RMG

Data dictionary

(Revised on 15.06.2015)

MM - diagnostics

Diagnostics

- Followed-up as MGUS before (yes/no) default
- MM/SMM diagnosis (yes/no)
- History of solitary plasmacytoma (yes/no)
- Polyneuropathy in medical history (yes/no)
- > Date of diagnosis (date) default
- > Status Performance (selection)
 - 0
 - **•** 1
 - **2**
 - **3**
 - **a** 1
- M-protein type (selection)
 - IgG
 - IgA
 - IgD
 - lgE
 - IgM
 - Biclonal
 - Triclonal
 - Nonsecretory
 - LC only
- > Serum monoclonal IgM protein quantity (g/l) (real number scale: 1)
- > FLC quantity measured (yes/no) default
- > Serum lambda FLC quantity (mg/l) (real number scale: 0)

- Serum kappa FLC quantity (mg/l) (real number scale: 0)
- Kappa/lambda ratio (real number scale: 0) computed
- Urine M-protein quantity (mg/24h) (real number scale: 1)
- Light chain type (selection)
 - kappa
 - lambda
 - biclonal
- Bone marrow histology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count (%) (real number scale: 0)
- Bone marrow aspiration cytology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count (%) (real number scale: 0)
- Flow cytometry (yes/no)
- Normal PC CD19 (%) (real number scale: 1) abs. min:0
- Abnormal PC CD56 (%) (real number scale: 1) abs. min:0
- Normal/Abnormal (real number scale: 2) computed read-only
- Osteolytic lesions X-ray (selection)
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2
 - can not evaluate
- Osteolytic lesions NMR (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - can not evaluate
- Osteolytic lesions CT (selection)

- ND
- negative
- 1 osteolytic lesion
- 2 osteolytic lesions
- more than 2 lesions
- can not evaluate
- Osteolytic lesions PET (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - can not evaluate
- Osteolytic lesions PET/CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - can not evaluate
- Osteolytic lesions MIBI (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - can not evaluate
- Extramedullary mass (yes/no)
- Extramedullary mass relation (selection)
 - extramedullary mass NOT related to bone
 - bone related extramedullary tumor mass
 - both tips
- Extramedullary mass histology (selection)
 - NA
 - negative

- positive
- Extramedullary masses count (selection)
 - 1
 - **2**
 - 3
 - more than 3
- Max size (cm) x (real number scale: 0)
- Max size (cm) y (real number scale: 0)
- Mass area (cm2) (real number scale: 0) computed

Biochemistry

- Hemoglobin level (g/l) (real number scale: 0)
- Thrombocyte count (10E9/I) (real number scale: 1)
- Calcium total level (mmol/l) (real number scale: 0)
- Albumin level (g/l) (real number scale: 0)
- Creatinine level (umol/l) (real number scale: 0)
- Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
- LDH (ukat/l) (real number scale: 0)
- CRP (mg/l) (real number scale: 0)
- Polyclonal IgG quantity (g/l) (real number scale: 0)
- Polyclonal IgA quantity (g/l) (real number scale: 0)
- Polyclonal IgM quantity (g/l) (real number scale: 0)
- ➤ Ig kappa HLC pair (g/l) (real number scale: 2) abs. min:0
- Ig lambda HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ HLC ratio (real number scale: 2) abs. min:0 computed read-only
- Cytogenetics (yes/no)
- Date of sample collection (dd.mm.yyyy) (date)
- IGH disruption (selection)
 - positive
 - negative
 - NA

Cytogenetic - FISH

- > t(11;14) (selection)
 - positive
 - negative
 - NA

- > t(11;14) (%) (real number scale: 1) > t(4;14) (selection) positive negative NA > t(4;14) (%) (real number - scale: 1) > t(6;14) (selection) positive
 - negative
 - NA
- > t(6;14) (%) (real number scale: 1)
- > t(14;16) (selection)
 - positive
 - negative
 - NA
- > t(14;16) (%) (real number scale: 1)
- del(q14)/monosomy 13 (selection)
 - positive
 - negative
 - NA
- del(q14)/monosomy 13 (%) (real number scale: 1)
- gain 1q21 (selection)
 - positive
 - negative
 - NA
- gain 1q21 (%) (real number scale: 1)
- del(17)(p13) (selection)
 - positive
 - negative
 - NA
- del(17)(p13) (%) (real number scale: 1)
- Hyperdiploidy (yes/no)

❖ Stage

- Durie-Salmon stage (selection) computed

- ||
- **-** |||
- > Substage (selection) computed
 - A
 - B
- ➤ High resolution Durie-Salmon stage (selection)
 - •
 - II
 - III
- ➤ HR D-S based on (selection)
 - NMR
 - CT
 - PET
 - MIBI
 - PET/CT
- ➤ ISS classification (selection) computed
 - Stage 1
 - Stage 2
 - Stage 3
- Amyloidosis at the time of diagnosis of MM

MM - treatment

❖ <u>SMM</u>

- Progression SMM to MM (yes/no)
- Date of progression (date)

Reason for the start of the therapy

- Calcium level increased: > 0.25 mmol/l above the upper limit of normal or > 2.75 mmol/l (yes/no)
- Renal insufficiency: creatinine > 173 mmol/l (yes/no)
- ➤ Anaemia: haemoglobin > 20 g/l below the lower limit of normal or < 100 g/l (yes/no)
- ➤ Bone lesions: lytic lesions or osteoporosis with compression fractures (yes/no)
- Other (yes/no)
- Other specification (string)

Primary treatment

- Regimen (selection)
 - Without treatment

- Thalidomide based regimens
- Velcade based regimens
- Revlimid based regimens
- Other regimens
- Other conventional chemotherapy
- Other induction followed by Autologous stem cell transplantation
- Salvage autologous transplantation technique
- Imnovid based regiment
- Carfilzomib based regimen
- Ixazomib based regimen
- Treatment modality new (selection)
 - Without treatment
 - Thalidomide monotherapy
 - TD (Thalidomide + Dexamethasone)
 - TP (Thalidomide + Prednison)
 - CTD junior therapy (Cyclophosphamide+Thalidomide+Dexamethasone)
 - CTD senior therapy
 - MPT junior therapy (Melphalan + Prednisone + Thalidomide)
 - MPT senior therapy
 - VTD therapy (Velcade + Thalidomide + Dexamethasone)
 - CVTD therapy (Cyclophosphamide + Velcade + Thalidomide + Dexamethasone)
 - CTD induction followed by Autologous stem cell transplantation
 - CVTD induction followed by Autologous stem cell transplantation
 - VTD induction followed by Autologous stem cell transplantation
 - Other Thalidomide based combination
 - Other Thalidomid based induction followed by Autologous stem cell transplantation
 - TBD therapy (Thalidomide + Bendamustine + Dexamethasone)
 - TBP therapy (Thalidomide + Bendamustine + Prednison)
 - Velcade monotherapy
 - VD therapy (Velcade Dexamethasone)
 - VP therapy (Velcade + Prednison)
 - CVD junior therapy (Cyclophosphamide + Velcade + Dexamethasone)
 - CVD senior therapy
 - VMP junior therapy (Velcade + Melphalan + Prednison)
 - VMP senior therapy

- BDD therapy (Velcade + Adriamycin + Dexamethasone)
- RVD therapy induction (Revlimide + Velcade + Dexamethasone)
- VD induction followed by Autologous stem cell transplantation
- CVD induction followed by Autologous stem cell transplantation
- BDD induction followed by Autologous stem cell transplantation
- Other Velcade based combination
- Other Velcade based induction followed by Autologous stem cell transplantation
- BBD therapy (Velcade + Bendamustine + Dexamethasone)
- BBP therapy (Velcade + Bendamustine + Prednison)
- Revlimid monotherapy
- RP junior therapy (Revlimide + Prednisone)
- RP senior therapy
- RD therapy (Revlimide + Dexamethasone)
- RCD junior therapy (Revlimide + Cyclophosphamide + Dexamethasone)
- RCD senior therapy
- RP induction followed by Autologous stem cell transplantation
- RD induction followed by Autologous stem cell transplantation
- RCD induction followed by Autologous stem cell transplantation
- RVD induction followed by Autologous stem cell transplantation
- Other Revlimid based combination
- Other Revlimid based induction followed by Autologous stem cell transplantation
- RAD junior therapy (Revlimid-Adriamycin+ Dexamethasone)
- RAD senior therapy
- RAD induction followed by Autologous stem cell transplantation
- RBD therapy (Revlimide + Bendamustine + Dexamethasone)
- RBP therapy (Revlimide + Bendamustine + Prednison)
- RCD therapy (Revlimid + Carfilzomib + Dexamethason)
- RID therapy (Revlimid + Ixazomib + Dexamethason)
- Corticosteroid monotherapy
- Melphalan monotherapy
- Cyclophosphamide monotherapy
- MP therapy (Melphalan + Prednison)
- CP therapy (Cyclophosphamide + Prednison)
- CD therapy (Cyclophosphamide + Dexamethasone)
- VAD therapy (Vincristin + Adriamycin + Dexamethasone)

- VID therapy (Vincristin + Idarubicin + Dexamethason)
- CAD junior therapy (Cyclophosphamide + Etoposide + Dexamethasone)
- CAD senior therapy
- CED therapy (Cyclophosphamide + Etoposide + Dexamethasone)
- VAD induction followed by Autologous stem cell transplantation
- VID induction followed by Autologous stem cell transplantation
- CAD induction followed by Autologous stem cell transplantation
- BD (Bendamustine + Dexamethazone)
- BP (Bendamustine + Prednison)
- Bendamustin monotherapy
- Other
- Other conventional chemotherapy
- Other induction followed by Autologous stem cell transplantation
- Salvage autologous transplantation technique
- Imnovid monotherapy
- Imnovid + Dexamethasone
- Other Imnovid based combination
- Carfilzomib monotherapy
- CD Therapy (Carfilzomib + Dexamethasone)
- CMP therapy (Carfilzomib + Melphalan + Prednison)
- Other Carfilzomid based combination
- Ixazomib monotherapy
- ID therapy (Ixazomib + Dexamethasone)
- LID therapy (Ixazomib + Lenalidomid + Dexamethasone)
- IMP therapy (Ixazomib + Melphalan + Prednison)
- Other Ixazomib based combination
- Specify other treatment (string)
- Switch of therapy regimen (yes/no)
- Reason for switch (string)
- Regimen (selection)
 - Without treatment
 - Thalidomide based regimens
 - Velcade based regimens
 - Revlimid based regimens
 - Other regimens

- Other conventional chemotherapy
- Other induction followed by Autologous stem cell transplantation
- Salvage autologous transplantation technique
- Imnovid based regiment
- Carfilzomib based regimen
- Ixazomib based regimen
- Switch to (selection)
 - Without treatment
 - Thalidomide monotherapy
 - TD (Thalidomide + Dexamethasone)
 - TP (Thalidomide + Prednison)
 - CTD junior therapy (Cyclophosphamide+Thalidomide+Dexamethasone)
 - CTD senior therapy
 - MPT junior therapy (Melphalan + Prednisone + Thalidomide)
 - MPT senior therapy
 - VTD therapy (Velcade + Thalidomide + Dexamethasone)
 - CVTD therapy (Cyclophosphamide + Velcade + Thalidomide + Dexamethasone)
 - CTD induction followed by Autologous stem cell transplantation
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 - VTD induction followed by Autologous stem cell transplantation
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 - TBD therapy (Thalidomide + Bendamustine + Dexamethasone)
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 - Velcade monotherapy
 - VD therapy (Velcade Dexamethasone)
 - VP therapy (Velcade + Prednison)
 - CVD junior therapy (Cyclophosphamide + Velcade + Dexamethasone)
 - CVD senior therapy
 - VMP junior therapy (Velcade + Melphalan + Prednison)
 - VMP senior therapy
 - BDD therapy (Velcade + Adriamycin + Dexamethasone)
 - RVD therapy induction (Revlimide + Velcade + Dexamethasone)
 - VD induction followed by Autologous stem cell transplantation
 - CVD induction followed by Autologous stem cell transplantation

- BDD induction followed by Autologous stem cell transplantation
- Other Velcade based combination
- Other Velcade based induction followed by Autologous stem cell transplantation
- BBD therapy (Velcade + Bendamustine + Dexamethasone)
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- RP junior therapy (Revlimide + Prednisone)
- RP senior therapy
- RD therapy (Revlimide + Dexamethasone)
- RCD junior therapy (Revlimide + Cyclophosphamide + Dexamethasone)
- RCD senior therapy
- RP induction followed by Autologous stem cell transplantation
- RD induction followed by Autologous stem cell transplantation
- RCD induction followed by Autologous stem cell transplantation
- RVD induction followed by Autologous stem cell transplantation
- Other Revlimid based combination
- Other Revlimid based induction followed by Autologous stem cell transplantation
- RAD junior therapy (Revlimid-Adriamycin+ Dexamethasone)
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- RAD induction followed by Autologous stem cell transplantation
- RBD therapy (Revlimide + Bendamustine + Dexamethasone)
- RBP therapy (Revlimide + Bendamustine + Prednison)
- RCD therapy (Revlimid + Carfilzomib + Dexamethason)
- RID therapy (Revlimid + Ixazomib + Dexamethason)
- Corticosteroid monotherapy
- Melphalan monotherapy
- Cyclophosphamide monotherapy
- MP therapy (Melphalan + Prednison)
- CP therapy (Cyclophosphamide + Prednison)
- CD therapy (Cyclophosphamide + Dexamethasone)
- VAD therapy (Vincristin + Adriamycin + Dexamethasone)
- VID therapy (Vincristin + Idarubicin + Dexamethason)
- CAD junior therapy (Cyclophosphamide + Etoposide + Dexamethasone)
- CAD senior therapy
- CED therapy (Cyclophosphamide + Etoposide + Dexamethasone)

- VAD induction followed by Autologous stem cell transplantation
- VID induction followed by Autologous stem cell transplantation
- CAD induction followed by Autologous stem cell transplantation
- BD (Bendamustine + Dexamethazone)
- BP (Bendamustine + Prednison)
- Bendamustin monotherapy
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- Salvage autologous transplantation technique
- Imnovid monotherapy
- Imnovid + Dexamethasone
- Other Imnovid based combination
- Carfilzomib monotherapy
- CD Therapy (Carfilzomib + Dexamethasone)
- CMP therapy (Carfilzomib + Melphalan + Prednison)
- Other Carfilzomid based combination
- Ixazomib monotherapy
- ID therapy (Ixazomib + Dexamethasone)
- LID therapy (Ixazomib + Lenalidomid + Dexamethasone)
- IMP therapy (Ixazomib + Melphalan + Prednison)
- Other Ixazomib based combination
- Radiotherapy (yes/no)
- Type of radiotherapy (selection)
 - analgetic
 - therapeutic
- Total dose [Gy] (number) abs. min:0
- Treatment beginning date (date) abs. min: "1.1.1900"
- Date of treatment withdrawal (date)
- Date of transplant (date) abs. min:"1.1.1900"
- Special transplantation technique (selection)
 - Tandem autotransplantation
 - Full Allogenic transplantation
 - Mini Allogenic transplantation
 - No

- > Date of subsequent transplant (date) abs. min:"1.1.1900"
- Serum M-protein entry level (g/l) (real number scale: 0) abs.min:0
- Urine M-protein entry level (mg/24h) (real number scale: 0) abs.min:0
- Date of partial response (for DOR calculation) (date)
- Date of maximal final response to treatment (date)
- Serum M-protein level after treatment (g/l) (real number scale: 0) abs.min:0
- Urine M-protein level after treatment (mg/24h) (real number scale: 0) abs.min:0
- Serum M-protein ratio after treatment/entry (%) (real number scale: 1) abs.min:0 computed
- Urine M-protein ratio after treatment/entry (%) (real number scale: 1) abs.min:0 computed
- Immunofixation after treatment serum (selection)
 - NA
 - negative
 - positive
- Immunofixation after treatment urine (selection)
 - NA
 - negative
 - positive
- Plasmocyte count M (%) in bone marrow aspiration after treatment (real number scale: 0)
- Kappa/lambda ratio (selection)
 - ND
 - normal
 - abnormal
- > Final response to treatment computed (string) computed read-only
- Do you agree with computed response? (yes/no) default
- Specify response (selection)
 - PG
 - SD
 - PR
 - VGPR
 - CR
 - sCR
 - MR
 - NA

- Explanation of the difference (string)
- Consolidation therapy (! except PBSCT) (yes/no)
- Maintenance therapy (yes/no)

Primary treatment adverse events

- SAE (Serious Adverse Events) (yes/no)
- Description (long string)
- SUSAR (Suspect Serious Adverse Events) (yes/no)
- Description (long string)

Following treatment

- Line of therapy (selection)
 - 2nd line
 - 3rd line
 - 4th line
 - 5th line
 - 6th line
 - 7th line
 - 8th line
 - 9th line
 - 10th line
 - 11th line
 - 12th line
 - 13th line
 - 14th line
 - 15th line
- Reason for treatment (selection)
 - relapse/progression
 - insufficient response
- Date of relapse/progression (date)
- Extramedullary mass (yes/no)
- Extramedullary mass relation (selection)
 - extramedullary mass NOT related to bone
 - bone related extramedullary tumor mass
 - both tips
- Treatment beginning date (date)
- Date of treatment withdrawal (date)

- Treatment modality regimen (selection)
 - Without treatment
 - Thalidomide based regimens
 - Velcade based regimens
 - Revlimid based regimens
 - Other regimens
 - Other conventional chemotherapy
 - Other induction followed by Autologous stem cell transplantation
 - Salvage autologous transplantation technique
 - Imnovid based regiment
 - Carfilzomib based regimen
 - Ixazomib based regimen
- *Treatment modality new (selection)
 - Without treatment
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 - MPT senior therapy
 - VTD therapy (Velcade + Thalidomide + Dexamethasone)
 - CVTD therapy (Cyclophosphamide + Velcade + Thalidomide + Dexamethasone)
 - CTD induction followed by Autologous stem cell transplantation
 - CVTD induction followed by Autologous stem cell transplantation
 - VTD induction followed by Autologous stem cell transplantation
 - Other Thalidomide based combination
 - Other Thalidomid based induction followed by Autologous stem cell transplantation
 - TBD therapy (Thalidomide + Bendamustine + Dexamethasone)
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 - Velcade monotherapy
 - VD therapy (Velcade Dexamethasone)
 - VP therapy (Velcade + Prednison)
 - CVD junior therapy (Cyclophosphamide + Velcade + Dexamethasone)
 - CVD senior therapy

- VMP junior therapy (Velcade + Melphalan + Prednison)
- VMP senior therapy
- BDD therapy (Velcade + Adriamycin + Dexamethasone)
- RVD therapy induction (Revlimide + Velcade + Dexamethasone)
- VD induction followed by Autologous stem cell transplantation
- CVD induction followed by Autologous stem cell transplantation
- BDD induction followed by Autologous stem cell transplantation
- Other Velcade based combination
- Other Velcade based induction followed by Autologous stem cell transplantation
- BBD therapy (Velcade + Bendamustine + Dexamethasone)
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- RD therapy (Revlimide + Dexamethasone)
- RCD junior therapy (Revlimide + Cyclophosphamide + Dexamethasone)
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- Corticosteroid monotherapy
- Melphalan monotherapy
- Cyclophosphamide monotherapy
- MP therapy (Melphalan + Prednison)
- CP therapy (Cyclophosphamide + Prednison)

- CD therapy (Cyclophosphamide + Dexamethasone)
- VAD therapy (Vincristin + Adriamycin + Dexamethasone)
- VID therapy (Vincristin + Idarubicin + Dexamethason)
- CAD junior therapy (Cyclophosphamide + Etoposide + Dexamethasone)
- CAD senior therapy
- CED therapy (Cyclophosphamide + Etoposide + Dexamethasone)
- VAD induction followed by Autologous stem cell transplantation
- VID induction followed by Autologous stem cell transplantation
- CAD induction followed by Autologous stem cell transplantation
- BD (Bendamustine + Dexamethazone)
- BP (Bendamustine + Prednison)
- Bendamustin monotherapy
- Other
- Other conventional chemotherapy
- Other induction followed by Autologous stem cell transplantation
- Salvage autologous transplantation technique
- Imnovid monotherapy
- Imnovid + Dexamethasonea
- Other Imnovid based combination
- Carfilzomib monotherapy
- CD Therapy (Carfilzomib + Dexamethasone)
- CMP therapy (Carfilzomib + Melphalan + Prednison)
- Other Carfilzomid based combination
- Ixazomib monotherapy
- ID therapy (Ixazomib + Dexamethasone)
- LID therapy (Ixazomib + Lenalidomid + Dexamethasone)
- IMP therapy (Ixazomib + Melphalan + Prednison)
- Other Ixazomib based combination
- Specify other treatment (string)
- Switch of therapy regimen (yes/no)
- Reason for switch (string)
- Switch to regimen (selection)
 - Without treatment
 - Thalidomide based regimens
 - Velcade based regimens

- Revlimid based regimens
- Other regimens
- Other conventional chemotherapy
- Other induction followed by Autologous stem cell transplantation
- Salvage autologous transplantation technique
- Imnovid based regiment
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- Switch to (selection)
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 - CVD senior therapy
 - VMP junior therapy (Velcade + Melphalan + Prednison)
 - VMP senior therapy
 - BDD therapy (Velcade + Adriamycin + Dexamethasone)
 - RVD therapy induction (Revlimide + Velcade + Dexamethasone)

- VD induction followed by Autologous stem cell transplantation
- CVD induction followed by Autologous stem cell transplantation
- BDD induction followed by Autologous stem cell transplantation
- Other Velcade based combination
- Other Velcade based induction followed by Autologous stem cell transplantation
- BBD therapy (Velcade + Bendamustine + Dexamethasone)
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- RP senior therapy
- RD therapy (Revlimide + Dexamethasone)
- RCD junior therapy (Revlimide + Cyclophosphamide + Dexamethasone)
- RCD senior therapy
- RP induction followed by Autologous stem cell transplantation
- RD induction followed by Autologous stem cell transplantation
- RCD induction followed by Autologous stem cell transplantation
- RVD induction followed by Autologous stem cell transplantation
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- VAD therapy (Vincristin + Adriamycin + Dexamethasone)
- VID therapy (Vincristin + Idarubicin + Dexamethason)
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- CAD senior therapy
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- Bendamustin monotherapy
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- Salvage autologous transplantation technique
- Imnovid monotherapy
- Imnovid + Dexamethasone
- Other Imnovid based combination
- Carfilzomib monotherapy
- CD Therapy (Carfilzomib + Dexamethasone)
- CMP therapy (Carfilzomib + Melphalan + Prednison)
- Other Carfilzomid based combination
- Ixazomib monotherapy
- ID therapy (Ixazomib + Dexamethasone)
- LID therapy (Ixazomib + Lenalidomid + Dexamethasone)
- IMP therapy (Ixazomib + Melphalan + Prednison)
- Other Ixazomib based combination
- Radiotherapy (yes/no)
- Type of radiotherapy (selection)
 - analgetic
 - therapeutic
- Total dose [Gy] (number) abs. min:0
- Date of maximal final response (date)
- *Final response to treatment (selection)
 - PG
 - SD
 - PR
 - VGPR

- CR
- sCR
- MR
- NA
- Date of partial response (for DOR calculation) (date)
- Consolidation therapy (yes/no)
- Maintenance therapy (yes/no)
- > SAE (yes/no)
- Specify SAE (string)
- SUSAR (yes/no)
- Specify SUSAR (string)
- > PFS (number)
- > TTP (number)
- > DFS (number)
- DOR (number)

❖ Follow-up

- Date of evaluation (date)
- Patient (selection)
 - unknown
 - alive
 - dead
- Patient status (selection)
 - unknown
 - treated
 - not treated

Amyloidosis with MM

❖ <u>Death</u>

- > Date of death (date)
- Cause of death (selection)
 - related to diagnosis
 - other
 - related to Bisphosphonate treatment
- Note (long string)
- OS (number) computed read-only
- ➤ Date of diagnosis (date) default read-only

Primary treatment - extension

Biochemistry before treatment

- ➤ Hemoglobin level (g/l) (real number scale: 0) abs. min:0
- Thrombocyte count (10E9/I) (real number scale: 1) abs. min:0
- Calcium total level (mmol/l) (real number scale: 0) abs. min:0
- Albumin level (g/l) (real number scale: 0) abs. min:0
- Creatinine level (umol/l) (real number scale: 0) abs. min:0
- > Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
- LDH (ukat/I) (real number scale: 0) abs. min:0
- > CRP (mg/l) (real number scale: 0) abs. min:0

❖ Before treatment

- Status Performance (selection)
 - 0
 - **1**
 - **2**
 - **3**
 - **-** 4
- Karnofsky status (selection)
 - NA
 - **1**0
 - **2**0
 - **3**0
 - **4**0
 - **•** 50
 - **•** 60
 - **•** 70
 - **80**
 - **9**0
 - **100**
- Durie-Salmon stage (selection)

 - II
 - |||

	•	Α
	•	В
>	ISS classification (selection) computed	
	•	Stage 1
	•	Stage 2
	•	Stage 3
>	Change of M-protein type? (yes/no)	
M-protein type (selection		protein type (selection)
	•	IgG
	•	IgA
	•	IgD
	•	IgE
	•	lgM
	•	Biclonal
	•	Triclonal
	•	Nonsecretory
	•	LC only
	Light chain type (selection)	
	•	kappa
	•	lambda

biclonal

negative

1 osteolytic lesion

2 osteolytic lesions

can not evaluate

1 osteolytic lesion

2 osteolytic lesionsmore than 2 lesions

accelerated osteoporosis

Osteolytic lesions - NMR (selection)

■ more than 2

ND

negative

Osteolytic lesions X-ray (selection)

> Substage (selection) computed

- accelerated osteoporosis
- can not evaluate
- Osteolytic lesions CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET/CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions MIBI (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Extramedullary mass (yes/no)

- Extramedullary mass relation (selection)
 - extramedullary mass NOT related to bone
 - bone related extramedullary tumor mass
 - both tips
- Extramedullary mass histology (selection)
 - NA
 - negative
 - positive
- Extramedullary masses count (selection)
 - **1**
 - **2**
 - **3**
 - more than 3
- Max size (cm) x (real number scale: 0) abs.min:0
- Max size (cm) y (real number scale: 0) abs.min:0
- Mass area (cm2) (real number scale: 0) abs.min:0 computed
- Bone marrow aspiration cytology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count M (%) (real number scale: 0) abs.min:0 abs.max:100
- Bone marrow histology (selection)
 - NOT DONE
 - negative
 - positive
- ➤ Plasmocyte count M (%) (real number scale: 0) abs.min:0 abs.max:100

Cytogenetics (FISH) before treatment

- Cytogenetics (yes/no)
- Sample date (date) abs.min:"1.1.1900"

Treatment

- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin

- Imnovid
- Carfilzomib
- Ixazomib
- Combined with (selection)
 - No
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- Health insurance company (selection)
 - 111 Všeobecná zdravotní pojišťovna
 - 201 Vojenská zdravotní pojišťovna
 - 205 Česká průmyslová zdravotní pojišťovna
 - 207 Oborová pojišťovna zaměstnanců bank, pojišťoven a stavebnictví
 - 209 Zaměstnanecká pojišťovna Škoda
 - 211 Zdravotní pojišťovna Ministerstva vnitra ČR
 - 213 Revírní bratrská pokladna
 - 217 Zdravotní pojišťovna METAL-ALIANCE do 1.10.2012
 - 222 Česká národní zdravotní pojišťovna do 1.10.2009
 - 227 AGEL do 1.7.2009
 - 228 MÉDIA do 28.3.2011
 - 999 Není pojištěncem české ZP
- Clinical study (yes/no)
- Length of cycle (number) abs.min:0
- Dosage of the first administration (mg) (real number scale: 2) abs.min:0
- Dosage of the first administration (mg/m2) (real number scale: 2) abs.min:0
- Route of administration (selection)
 - Only subcutaneous
 - Only intravenous
 - Subcutaneous and change to intravenous
 - Intravenous and change to subcutaneous
- Number of administrations per cycle (number) abs.min:0

- Number of cycles (real number scale: 2) abs.min:0
- Total number of administrations (number) abs.min:0
- Total cumulative dose (mg) (real number scale: 2) abs.min:0

Second drug for drug combination (for switch data see section below)

- Dosage of the first administration (mg) second drug (real number scale: 2) abs. min:0
- > Dosage of the first administration (mg/m2) second drug (real number scale: 2) abs. min:0
- Route of administration second drug (selection)
 - Only subcutaneous
 - Only intravenous
 - Subcutaneous and change to intravenous
 - Intravenous and change to subcutaneous
- Number of administrations per cycle second drug (number) abs. min:0
- Total number of administrations second drug (number) abs. min:0
- Total cumulative dose (mg) second drug (real number scale: 2) abs. min:0
- Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)
 - According treatment protocol
 - Insufficient response
 - Progression
 - Toxicity
 - Exitus
 - Other
- Specify other reason (string)
- MR after cycle (number) abs. min:0
- Date of MR (date) abs. min: "1.1.1900"
- PR after cycle (number) abs. min:0
- Date of PR (date) abs. min:"1.1.1900"
- ➤ VGPR after cycle (number) abs. min:0
- Date of VGPR (date) abs. min:"1.1.1900"
- CR after cycle (number) abs. min:0
- > Date of CR (date) abs. min:"1.1.1900"
- Response before transplant (selection)
 - PG

- SD
- PR
- VGPR
- CR
- sCR
- MR
- NA
- Dose reduction (yes/no)
- Interruption of treatment (yes/no)

Dose reduction

- Reduction number (selection)
 - 1st
 - 2nd
 - 3rd
 - 4th
 - 5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia

- Anemia
 other
 Specify other (string)
 Grade (selection)
 0
 1
 2
 3
 4
 5
- 2nd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **-** 5
- > 3rd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation

- Fatigue
- Thrombosis/thrombus/Embolism
- Infection
- Thrombocytopenia
- Neutropenia
- Anemia
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **-** 5
- New dosage (mg) (real number scale: 2) abs. min:0
- New dosage (mg/m2) (real number scale: 2) abs. min:0

Interruption of treatment

- Interruption number (selection)
 - 1st
 - 2nd
 - 3rd
 - 4th
 - 5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
 - All
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia

- Diarrhoea
- Constipation
- Fatigue
- Thrombosis/thrombus/Embolism
- Infection
- Thrombocytopenia
- Neutropenia
- Anemia
- other
- Specify other (string)
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **5**
- > 2nd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - 0
 - **1**
 - **2**
 - **3**
 - **4**

		•	5
	> 3rd reason (selection)		
		•	Neuropathy
		•	Nausea, vomiting
		•	Anorexia
		•	Diarrhoea
		•	Constipation
		•	Fatigue
		•	Thrombosis/thrombus/Embolism
		•	Infection
		•	Thrombocytopenia
		•	Neutropenia
		•	Anemia
	Grade (selection)		
		•	0
		•	1
		•	2
		•	3
		•	4
		•	5
*	To	<u>kicit</u>	Y
*	To	<u>kicit</u>	y before treatment
		Grade of thrombocytopenia before treatment (selection)	
		•	0
		•	1
		•	2
		•	3
		•	4
		Grade of neuropathy before treatment (selection)	
		•	0
		•	1
		•	2
		•	3
		•	4
*	To	Toxicity during treatment	

>	Neuropathy - grade (selection)
	• 0
	• 1
	2
	• 3
	- 4
	5
	■ ND
>	Nausea, vomiting - grade (selection)
	• 0
	1
	■ 2
	■ 3
	■ 4
	■ 5
	■ ND
>	Anorexia - grade (selection)
	• 0
	• 1
	2
	• 3
	- 4
	• 5
	■ ND
>	Diarrhoea - grade (selection)
	• 0
	• 1
	2
	• 3
	- 4
	• 5
	■ ND
>	Constipation - grade (selection)
	• 0
	• 1

	. 2
	-
	3
	45
	• 5
_	■ ND
	Fatigue - grade (selection)
	• 0
	• 1
	• 2
	• 3
	• 4 -
	• 5
_	■ ND
	, , , , , , , , , , , , , , , , , , , ,
	• 0
	• 1
	• 2
	• 3
	4
	• 5
	■ ND
	Infection - grade (selection)
	• 0
	• 1
	2
	• 3
	- 4
	• 5
	• ND
	Thrombocytopenia - grade (selection)
	• 0
	• 1
	• 2
	• 3
	4

	-	5
	•	ND
Neutropenia - grade (selection)		eutropenia - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
Anemia - grade (selection)		emia - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
	Other - text (string)	
	Ot	her - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	Other 2 - text (string)	
	Ot	her 2 - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
_	•	5
	SW	vitch of treatment due to toxicity (yes/no)

Anticoagulant treatment

- Anticoagulant treatment (yes/no)
- > Type of anticoagulant treatment (selection)
 - aspirin
 - warfarin
 - LMWH
 - other
- Specify anticoagulant treatment (string)

Hemopoetic growth factor

- Hemopoetic growth factor (yes/no)
- Dosage 30 IU / 0,5ml number of doses (number) default abs. min:0
- Dosage 48 IU/0,5 ml number of doses (number) default abs. min:0

Switch of therapy

Consolidation treatment

- Consolidation treatment (! except PBSCT) (yes/no)
- Specify consolidation treatment (selection)
 - bortezomid based
 - thalidomid based
 - lenalidomid based
 - other
- Specify other treatment (string)
- Date of treatment beginning (date) abs. min: "1.1.1900"
- > Date of treatment withdrawal (date) abs. min:"1.1.1900"
- Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)
 - According treatment protocol
 - Insufficient response
 - Progression
 - Toxicity
 - Exitus
 - Other
- Number of cycles (real number scale: 2) abs. min:0
- Maximal response (selection)
 - PG

- SD
- PR
- VGPR
- CR
- sCR
- MR

Consolidation treatment - adverse events

- > Toxicity (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
 - other
- Specify other (string)
- Grade (selection)
 - 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **5**

Maintenance therapy

- Maintenance therapy (yes/no)
- Specify maintenance therapy (selection)
 - intereferon
 - prednison
 - bortezomid 1 x week
 - chemotherapy

- lenalidomide 10
- thalidomid 50
- thalidomid 100
- lenalidomide/prednison
- other
- Specify other treatment (string)
- > Treatment beginning date (date) abs. min: "1.1.1900"
- > Date of treatment withdrawal (date) abs. min:"1.1.1900"
- Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)
 - According treatment protocol
 - Insufficient response
 - Progression
 - Toxicity
 - Exitus
 - Other
- Maximal response (selection)
 - PG
 - SD
 - PR
 - VGPR
 - CR
 - sCR
 - MR

Maintenance therapy - adverse events

- Toxicity (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection

- Thrombocytopenia
- Neutropenia
- Anemia
- other
- Specify other (string)
- Grade (selection)
 - 0
 - **1**
 - **2**
 - **3**
 - **a** 1
 - **5**

Comments

Comments (long string)

Following treatment - extension

Line of therapy

- Line of therapy (selection)
 - 2nd line
 - 3rd line
 - 4th line
 - 5th line
 - 6th line
 - 7th line
 - 8th line
 - 9th line
 - 10th line
 - 11th line
 - 12th line
 - 13th line
 - 14th line
 - 15th line

Reason for the start of the therapy

- Calcium level increased: > 0.25 mmol/l above the upper limit of normal or > 2.75 mmol/l (yes/no)
- Renal insufficiency: creatinine > 173 mmol/l (yes/no)

- ➤ Anaemia: haemoglobin > 20 g/l below the lower limit of normal or < 100 g/l (yes/no)
- ➤ Bone lesions: lytic lesions or osteoporosis with compression fractures (yes/no)
- Other (yes/no)
- Other specification (string)
- ❖ Biochemistry before treatment
 - ➤ Hemoglobin level (g/l) (real number scale: 0) abs. min:0
 - Thrombocyte count (10E9/I) (real number scale: 1) abs. min:0
 - Calcium total level (mmol/l) (real number scale: 0) abs. min:0
 - Albumin level (g/l) (real number scale: 0) abs. min:0
 - > Creatinine level (umol/l) (real number scale: 0) abs. min:0
 - > Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
 - LDH (ukat/l) (real number scale: 0) abs. min:0
 - > CRP (mg/l) (real number scale: 0) abs. min:0

Before treatment

- Status Performance (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
- Karnofsky status (selection)
 - NA
 - **1**0
 - **2**0
 - **3**0
 - **4**0
 - **•** 50
 - **•** 60
 - **•** 70
 - **80**
 - **9**0
 - **100**
- Durie-Salmon stage (selection)

 - ||

- **-** |||
- Substage (selection) computed
 - A
 - B
- > ISS classification (selection) computed
 - Stage 1
 - Stage 2
 - Stage 3
- Change of M-protein type? (yes/no)
- M-protein type (selection)
 - IgG
 - IgA
 - IgD
 - lgE
 - IgM
 - Biclonal
 - Triclonal
 - Nonsecretory
 - LC only
- Light chain type (selection)
 - kappa
 - lambda
 - biclonal
- Osteolytic lesions X-ray (selection)
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions NMR (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions

- more than 2 lesions
- accelerated osteoporosis
- can not evaluate
- Osteolytic lesions CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET/CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions MIBI (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate

- Extramedullary mass (yes/no)
- Extramedullary mass relation (selection)
 - extramedullary mass NOT related to bone
 - bone related extramedullary tumor mass
 - both tips
- Extramedullary mass histology (selection)
 - NA
 - negative
 - positive
- Extramedullary masses count (selection)
 - **1**
 - **2**
 - **3**
 - more than 3
- Max size (cm) x (real number scale: 0) abs. min:0
- Max size (cm) y (real number scale: 0) abs. min:0
- Mass area (cm2) (real number scale: 0) abs. min:0 computed
- Serum M-protein entry level (g/I) (real number scale: 0) abs. min:0
- Urine M-protein entry level (mg/24h) (real number scale: 0) abs. min:0
- Bone marrow aspiration cytology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100
- Bone marrow histology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100

Cytogenetics before treatment

- Cytogenetics (yes/no)
- Sample date (date) abs. min: "1.1.1900"

Treatment

- Drug (selection)
 - Thalidomid

- Velcade
- Revlimid
- Bendamustin
- Imnovid
- Carfilzomib
- Ixazomib
- Combined with (selection)
 - No
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- Health insurance company (selection)
 - 111 Všeobecná zdravotní pojišťovna
 - 201 Vojenská zdravotní pojišťovna
 - 205 Česká průmyslová zdravotní pojišťovna
 - 207 Oborová pojišťovna zaměstnanců bank, pojišťoven a stavebnictví
 - 209 Zaměstnanecká pojišťovna Škoda
 - 211 Zdravotní pojišťovna Ministerstva vnitra ČR
 - 213 Revírní bratrská pokladna
 - 217 Zdravotní pojišťovna METAL-ALIANCE do 1.10.2012
 - 222 Česká národní zdravotní pojišťovna do 1.10.2009
 - 227 AGEL do 1.7.2009
 - 228 MÉDIA do 28.3.2011
 - 999 Není pojištěncem české ZP
- Clinical study (yes/no)
- Date of transplant (date)
- Special transplantation technique (selection)
 - Tandem autotransplantation
 - Full Allogenic transplantation
 - Mini Allogenic transplantation
 - No

- > Date of subsequent transplant (date) abs. min:"1.1.1900"
- Length of cycle (number) abs. min:0
- Dosage of the first administration (mg) (real number scale: 2) abs. min:0
- Dosage of the first administration (mg/m2) (real number scale: 2) abs. min:0
- Route of administration (selection)
 - Only subcutaneous
 - Only intravenous
 - Subcutaneous and change to intravenous
 - Intravenous and change to subcutaneous
- Number of administrations per cycle (number) abs. min:0
- Number of cycles (real number scale: 2) abs. min:0
- Total number of administrations (number) abs. min:0
- Total cumulative dose (mg) (real number scale: 2) abs. min:0

Second drug - for combinated treatment only

- Dosage of the first administration (mg) second drug (real number scale: 2) abs. min:0
- > Dosage of the first administration (mg/m2) second drug (real number scale: 2) abs. min:0
- Route of administration (selection)
 - Only subcutaneous
 - Only intravenous
 - Subcutaneous and change to intravenous
 - Intravenous and change to subcutaneous
- Number of administrations per cycle second drug (number)
- Total number of administrations second drug (number) abs. min:0
- Total cumulative dose (mg) second drug (real number scale: 2) abs. min:0
- Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)
 - According treatment protocol
 - Insufficient response
 - Progression
 - Toxicity
 - Exitus
 - Other
- Specify other reason (string)

- > Serum M-protein level after treatment (g/l) (real number scale: 0) abs. min:0
- Urine M-protein level after treatment (mg/24h) (real number scale: 0) abs. min:0
- Serum M-protein ratio after treatment/entry (%) (real number scale: 1) abs. min:0 computed
- Urine M-protein ratio after treatment/entry (%) (real number scale: 1) abs. min:0 computed
- Immunofixation after treatment serum (selection)
 - NA
 - negative
 - positive
- Immunofixation after treatment urine (selection)
 - NA
 - negative
 - positive
- MR after cycle (number) abs. min:0
- > Date of MR (date) abs. min:"1.1.1900"
- PR after cycle (number) abs. min:0
- > Date of PR (date) abs. min:"1.1.1900"
- VGPR after cycle (number) abs. min:0
- Date of VGPR (date) abs. min:"1.1.1900"
- CR after cycle (number) abs. min:0
- > Date of CR (date) abs. min:"1.1.1900"
- Response before transplant (selection)
 - PG
 - SD
 - PR
 - VGPR
 - CR
 - sCR
 - MR
 - NA
- Dose reduction (yes/no)
- Interruption of treatment (yes/no)

Dose reduction

- Reduction number (selection)
 - 1st

- 2nd3rd4th5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
 - other
- Specify other (string)
- Grade (selection)
 - **•** 0
 - 1
 - **2**
 - **-** 3
 - **4**
 - **5**
- > 2nd reason (selection)
 - Neuropathy

- Nausea, vomitingAnorexiaDiarrhoeaConstipation
- Fatigue
- Thrombosis/thrombus/Embolism
- Infection
- Thrombocytopenia
- Neutropenia
- Anemia
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **5**
- > 3rd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**

- **5**
- New dosage (mg) (real number scale: 2) abs. min:0
- New dosage (mg/m2) (real number scale: 2) abs. min:0

Interruption of treatment

- Interruption number (selection)
 - 1st
 - 2nd
 - 3rd
 - 4th
 - 5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
 - All
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
 - other
- Specify other (string)
- Grade (selection)
 - **o**

- 1234
- **5**
- 2nd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **5**
- > 3rd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia

		-	Anemia		
		Grade (selection)			
		•	0		
			1		
			2		
			3		
		•	4		
.•.	т		5		
*	<u>Toxicity</u>				
*	 Grade of thrombocytopenia before treatment (selection) 				
		•	0		
		•	1		
		•	2		
		•	3		
		•	4		
		Gr	ade of neuropathy before treatment (selection)		
		•	0		
		•	1		
		•	2		
		•	3		
		•	4		
*	Toxicity during treatment				
		Ne	europathy - grade (selection)		
		•	0		
		•	1		
		•	2		
		•	3		
		•	4		
		•	5		
		•	ND		
	>	Na	usea, vomiting - grade (selection)		
		•	0		
		•	1		
		•	2		

	_	2
	•	3
	•	4
	•	5
	•	ND
	Ar	norexia - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
>	Di	arrhoea - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
>	Co	onstipation - grade (selection)
		0
		1
		2
		3
		4
		5
		ND
>	Fa	tigue - grade (selection)
	•	0
		1
		2
		3
	-	4
	-	5
	_	J

	■ ND
>	Thrombosis/thrombus/Embolism - grade
	• 0
	• 1
	2
	• 3
	4
	5
	■ ND
>	Infection - grade (selection)
	• 0
	• 1
	• 2
	• 3
	4
	• 5
	■ ND
>	Thrombocytopenia - grade (selection)
	• 0
	• 1
	• 2
	• 3
	• 4
	5
	■ ND
>	Neutropenia - grade (selection)
	• 0
	• 1
	2
	• 3
	• 4
	■ 5
_	■ ND
	,
	• 0

(selection)

- **1**
- **2**
- **-** 3
- **4**
- **-** 5
- ND
- Other text (string)
- Other grade (selection)
 - **•** 0
 - **1**
 - 2
 - **3**
 - **-** 4
 - **5**
- Other 2 text (string)
- Other 2 grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **•** 5
- Switch of treatment due to toxicity (yes/no)

Anticoagulant treatment

- Anticoagulant treatment (yes/no)
- > Type of anticoagulant treatment (selection)
 - aspirin
 - warfarin
 - LMWH
 - other
- Specify anticoagulant treatment (string)

Hemopoetic growth factor

- Hemopoetic growth factor (yes/no)
- Dosage 30 IU / 0,5ml number of doses (number) default abs. min:0
- Dosage 48 IU/0,5 ml number of doses (number) default abs. min:0

- Switch of therapy
- Consolidation treatment
 - Consolidation treatment (! except PBSCT) (yes/no)
 - Specify consolidation treatment (selection)
 - bortezomid based
 - thalidomid based
 - lenalidomid based
 - other
 - Specify other treatment (string)
 - > Date of treatment beginning (date) abs. min:"1.1.1900"
 - > Date of treatment withdrawal (date) abs. min:"1.1.1900"
 - Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)
 - According treatment protocol
 - Insufficient response
 - Progression
 - Toxicity
 - Exitus
 - Other
 - Number of cycles (real number scale: 2) abs. min:0
 - Maximal response (selection)
 - PG
 - SD
 - PR
 - VGPR
 - CR
 - sCR
 - MR
- Consolidation treatment adverse events
 - Toxicity (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea

- Constipation
- Fatigue
- Thrombosis/thrombus/Embolism
- Infection
- Thrombocytopenia
- Neutropenia
- Anemia
- other
- Specify other (string)
- Grade (selection)
 - 0
 - **1**
 - **2**
 - **3**
 - **-** 4
 - **5**

Maintenance therapy

- Maintenance therapy (yes/no)
- Specify maintenance therapy (selection)
 - intereferon
 - prednison
 - bortezomid 1 x week
 - chemotherapy
 - lenalidomide 10
 - thalidomid 50
 - thalidomid 100
 - lenalidomide/prednison
 - other
- Specify other treatment (string)
- > Treatment beginning date (date) abs. min: "1.1.1900"
- Date of treatment withdrawal (date) abs. min:"1.1.1900"
- Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)
 - According treatment protocol

- Insufficient responseProgressionToxicityExitus
- LXITUS
- Other
- Maximal response (selection)
 - PG
 - SD
 - PR
 - VGPR
 - CR
 - sCR
 - MR

Maintenance therapy - adverse events

- Toxicity (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
 - other
- Specify other (string)
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **-** 4
 - **5**

Comments

Comments (long string)

MGUS

Diagnostics

- > Date of diagnosis (date) default
- Status Performance (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
- M-protein type (selection)
 - IgG
 - IgA
 - IgD
 - IgE
 - IgM
 - Biclonal
 - Triclonal
 - Nonsecretory
 - LC only
- Serum M-protein quantity (g/l) (real number scale: 1)
- > FLC quantity measured (yes/no) default
- Date of FLC measurement (date)
- Serum kappa FLC quantity (mg/l) (real number scale: 0)
- Serum lambda FLC quantity (mg/l) (real number scale: 0)
- ➤ Kappa/lambda ratio (real number scale: 0) computed
- Urine M-protein quantity (mg/24h) (real number scale: 1)
- Light chain type (selection)
 - kappa
 - lambda
 - biclonal
- ➤ Bone marrow aspiration cytology was done (yes/no)
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100

- Bone marrow histology was done (yes/no)
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100
- Flow cytometry (yes/no)
- Plasmocyte count FC (%) (real number scale: 1) abs. min:0 abs. max:100
- CD19 poz B cell (%) (real number scale: 1) abs. min:0 abs. max:100
- Normal PC CD19 poz (%) (real number scale: 1) abs. min:0 abs. max:100
- Abnormal PC CD56 poz (%) (real number scale: 1) abs. min:0 abs. max:100
- Abnormal PC CD19 neg (real number scale: 2) computed read-only
- Clonal PC (%) (number) abs. min:0 abs. max:100
- Polyclonal PC (%) (number) computed read-only
- Osteolytic lesions X-ray (selection)
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions NMR (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET (selection)
 - ND

- negative
- 1 osteolytic lesion
- 2 osteolytic lesions
- more than 2 lesions
- accelerated osteoporosis
- can not evaluate
- Osteolytic lesions PET/CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions MIBI (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate

Biochemistry

- ➤ Hemoglobin level (g/l) (real number scale: 0) abs. min:0
- Thrombocyte count (10E9/I) (real number scale: 1) abs. min:0
- Calcium total level (mmol/l) (real number scale: 0) abs. min:0
- Albumin level (g/l) (real number scale: 0) abs. min:0
- Creatinine level (umol/l) (real number scale: 0) abs. min:0
- Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
- LDH (ukat/l) (real number scale: 0) abs. min:0
- CRP (mg/l) (real number scale: 0) abs. min:0
- Sample date (Polyclonal Ig) (date)
- Polyclonal IgG quantity (g/l) (real number scale: 0)
- Polyclonal IgA quantity (g/l) (real number scale: 0)
- Polyclonal IgM quantity (g/l) (real number scale: 0)

- Polyclonal IgE quantity (IU/ml) (real number scale: 0)
- Date of sample collection (HLC) (date)
- ➤ Ig kappa HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ Ig lambda HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ HLC ratio (real number scale: 2) abs. min:0 computed read-only
- Cytogenetics (yes/no)
- Date of sample collection (dd.mm.yyyy) (date)
- > IGH disruption (selection)
 - positive
 - negative
 - NA
- > t(11;14) (selection)
 - positive
 - negative
 - NA
- > t(11;14) (%) (real number scale: 1)
- > t(4;14) (selection)
 - positive
 - negative
 - NA
- > t(4;14) (%) (real number scale: 1)
- \succ t(6;14) (selection)
 - positive
 - negative
 - NA
- > t(6;14) (%) (real number scale: 1)
- > t(14;16) (selection)
 - positive
 - negative
 - NA
- > t(14;16) (%) (real number scale: 1)
- del(13)(q14)/monosomy 13 (selection)
 - positive
 - negative
 - NA

- del(13)(q14)/monosomy 13 (%) (real number scale: 1)
- gain 1q21 (selection)
 - positive
 - negative
 - NA
- gain 1q21 (%) (real number scale: 1)
- del(17)(p13) (selection)
 - positive
 - negative
 - NA
- del(17)(p13) (%) (real number scale: 1)
- Hyperdiploidy (yes/no)

♦ Molecular-biology

- Molecular-biology examination (yes/no)
- MYD88 examination (yes/no)
- Mutation in MYD88 gene (selection)
 - negative
 - L265P
- CXCR4 examination (yes/no)
- Mutation in CXCR4 gene (selection)
 - negative
 - nonsense
 - frameshift
- Specify mutation type in CXCR4 gene (string)

Follow-up

- Date of evaluation (date)
- Serum M-protein quantity (real number scale: 0)
- Associated disease (selection)
 - none
 - lymphoproliferative disorder
 - other hematological disease
 - connective tissue disorder
 - neurological disease
 - dermatological disease
 - endocrine disorder

- liver disease
- immunosupression
- other
- Further specification (string)

❖ MGUS development

- Progression MGUS to (selection)
 - no progression
 - MM
 - WM
 - lymphoma
 - AL amyloidosis
 - CLL
 - plasmacytoma
 - other
- Further specification (string)
- Date of MGUS progression (date)

❖ <u>Death</u>

- Patient (selection)
 - unknown
 - alive
 - dead
- Date of death (date)
- Cause of death (selection)
 - related to diagnosis
 - other
 - related to Bisphosphonate treatment
- ➤ Note (long string)

Bisphosphonate and SRE treatment

❖ Skeleton X-ray

- Date of examination (date)
- Skull (selection)
 - no lesion
 - 1 osteolytic lesion
 - 2 osteolytic lesions

- 3 and more lesions
- diffuse osteoporosis
- Cervical spine (selection)
 - no lesion
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - 3 and more lesions
 - diffuse osteoporosis
- ➤ Thoracic spine (selection)
 - no lesion
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - 3 and more lesions
 - diffuse osteoporosis
- Lumbar spine (selection)
 - no lesion
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - 3 and more lesions
 - diffuse osteoporosis
- Humerus (selection)
 - no lesion
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - 3 and more lesions
 - diffuse osteoporosis
- > Femur (selection)
 - no lesion
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - 3 and more lesions
 - diffuse osteoporosis
- Other localization (string)
- Result (selection)
 - no lesion

- 1 osteolytic lesion
- 2 osteolytic lesions
- 3 and more lesions
- diffuse osteoporosis

Bisphosphonate treatment

- Date of beginning (date)
- Drug (selection)
 - clodronate oral
 - clodronate intravenous
 - pamidronate intravenous
 - zolendronate intravenous
 - ibandronate intravenous
 - ibandronate oral
- Dose (real number scale: 0)
- Units (selection)
 - ug
 - mg
 - g
 - ul
 - ml
 - •
- Dosing (selection)
 - Every day
 - Every month
- Date of discontinuation (date)
- Reason for discontinuation (selection)
 - Toxicity
 - SRE
 - Other
- Specify other reason (string)
- > Type of toxicity (selection)
 - Gastrointestinal
 - Renal
 - Osteonecrosis
 - Other

- Specify other toxicity (string)
- Is the event serious? (SAE) (yes/no)

❖ SRE

- > SRE date (date)
- SRE type (selection)
 - New pathological fracture
 - Documented bone involment progression
 - Malignant hypercalcemia
 - Necessary surgical treatment of bone disease
 - Necessary radiotherapy of bone disease
- Progression extension (string)
- Progression confirmed (selection)
 - X-ray
 - MIBI scintigraphy
 - MRI
 - PET scan

WM - asymptomatic

Diagnostics

- Followed up as MGUS (yes/no)
- > Date of diagnosis asymptomatic Waldenstrőm's macroglobulinemia (date)
- Status Performance (selection)
 - 0
 - **1**
 - **2**
 - **3**
 - 1
- M-protein type (selection)
 - IgM Kappa
 - IgM Lambda
- > Serum monoclonal IgM protein quantity (g/l) (real number scale: 1)
- Serum FLC quantity measured (yes/no)
- Serum free lambda quantity (mg/l) (real number scale: 0)
- Serum free kappa quantity (mg/l) (real number scale: 0)
- Kappa/lambda ratio (real number scale: 0) computed

- Urine M-protein quantity (mg/24h) (real number scale: 1)
- ❖ Polyclonal immunoglobuline quantitative estimation
 - IgM quantity (g/l) (real number scale: 0)
 - IgA quantity (g/l) (real number scale: 0)
 - IgG quantity (g/l) (real number scale: 0)
 - Date of sample collection (HLC) (date)
 - ➤ Ig kappa HLC pair (g/l) (real number scale: 2) abs. min:0
 - Ig lambda HLC pair (g/l) (real number scale: 2) abs. min:0
 - HLC ratio (real number scale: 2) abs. min:0 computed read-only
 - Bone marrow histology (selection)
 - NOT DONE
 - negative
 - positive
 - Plasmocytic, lymphoplasmocytic and lymphocytic cells in bone marrow (%) (real number scale: 0)
 - Bone marrow aspiration cytology (selection)
 - NOT DONE
 - negative
 - positive
 - Plasmocytic, lymphoplasmocytic and lymphocytic cells in bone marrow smears (%) (real number - scale: 0)
 - Flow cytometry (yes/no)
 - CD19 poz B cell (%) (real number scale: 1) abs. min:0 abs. max:100
 - Clonal B cell (%) (real number scale: 1) abs. min:0 abs. max:100
 - Lymphoplasmocytic cells (%) (real number scale: 1) abs. min:0 abs. max:100
 - Clonal lymphoplasmocytic cells (%) (real number scale: 1) abs. min:0 abs. max:100
 - Plasmocyte count FC (%) (real number scale: 1) abs. min:0 abs. max:100
 - Clonal PC (%) (number) abs. min:0 abs. max:100
 - Bone X ray osteolytic lesions (X ray) (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate

❖ MR examination

- MR examination of bones (selection)
 - ND
 - Negative
 - Positive

CT examination

- Mediastinal and abdominal CT examination (yes/no)
- Lymphadenopathy cervical (yes/no)
- Lymphadenopathy thoracic (yes/no)
- Lymphadenopathy axillar (yes/no)
- Lymphadenopathy abdominal (yes/no)
- Lymphadenopathy inguinal (yes/no)
- Splenomegaly (yes/no)
- Hepatomegaly (yes/no)
- Extralymphatic and extraosseal tissue infiltration or pathologic mass (yes/no)

Sonographic examination

- Sonographic examination (yes/no)
- Lymphadenopathy inguinal (yes/no)
- Lymphadenopathy abdominal (yes/no)
- Lymphadenopathy axillar (yes/no)
- Lymphadenopathy cervical (neck) (yes/no)
- Splenomegaly (yes/no)
- Hepatomegaly (yes/no)

❖ FDG-PET

- FDG-PET (CT) activity (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
- ➤ Abdominal nodal or extranodal activity (yes/no)
- Thoracic nodal or extranodal activity (yes/no)
- Extraabdominal and extrathoracic activity (yes/no)

Laboratory analysis

- ➤ Hemoglobin level (g/l) (real number scale: 0) abs.min:0
- Thrombocyte count (10E9/I) (real number scale: 1) abs.min:0
- Leukocyte count (10E9/l) (real number scale: 0)
- Neutrofil count (10E9/I) (real number scale: 0)
- Calcium total level (mmol/l) (real number scale: 0) abs.min:0
- Albumin level (g/l) (real number scale: 0) abs.min:0
- Total protein (g/l) (real number scale: 0)
- Creatinine level (umol/l) (real number scale: 0) abs.min:0
- Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
- LDH (ukat/l) (real number scale: 0) abs.min:0
- Upper normal value of LDH (ukat/l) (real number scale: 0)
- LDH/upper normal value of LDH (real number scale: 2) computed
- > CRP (mg/l) (real number scale: 0) abs.min:0
- Cholesterol (mmol/l) (real number scale: 2)

Cytogenetic

Cytogenetic

- Cytogenetic examination (yes/no)
- Del 6q (yes/no)
- > Del 6q (%) (real number scale: 0)
- Translocation on chromosome 14, locus IgH (yes/no)

Molecular-biology

- Molecular-biology examination (yes/no)
- MYD88 examination (yes/no)
- Mutation in MYD88 gene (selection)
 - negative
 - L265P
- CXCR4 examination (yes/no)
- Mutation in CXCR4 gene (selection)
 - negative
 - nonsense
 - frameshift
- Specify mutation type in CXCR4 gene (string)

WM development

- Progression asymptomatic WM (selection)
 - no progression

- symptomatic WM
- Date of progression (date)

Death

- Patient (selection)
 - unknown
 - alive
 - dead
- Date of death (date)
- Cause of death (selection)
 - related to diagnosis
 - other
 - related to Bisphosphonate treatment
- Note (long string)

WM - symptomatic

❖ WM - symptomatic

- > Date of diagnosis symptomatic Waldenstrőm's macroglobulinemia (date)
- Previous history of asymptomatic WM (yes/no)
- Previous history of asymptomatic WM from year (number) abs. min:1900
- Previous history of IgM gammopathy (yes/no)
- Previous history of IgM gammopathy from year (number) abs. min:1900
- Status Performance (selection)
 - **o**
 - **1**
 - **2**
 - **3**
 - **-** 4

Clinical symptoms

- Clinical symptoms of hyperviskosity (selection)
 - unknown
 - no
 - yes
- Clinical symptoms of cryoglobulinaemia (selection)
 - unknown
 - no

■ no
■ yes
Symptoms of cold aglutinins (selection)
unknown
■ no
■ yes
Clinical symptoms of AK-amyloidosis (selection)
unknown
■ no
■ yes
Clinical symptoms of nephropathy (selection)
unknown
■ no
■ yes
B symptoms (selection)
unknown
■ no
yes
Night sweats (selection)
unknown
■ no
yes
Subfebrile and febrile of unknown origin (selection)
unknown
■ no
yes
Weight loss moe then 10% in 6 month (selection)
unknown
■ no
yes
Hepato-splenomegaly (selection)
unknown

yes

unknown

> Clinical symptoms of neuropathy (selection)

- no
- yes
- Organomegaly (selection)
 - unknown
 - no
 - yes
- Malignant osteolysis (selection)
 - unknown
 - no
 - yes
- Other (selection)
 - unknown
 - no
 - yes
- Other specification (string)

❖ Bone marrow examination

- Bone marrow histology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocytic, lymphoplasmocytic and lymphocytic cells in bone marrow (%) (real number scale: 0)
- Bone marrow aspiration cytology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocytic, lymphoplasmocytic and lymphocytic cells in bone marrow smears (%) (real number - scale: 0)
- Flow cytometry (yes/no)
- CD19 poz B cell (%) (real number scale: 1) abs. min:0 abs. max:100
- Clonal B cell (%) (real number scale: 1) abs. min:0 abs. max:100
- > Lymphoplasmocytic cells (%) (real number scale: 1) abs. min:0 abs. max:100
- Clonal lymphoplasmocytic cells (%) (real number scale: 1) abs. min:0 abs. max:100
- Plasmocyte count FC (%) (real number scale: 1) abs. min:0 abs. max:100
- Clonal PC (%) (number) abs. min:0 abs. max:100
- Imaging methods before therapy

- Bone X ray osteolytic lesions (X ray) (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate

Sonographic examination

- Sonographic examination (yes/no)
- Lymphadenopathy inguinal (yes/no)
- Lymphadenopathy abdominal (yes/no)
- Lymphadenopathy axillar (yes/no)
- Lymphadenopathy cervical (neck) (yes/no)
- Splenomegaly (yes/no)
- Hepatomegaly (yes/no)

❖ MR examination

- ➤ MR examination of bones (selection)
 - ND
 - Negative
 - Positive

CT examination

- Mediastinal and abdominal CT examination (yes/no)
- Lymphadenopathy cervical (yes/no)
- Lymphadenopathy thoracic (yes/no)
- Lymphadenopathy axillar (yes/no)
- Lymphadenopathy abdominal (yes/no)
- Lymphadenopathy inguinal (yes/no)
- Splenomegaly (yes/no)
- Hepatomegaly (yes/no)
- Extralymphatic and extraosseal tissue infiltration or pathologic mass (yes/no)

❖ FDG-PET (CT)

- > FDG-PET (CT) activity (selection)
 - ND
 - negative

- 1 osteolytic lesion
- 2 osteolytic lesions
- more than 2 lesions
- accelerated osteoporosis
- Abdominal nodal or extranodal activity (yes/no)
- Thoracic nodal or extranodal activity (yes/no)
- Extraabdominal and extrathoracic activity (yes/no)

Laboratory examination before therapy

- M-protein type (selection)
 - IgM Kappa
 - IgM Lambda
- Serum M-protein quantity (g/l) (real number scale: 1)
- Serum FLC quantity measured (yes/no)
- Serum free lambda quantity (mg/l) (real number scale: 0)
- Serum free kappa quantity (mg/l) (real number scale: 0)
- Kappa/lambda ratio (real number scale: 0) computed
- Urine M-protein quantity (mg/24h) (real number scale: 1)
- Urine M-protein quantity (mg/l) (real number scale: 2)

❖ Polyclonal immunoglobulin quantitative estimation

- IgM quantity (g/l) (real number scale: 0)
- IgA quantity (g/l) (real number scale: 0)
- IgG quantity (g/l) (real number scale: 0)
- Date of sample collection (HLC) (date)
- Ig kappa HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ Ig lambda HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ HLC ratio (real number scale: 2) abs. min:0 computed read-only

Laboratory analysis results before therapy

- ➤ Hemoglobin level (g/l) (real number scale: 0) abs. min:0
- Thrombocyte count (10E9/I) (real number scale: 1) abs. min:0
- Leukocyte count (10E9/I) (real number scale: 0)
- Neutrofil count (10E9/I) (real number scale: 0)
- Calcium total level (mmol/l) (real number scale: 0) abs. min:0
- Albumin level (g/l) (real number scale: 0) abs. min:0
- Total protein (g/l) (real number scale: 0)
- Creatinine level (umol/l) (real number scale: 0) abs. min:0

- Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
 LDH (ukat/l) (real number scale: 0) abs. min:0
 Upper normal value of LDH (ukat/l) (real number scale: 0)
 LDH/upper normal value of LDH (real number scale: 2) computed
- > CRP (mg/l) (real number scale: 0) abs. min:0
- Cholesterol (mmol/l) (real number scale: 2)
- Plasma viscosity (selection)
 - ND
 - no
 - yes
- Plasma viscosity (real number scale: 0)
- Kryoglobulinemia (selection)
 - ND
 - no
 - yes
- Cold aglutinins (selection)
 - ND
 - no
 - yes
- Antierytrocytic antibody (selection)
 - ND
 - no
 - yes
- Antitrombocytic antibody (selection)
 - ND
 - no
 - yes
- AL-amyloidosis histologic confirmation (selection)
 - ND
 - no
 - yes
- Cytogenetic
- Cytogenetic
 - Cytogenetic examination (yes/no)
 - Del 6q (yes/no)

- ➤ Del 6q (%) (real number scale: 0)
- Translocation on chromosome 14, locus IgH (yes/no)

♦ Molecular-biology

- Molecular-biology examination (yes/no)
- MYD88 examination (yes/no)
- Mutation in MYD88 gene (selection)
 - negative
 - L265P
- CXCR4 examination (yes/no)
- Mutation in CXCR4 gene (selection)
 - negative
 - nonsense
 - frameshift
- Specify mutation type in CXCR4 gene (string)

WM - treatment

Primary treatment

- > Treatment modality (selection)
 - Corticosteroids only
 - Alkylation cytostatics +- corticosteroids
 - CHOP
 - R-CHOP
 - Fludarabine only
 - Fludarabine with alkylation cytostatics
 - 2-chlordeoxyadenosine only
 - 2-chlordeoxyadenosine with alkylation cytostatics
 - Anti-CD20 antibody monotherapy
 - Anti-CD20 antibody with alkylations drug
 - Anti-CD20 antibody with fludarabine
 - Anti-CD20 antibody with fludarabin and alkylations drug
 - Anti-CD20 antibody with 2-chlordeoxyadenosine
 - Anti-CD20 antibody with 2-chlordeoxyadenosine and alkylations drug
 - Thalidomide and dexamethasone
 - Cyclophosphamide thalidomide and dexametasone
 - Bortezomib monotherapy

- Bortezomib in combination with anti-CD20 +- glukocorticoids
- Bortezomib in combination with doxorubicin +-glucokorticoids
- Bortezomib in combination with cyclophosphamide and dexamethasone (CVD)
- High dose therapy with autolologous transpantation
- High dose therapy with allogeneic transplantation
- Other
- Other therapy (string)
- Plasmapheresis (selection)
 - Yes
 - No
 - Unknown
- Number of plasmapheresis sessions (number)
- > Date of treatment beginning (date) abs. min: "1.1.1900"
- Number of therapy cycles (number) abs. min:0
- Last cycle date of this line of therapy (date)

Therapeutic response

- > Serum M-protein entry level (g/l) (real number scale: 0) abs. min:0
- Serum M-protein level after treatment (g/l) (real number scale: 0) abs. min:0
- Serum M-protein ratio after treatment/entry (%) (real number scale: 1) abs. min:0 computed
- The best therapeutic response (serum M protein g/l) (real number scale: 2)
- The date of the best therapeutic response (date)
- The date of the 50% decrease of paraprotein and fullfilling other criteria of PR (date)
- Immunofixation after treatment serum (selection)
 - NA
 - negative
 - positive
- Bone marrow evaluation at the best therapeutic response (selection)
 - ND
 - Normal
 - Pathological
- Number of lymfoplasmocytic cells (real number scale: 0)
- IgG after therapy (g/l) (real number scale: 2)
- IgA after therapy (g/l) (real number scale: 2)
- IgM after therapy (g/l) (real number scale: 2)

- CT examination of thorax and abdomen at the time of best laboratory response (yes/no)
- Lymphadenopathy (yes/no)
- Hepatomegaly (yes/no)
- Splenomegaly (yes/no)
- Sonographic examination at the time of the best laboratory response (yes/no)
- Lymphadenopathy inguinal (yes/no)
- Lymphadenopathy abdominal (yes/no)
- Lymphadenopathy axillar (yes/no)
- Lymphadenopathy cervical (neck) (yes/no)
- Hepatomegaly (yes/no)
- Splenomegaly (yes/no)
- Maximum response reached by the first line treatment (selection)
 - CR
 - PR
 - SD
 - PD

Primary treatment adverse events

- SAE (Serious Adverse Events) ((yes/no)
- Description (long string)
- SUSAR (Suspect Serious Adverse Events) (yes/no)
- Description (long string)

Relaps/progression

Date of relaps of the disease from CR or date of progression from PR,SD (date)

WM Following treatment

Line of treatment

Line of treatment (number) abs. min:0

Reason for the restart of the therapy

- Clinical symptoms of hyperviskosity (selection)
 - unknown
 - no
 - yes
- Clinical symptoms of cryoglobulinaemia (selection)
 - unknown
 - no

		•	yes
	>	Cli	nical symptoms of neuropathy (selection)
		•	unknown
		•	no
		•	yes
		Cli	nical symptoms of AK-amyloidosis (selection)
		•	unknown
		•	no
		•	yes
	>	B s	ymptoms (selection)
		•	unknown
		•	no
		•	yes
	>	Cyt	topenia - haemoglobin < 100 g/l (selection)
		•	unknown
		•	no
		•	yes
	>	Cyt	topenia - trombocyte < 100E9 /I (selection)
		•	unknown
		•	no
		•	yes
	>	Bu	lky lymphadenopathy (selection)
		•	unknown
		•	no
		•	yes
		Org	ganomegaly (selection)
		•	unknown
		•	no
		•	yes
		Otl	her (selection)
		•	unknown
		•	no
		•	yes
		Otl	her specification (string)
*	Tre	<u>Treatment</u>	

- Treatment modality (selection)
 - Corticosteroids only
 - Alkylation cytostatics +- corticosteroids
 - CHOP
 - R-CHOP
 - Fludarabine only
 - Fludarabine with alkylation cytostatics
 - 2-chlordeoxyadenosine only
 - 2-chlordeoxyadenosine with alkylation cytostatics
 - Anti-CD20 antibody monotherapy
 - Anti-CD20 antibody with alkylations drug
 - Anti-CD20 antibody with fludarabine
 - Anti-CD20 antibody with fludarabin and alkylations drug
 - Anti-CD20 antibody with 2-chlordeoxyadenosine
 - Anti-CD20 antibody with 2-chlordeoxyadenosine and alkylations drug
 - Thalidomide and dexamethasone
 - Cyclophosphamide thalidomide and dexametasone
 - Bortezomib monotherapy
 - Bortezomib in combination with anti-CD20 +- glukocorticoids
 - Bortezomib in combination with doxorubicin +-glucokorticoids
 - Bortezomib in combination with cyclophosphamide and dexamethasone (CVD)
 - High dose therapy with autolologous transpantation
 - High dose therapy with allogeneic transplantation
 - Other
- Other therapy (string)
- Plasmapheresis (selection)
 - Yes
 - No
 - Unknown
- Number of plasmapheresis sessions (number)
- Date of treatment beginning (date) abs. min:"1.1.1900"
- Number of therapy cycles (number) abs. min:0
- Last cycle date of this line of therapy (date)

Therapeutic response

Serum M-protein entry level (g/l) (real number - scale: 0) abs. min:0

- > Serum M-protein level after treatment (g/l) (real number scale: 0) abs. min:0
- Serum M-protein ratio after treatment/entry (%) (real number scale: 1) abs. min:0 computed
- The best therapeutic response (serum M protein g/l) (real number scale: 2)
- The date of the best therapeutic response (date)
- Immunofixation after treatment serum (selection)
 - NA
 - negative
 - positive
- Immunofixation at the best therapeutic response (selection)
 - NA
 - negative
 - positive

CT examination

- CT examination of thorax and abdomen at the time of best laboratory response (yes/no)
- Lymphadenopathy (yes/no)
- Hepatomegaly (yes/no)

❖ Sonographic examination

- Sonographic examination at the time of the best laboratory response (yes/no)
- Lymphadenopathy inguinal (yes/no)
- Lymphadenopathy abdominal (yes/no)
- Lymphadenopathy axillar (yes/no)
- Lymphadenopathy cervical (neck) (yes/no)

***** -

- ➤ Bone marrow evaluation at the best therapeutic response (selection)
 - ND
 - Normal
 - Pathological
- Number of lymfoplasmocytic cells (real number scale: 0)
- Maximum response for treatment of relaps (selection)
 - CR
 - PR
 - SD
 - PD
- The date of the 50% decrease of paraprotein and fullfilling other criteria of PR (date)

> Date of relaps of the disease from CR or date of progression from PR,SD (date)

Adverse events

- SAE (Serious Adverse Events) (yes/no)
- Description (long string)
- SUSAR (Suspect Serious Adverse Events) (yes/no)
- Description (long string)

WM Follow up

Follow up

- Date of evaluation (date)
- Patient (selection)
 - unknown
 - alive
 - dead
- Patient status (selection)
 - unknown
 - treated
 - not treated
- Transformation of MW (yes/no)
- Date of transformation (date)
- Specify (string)
- Other malignant disease (yes/no)
- Specify disease (string)
- Date of death (date)
- Cause of death (selection)
 - Related to diagnosis MW
 - Related to tranformation of MW
 - Related to the other malignant disease
 - Not related to malignant disease

FISH

❖ Sample

- Date of sample collection (dd.mm.yyyy) (date)
- > Sample ID (string)
- Sample type (selection)

- DB
- SB
- F
- FS
- Therapy (selection)
 - Relapse before V
 - Relapse before T
 - Relapse before R
 - New Dg. before V
 - New Dg. before T
 - New Dg. before R
 - Relapse
 - New Dg.
 - After T
 - After V
 - After R
 - Before T
 - Before V
 - Before R
- Date of sample processing (dd.mm.yyyy) (date)
- Purity of the sample (Plasma cell infiltration) (%) (real number scale: 2) abs. min:0 abs. max:100
- Cellularity CD138+ Fraction: [x 10E6 Cells] (real number scale: 2)

❖ FISH

- > FISH evaluated (yes/no)
- Reason for not evaluating (selection)
 - Low purity
 - Low cellurarity
 - No plasma cells
 - Contamination
 - Insufficient amout of suspension
 - Insufficient amount of slides after FACS
 - Other
- Other reason (string)
- ❖ FISH test results
- Deletion 13q14 (RB1 gene)

- Number of evaluated cells (number) abs. min:0
- Positive examination finding (%) (real number scale: 2) abs. min:0 abs. max:100
- > FISH examination (selection)
 - Not assessable
 - Deletions 13q14
 - Monosomy 13
 - Other
- Other finding of examination (string)
- Code (selection)
 - P
 - N

❖ Deletion 17p13

- Number of evaluated cells (number) abs. min:0
- Positive examination finding (%) (real number scale: 2) abs. min:0 abs. max:100
- > FISH examination finding (selection)
 - Not assessable
 - Deletions 17p13
 - Monosomy 17
 - Other
- Other examination finding (string)
- Code (selection)
 - P
 - N

❖ Translocation t(4;14)

- Number of evaluated cells (number) abs. min:0
- Positive examination finding (%) (real number scale: 2) abs. min:0 abs. max:100
- > FISH examination finding (selection)
 - Not assessable
 - t(4;14)
 - Fusion
 - Other
- Other examination finding (string)
- Code (selection)
 - P
 - N

❖ Gain 1q21

- Number of evaluated cells (number) abs. min:0
- Positive examination finding (%) (real number scale: 2) abs. min:0 abs. max:100
- > FISH examination finding (selection)
 - Not assessable
 - Gain 1q21
 - Trisomy 1
 - Other
- Other examination finding (string)
- Most frequent examination finding (string)
- Code taking into account the 20% cut-off (selection)
 - P
 - N

Hyperdiploidy

- Number of evaluated cells (number) abs. min:0
- Positive examination finding (%) (real number scale: 2) abs. min:0 abs. max:100
- FISH examination finding (selection)
 - Not assessable
 - Hyperdiploidy
 - Nonhyperdiploidy
 - Other
- Other examination finding (string)
- Code (selection)
 - P
 - N

Report

- Report published (yes/no)
- Report issued on (dd.mm.yyyy) (date)

Primary treatment - switch

Biochemistry before treatment

- ➤ Hemoglobin level (g/l) (real number scale: 0) abs. min:0
- > Thrombocyte count (10E9/I) (real number scale: 1) abs. min:0
- Calcium total level (mmol/l) (real number scale: 0) abs. min:0
- Albumin level (g/l) (real number scale: 0) abs. min:0

- > Creatinine level (umol/l) (real number scale: 0) abs. min:0
- > Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
- LDH (ukat/I) (real number scale: 0) abs. min:0
- > CRP (mg/l) (real number scale: 0) abs. min:0

❖ Before treatment

- Status Performance (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
- Karnofsky status (selection)
 - NA
 - **1**0
 - **2**0
 - **3**0
 - **4**0
 - **5**0
 - **•** 60
 - **•** 70
 - **80**
 - **9**0
 - **100**
- Durie-Salmon stage (selection)
 - •
 - II
 - |||
- Substage (selection) computed
 - A
 - B
- > ISS classification (selection) computed
 - Stage 1
 - Stage 2
 - Stage 3
- Change of M-protein type? (yes/no)

- M-protein type (selection)IgGIgA
 - IgD
 - IgE
 - IgM
 - Biclonal
 - Triclonal
 - Nonsecretory
 - LC only
- Light chain type (selection)
 - kappa
 - lambda
 - biclonal
- Serum M-protein entry level (g/l) (real number scale: 0) abs. min:0
- Urine M-protein entry level (mg/24h) (real number scale: 0) abs. min:0
- Osteolytic lesions X-ray (selection)
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions NMR (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion

- 2 osteolytic lesions
- more than 2 lesions
- accelerated osteoporosis
- can not evaluate
- Osteolytic lesions PET (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET/CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions MIBI (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Extramedullary mass (yes/no)
- Extramedullary mass relation (selection)
 - extramedullary mass NOT related to bone
 - bone related extramedullary tumor mass
 - both tips
- Extramedullary mass histology (selection)
 - NA

- negative
- positive
- Extramedullary masses count (selection)
 - **1**
 - **2**
 - **3**
 - more than 3
- Max size (cm) x (real number scale: 0) abs. min:0
- Max size (cm) y (real number scale: 0) abs. min:0
- Mass area (cm2) (real number scale: 0) abs. min:0 computed
- Bone marrow aspiration cytology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100
- Bone marrow histology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100

Cytogenetics (FISH) before treatment

- Cytogenetics (yes/no)
- Sample date (date) abs. min: "1.1.1900"

Treatment

- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- Combined with (selection)
 - No
 - Thalidomid

- Velcade
- Revlimid
- Bendamustin
- Imnovid
- Carfilzomib
- Ixazomib
- Health insurance company (selection)
 - 111 Všeobecná zdravotní pojišťovna
 - 201 Vojenská zdravotní pojišťovna
 - 205 Česká průmyslová zdravotní pojišťovna
 - 207 Oborová pojišťovna zaměstnanců bank, pojišťoven a stavebnictví
 - 209 Zaměstnanecká pojišťovna Škoda
 - 211 Zdravotní pojišťovna Ministerstva vnitra ČR
 - 213 Revírní bratrská pokladna
 - 217 Zdravotní pojišťovna METAL-ALIANCE do 1.10.2012
 - 222 Česká národní zdravotní pojišťovna do 1.10.2009
 - 227 AGEL do 1.7.2009
 - 228 MÉDIA do 28.3.2011
 - 999 Není pojištěncem české ZP
- Clinical study (yes/no)
- Treatment (switch) beginning date (date) abs. min: 1.1.1900
- Length of cycle (number) abs. min:0
- Number of administrations per cycle (number) abs. min:0
- Dosage of the first administration (mg) (real number scale: 2) abs. min:0
- Dosage of the first administration (mg/m2) (real number scale: 2) abs. min:0
- Route of administration (selection)
 - only subcutaneous
 - only intravenous
 - subcutaneous and change to intravenous
 - intravenous and change to subcutaneous
- Number of cycles (real number scale: 2) abs. min:0
- Total number of administrations (number) abs. min:0
- Total cumulative dose (mg) (real number scale: 2) abs. min:0
- Second drug for drug combination (for switch data see section below)
 - Dosage of the first administration (mg) second drug (real number scale: 2) abs. min:0

- Dosage of the first administration (mg/m2) second drug (real number scale: 2) abs. min:0
- Route of administration second drug (selection)
 - only subcutaneous
 - only intravenous
 - subcutaneous and change to intravenous
 - intravenous and change to subcutaneous
- Number of administrations per cycle second drug (number) abs. min:0
- Total number of administrations second drug (number) abs. min:0
- Total cumulative dose (mg) second drug (real number scale: 2) abs. min:0
- Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)
 - According treatment protocol
 - Insufficient response
 - Progression
 - Toxicity
 - Exitus
 - Other
- Specify other reason (string)
- MR after cycle (number) abs. min:0
- > Date of MR (date) abs. min: "1.1.1900"
- PR after cycle (number) abs. min:0
- Date of PR (date) abs. min: "1.1.1900"
- VGPR after cycle (number) abs. min:0
- Date of VGPR (date) abs. min:"1.1.1900"
- CR after cycle (number) abs. min:0
- Date of CR (date) abs. min:"1.1.1900"
- Response before transplant (selection)
 - PG
 - SD
 - PR
 - VGPR
 - CR
 - sCR
 - MR

- NA
- Dose reduction (yes/no)
- > Interruption of treatment (yes/no)

Dose reduction

- Reduction number (selection)
 - 1st
 - 2nd
 - 3rd
 - 4th
 - 5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
 - other
- Specify other (string)
- Grade (selection)
 - 0
 - **1**

- 2345
- 2nd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - **•** 0
 - **•** 1
 - **2**
 - **3**
 - **4**
 - **5**
- > 3rd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia

- Grade (selection)012
 - **3**
 - **4**
 - **-** 5
- New dosage (mg) (real number scale: 2) abs. min:0
- New dosage (mg/m2) (real number scale: 2) abs. min:0

Interruption of treatment

- > Interruption number (selection)
 - 1st
 - 2nd
 - 3rd
 - 4th
 - 5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
 - All
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia

- Neutropenia
 Anemia
 other
 Specify other (string)
 Grade (selection)
 0
 - **1**
 - **2**
 - **3**
 - **■** 4
 - **-** 5
- 2nd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **5**
- > 3rd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea

		Constipation	
		■ Fatigue	
		Thrombosis/thrombus/Embolism	
		Infection	
		Thrombocytopenia	
		Neutropenia	
		Anemia	
		Grade (selection)	
		• 0	
		1	
		2	
		■ 3	
		4	
		■ 5	
*	<u>To</u>	oxicity_	
*	To	<u>xicity before treatment</u>	
	>	Grade of thrombocytopenia before treatment (selection)	
		• 0	
		1	
		2	
		• 3	
		4	
		Grade of neuropathy before treatment (selection)	
		• 0	
		• 1	
		2	
		• 3	
		4	
*	To	xicity during treatment	
		Neuropathy - grade (selection)	
		• 0	
		• 1	
		• 2	
		• 3	
		4	

	•	5
	•	ND
>	Na	usea, vomiting - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
>	An	orexia - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
	Dia	arrhoea - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
	Со	nstipation - grade (selection)
	•	0
	•	1
	•	2
	•	3
	•	4
	•	5
	•	ND
\triangleright	Fat	tigue - grade (selection)

	■ 0	
	• 1	
	■ 2	
	• 3	
	- 4	
	■ 5	
	■ ND	
>	Thrombosis/thrombus/Embolism - grade (selection)	
	■ 0	
	1	
	■ 2	
	■ 3	
	■ 4	
	■ 5	
	■ ND	
>	Infection - grade (selection)	
	• 0	
	• 1	
	■ 2	
	■ 3	
	■ 4	
	5	
	■ ND	
>	Thrombocytopenia - grade (selection)	
	• 0	
	• 1	
	■ 2	
	3	
	4	
	5	
	■ ND	
>	Neutropenia - grade (selection)	
	• 0	
	• 1	
	2	

	•	0	
	•	1	
	•	2	
	•	3	
	•	4	
	•	5	
	•	ND	
>	Ot	her - text (string)	
>	Ot	her - grade (selection)	
	•	0	
	•	1	
	•	2	
	•	3	
	•	4	
	•	5	
>	Ot	her 2 - text (string)	
>	Ot	her 2 - grade (selection)	
	•	0	
	•	1	
	•	2	
	•	3	
	•	4	
	•	5	
>	Sw	itch of treatment due to toxicity (yes/no)	
۱n	tico	agulant treatment	
>	Anticoagulant treatment (yes/no)		
>	Ту	pe of anticoagulant treatment (selection)	
	•	aspirin	
	•	warfarin	
	•	LMWH	

3

■ ND

> Anemia - grade (selection)

- other
- Specify anticoagulant treatment (string)

Hemopoetic growth factor

- Hemopoetic growth factor (yes/no)
- Dosage 30 IU / 0,5ml number of doses (number) default abs. min:0
- Dosage 48 IU/0,5 ml number of doses (number) default abs. min:0

Comments

Comments (long string)

Following treatment - switch

❖ Biochemistry before treatment

- ➤ Hemoglobin level (g/l) (real number scale: 0) abs. min:0
- Thrombocyte count (10E9/I) (real number scale: 1) abs. min:0
- Calcium total level (mmol/l) (real number scale: 0) abs. min:0
- Albumin level (g/l) (real number scale: 0) abs. min:0
- Creatinine level (umol/l) (real number scale: 0) abs. min:0
- > Beta2 microglobulin (mg/l) (real number scale: 0) abs. min:0
- LDH (ukat/I) (real number scale: 0) abs. min:0
- > CRP (mg/l) (real number scale: 0) abs. min:0

❖ <u>Before treatment</u>

- Status Performance (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
- Karnofsky status (selection)
 - NA
 - **1**0
 - **2**0
 - **3**0
 - **4**0
 - **5**0
 - **6**0
 - **•** 70

-	80
•	90
•	100
Du	rie-Salmon stage (selection)
•	1
•	II
•	III
Su	bstage (selection) computed
•	A
•	В
ISS	classification (selection) computed
•	Stage 1
•	Stage 2
•	Stage 3
Ch	ange of M-protein type? (yes/no)
M-	protein type (selection)
•	IgG
•	IgA
•	IgD
•	IgE
•	IgM
•	Biclonal
•	Triclonal
•	Nonsecretory

■ LC only

kappalambda

biclonal

negative

➤ Light chain type (selection)

1 osteolytic lesion2 osteolytic lesions

more than 2

Osteolytic lesions X-ray (selection)

accelerated osteoporosis

- can not evaluate
- Osteolytic lesions NMR (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions PET/CT (selection)
 - ND
 - negative
 - 1 osteolytic lesion
 - 2 osteolytic lesions
 - more than 2 lesions
 - accelerated osteoporosis
 - can not evaluate
- Osteolytic lesions MIBI (selection)
 - ND

- negative
- 1 osteolytic lesion
- 2 osteolytic lesions
- more than 2 lesions
- accelerated osteoporosis
- can not evaluate
- Extramedullary mass (yes/no)
- Extramedullary mass relation (selection)
 - extramedullary mass NOT related to bone
 - bone related extramedullary tumor mass
 - both tips
- Extramedullary mass histology (selection)
 - NA
 - negative
 - positive
- Extramedullary masses count (selection)
 - 1
 - **2**
 - 3
 - more than 3
- Max size (cm) x (real number scale: 0) abs. min:0
- Max size (cm) y (real number scale: 0) abs. min:0
- Mass area (cm2) (real number scale: 0) abs. min:0 computed
- Serum M-protein entry level (g/l) (real number scale: 0) abs. min:0
- Urine M-protein entry level (mg/24h) (real number scale: 0) abs. min:0
- Bone marrow aspiration cytology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100
- Bone marrow histology (selection)
 - NOT DONE
 - negative
 - positive
- Plasmocyte count M (%) (real number scale: 0) abs. min:0 abs. max:100

Cytogenetics before treatment

- Cytogenetics (yes/no)
- Sample date (date) abs. min: "1.1.1900"

Treatment

- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- Combined with (selection)
 - No
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- Health insurance company (selection)
 - 111 Všeobecná zdravotní pojišťovna
 - 201 Vojenská zdravotní pojišťovna
 - 205 Česká průmyslová zdravotní pojišťovna
 - 207 Oborová pojišťovna zaměstnanců bank, pojišťoven a stavebnictví
 - 209 Zaměstnanecká pojišťovna Škoda
 - 211 Zdravotní pojišťovna Ministerstva vnitra ČR
 - 213 Revírní bratrská pokladna
 - 217 Zdravotní pojišťovna METAL-ALIANCE do 1.10.2012
 - 222 Česká národní zdravotní pojišťovna do 1.10.2009
 - 227 AGEL do 1.7.2009
 - 228 MÉDIA do 28.3.2011
 - 999 Není pojištěncem české ZP
- Clinical study (yes/no)

- > Treatment (switch) beginning date (date) abs. min:"1.1.1900"
- > Date of transplant (date) abs. min:"1.1.1900"
- Special transplantation technique (selection)
 - Tandem autotransplantation
 - Full Allogenic transplantation
 - Mini Allogenic transplantation
 - No
- Date of subsequent transplant (date) abs. min: "1.1.1900"
- Length of cycle (number) abs. min:0
- Dosage of the first administration (mg) (real number scale: 2) abs. min:0
- Dosage of the first administration (mg/m2) (real number scale: 2) abs. min:0
- Route of administration (selection)
 - only subcutaneous
 - only intravenous
 - subcutaneous and change to intravenous
 - intravenous and change to subcutaneous
- Number of administrations per cycle (number) abs. min:0
- Number of cycles (real number scale: 2) abs. min:0
- Total number of administrations (number) abs. min:0
- Total cumulative dose (mg) (real number scale: 2) abs. min:0

Second drug for drug combination

- Dosage of the first administration (mg) second drug (real number scale: 2) abs. min:0
- Dosage of the first administration (mg/m2) second drug (real number scale: 2) abs. min:0
- Route of administration second drug (selection)
 - only subcutaneous
 - only intravenous
 - subcutaneous and change to intravenous
 - intravenous and change to subcutaneous
- Number of administrations per cycle second drug (number) abs. min:0
- Total number of administrations second drug (number) abs. min:0
- Total cumulative dose (mg) second drug (real number scale: 2) abs. min:0
- Reason for treatment withdrawal (selection)
 - Treatment response
 - Treatment response + PBSCT (transplantation)

- According treatment protocol
- Insufficient response
- Progression
- Toxicity
- Exitus
- Other
- Specify other reason (string)
- Serum M-protein level after treatment (g/l) (real number scale: 0) abs. min:0
- ➤ Urine M-protein level after treatment (mg/24h) (real number scale: 0) abs. min:0
- Serum M-protein ratio after treatment/entry (%) (real number scale: 1) abs. min:0 computed
- Urine M-protein ratio after treatment/entry (%) (real number scale: 1) abs. min:0 computed
- Immunofixation after treatment serum (selection)
 - NA
 - negative
 - positive
- Immunofixation after treatment urine (selection)
 - NA
 - negative
 - positive
- MR after cycle (number) abs. min:0
- Date of MR (date) abs. min:"1.1.1900"
- > PR after cycle (number) abs. min:0
- Date of PR (date) abs. min:"1.1.1900"
- ➤ VGPR after cycle (number) abs. min:0
- Date of VGPR (date) abs. min:"1.1.1900"
- CR after cycle (number) abs. min:0
- Date of CR (date) abs. min:"1.1.1900"
- Response before transplant (selection)
 - PG
 - SD
 - PR
 - VGPR
 - CR
 - sCR

- MR
- NA
- Dose reduction (yes/no)
- Interruption of treatment (yes/no)

Dose reduction

- Reduction number (selection)
 - 1st
 - 2nd
 - 3rd
 - 4th
 - 5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
 - other
- Specify other (string)
- Grade (selection)
 - **o**

- 1234
- **5**
- 2nd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - **•** 0
 - **1**
 - **2**
 - **3**
 - **4**
 - **5**
- > 3rd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia

- Anemia
- Grade (selection)
 - **0**
 - **1**
 - **2**
 - **3**
 - **4**
 - **5**
- New dosage (mg) (real number scale: 2) abs. min:0
- New dosage (mg/m2) (real number scale: 2) abs. min:0

Interruption of treatment

- Interruption number (selection)
 - 1st
 - 2nd
 - 3rd
 - 4th
 - 5th
- Drug (selection)
 - Thalidomid
 - Velcade
 - Revlimid
 - Bendamustin
 - Imnovid
 - Carfilzomib
 - Ixazomib
 - All
- > 1st reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection

- Thrombocytopenia Neutropenia Anemia other Specify other (string)
- Grade (selection)
 - 0
 - 1
 - 2
 - 3

 - 5
- 2nd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia
 - Diarrhoea
 - Constipation
 - Fatigue
 - Thrombosis/thrombus/Embolism
 - Infection
 - Thrombocytopenia
 - Neutropenia
 - Anemia
- Grade (selection)
 - 0

 - 2
 - 3
- > 3rd reason (selection)
 - Neuropathy
 - Nausea, vomiting
 - Anorexia

		Diarrhoea	a de la companya de		
		Constipat	ion		
		Fatigue			
		■ Thrombos	sis/thrombus/Embolism		
		Infection			
		■ Thrombo	cytopenia		
		Neutrope	nia		
		Anemia			
	>	Grade (select	rade (selection)		
		• 0			
		1			
		2			
		3			
		4			
		5			
*	To	<u>icity</u>			
	Grade of thrombocytopenia before treatment (selection)				
		• 0			
		1			
		2			
		3			
		4			
	>	Grade of neu	ropathy before treatment (selection)		
		• 0			
		1			
		2			
		3			
		4			
	>	Neuropathy -	Neuropathy - grade (selection)		
		• 0			
		1			
		2			
		3			
		4			
		5			

	•	ND		
>	Na	Nausea, vomiting - grade (selection)		
	•	0		
	•	1		
	•	2		
	•	3		
	•	4		
	•	5		
	•	ND		
	Anorexia - grade (selection)			
	•	0		
	•	1		
	•	2		
	•	3		
	•	4		
	•	5		
	•	ND		
	Di	Diarrhoea - grade (selection)		
	•	0		
	•	1		
	•	2		
	•	3		
	•	4		
	•	5		
	•	ND		
	Co	onstipation - grade (selection)		
	•	0		
	•	1		
	•	2		
	•	3		
	•	4		
	•	5		
	•	ND		
	Fa	tigue - grade (selection)		
	•	0		

	• 2
	■ 3
	4
	5
	■ ND
>	Thrombosis/thrombus/Embolism - grade (selection)
	• 0
	• 1
	2
	■ 3
	4
	• 5
	■ ND
>	Infection - grade (selection)
	• 0
	• 1
	2
	• 3
	4
	5
	■ ND
>	Thrombocytopenia - grade (selection)
	• 0
	• 1
	• 2
	• 3
	4
	5
	■ ND
	Neutropenia - grade (selection)
	• 0
	• 1
	■ 2
	• 3

	•	5			
	•	ND			
>	An	Anemia - grade (selection)			
	•	0			
	•	1			
	•	2			
	•	3			
	•	4			
	•	5			
	•	ND			
>	Ot	Other - text (string)			
>	Ot	Other - grade (selection)			
	•	0			
	•	1			
	•	2			
	•	3			
	•	4			
	•	5			
>	Other 2 - text (string)				
	Other 2 - grade (selection)				
	•	0			
	•	1			
	•	2			
	•	3			
	•	4			
	•	5			
>	Sw	ritch of treatment due to toxicity (yes/no)			
<u>An</u>	Anticoagulant treatment				
	Anticoagulant treatment (yes/no)				
	Ту	pe of anticoagulant treatment (selection)			
	•	aspirin			
	•	warfarin			
	•	LMWH			
	•	other			

4

*

Specify anticoagulant treatment (string)

Hemopoetic growth factor

- Hemopoetic growth factor (yes/no)
- Dosage 30 IU / 0,5ml number of doses (number) default abs. min:0
- Dosage 48 IU/0,5 ml number of doses (number) default abs. min:0

Comments

Comments (long string)

AMYL - diagnostics

Characteristic of amyloidosis

- Date of diagnosis (dd.mm.rrrr) (date) abs. min:"1.1.1900"
- > Type of amyloidosis (selection)
 - Systemic
 - Localized

Localization

- Node (checkbox)
- ➤ GIT (checkbox)
- Tracheobronchial (checkbox)
- Pulmonary (checkbox)
- Diffused (checkbox)
- Nodular (checkbox)
- Other (checkbox)
- Specify (string)

Labratory - serum (protein analysis)

- M-protein type (selection)
 - IgG
 - IgA
 - IgD
 - IgE
 - IgM
 - Biclonal
 - Triclonal
 - Nonsecretory
 - LC only
- Light chain type (selection)

- Kappa
- Lambda
- Biclonal
- Serum M-protein quantity (g/l) (real number scale: 2) abs. min:0
- Total protein (g/l) (real number scale: 2) abs. min:0
- Albumin level (g/l) (real number scale: 2) abs. min:0
- Serum kappa FLC quantity (mg/l) (real number scale: 2) abs. min:0
- Serum lambda FLC quantity (mg/l) (real number scale: 2) abs. min:0
- Kappa/lambda ratio (real number scale: 2) computed
- Polyclonal IgG quantity (g/l) (real number scale: 2) abs. min:0
- Polyclonal IgA quantity (g/l) (real number scale: 2) abs. min:0
- Polyclonal IgM quantity (g/l) (real number scale: 2) abs. min:0
- IgG kappa HLC pair (g/l) (real number scale: 2)
- ➤ IgG lambda HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ IgG HLC ratio (real number scale: 2) computed
- ➤ IgA kappa HLC pair (g/l) (real number scale: 2) abs. min:0
- IgA lambda HLC pair (g/l) (real number scale: 2) abs. min:0
- IgA HLC ratio (real number scale: 2) computed
- ➤ IgM kappa HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ IgM lambda HLC pair (g/l) (real number scale: 2) abs. min:0
- ➤ IgM HLC ratio (real number scale: 2) computed

Analysis of a heart indicators

- Troponin T (ug/l) (real number scale: 3) abs. min:0
- NT-proBNP (ng/l) (real number scale: 2) abs. min:0
- Mayo stage (selection) computed
 - Stage I
 - Stage II
 - Stage III
- Revised Mayo stage (selection) computed
 - Stage I
 - Stage II
 - Stage III
 - Stage IV

Other parameters

➤ Hemoglobin level (g/l) (real number - scale: 2) abs. min:0

- Thrombocyte count (10E9/I) (real number scale: 2) abs. min:0
- Factor X deficit (yes/no)
- Creatinine level (umol/l) (real number scale: 2) abs. min:0
- ➤ Uric acid level (umol/l) (real number scale: 2) abs. min:0
- ➤ Glom. filtration according to MDRD (ml/s/1,73m2) (real number scale: 2) abs. min:0
- > Beta2 microglobulin (mg/l) (real number scale: 2) abs. min:0
- LDH (ukat/I) (real number scale: 2) abs. min:0
- > ALP (ukat/I) (real number scale: 2) abs. min:0

Analysis of urine

- Total protein in the urine (g/day) (real number scale: 2) abs. min:0
- Urine M-protein type (selection)
 - IgA
 - IgG
 - IgD
 - IgM
 - Without complete Ig moleculs
- BJ urie type (selection)
 - Kappa
 - Lambda
 - Unknown
- Urine M-protein quantity (mg/24h) (real number scale: 2) abs. min:0
- Urine albumin level (mg/24 h) (real number scale: 2) abs. min:0

Bone marrow analysis

- Plasmocyte count (%) in aspiration (real number scale: 1) abs. min:0 max:100
- Plasmocyte count (%) in histology (real number scale: 1) abs. min:0 max:100
- Clonal plasma cells count (%) in histology (real number scale: 1) abs. min:0 max:100
- Flowcytometry (yes/no)
- Normal PC CD19 (%) (real number scale: 1) abs. min:0 max:100
- Abnormal PC CD 56 (%) (real number scale: 1) abs. min:0 max:100
- Cytogenetics (yes/no)
- IGH disruption (selection)
 - Positive
 - Negative
 - NA
- > t(11,14) (selection)

- Positive
- Negative
- NA
- > t(11;14) (%) (real number scale: 1)
- > t(4,14) (selection)
 - Positive
 - Negative
 - NA
- > t(4;14) (%)(real number scale: 1)
- \succ t(6,14) (selection)
 - Positive
 - Negative
 - NA
- > t(6;14) (%) (real number scale: 1)
- > t(16,14) (selection)
 - Positive
 - Negative
 - NA
- > t(14;16) (%) (real number scale: 1)
- del -13q /monosomy (selection)
 - Positive
 - Negative
 - NA
- del(q14)/monosomy 13 (%) (real number scale: 1)
- amp 1q21 (selection)
 - Positive
 - Negative
 - NA
- gain 1q21 (%) (real number scale: 1)
- del(17) (p13) (selection)
 - Positive
 - Negative
 - NA
- del(17)(p13) (%) (real number scale: 1)
- Hyperdiploidy (yes/no)

Echocardiography

- Echocardiography (yes/no)
- Left ventricular ejection fraction (%) (number) abs. min:0 max:100
- Interventricular septum diastolic diameter (mm) (real number scale: 2) abs. min:0
- Left atrium diameter (mm) (real number scale: 2) abs. min:0
- ➤ Mitral regurgitation (yes/no)

MRI of myocard

- MR of myocard yes/no)
- Left ventricular ejection fraction (%) (number) abs. min:0 max:100
- Interventricular septum diastolic diameter (mm) (real number scale: 2) abs. min:0
- Delayed enhancement (selection)
 - Positive
 - Negative
- Type of involvement (selection)
 - Diffuse subendocardial
 - Diffuse transmural
 - Patchy
 - Difficult to select the optimal inversion time

❖ ECG

- ECG (yes/no)
- Basic rhythm (selection)
 - Sinus
 - Fibrillation
 - Flutter
 - Stimulated
- Ventricular rate (selection)
 - < 60/min</p>
 - 60 100/min
 - > 100/min
- Extrasystoles (selection)
 - SVES
 - KES
 - SVES + KES
 - Nezaznamenány
- Low voltage of limb leads under 5 mm (yes/no)

QS - "pseudoinfarct pattern" of anterior wall (yes/no)

❖ Abdominal ultrasound

Liver width (cm) (real number - scale: 2) abs. min:0

Characteristic of patient

- WHO status performance (selection)
 - **•** 0
 - **1**
 - **2**
 - **a** 3
 - **4**
- Other serious diseases (not related with AL and damages of organs) (yes/no)
- Specify (string)
- ➤ Height (cm) (number) abs. min:0 abs. max:250 min:120 max:220
- Weight (kg) (number) abs. min:0 abs. max:600 min:30 max:300
- BMI (real number scale: 2) computed read-only

Characteristic of disease

- Nefrotic syndrome (yes/no)
- Heart failure (yes/no)
- NYHA (selection)
 - •
 - **-** ||
 - III
 - IV
- Orthostatic hypotension (yes/no)
- Peripheral neuropathy (yes/no)
- Hepatopathy (yes/no)
- GIT (yes/no)
- Skin (yes/no)

Other signs

- Macroglossia (yes/no)
- Periorbital purpura (yes/no)
- Carpal Tunnel Syndrome (yes/no)
- Shoulder pad sign (yes/no)
- The total number of damaged organs (number) abs. min:0

Amyloid positive biopsy

- Amyloid identified as AL (yes/no)
- Subcutaneous fat (selection)
 - Yes
 - No
 - Not done
- > Tongue, buccal mucosa (selection)
 - Yes
 - No
 - Not done
- Rectum (selection)
 - Yes
 - No
 - Not done
- Bone marrow (selection)
 - Yes
 - No
 - Not done
- Kidney (selection)
 - Yes
 - No
 - Not done
- > EMB (selection)
 - Yes
 - No
 - Not done
- Other (selection)
 - Yes
 - No
 - Not done
- Specify (string)

AMYL - Treatment

Treatment

- Line of therapy (selection)
 - 1st line

- 2nd line
- 3rd line
- 4th line
- Treatment beginning date (dd.mm.rrrr) (date) abs. min:"1.1.1900"
- Date of treatment withdrawal (dd.mm.rrrr) (date) abs. min:"1.1.1900"
- Regimen (selection)
 - Without treatment
 - Thalidomide based regimens
 - Velcade based regimens
 - Revlimid based regimens
 - Other regimens
 - Other conventional chemotherapy
 - Other induction followed by Autologous stem cell transplantation
 - Salvage autologous transplantation technique
 - Imnovid based regiment
 - Carfilzomib based regimen
 - Ixazomib based regimen
- Specifications (selection)
 - Without treatment
 - Thalidomide monotherapy
 - TD (Thalidomide + Dexamethasone)
 - TP (Thalidomide + Prednison)
 - CTD junior therapy (Cyclophosphamide+Thalidomide+Dexamethasone)
 - CTD senior therapy
 - MPT junior therapy (Melphalan + Prednisone + Thalidomide)
 - MPT senior therapy
 - VTD therapy (Velcade + Thalidomide + Dexamethasone)
 - CVTD therapy (Cyclophosphamide + Velcade + Thalidomide + Dexamethasone)
 - CTD induction followed by Autologous stem cell transplantation
 - CVTD induction followed by Autologous stem cell transplantation
 - VTD induction followed by Autologous stem cell transplantation
 - Other Thalidomide based combination
 - Other Thalidomid based induction followed by Autologous stem cell transplantation
 - TBD therapy (Thalidomide + Bendamustine + Dexamethasone)
 - TBP therapy (Thalidomide + Bendamustine + Prednison)

- Velcade monotherapy
- VD therapy (Velcade Dexamethasone)
- VP therapy (Velcade + Prednison)
- CVD junior therapy (Cyclophosphamide + Velcade + Dexamethasone)
- CVD senior therapy
- VMP junior therapy (Velcade + Melphalan + Prednison)
- VMP senior therapy
- BDD therapy (Velcade + Adriamycin + Dexamethasone)
- RVD therapy induction (Revlimide + Velcade + Dexamethasone)
- VD induction followed by Autologous stem cell transplantation
- CVD induction followed by Autologous stem cell transplantation
- BDD induction followed by Autologous stem cell transplantation
- Other Velcade based combination
- Other Velcade based induction followed by Autologous stem cell transplantation
- BBD therapy (Velcade + Bendamustine + Dexamethasone)
- BBP therapy (Velcade + Bendamustine + Prednison)
- Revlimid monotherapy
- RP junior therapy (Revlimide + Prednisone)
- RP senior therapy
- RD therapy (Revlimide + Dexamethasone)
- RCD junior therapy (Revlimide + Cyclophosphamide + Dexamethasone)
- RCD senior therapy
- RP induction followed by Autologous stem cell transplantation
- RD induction followed by Autologous stem cell transplantation
- RCD induction followed by Autologous stem cell transplantation
- RVD induction followed by Autologous stem cell transplantation
- Other Revlimid based combination
- Other Revlimid based induction followed by Autologous stem cell transplantation
- RAD junior therapy (Revlimid-Adriamycin+ Dexamethasone)
- RAD senior therapy
- RAD induction followed by Autologous stem cell transplantation
- RBD therapy (Revlimide + Bendamustine + Dexamethasone)
- RBP therapy (Revlimide + Bendamustine + Prednison)
- RCD therapy (Revlimid + Carfilzomib + Dexamethason)
- RID therapy (Revlimid + Ixazomib + Dexamethason)

- Corticosteroid monotherapy
- Melphalan monotherapy
- Cyclophosphamide monotherapy
- MP therapy (Melphalan + Prednison)
- CP therapy (Cyclophosphamide + Prednison)
- CD therapy (Cyclophosphamide + Dexamethasone)
- VAD therapy (Vincristin + Adriamycin + Dexamethasone)
- VID therapy (Vincristin + Idarubicin + Dexamethason)
- CAD junior therapy (Cyclophosphamide + Etoposide + Dexamethasone)
- CAD senior therapy
- CED therapy (Cyclophosphamide + Etoposide + Dexamethasone)
- VAD induction followed by Autologous stem cell transplantation
- VID induction followed by Autologous stem cell transplantation
- CAD induction followed by Autologous stem cell transplantation
- BD (Bendamustine + Dexamethazone)
- BP (Bendamustine + Prednison)
- Bendamustin monotherapy
- Other
- Other conventional chemotherapy
- Other induction followed by Autologous stem cell transplantation
- Salvage autologous transplantation technique
- Imnovid monotherapy
- Imnovid + Dexamethasone
- Other Imnovid based combination
- Carfilzomib monotherapy
- CD Therapy (Carfilzomib + Dexamethasone)
- CMP therapy (Carfilzomib + Melphalan + Prednison)
- Other Carfilzomid based combination
- Ixazomib monotherapy
- ID therapy (Ixazomib + Dexamethasone)
- LID therapy (Ixazomib + Lenalidomid + Dexamethasone)
- IMP therapy (Ixazomib + Melphalan + Prednison)
- Other Ixazomib based combination
- > ASCT (yes/no)
- ➤ Dose of Mel (mg/m2) (real number scale: 2) abs. min:0

Response to treatment

- Time since diagnosis to start of treatment (days) (real number scale: 2) computed read-only
- Final response to treatment (selection)
 - CR
 - VGPR
 - PR
 - SD
 - PD
- Date of first treatment response (dd.mm.rrrr) (date) abs. min:"1.1.1900"
- Date of maximal response (dd.mm.rrrr) (date) abs. min:"1.1.1900"
- NT-proBNP (ng/l) in time of maximal response (real number scale: 2) abs. min:0
- TnT in time of maximal response (real number scale: 2) abs. min:0
- Level of proteinuria in time of maximal response (g/l/24 hod) (real number scale: 2) abs. min:0

Echocardiography

- Echocardiography (yes/no)
- Left ventricular ejection fraction (%) (number) abs. min:0 max:100
- Interventricular septum diastolic diameter (mm) (real number scale: 2) abs. min:0
- Left atrium diameter (mm) (real number scale: 2) abs. min:0
- Mitral regurgitation (yes/no)

Relapse/progression

➤ Date of relapse/progression (dd.mm.rrrr) (date) abs. min:"1.1.1900"

AMYL - Current status

Current status

- Date of last contact (dd.mm.rrrr) (date) abs. min:"1.1.1900"
- Patient is dead (yes/no)
- Date of death (dd.mm.rrrr) (date) abs. min:"1.1.1900"

Amyloidosis with MM

Characteristic of amyloidosis

- Date of diagnosis (dd.mm.rrrr) (date) abs. min:"1.1.1900"
- Type of amyloidosis (selection)
 - Systemic
 - Localized

Localization

- Node (checkbox)
- ➤ GIT (checkbox)
- Tracheobronchial (checkbox)
- Pulmonary (checkbox)
- Diffused (checkbox)
- Nodular (checkbox)
- Other (checkbox)
- Specify (string)

Labratory - serum (protein analysis)

- Light chain type (selection)
 - Kappa
 - Lambda
 - Biclonal
- Serum kappa FLC quantity (mg/l) (real number scale: 2) abs. min:0
- Serum lambda FLC quantity (mg/l) (real number scale: 2) abs. min:0

Analysis of a heart indicators

- Troponin T (ug/l) (real number scale: 3) abs. min:0
- NT-proBNP (ng/l) (real number scale: 2) abs. min:0
- Mayo stage (selection) computed
 - Stage I
 - Stage II
 - Stage III
- Revised Mayo stage (selection) computed
 - Stage I
 - Stage II
 - Stage III
 - Stage IV

Other parameters

- Factor X deficit (yes/no)
- ➤ Uric acid level (umol/l) (real number scale: 2) abs. min:0
- ➤ Glom. filtration according to MDRD (ml/s/1,73m2) (real number scale: 2) abs. min:0
- > ALP (ukat/l) (real number scale: 2) abs. min:0

Analysis of urine

Total protein in the urine (g/day) (59288) (real number - scale: 2) abs. min:0

- Urine M-protein type (selection)
 - IgA
 - IgG
 - IgD
 - IgM
 - Without complete Ig moleculs
- BJ urie type (selection)
 - Kappa
 - Lambda
 - Unknown
- ➤ Urine albumin level (mg/24 h) (real number scale: 2) abs. min:0

Echocardiography

- Echocardiography (yes/no)
- Left ventricular ejection fraction (%) (number) abs. min:0 max:100
- Interventricular septum diastolic diameter (mm) (real number scale: 2) abs. min:0
- Left atrium diameter (mm) (real number scale: 2) abs. min:0
- Mitral regurgitation (yes/no)

MRI of myocard

- MR of myocard (yes/no)
- Left ventricular ejection fraction (%) (number) abs. min:0 max:100
- Interventricular septum diastolic diameter (mm) (real number scale: 2) abs. min:0
- Delayed enhancement (selection)
 - Positive
 - Negative
- > Type of involvement (selection)
 - Diffuse subendocardial
 - Diffuse transmural
 - Patchy
 - Difficult to select the optimal inversion time

♦ ECG

- ECG (yes/no)
- Basic rhythm (selection)
 - Sinus
 - Fibrillation
 - Flutter

- Stimulated
- Ventricular rate (selection)
 - < 60/min
 - 60 100/min
 - > 100/min
- Extrasystoles (selection)
 - SVES
 - KES
 - SVES + KES
 - Nezaznamenány
- Low voltage of limb leads under 5 mm (yes/no)
- QS "pseudoinfarct pattern" of anterior wall (yes/no)

Abdominal ultrasound

Liver width (cm) (real number - scale: 2) abs. min:0

Characteristic of patient

- Other serious diseases (not related with AL and damages of organs) (yes/no)
- Specify (string)
- ➤ Height (cm) (number) abs. min:0 abs. max:250 min:120 max:220
- Weight (kg) (number) abs. min:0 abs. max:600 min:30 max:300
- > BMI (real number scale: 2) computed read-only

Characteristic of disease

- Nefrotic syndrome (yes/no)
- Heart failure (yes/no)
- NYHA (selection)
 - •
 - ||
 - |||
 - IV
- Orthostatic hypotension (yes/no)
- Peripheral neuropathy (yes/no)
- Hepatopathy (yes/no)
- GIT (yes/no)
- Skin (yes/no)

Other signs

Macroglossia (yes/no)

- Periorbital purpura (yes/no)
- Carpal Tunnel Syndrome (yes/no)
- Shoulder pad sign (yes/no)
- > The total number of damaged organs (number) abs. min:0

❖ Amyloid positive biopsy (25428)

- Amyloid identified as AL (yes/no)
- Subcutaneous fat (selection)
 - Yes
 - No
 - Not done
- > Tongue, buccal mucosa (selection)
 - Yes
 - No
 - Not done
- Rectum (selection)
 - Yes
 - No
 - Not done
- Bone marrow (selection)
 - Yes
 - No
 - Not done
- Kidney (selection)
 - Yes
 - No
 - Not done
- > EMB (selection)
 - Yes
 - No
 - Not done
- Other (selection)
 - Yes
 - No
 - Not done
- Specify (string)