Scroll right to see the database codes						
for Disease status and Response						
		Diagnosis it refers	to			
Disease status or response to treatment		AML	ALL	CML	CLL	MDS or MD/MPN or acute leukaemia secondary to previous treatment of another disease
Chronic phase				None of the features of accelerated phase or blast crisis		
Accelerated phase				At least one of the following: • blasts 10-19% of WBCs in peripheral blood and/or nucleated bone marrow cells; • peripheral blood basophils >=20%; • persistent thrombocytopenia (<100 x 10 <sup>9</sup> )/L unrelated to therapy; • persistent thrombocytosis (>1000 x 10 <sup>9</sup> /L) unresponsive to standard therapy; • increasing spleen size and increasing WBC count unresponsive to standard therapy; • cytogenetic evidence of clonal evolution		
Blast crisis				<ul> <li>At least one of the following:</li> <li>blasts &gt;=20% of peripheral blood white cells or nucleated bone marrow cells;</li> <li>extramedullary blast proliferation;</li> </ul>		
Progressive relapsing (malignant)				• large loci of clusters of blasts in the bone marrow biopsy		
Primary progressive						
Secondary progressive						
Relapsing/remitting						
	╟──┤					
Primary induction failure / Primary refractory		Despite treatment pa achieved a complete	atient has never e remission			Treatment with intent to achieve remission was given, but no <b>Complete remission</b> was achieved
Stable disease (no change, no response)					Patients who have not achieved a CR or a PR, and who have not exhibited progression, will be considered to have no change	
Stringent Complete remission (sCR)						
Complete remission or response (CR)		For at lea • < 5% blasts in • No blasts with Aue o • Normal matura components in • No extramedullar soft tissu • Transfusio	ast 4 weeks: the bone marrow er rods (applies to AML nly) ation of all cellular the bone marrow y disease (e.g., CNS, ue disease) n independent	If unqualified, <b>Complete remission</b> is considered to be <b>Haematological complete remission</b>	<ul> <li>All of the following:</li> <li>absence of clonal lymphocytes in the peripheral blood</li> <li>absence of significant lymphadenopathy (e.g. lymph nodes greater than 1,5 cm in diameter)</li> <li>absence of hepatomegaly or splenomegaly</li> <li>absence of constitutional symptoms</li> </ul>	Response must persist for a minimum duration of four weeks: Bone marrow with $\leq$ 5 percent myeloblasts with normal maturation of all cell lines. Dysplastic changes may be seen, but should be considered within the normal range of dysplastic changes. Peripheral blood demonstrates hemoglobin $\geq$ 11 g/dL, platelets $\geq$ 100 x 109/L, neutrophils $\geq$ 1 x 109/L, and no circulating blasts.
Haematological CR		For at lea • < 5% blasts in • No blasts with Aue o • Normal matura components in • No extramedullar soft tissu • Transfusio	ast 4 weeks: the bone marrow r rods (applies to AML nly) ation of all cellular the bone marrow y disease (e.g., CNS, ue disease) n independent	All of the following: • WBC<10X10 <sup>9</sup> /L; • Hemoglobin>11.0gm/dL; • platelet count<500X10 <sup>9</sup> /L; • normal differential (<1%precursor cells); no palpable splenomegaly; • no extramedullary disease;		
Cytogenetic CR		Disappearance of cy previous	ytogenetic anomalies if ly detected	All of the following: • Haematological remission • 0% positive (t(9;22) metaphases		
Molecular CR		Disappearance of n previous	nolecular anomalies if ly detected	<ul> <li>All of the following:</li> <li>Haematological remission</li> <li>Cytogenetic remission (if cytogenetics done)</li> <li>Cells with the BCR/ABL fusion protein are not detectable in the peripheral blood and /or the bone marrow, by an assay with a sensitivity to allow detection of one t(9;22) positive cell in 10<sup>5</sup> to 10<sup>6</sup> RT-PCR cells. The result should be confirmed by two consecutive tests done at least 4 weeks apart.</li> </ul>		
CR confirmed						
			1	1		

Disease status or response to treatment	AML	ALL	CML	CLL	MDS or MD/MPN or acute leukaemia secondary to previous treatment of another disease
First partial remission (PR1)					
Venu good PP (VGPP)					
Partial remission or response Note:				At leat one of the following: • A decrease in the number of blood lymphocytes by below 50%	
• The specification " (>1, never CR, Solid tum only)" only applies to disease status in Solid Tumours				or more from the value prior to therapy; • A decrease in lymph node size by below 50% or more in the	
• For any other diagnosis, the disease status of PR can have been preceded by a relapsed CR				sum products of up to 6 lymph nodes, or in one lymph node	
				therapy, without increase in any lymph node, and no new	
				<ul> <li>A decrease in the size of the liver and/or spleen by 50% or</li> </ul>	
				<ul><li>more as defined by CT scan, palpation, or ultrasound.</li><li>The blood count should show one of the following results if</li></ul>	
				abnormal prior to therapy: Polymorphonuclear leukocytes at 1 500/ul, or more or 50%	
				improvement over baseline without G-CSF support;	
Minimal respponse / Poor partial remission or response					
Response / improvement (no CR)					
Delance					
Relapse					
	> 5% blasts in t period of Comp	e bone marrow after a <b>ete remission</b> .	If unqualified, Relapse is considered to be Haematological relapse		At least one <b>Complete remission</b> was achieved with a previous treatment but the patient has relapsed since
					then
Haematological Relapse					
	> 5% blasts in t	e bone marrow after a	Cytological and/or histological evidence of the disease in the marrow-blood and/or in extramedullary sites (CNS, testis, skin, etc.) in a patient considered to have been in		
			Haematological complete remission		
Cytogenetic Relapse	Doorne	of obromocore a second l'			
	detected earlie	in the history of the	Presence of one or more t(9:22) positive metanhases with standard outogenetics or		
	disease. Cytog determined if C	netic relapse can only be togenetic remission has	hypermetaphase FISH and/or >2% cells with the BCR/ABL fusion gene by interphase FISH, in a		
	been previously	demonstrated.	patient lacking any evidence of the disease at naematological/clinical level.		

Disease status or response to treatment	AML	ALL	CML	CLL	MDS or MD/MPN or acute leukaemia secondary to
Molecular Relanse					previous treatment of another disease
	Reappearance of r detected earlier in t disease. <b>Molecula</b> determined if <b>Mole</b> been previously de	nolecular anomalies he history of the <b>relapse</b> can only be <b>cular remission</b> has monstrated.	Presence of one or more t(9:22) positive metaphases with standard cytogenetics or hypermetaphase FISH and/or >2% cells with the BCR/ABL fusion gene by interphase FISH, in a patient lacking any evidence of the disease at haematological/clinical level.		
untreated relapse					
sensitive (responding) relapse					
resistant relapse					
Progression [progression] resistant to chemotherapy [progression] sensitive to chemotherapy [progression] sensitive to chemotherapy Untreated relapse (from a previous CR) or progression from a previous (PR)				<ul> <li>At least one of the following:</li> <li>Progression of lymphadenopathy, defined as the occurrence of at least one of the following events</li> <li>Appearance of any new lesion such as enlarged lymph nodes (&gt; 1.5 cm), splenomegaly, hepatomegaly or other organ infiltrates.</li> <li>An increase by 50% or more in greatest determined diameter of any previous site.</li> <li>An increase of 50% or more in the sum of the product of diameters of multiple nodes.</li> <li>An increase in the liver or spleen size by 50% or more or the de novo appearance of hepatomegaly or splenomegaly.</li> <li>An increase in the number of blood lymphocytes by 50% or more with at least 5,000 B-cells per μL.</li> <li>Transformation to a more aggressive histology (e.g. Richter's syndrome).</li> <li>Patient received another treatment following progression but no remission of any type was achieved</li> <li>Patient received another treatment after progression and achieved some kind of remission</li> </ul>	More blasts in bone marrow than before treatment or leukaemic transformation
Chemorefractory relapse or progression, including primary refractory disease					
Never in CR Not in CR					use only if more precise evaluation is i
Untreated/Upfront	Patient has never b disease	een treated for this		Patient has never been treated for this disease	Treatment is supportive or there has not been any treatment at all (blood transfusions are not considered as treatment in this context)
Adjuvant Not evaluable					if pat. died within 100 days after trans
	1				ii data cannot de obtained

Scroll right to see the database codes				
Tor Disease status and Response				
Disease status or response to treatment	Myelofibrosis (MPN)	Lymphoma	Plasma cell disorders; mainly Multiple myeloma	Solid Tumors
Chronic phase				
Accelerated phase				
Blast crisis				
Progressive relapsing (malignant)				
Primary progressive				
Secondary progressive				
Relapsing/remitting				
Primary induction failure / Primary refractory	Doest not present any of the features of any type of remission after treatment			The patient has not achieved any of the types of response described below until now with any type of therapy
Stable disease (no change, no response)		Less than 50% reduction in the disease burden	Does not meet the criteria for <b>Complete remission</b> , <b>Very good partial remission</b> , <b>Partial remission</b> or <b>Progressive disease</b>	Less than 50% reduction in the disease
Stringent Complete remission (sCR)			<ul> <li>All of the following:</li> <li>Complete remission as defined below</li> <li>normal free light chain ratio</li> <li>absence of clonal cells in bone marrow by immunohistochemistry or immunofluorescence</li> </ul>	
Complete remission or response (CR)	<ul> <li>All of the following:</li> <li>Resolution of disease –related symptoms and signs including palpable hepatosplenomegaly.</li> <li>Hb &gt;11gr/dl, Platelet &gt;100 x109/L and neutrophils &gt;1 x 109/L.</li> <li>normal bone marrow histology, and fibrosis grade no higher than 1</li> </ul>	Complete absence of disease, no signs or symptoms of the original disease	<ul> <li>All of the following:</li> <li>Absence of detectable monoclonal immunoglobulin in serum and monoclonal light chains in the urine by immunofixation. Detectable monoclonal immunoglobulin, even if impossible to quantify, is not a Complete remission.</li> <li>&lt;5% of plasma cells in bone marrow aspirate</li> <li>Disappearance of any soft tissue plasmacytomas.</li> <li>No increase in size or number of lytic lesions if assessed (radiographic studies are not mandatory)</li> </ul>	The patient has achieved complete absence of disease prior to HSCT and the HSCT is not part of any adjuvant therapy
Haematological CR				
Cytogenetic CR				
Molecular CR				
CR unconfirmed		At least one of the following: • no abnormalities detected in any scan • a negative PET scan if there is previous history of a positive PET scan, even in the presence of abnormalities in the CT scan		No abnormalities detected in scan
		absence of a negative PET scan		unknown significance

Disease status or response to treatment	Myelofibrosis (MPN)	Lymphoma
First partial remission (PR1)		
Very good PR (VGPR)		
Partial remission or response Note:		Reduction in the disease of 50% or more
• The specification " (>1, never CR, Solid tum only)" only applies to		
For any other diagnosis, the disease status of PR can have been		
preceded by a relapsed CR		
Minimal regenerace / Deer nartial remission or regenerac		
Minimal response / Poor partial remission or response		
Response / improvement (no CR)	At least one of the following in the absence of	
	progression: • Haemoglobin increase of 2 g/dL or transfusion	
	independence	
	<ul> <li>Spleen reduction of 50%</li> <li>100% increase in platelet count and an absolute</li> </ul>	
	platelet count of at least 50.000 x 10 <sup>9</sup> /L	
Relapse	100% increase in ANC and an ANC of at least 0.5 x	
	Loss of Complete remission	
Haematological Relapse	,	
Cytogenetic Relapse		

Plasma cell disorders: mainly Multiple myeloma	Solid Tumors
r laona oon alooraolo, manny malapio myolonia	
	Patient achieved a reduction in disease of 50% or more for the first time ever, but did not achieve <b>Complete remission</b>
At least one of the following: • Serum and urine M-protein detectable by immunofixation but not on electrophoresis • >90% reduction in serum M-protein plus urine M-protein level <0.1 g/ per 24h Plus no increase in size or number of lytic lesions if assessed (radiographic studies are not mandatory)	Disease burden is reduced by at least 90%
<ul> <li>All of the following:</li> <li>&gt;50% reduction in serum M-protein plus reduction in 24h urinary M-protein by &gt;90% or to &lt;0.2g/ per 24h <ul> <li>In the absence of measurable serum and urine M-protein, the following criteria applies:</li> <li> A decrease in the difference between involved and uninvolved free light chain (FLC) of more than 50%</li> <li> If the FLC assay cannot be measured, the following criteria applies:</li> <li>&gt;50% reduction in plasma cells provided baseline bone marrow plasma cell percentage was &gt;30%</li> <li>A reduction of more than 50% in the size of soft tissue plasmacytomas if present at pretreatment.</li> <li>No increase in size or number of lytic lesions if assessed (radiographic studies are not mandatory)</li> </ul> </li> </ul>	<u>Second</u> or <u>subsequent</u> time a reduction in the disease of 50% or more is achieved in patients who have <u>never</u> achieved a <b>Complete</b> <b>remission</b>
At least one of the following for patients whose last disease status was <b>Complete</b> remission: - Reappearance of measurable monoclonal immunoglobulin in serum or urine by immunofixation or electrophoresis - Appearance of more than 5% plasma cells in the bone marrow - Increase of old/appearance of new osteolytic bone lesions on x-ray - Appearance of soft tissue plasmacytoma	Reappearance of disease in patients whose last disease status was <b>Complete</b> remission

Disease status or response to treatment	Myelofibrosis (MPN)	l ymphoma	Plasma cell disorders: mainly Multiple myeloma	Solid Tumors
ensease status or response to treatment		Ly inpriorita		
				<u></u>
Molecular Relapse	2			
untreated relapse	,			Patient has not been treated for this
				relapse
sensitive (responding) relapse				Patient achieves a reduction of >50%
				in the disease burden after treatment
				for this relapse
resistant relapse				
				Patient has not achieved a reduction of
				more than 50% in the disease burden
				after treatment for this relapse
Dregression			At least one of the following:	· · · · · · · · · · · · · · · · · · ·
riogression			A least one of the following:	4
			- Increase of 25% or more in measurable monoclonal immunoglobulin in serum or	4
			urine (absolute increase must be >0.5g/dL)	4
			- Increase of 25% or more in urinary light chains (absolute increase must be >0.2g/ per	4
			24h)	4
	At least one of the following		In the absence of measurable serum and urine M-protein, the following criteria	
	progressive splenomegaly		applies:	
	leukemic transformation		- An increase of 25% or more in the difference between involved and uninvolved free	
	• an increase of peripheral blood blast percentage of at		light chain (absolute increase must be $>0.01 a/dl$ )	
	least 20%		An increase of 25% or more in bone more we please calls (absolute % must be	
			- An increase of 25% of more in bone marrow plasma cells (absolute % must be	
			>10%)	
			- Increase of old/appearance of new osteolytic bone lesions on x-ray	
			- Appearance of soft tissue plasmacytoma	
			- Development of hypercalcemia (corrected serum calcium >11.5 mg/dL or 2.65	
			mmol/L) that can be attributed solely to the plasma cell disorder	
Invagraccion I resistant to chamathoran				L
[progression] sensitive to chemotherapy				
Untreated relapse (from a previous CR) or progression from a		Worsening of the disease status in patients in PR or	r	
previous (PR)		re-appearance of the Lymphoma in patients in CR,		
		such as:		
		Occurrence of new sites of the disease		
		Re-occurrence of disease or systemic symptoms		
		(D symptoms)		
		(B symptoms)		
		Patient remains untreated after the relapse or		
		progression		<u> </u>
Chemorefractory relapse or progression, including primary		Does not present any of the features of any type of		
retractory disease		remission after treatment		
Never in CR	not possible			
Not in CR	not possible			
Untreated/Upfront	Treatment is supportive or there has not have a			Detient has never been treated for this
	reatment is supportive or there has not been any			Patient has never been treated for this
	treatment at all (blood transfusions are not considered	Patient has never been treated for this disease	Patient has never been treated for this disease	disease and the high dose therapy is
	as treatment in this context)			part of the overall treatment strategy
Adjuvant				
Aujuvanc				
				Patient has no residual disease and
				the HSCT is part of the consolidation
				treatment: metastatic nationts can
				nover be considered as a diment
				never de considered as adjuvant.
Not evaluable	plant	1	1	1
lunknown				

Scroll right to see the database codes	1				
for Disease status and Response					
				Data base	codes
Disease status or response to treatment	Severe Aplastic anaemia (SAA)	non Severe Aplastic anaemia (nSAA)	Multiple sclerosis	Disease status	Response
Chronic phase				1	
Accelerated phase				2	
Blast crisis				3	
Progressive relapsing (malignant)			Continuous disease progression with clear acute disease exacerbation episodes	5	
Primary progressive			Continuous disease progression without distinct acute disease exacerbation episodes	6	
Secondary progressive			Acute disease exacerbations periods where there is disease progression after the acute disease exacerbation	7	
Relapsing/remitting			Acute disease exacerbation periods that resolve completely without worsening of neurologic functions	8	
Primary induction failure / Primary refractory				10	
Stable disease (no change, no response)	Still meeting criteria of severe aplastic anaemia and transfusion dependence	Not meeting criteria of partial or complete response		20	50
Stringent Complete remission (sCR)				28	10
Complete remission or response (CR)	All of the fo • haemoglobin n • neutrophils >: • platelets >=	ollowing: ormal for age = 1.5 x 10 <sup>9</sup> /L 150 x 10 <sup>9</sup> /L		30	20 (21) (22) (23)
Haematological CR	2				
Cytogenetic Ck					
Molecular CR	2				
CR confirmed	4				
CR unconfirmed					
L	1		1		

Disease status or response to treatment	Severe Aplastic anaemia (SAA)	non Severe Aplastic anaemia (nSAA)	Multiple sclerosis	Disease status	Response
First partial remission (PR1)				40	
Very good PR (VGPR)				41	35
				71	(36)
					(37)
					(00)
Partial remission or response	All of the following	At least one of the following:		45	30
Note:	transfusion independent	transfusion independence (if previously		75	(31)
• The specification " (>1, never CR, Solid tum only)" only applies to disease status in Solid Tumours	• no longer meeting criteria for severe aplastic	required) <ul> <li>doubling or normalization of at least one</li> </ul>			(32)
• For any other diagnosis, the disease status of PR can have been		cell line			(00)
		<ul> <li>increase above baseline* by</li> <li>3 g/dl hemoglobin and</li> </ul>			
		. 0.5x10 <sup>9</sup> /L neutrophils and			
		. 20x10 <sup>9</sup> /L platelets			
Minimal respponse / Poor partial remission or response	All of the following <ul> <li>transfusion independent</li> </ul>				40
	levels of hemoglobin, neutrophils and				
	platelets still meeting criteria for severe aplastic anaemia (see MED-AB Manual)				
Response / improvement (no CR)				46	44
Relapse				50	60
Haematological Relapse					
Cytogenetic Relapse					

Disease status or response to treatment	Severe Aplastic anaemia (SAA)	non Severe Aplastic anaemia (nSAA)	Multiple sclerosis	Disease status	Response
Molecular Relapse					
untreated relapse					
sensitive (responding) relapse					
resistant relapse					
Progression				60	60
[progression] resistant to chemotherapy					
[progression] sensitive to chemotherapy					
Untreated relapse (from a previous CR) or progression from a				51	
previous (PR)					
Chemorefractory relapse or progression, including primary				61	
refractory disease					
Never in CR				65	70
Not in CR				66	
Untreated/Upfront				70	
Adjuvant				75	
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Not evaluable				00	00
			l	80	80
IUTKTOWN				99	99