

Supplementary material

Oral decitabine cedazuridine with and without venetoclax in higher-risk myelodysplastic syndromes or chronic myelomonocytic leukemia: a propensity score–matched study

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Supplementary Tables

Supplementary Table 1. Clinical trials included in this study

DEC-C cohort		DEC-C-Ven cohort
Phase 2 (NCT02103478)	Phase 3 (ASCERTAIN) (NCT03306264)	Phase 1/2 (NCT04655755)
Phase 2	Phase 3	Phase 1/2
Multicentric	Multicentric	Unicentric
Open-label	Open-label	Open-label
Randomized	Randomized	Not randomized
≥ 18 yo	≥ 18 yo	≥ 18 yo
ECOG 0-2	ECOG 0-1	Not specified
IPSS Int 1 IPSS Int 2 IPSS high	IPSS Int 1 IPSS Int 2 IPSS high	IPSS Int 2 IPSS high
Treatment-naïve or 1 cycle prior HMA permitted	Treatment-naïve or 1 cycle prior HMA permitted	Treatment-naïve
Initial n of patients: 138	Initial n of patients: 173	Initial n of patients: 53
Dose confirmation stage • Seq A (n = 25) • C1: oDec 35 mg & Ced 100 mg x 5 d • C2: IV Dec 20 mg/m² x 5 d • C3 & onwards: DEC-C x 5 d • Seq B (n = 25) • C1: IV Dec 20 mg/m² x 5 d • C2: oDec 35 mg & Ced 100 mg x 5 d • C3 & onwards: DEC-C x 5 d Fixed-dose combination stage • Seq A (n = 16) • Seq B (n = 14)	Crossover • Seq A (n = 69) (3 withdrew consent, 3 discontinued) • C1: DEC-C x 5 d • C2: IV Dec 20 mg/m² x 5 d • C3 & onwards: DEC-C x 5 d • Seq B (n = 69) (2 withdrew consent, 2 discontinued) • C1: IV Dec 20 mg/m² x 5 d • C2: DEC-C x 5 d • C3 & onwards: DEC-C x 5 d	Dose escalation • Dose level 0 (n = 3) • C1 & onwards: DEC-C x 5 d & Ven 200 mg 1-14 d) • Dose level 1 (n = 6) • C1 & onwards: DEC-C x 5 d Ven 400 mg 1-14 d) Dose expansion (n = 44) • C1 & onwards: DEC-C x 5 d Ven 400 mg 1-14 d)
80 patients treated 63 MDS 17 CMML	133 patients received at least 1 dose 117 MDS 16 CMML	53 patients treated 46 MDS 6 CMML 1 aCML

Ced: Cedazuridine; Dec: decitabine; DEC-C: fixed-dose oral decitabine plus cedazuridine; oDec: oral decitabine.

Supplementary Table 2. Next-generation sequencing coverage (DEC-C cohort)

Obtained from:

<https://genomictestingcooperative.com/genomic-tests/hematology-profile/>

ABL1	CREBBP	GRIN2A	NOTCH1	SMARCA4
ABRAXAS1	CRLF2	H3-3A (H3F3A)	NOTCH2	SMARCB1
ACVR1B	CSF1R	H3C2 (HIST1H3B)	NOTCH3	SMC1A
AKT1	CSF3R	HGF	NPM1	SMC3
AKT2	CTCF	HNF1A	NRAS	SMO
AKT3	CTNNA1	HOXB13	NSD1	SOCS1
ALK	CTNNB1	HRAS	NSD2 (WHSC1)	SOX2
AMER1	CUX1	HSP90AA1	NTHL1	SOX9
ANKRD26	CXCR4	ID3	NTRK1	SPOP
APC	CYLD	IDH1	NTRK2	SRC
AR	DAXX	IDH2	NTRK3	SRSF2
ARAF	DDR2	IGF1R	PAK3	STAG2
ARID1A	DDX41	IKZF1	PALB2	STAT3
ARID1B	DICER1	IKZF3	PAX5	STAT5B
ARID2	DNM2	IL7R	PBRM1	STK11
ASXL1	DNMT3A	INHBA	PDGFRA	SUFU
ATM	DOT1L	IRF4	PDGFRB	SUZ12
ATR	EED	JAK1	PHF6	TAL1
ATRX	EGFR	JAK2	PIK3CA	TCF3
AURKA	EGLN1	JAK3	PIK3R1	TENT5C (FAM46C)
AURKB	ELANE	KAT6A	PIK3R2	TERC
AURKC	EP300	KDM5C	PIM1	TERT
AXIN1	EPAS1	KDM6A	PLCG1	TET2
AXIN2		KDR	PMS1	TGFBR2

<i>B2M</i>	<i>EPHA3</i>	<i>KEAP1</i>	<i>PMS2</i>	<i>TMEM127</i>
<i>BAP1</i>	<i>EPHA5</i>	<i>KIT</i>	<i>POLD1</i>	<i>TNFAIP3</i>
	<i>ERBB2</i>	<i>KMT2A</i>	<i>POLE</i>	<i>TNFRSF14</i>
<i>BCL2</i>	<i>ERBB3</i>	<i>KMT2B</i>	<i>POT1</i>	<i>TP53</i>
<i>BCL2L1</i>	<i>ERBB4</i>	<i>KMT2C</i>	<i>PPM1D</i>	<i>TRAF3</i>
<i>BCL6</i>	<i>ERG</i>	<i>KMT2D</i>	<i>PPP2R1A</i>	<i>TSC1</i>
<i>BCOR</i>	<i>ESR1</i>	<i>KRAS</i>	<i>PRDM1</i>	<i>TSC2</i>
<i>BCORL1</i>	<i>ETNK1</i>	<i>LRP1B</i>	<i>PRKAR1A</i>	<i>TSHR</i>
<i>BCR</i>	<i>ETV6</i>	<i>MAP2K1</i>	<i>PRKDC</i>	<i>U2AF1</i>
<i>BIRC3</i>	<i>EXO1</i>	<i>MAP2K2</i>	<i>PRPF8</i>	<i>U2AF2</i>
<i>BLM</i>	<i>EZH2</i>	<i>MAP2K4</i>	<i>PRSS1</i>	<i>UBA1</i>
	<i>FANCA</i>	<i>MAP3K1</i>	<i>PTCH1</i>	<i>VHL</i>
<i>BRAF</i>	<i>FANCC</i>	<i>MAP3K14</i>	<i>PTEN</i>	<i>WT1</i>
<i>BRCA1</i>	<i>FANCD2</i>	<i>MAPK1</i>	<i>PTPN11</i>	<i>XPO1</i>
<i>BRCA2</i>	<i>FANCE</i>	<i>MCL1</i>	<i>RAC1</i>	<i>XRCC2</i>
<i>BRIP1</i>	<i>FANCF</i>	<i>MDM2</i>	<i>RAD21</i>	<i>XRCC3</i>
<i>BTK</i>	<i>FANCG</i>	<i>MDM4</i>	<i>RAD50</i>	<i>ZNF217</i>
<i>CALR</i>	<i>FAS</i>	<i>MED12</i>	<i>RAD51</i>	<i>ZRSR2</i>
<i>CARD11</i>	<i>FBXW7</i>	<i>MEF2B</i>	<i>RAD51C</i>	
<i>CBL</i>	<i>FGF4</i>	<i>MEN1</i>	<i>RAD51D</i>	
<i>CBLB</i>	<i>FGF6</i>	<i>MET</i>	<i>RAF1</i>	
<i>CBLC</i>	<i>FGFR1</i>	<i>MITF</i>	<i>RB1</i>	
<i>CCND1</i>	<i>FGFR2</i>	<i>MLH1</i>	<i>RET</i>	
<i>CCND3</i>	<i>FGFR3</i>	<i>MPL</i>	<i>RHEB</i>	
<i>CCNE1</i>	<i>FGFR4</i>	<i>MRE11 (MRE11A)</i>	<i>RHOA</i>	
<i>CD274 (PD-L1)</i>	<i>FH</i>	<i>MSH2</i>	<i>RIT1</i>	
<i>CD79A</i>	<i>FLCN</i>	<i>MSH3</i>	<i>RNF43</i>	
<i>CD79B</i>	<i>FLT3</i>	<i>MSH6</i>	<i>ROS1</i>	
<i>CDC73</i>	<i>FLT4</i>	<i>MTOR</i>	<i>RUNX1</i>	

<i>CDH1</i>	<i>FOXL2</i>	<i>MUTYH</i>	<i>SAMD9</i>	
<i>CDK12</i>	<i>FUBP1</i>	<i>MYC</i>	<i>SAMD9L</i>	
<i>CDK4</i>	<i>GALNT12</i>	<i>MYCL</i>	<i>SDHA</i>	
<i>CDK6</i>	<i>GATA1</i>	<i>MYCN</i>	<i>SDHB</i>	
	<i>GATA2</i>	<i>MYD88</i>	<i>SDHAF2</i>	
<i>CDKN2A</i>	<i>GATA3</i>	<i>NBN</i>	<i>SDHC</i>	
<i>CDKN2B</i>	<i>GEN1</i>	<i>NF1</i>	<i>SDHD</i>	
<i>CDKN2C</i>	<i>GNA11</i>	<i>NF2</i>	<i>SETBP1</i>	
<i>CEBPA</i>	<i>GNAQ</i>	<i>NFE2</i>	<i>SETD2</i>	
<i>CHEK1</i>	<i>GNAS</i>	<i>NFE2L2</i>	<i>SF3B1</i>	
<i>CHEK2</i>	<i>GNB1</i>	<i>NFKBIA</i>	<i>SMAD2</i>	
<i>CIC</i>	<i>GREM1</i>	<i>NKX2-1</i>	<i>SMAD4</i>	

Supplementary Table 3. Next-generation sequencing coverage (DEC-C Ven cohort)

Gene	Exons (codons) tested
ANKRD26(NM_014915)	1 (1-6)
ASXL1 (NM_015338)	11-12 (362-1542)
ASXL2 (NM_018263)	11-12 (381-1436)
BCOR (NM_017745)	2-4 (1-512), 4-6 (514-1080), 7 (1122-1124), 7 (1091-1099), 7-15 (1124-1722)
BCORL1 (NM_021946)	1-6 (1-1261), 6 (1264-1323), 6-11 (1326-1600), 11-12 (1614-1699), 12 (1706-1712)
BRAF (NM_004333)	11 (439-478), 15 (581-620)
BRINP3 (NM_199051)	2-8 (1-471), 8 (475-767)
CALR (NM_004343)	9 (352-418)
CBL (NM_005188)	7-9 (336-477)
CBLB (NM_170662)	7-10 (282-469)
CBLC (NM_012116)	7-9 (336-454), 10 (464-475)
CEBPA (NM_004364)	1 (1-56), 1 (59-91), 1 (96), 1 (128-143), 1 (146-175), 1 (178-201), 1 (249-358)
CREBBP (NM_004380)	2-8 (29-608), 9-10 (615-705), 12-16 (724-1084), 17-31 (1094-1943), 31 (1950-2235), 31 (2238-2443)
CSF3R (NM_156039)	14 (575-622), 17 (681-864)
CUX1 (NM_181552)	2-6 (11-172), 6-9 (174-241), 10-12 (248-359), 13-14 (367-408)
DDX41 (NM_016222)	1-10 (1-366), 11 (369-410), 12-17 (420-623)
DNMT3A (NM_022552)	8-22 (286-862), 23 (866-913)
EED (NM_003797)	1-2 (1-69), 2-8 (71-287), 9-12 (289-442)
ELANE (NM_001972)	1-2 (5-46), 2 (69-75), 4-5 (123-268)
ETNK1 (NM_018638)	3 (228-275)
ETV6 (NM_001987)	1-6 (1-378), 7-8 (385-453)
EZH2 (NM_004456)	2-5 (1-158), 6 (162-205), 7 (209-217), 8-13 (243-512), 14 (516-538), 14-19 (547-732), 20 (752)
FBXW7 (NM_033632)	9-12 (413-708)
FLT3 (NM_004119)	11-17 (437-709), 18-20 (736-847)
GATA1 (NM_002049)	2-3 (1-84)
GATA2 (NM_032638)	2-5 (1-377), 5-6 (379-481)
GFI1 (NM_005263)	2 (2-39)
GNAS (NM_000516)	8 (200-202), 11 (315-324)
HNRNPK (NM_002140)	3-7 (1-96), 7 (101-106), 8-17 (111-465)
HRAS (NM_005343)	2-3 (1-60), 3-4 (87-150)
IDH1 (NM_005896)	4 (132-133)
IDH2 (NM_002168)	4 (125-178)
IKZF1 (NM_006060)	2-8 (1-443), 8 (445-518)
IL2RG (NM_000206)	1-2 (1-45), 2-8 (51-340), 8 (360-370)
IL7R (NM_002185)	5-7 (180-292)
JAK1 (NM_002227)	3-9 (3-445), 10 (453-465), 10-22 (470-1023), 22-24 (1026-1123)
JAK2 (NM_004972)	10 (405-442), 12-14 (505-622), 16 (665-711), 18 (762-802)
JAK3 (NM_000215)	2-23 (1-1069)

<i>KDM6A</i> (NM_021140)	1-19 (1-971), 19-21 (976-1070), 22-29 (1080-1402)
<i>KIT</i> (NM_000222)	8-9 (411-514), 11 (550-592), 17 (788-828)
<i>KMT2A</i> (NM_005933)	2-4 (145-1075), 4-13 (1081-1561), 14-15 (1566-1665), 27 (2178-2195), 27 (2201-2362), 27 (2365-2715), 27 (2721-3216), 27 (3219-3327), 27 (3336-3505), 27 (3521-3582)
<i>KRAS</i> (NM_004985)	2-4 (1-150)
<i>MAP2K1</i> (NM_002755)	2 (27-90), 3 (98-146)
<i>MPL</i> (NM_005373)	10 (490-522), 12 (552-636)
<i>NF1</i> (NM_001042492)	2-4 (21-160), 5 (165-190), 6 (201-218), 8-13 (244-468), 13-14 (478-547), 15-17 (568-667), 18 (674-728), 18-22 (746-992), 23-26 (997-1146), 26-30 (1160-1330), 30-31 (1353-1378), 31-34 (1382-1493), 34-35 (1512-1550), 35 (1563-1575), 36-38 (1601-1868), 39 (1870-1884), 39-40 (1886-1947), 40-47 (1952-2322), 47-49 (2325-2438), 50-51 (2441-2491), 51-52 (2494-2555), 53-58 (2580-2840)
<i>NOTCH1</i> (NM_017617)	26 (1529-1600), 26-28 (1604-1795), 34 (2061-2228), 34 (2234-2274), 34 (2290-2309), 34 (2290-2556), 34 (2061-2228), 34 (2234-2274), 34 (2309-2556)
<i>NPM1</i> (NM_002520)	11 (283-295)
<i>NRAS</i> (NM_002524)	2-4 (1-150)
<i>PAX5</i> (NM_016734)	1-10 (1-392)
<i>PHF6</i> (NM_032458)	2-3 (1-79), 4-10 (81-366)
<i>PIGA</i> (NM_002641)	2 (1-6), 2-5 (15-396), 6 (399-485)
<i>PML</i> (NM_033238)	3 (201-255)
<i>PRPF40B</i> (NM_001031698)	2-19 (2-609), 19-20 (611-658), 20-24 (661-807), 25-26 (815-893)
<i>PTEN</i> (NM_000314)	7-8 (212-340)
<i>PTPN11</i> (NM_002834)	3-4 (46-125), 7 (253-285), 12 (460-462), 12-13 (465-533)
<i>RAD21</i> (NM_006265)	2-12 (1-540), 13 (544-560), 14 (569-632)
<i>RARA</i> (NM_000964)	6-7 (211-338)
<i>RUNX1</i> (NM_001754)	2-9 (1-419), 9 (426-437), 9 (456-474)
<i>SETBP1</i> (NM_015559)	4 (838-885)
<i>SF1</i> (NM_004630)	1-2 (1-31), 2 (39-54), 3-12 (57-524), 13 (544-578), 13 (596-600), 13 (605-640)
<i>SF3A1</i> (NM_005877)	2-7 (22-322), 7-9 (355-424), 9-12 (427-646), 13-16 (651-794)
<i>SF3B1</i> (NM_012433)	13-16 (574-790)
<i>SH2B3</i> (NM_005475)	2 (1-40), 2 (43-119), 2 (132-164), 2-6 (233-374), 6-8 (380-576)
<i>SMC1A</i> (NM_006306)	1-25 (1-1234)
<i>SMC3</i> (NM_005445)	1 (1-5), 2-6 (19-110), 6-11 (113-299), 11-15 (308-477), 15-16 (498-504), 16-17 (507-580), 17-19 (591-706), 20-25 (708-975), 25 (979-1035), 26-29 (1038-1217)
<i>SRSF2</i> (NM_003016)	1 (1-38), 1 (45-121)
<i>STAG1</i> (NM_005862)	2 (1-5), 3-5 (10-101), 5-12 (121-392), 13-20 (402-703), 21-22 (724-738), 22-27 (740-953), 27 (955-979), 28 (985-1008), 29-34 (1022-1259)
<i>STAG2</i> (NM_006603)	2-8 (1-273), 9-16 (287-518), 16 (521-539), 17-22 (547-751), 23-33 (756-1232)
<i>STAT3</i> (NM_139276)	17 (489-509), 17-22 (521-715)
<i>STAT5A</i> (NM_003152)	3-6 (1-177), 6-7 (181-189), 8-20 (261-795)
<i>STAT5B</i> (NM_012448)	16 (636-673)

<i>SUZ12</i> (NM_015355)	1 (20-44), 1 (46-84), 2 (92-97), 4-5 (129-169), 7-11 (198-431), 12-16 (468-740)
<i>TERC</i> (NR_001566)	1 (1-36)
<i>TERT</i> (NM_198253)	1-2 (1-172), 2 (258-342), 2 (349-474), 2-4 (477-630), 4-5 (633-692), 6 (711-749), 6-12 (753-954), 12-16 (957-1133)
<i>TET2</i> (NM_001127208)	3 (1-77), 3 (91-92), 3 (98-815), 3 (829-853), 3-10 (867-1453), 10-11 (1465-2003)
<i>TP53</i> (NM_000546)	2 (1-25), 4-11 (80-394)
<i>U2AF1</i> (NM_006758)	2 (15-44), 6 (117-161)
<i>U2AF2</i> (NM_007279)	1-5 (1-161), 6-12 (163-437), 12 (441-476)
<i>WT1</i> (NM_024426)	1 (1-5), 1 (7-63), 1-10 (127-518)
<i>ZRSR2</i> (NM_005089)	1-4 (1-90), 5 (105-130), 6-8 (134-257), 9-11 (260-419), 11 (465-483)

Supplementary Table 4. Characteristics of unmatched cohorts

Characteristic	DEC-C cohort (n = 117)	DEC-C-Ven cohort (n = 52)	P value
Age, median (range) [years]	71 (40-90)	71 (27-94)	.965
Race, n (%)			
Asian	2 (2)	3 (6)	1
Black or African-American	2 (2)	0	1
White	109 (93)	49 (94)	1
Other/not reported	3 (3)	0	1
Male sex, n (%)	77 (66)	37 (71)	.613
ECOG performance status			
0	48 (41)	21 (40)	1
1	64 (55)	25 (48)	1
2	4 (3)	6 (12)	.286
Not available	1 (1)	0	-
WHO diagnosis, n (%)			
MDS-EB1	51 (44)	9 (17)	.002
MDS-EB2	44 (38)	37 (71)	< .001
CMML	22 (19)	6 (12)	1
Hemoglobin, median (range) [g/L]	92 (64-149)	92 (62-144)	.403
Neutrophil count, median (range) [$\times 10^9$ cells/L]	0.9 (0.1-43.8)	0.9 (0.1-11.3)	.156
Platelet count, median (range) [$\times 10^9$ cells/L]	61 (8-570)	70 (15-407)	.938
Bone marrow blasts, median (range) [%]	9 (5-19)	12 (6-18)	<.001
Cytogenetic category, n (%)			
Very low	2 (2)	0	1
Low	48 (41)	19 (37)	.811
Intermediate	19 (16)	15 (29)	1
High	8 (7)	6 (12)	1
Very high	19 (16)	12 (23)	1
IPSS			
Intermediate-1	48 (41)	0	< .001
Intermediate-2	37 (32)	38 (73)	< .001
High	29 (25)	14 (27)	1
IPSS-R, n (%)			
Very low	0	0	-
Low	4 (3)	0	1
Intermediate	27 (23)	6 (12)	.175
High	30 (26)	16 (32)	1
Very high	35 (30)	28 (56)	.104
Not available	21 (18)	0	-
IPSS-M, n (%)			
Very low	0	0	-
Low	12 (10)	0	.093
Intermediate low	4 (3)	1 (2)	1
Intermediate high	7 (6)	3 (6)	1
High	17 (15)	17 (33)	.547
Very high	51 (44)	31 (60)	1

Supplementary Table 5. Responses by the IWG-2023 criteria

Response, n (%)	DEC-C-Ven cohort (n = 51)
ORR	41 (80)
CR	29 (54)
CR-uni	6 (12)
CR-bi	5 (12)
CR-h	1 (2)
SD/PD	9 (18)
NE	1 (2)

ORR: Overall response rate, CR-uni: CR unilineage, CR-bi: CR bilineage, CR-h: CR with partial hematologic recovery, SD: Stable disease, PD: progressive disease, NE: not evaluable

Supplementary Figures

Supplementary Fig. 1. (A) Mutations and cytogenetic findings in the DEC-C and DEC-C-Ven non-matched cohorts. (B) IPSS-M score distribution in the DEC-C and DEC-C-Ven non-matched cohorts.

Supplementary Fig. 2. (A) Standardized mean differences of the variables used for propensity score matching, before (purple) and after matching (green). (B) Propensity score of matched and unmatched individuals of each cohort. (C) Distribution of the propensity score distance of individuals in the DEC-C and DEC-C cohorts, before and after matching.

Supplementary Fig. 3. Response rate and univariate analyses of OS and EFS in selected subgroups of patients.

Supplementary Fig. 4. OS and EFS of the DEC-C vs DEC-C-Ven cohorts with censoring at last follow-up (tick) or at HSCT (point).

Supplementary Fig. 5. (A) OS of the DEC-C vs DEC-C-Ven cohorts by disease (MDS or CMML). (B) EFS of the DEC-C vs DEC-C-Ven cohorts by disease (MDS or CMML). (C) OS of the DEC-C vs DEC-C-Ven cohorts by IPSS-R (I: intermediate, H: high, VH: very high). (D) EFS of the DEC-C vs DEC-C-Ven cohorts by IPSS-R (I: intermediate, H: high, VH: very high). (E) OS of the DEC-C vs DEC-C-Ven cohorts by IPSS-M (H: high, VH: very high). (F) EFS of the DEC-C vs DEC-C-Ven cohorts by IPSS-M (H: high, VH: very high).

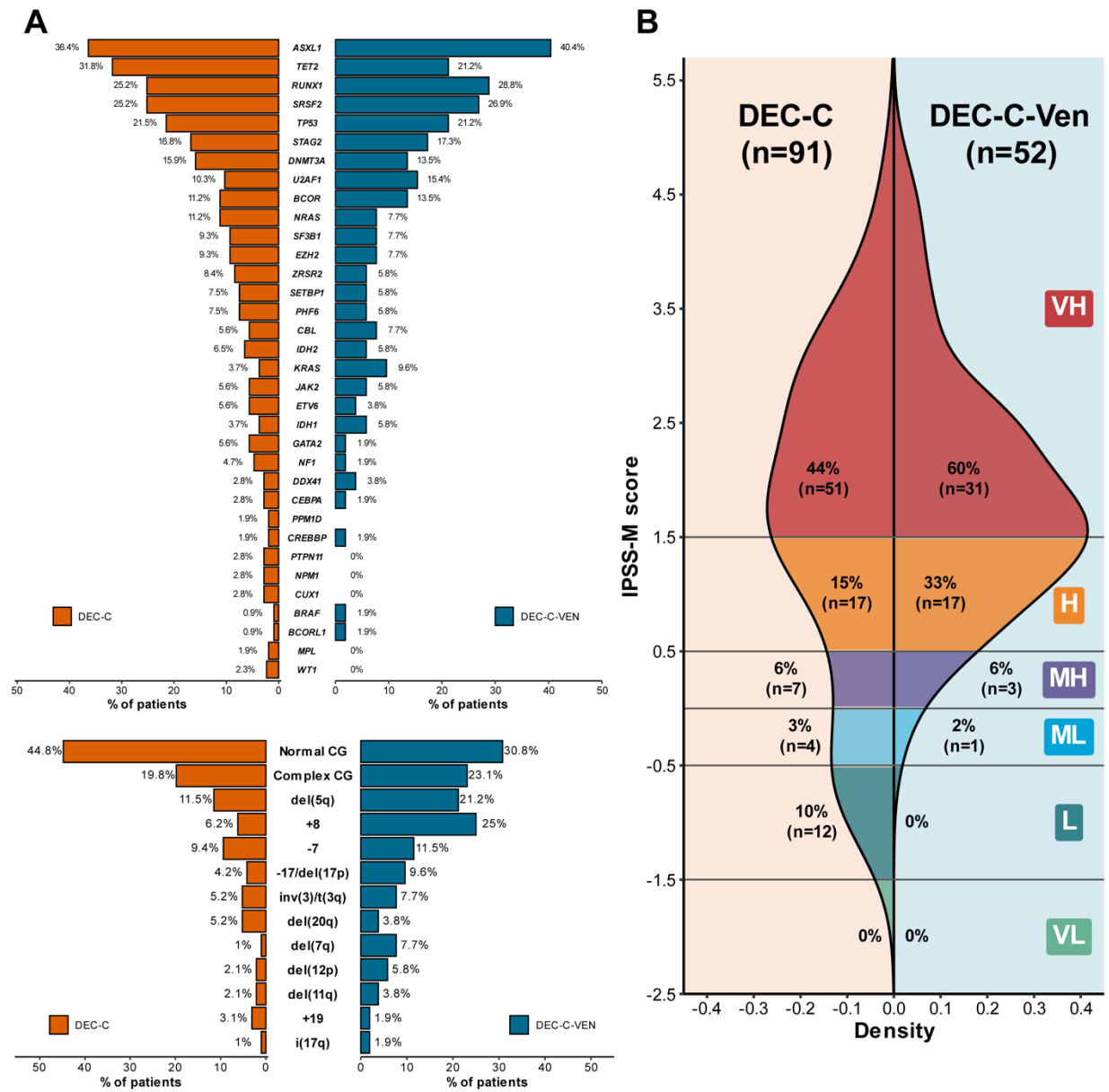
Supplementary Fig. 6. (A) OS of the DEC-C vs DEC-C-Ven cohorts by *ASXL1* mutation (wt: wild-type, mut: mutated). (B) EFS of the DEC-C vs DEC-C-Ven cohorts by *ASXL1* mutation (wt: wild-type, mut: mutated). (C) OS of the DEC-C vs DEC-C-Ven cohorts by *TP53* mutation (wt: wild-type, mut: mutated). (D) EFS of the DEC-C vs DEC-C-Ven cohorts by *TP53* mutation (wt: wild-type, mut: mutated).

Supplementary Fig. 7. Cumulative incidence (CI) of death vs HSCT as competing events.

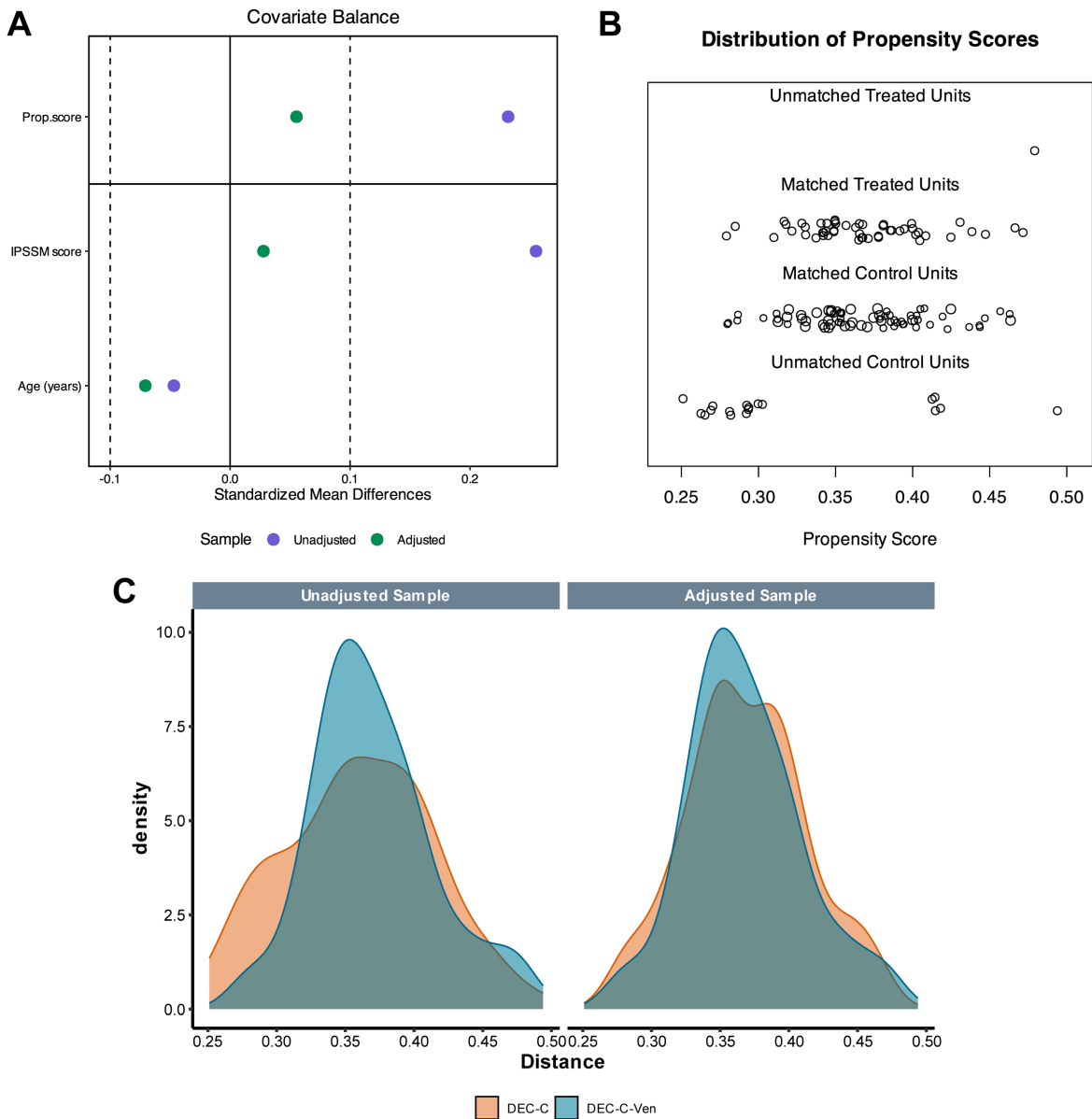
Supplementary Fig. 8. (A) OS of the DEC-C vs DEC-C-Ven cohorts after HSCT. (B) EFS of the DEC-C vs DEC-C-Ven cohorts after HSCT. (C) Cumulative incidence (CI) of death and relapse as competing events in DEC-C and DEC-C-Ven cohorts.

Supplementary Fig. 9. (A) Absolute neutrophil count (ANC) at each timepoint during the first cycle. (C) Platelet count at each timepoint during the first cycle. * $P < 0.05$, ** $P < 0.01$

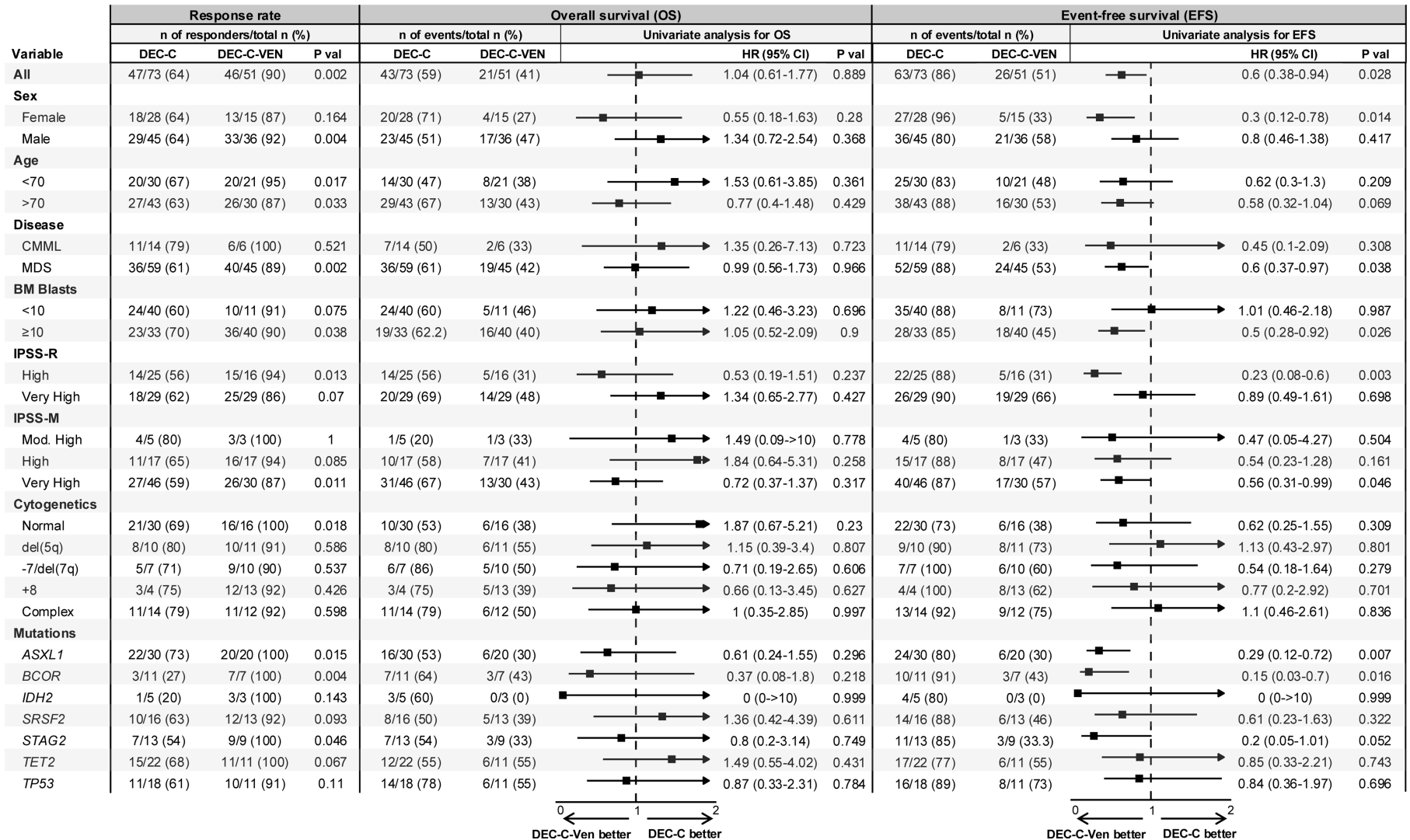
Supplementary Fig. 1. Mutations in each cohort



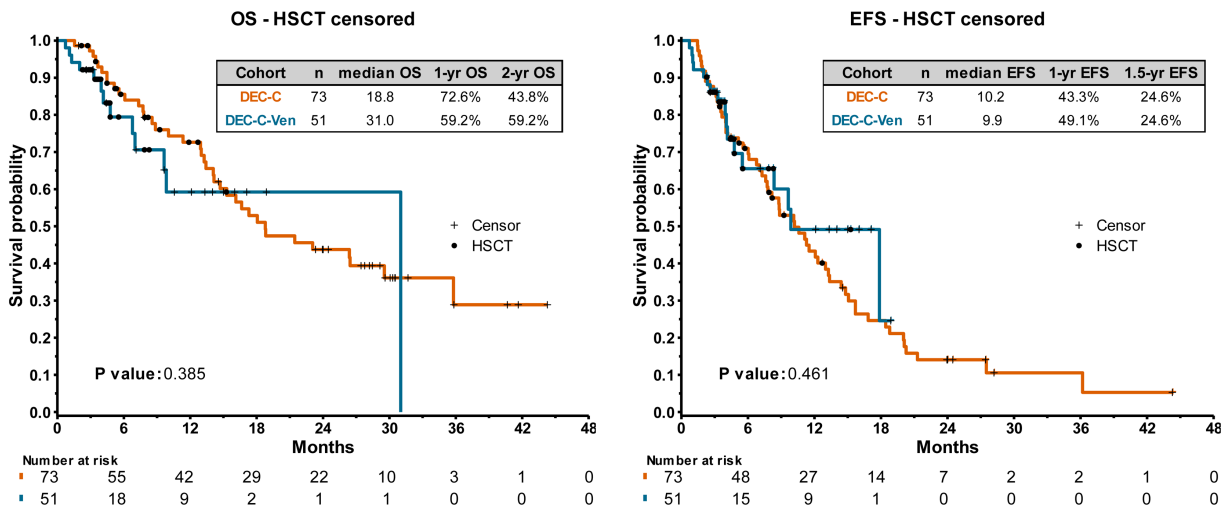
Supplementary Fig. 2. Propensity score performance



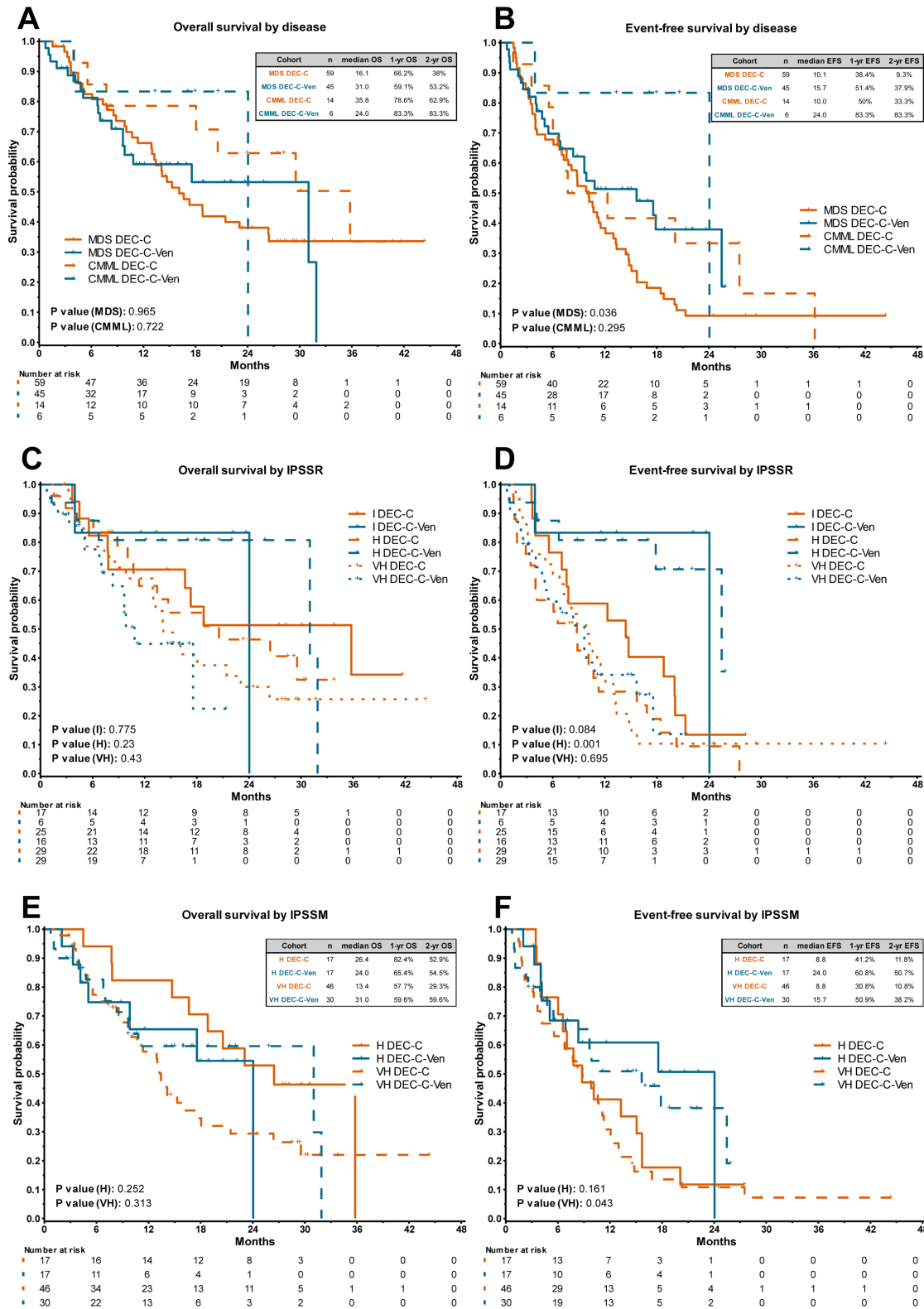
Supplementary Fig. 3. Outcomes by group



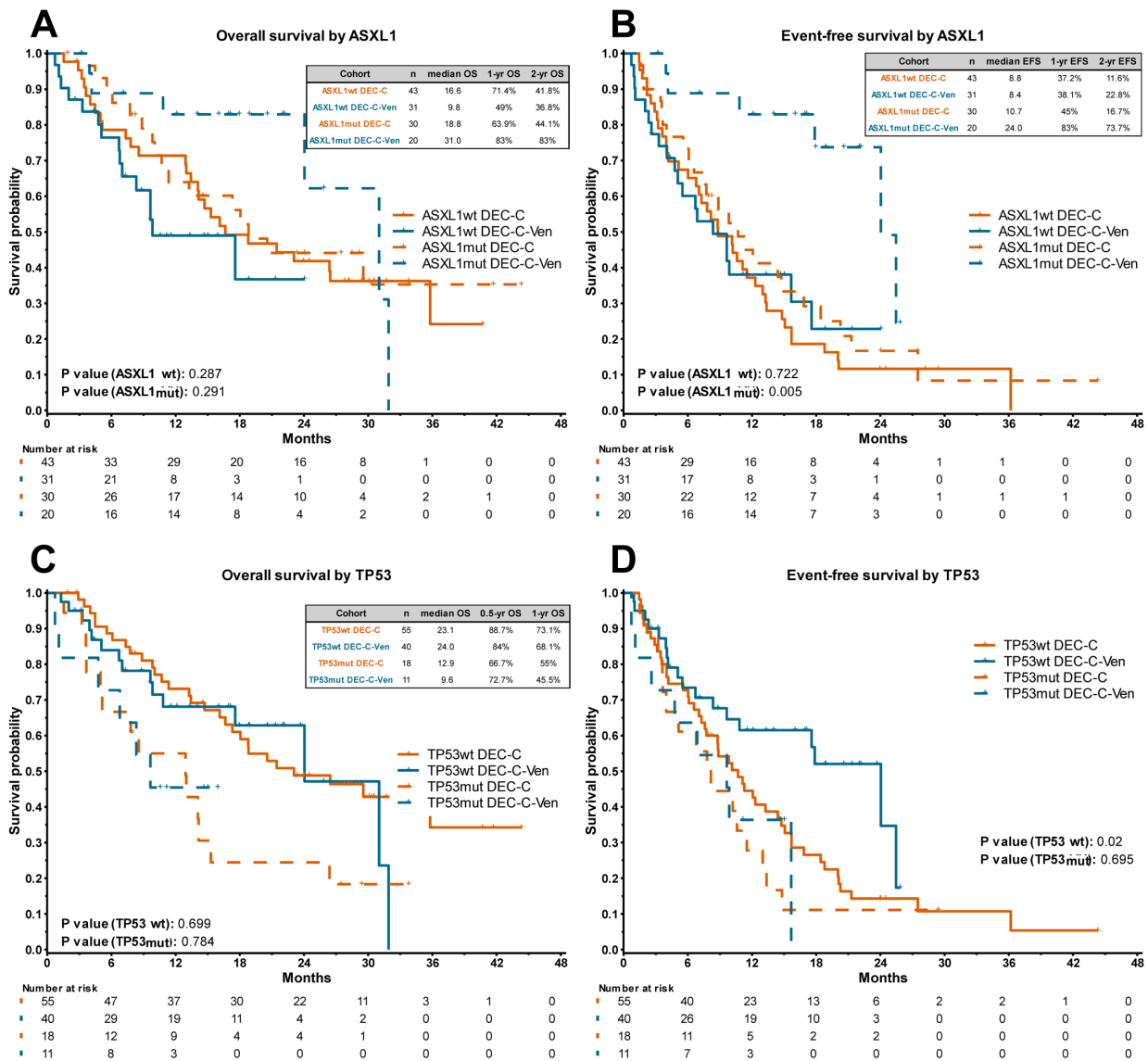
Supplementary Fig. 4. OS and EFS, censored at HSCT



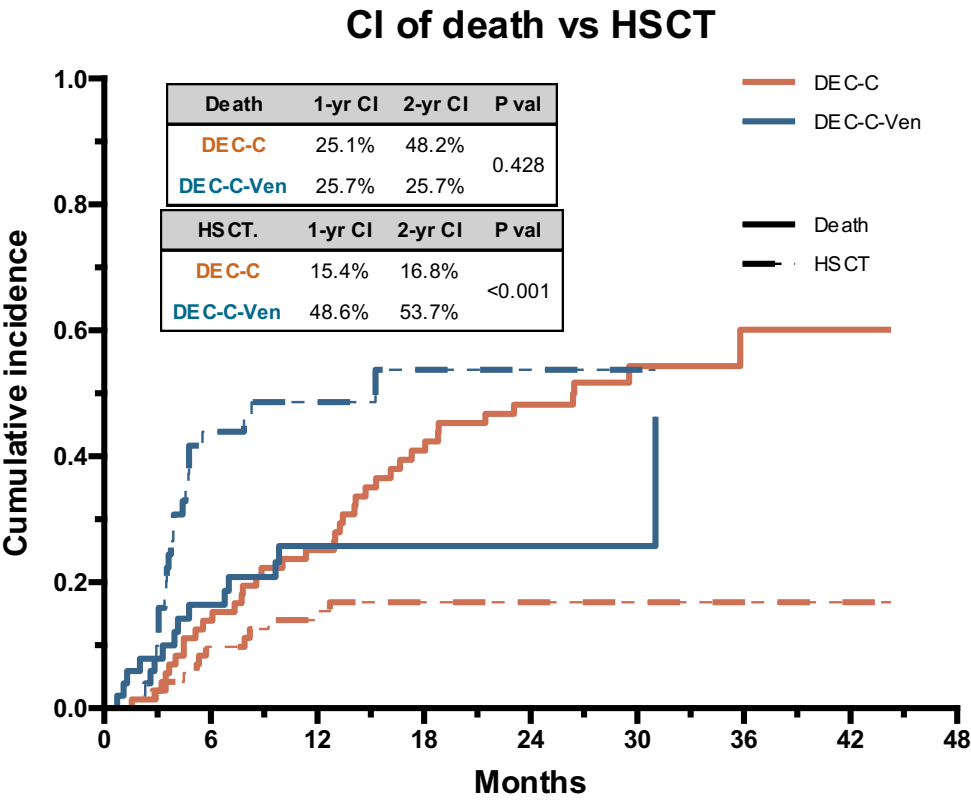
Supplementary Fig. 5. OS and EFS of specific subgroups – I



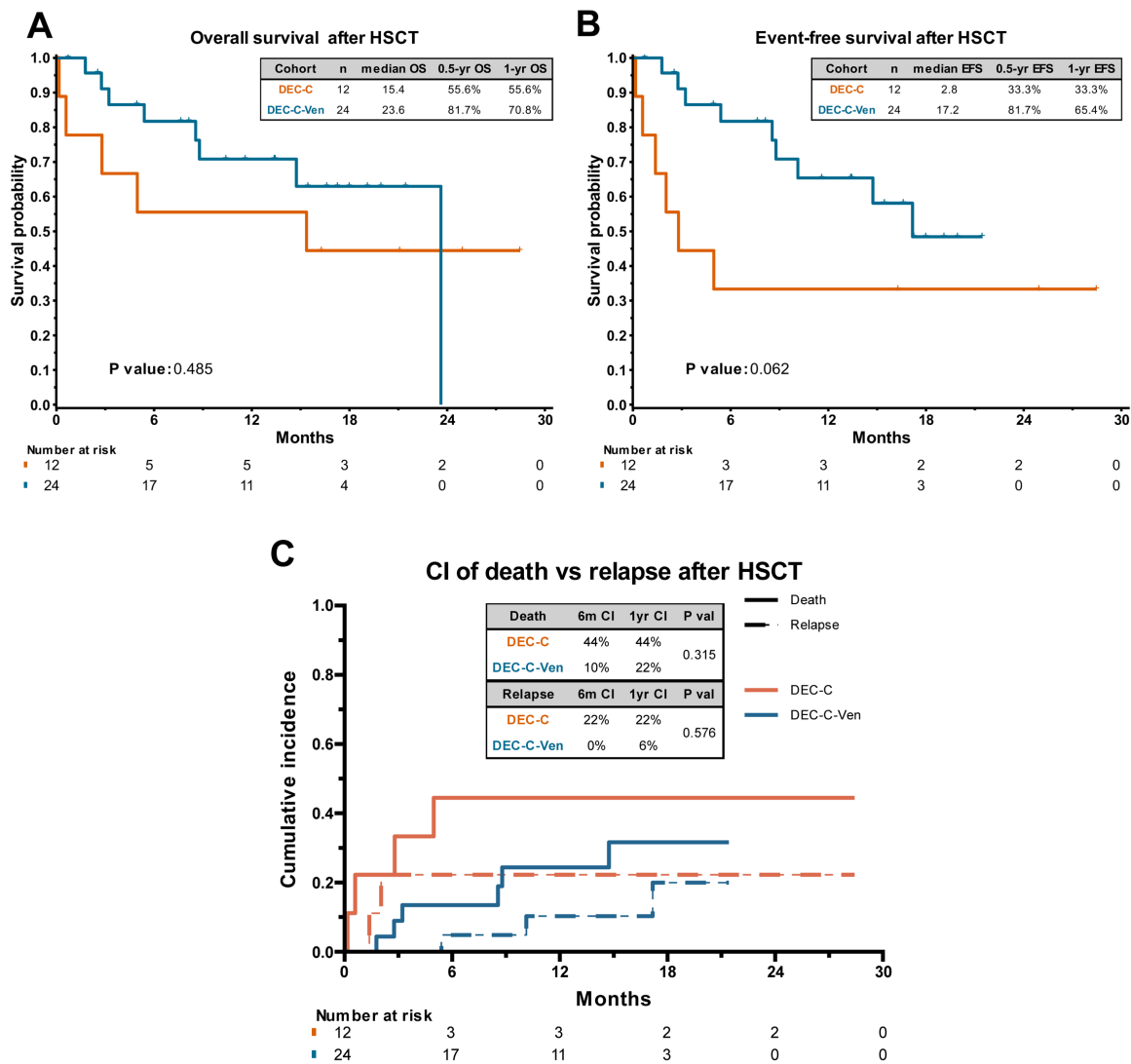
Supplementary Fig. 6. OS and EFS of specific subgroups – II



Supplementary Fig. 7. Cumulative incidence of death vs HSCT



Supplementary Fig. 8. Survival after HSCT



Supplementary Fig. 9. Blood counts on C1

