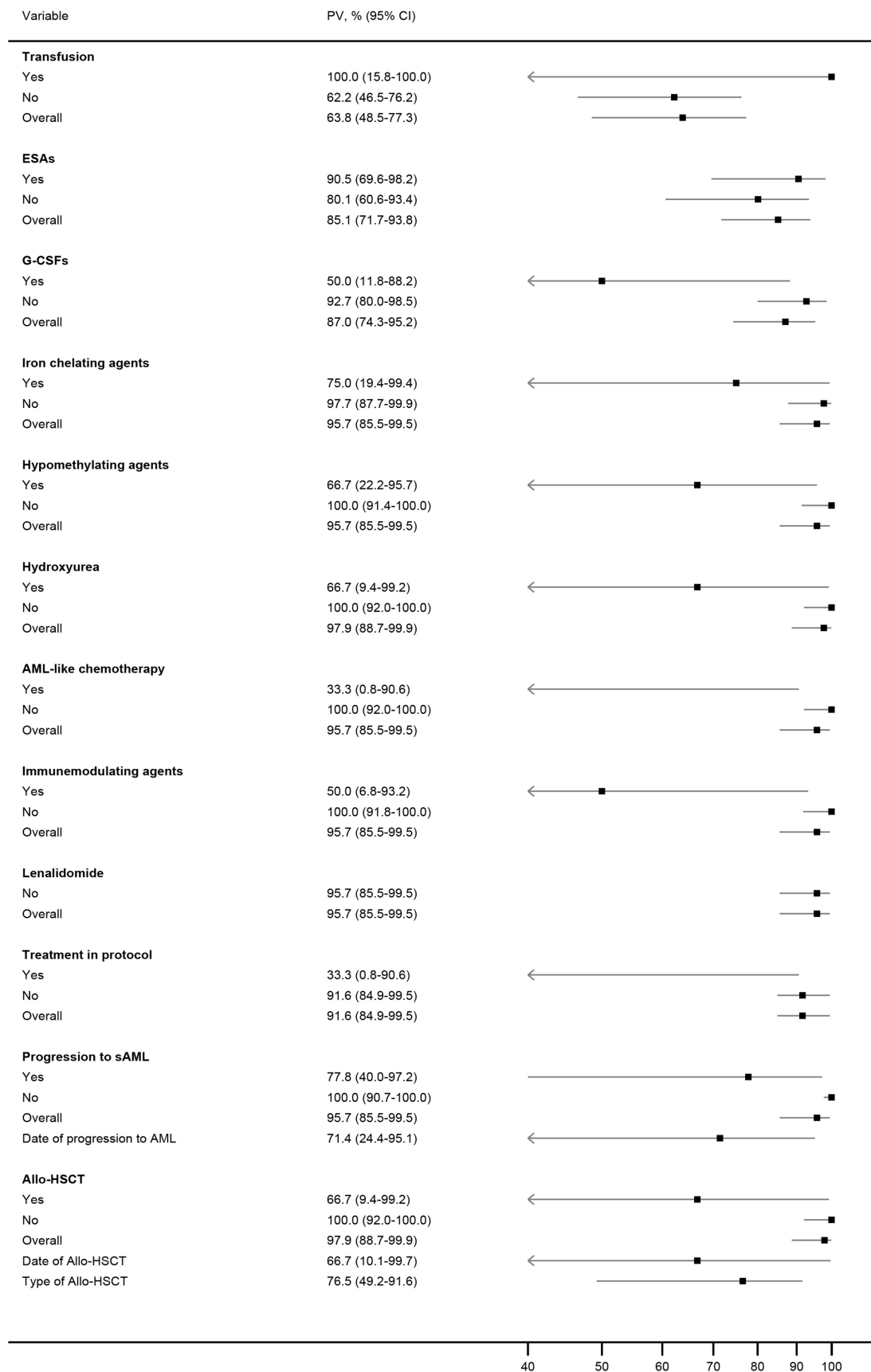
- Data not shown due to small numbers.

Supplemental Table 2. Predictive values (%) with 95 % confidence intervals, stratified by departments and year of diagnosis. Data are shown for 18 variables from the registration form completed at diagnosis.

Variable	Regional Hospitals (n = 47)	University Hospitals (n= 213)	Diagnosed ≤ 2014 (n = 133)	Diagnosed > 2014 (n = 127)
Diagnosis	93.6 (81.5-97.9)	91.1 (86.4-94.3)	87.7 (81.2-92.5)	95.3 (89.8-97.9)
Date of diagnosis ± 14 days	95.5 (83.0-98.9)	93.8 (89.4-96.5)	92.3 (85.8-96.0)	95.9 (90.4-98.3)
Prior hematological disease > 3 months				
Yes	100.0 (47.8-100)	71.4 (41.9-91.6)	71.4 (29.0-96.3)	83.3 (51.6-97.9)
No	100.0 (89.7-100)	97.2 (93.6-99.1)	98.2 (93.5-99.8)	97.1 (91.8-99.4)
Overall	100.0 (90.1-100)	95.3 (91.3-97.8)	96.6 (91.4-99.5)	95.7 (90.2-98.6)
Prior chemotherapy				
Yes	100.0 (39.8-100)	88.9 (51.8-99.7)	96.4 (91.0-99.0)	90.0 (55.5-99.7)
No	100.0 (86.8-100)	95.1 (90.9-97.8)	100.0 (29.2-100)	95.0 (88.8-98.4)
Overall	100.0 (88.4-100)	94.8 (90.7-97.5)	96.5 (91.2-99.0)	94.6 (88.6-98.0)
Prior radiotherapy				
Yes	100.0 (29.2-100)	83.3 (35.9-99.6)	100.0 (39.8-100)	80.0 (28.4-99.5)
No	96.3 (81.3-99.9)	98.4 (95.4-99.7)	98.1 (93.5-99.8)	98.1 (93.4-99.8)
Overall	96.3 (82.8-99.9)	97.9 (94.8-99.4)	98.2 (93.7-99.8)	97.3 (92.3-99.4)
Blood transfusion prior to diagnosis				
Yes	100.0 (54.1-100)	100.0 (63.1-100.0)	-	100.0 (76.8-100)
No	88.9 (51.8-99.7)	84.2 (74.0-91.6)	100.0 (29.2-100)	84.1 (74.1-91.2)
Overall	93.3 (68.1-99.8)	85.7 (76.4-92.4)	100.0 (29.2-100)	86.5 (78.0-92.6)
Blast percentage in bone marrow	90.7 (77.2-96.57)	91.5 (86.6-94.8)	91.2 (84.4-95.2)	91.5 (84.9-95.4)
Hemoglobin (<6.2 mmol/L)				
Yes	93.3 (77.9-99.2)	88.5 (80.7-93.9)	85.0 (73.4-92.9)	93.2 (84.9-97.8)
No	100.0 (75.3-100)	94.4 (87.4-98.2)	98.2 (90.3-99.9)	91.5 (79.6-97.6)
Overall	95.3 (84.2-99.4)	91.2 (86.3-94.8)	91.3 (84.6-95.8)	92.7 (86.3-96.5)
Thrombocytopenia (<100x10 ⁹ /L)				
Yes	100.0 (82.4-100)	98.4 (91.5-99.9)	100.0 (90.5-100)	97.8 (88.2-99.9)
No	100.0 (85.8-100)	96.2 (91.3-98.7)	96.2 (89.2-99.2)	97.4 (90.8-99.7)
Overall	100.0 (91.8-100)	96.9 (93.4-98.9)	97.4 (92.6-99.5)	97.5 (92.9-99.5)
Neutropenia (<1.8x10 ⁹ /L)				
Yes	100.0 (76.8-100)	96.3 (89.6-99.2)	96.2 (87.0-99.5)	97.6 (87.4-99.9)
No	85.7 (67.3-96.0)	91.1 (84.2-95.6)	90.2 (79.8-96.3)	89.9 (81.0-95.5)
Overall	90.5 (77.4-97.3)	93.3 (88.8-96.4)	93.0 (86.6-96.9)	92.3 (86.3-96.5)
Middle cell volume (fL)	92.9 (79.5-97.8)	91.4 (86.3-94.7)	90.2 (83.0-94.5)	93.1 (86.7-96.5)
Hemoglobin (mmol/L)	95.3 (82.6-98.9)	94.8 (90.6-97.2)	95.7 (89.9-98.2)	94.2 (88.3-97.2)
Platelet count (1x10 ⁹ /L)	93.0 (79.9-97.8)	91.7 (86.9-94.9)	90.4 (83.5-94.7)	93.4 (87.3-96.7)
White blood cell count (1x10 ⁹ /L)	90.5 (76.7-96.5)	94.2 (89.9-96.8)	92.9 (86.4-96.4)	96.7 (91.4-98.8)
Leucocyte count (1x10 ⁹ /L)	93.0 (79.9-97.8)	94.3 (89.9-96.8)	91.3 (84.5-95.3)	96.7 (91.4-98.8)
Monocyte count (1x 10 ⁹ /L)	81.3 (52.3-94.4)	97.8 (91.7-99.5)	-	95.3 (89.1-98.1)
Lactate dehydrogenase (U/L)	95.1 (81.8-98.8)	93.0 (88.2-95.9)	90.9 (83.8-95.1)	95.7 (90.0-98.2)
Ferritin µg/L	92.3 (78.0-97.6)	86.5 (80.1-90.9)	85.6 (77.4-91.5)	89.2 (81.8-93.8)

- Data not shown due to small numbers.

Supplemental figure 1. Predictive values for 15 variables from the registration form including 5-year data from the Danish Myelodysplastic Syndrome Database.



Abbreviations: Allo-HSCT, allogeneic hematopoietic stem cell transplantation; CI, confidence interval, G-CSF, granulocyte-colony-stimulating-factors; sAML, acute myeloid leukemia.

* Ratio not shown due to small numbers.