

Perlmutter Cancer Center Myeloma Program

Faith Davies, Clinical Director, Myeloma



Disclosures

- Advisory boards:
- BMS
- Celgene
- GSK
- Janssen
- Oncopeptide
- Sanofi
- Takeda



Excitement about IMW invitation – May 2021



Dear Dr. Davies:

The organisers, on behalf of the International Myeloma Society, are pleased to cordially invite you to participate as a faculty member for the 18th International Myeloma Workshop scheduled for **September 8-11, 2021** in Vienna, Austria.

You are invited to participate as a faculty member as follows:

- Session: Plenary Session Great Debates in Myeloma
- Date: Saturday, September 11, 2021
- Session Time: 1:15-3:15pm CET

Faculty Role: Presenter

Talk Name: Stratification based on genomics ready for primetime? (no)

Talk Time: 1:55-2:15pm CET





Who is my opponent?

PLENARY SESSION

11:15-13:15Great Debates in Myeloma

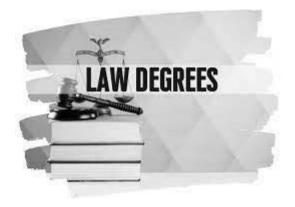
Moderators: Ludwig/Goldschmidt/Einsele/Hajek

Should every transplant eligible NDMM patient receive a transplant?	Sergio Giralt/Morie Gertz
Are we ready for MRD-guided therapy?	Sundar Jagannath/ Ola Landgren
Is stratification based on genomics ready for primetime?	Gareth Morgan/Faith Davies
which is the best immune approach to replace ASCT?	Hermann Einsele/ Parameswaran Hari
Can we give our patient treatment free intervals?	





Or have they been busy during COVID lockdown?









We have been stratifying patients for years

- Tailoring level of intensive therapy to patient fitness
 - autologous transplantation
 - more recently dose intensity for older/ less fit patients according to frailty score
- Choosing therapy based on side effect profile
 - treatment choices for VTE or neuropathy

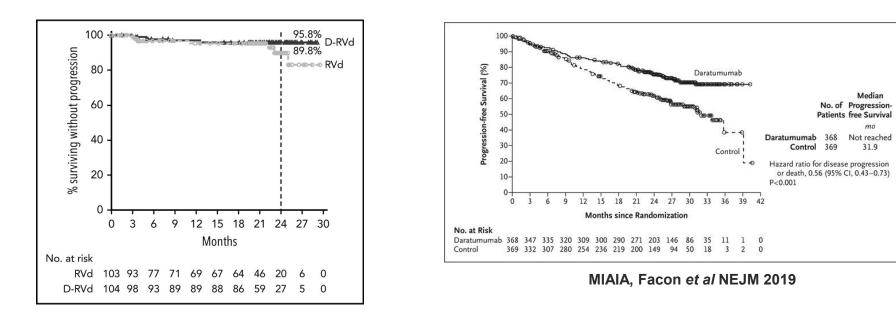


Open Questions.....

1. Do we need to stratify based on genomics?



What do we expect in newly diagnosed patients – huge progress in recent years

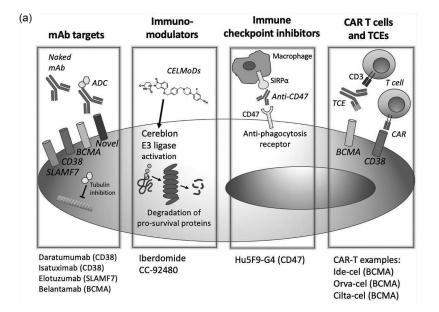


Griffin, Voorhees et al Blood 2020



And what about all of the new agents

 their impact is huge in the relapsed setting and will be bigger in earlier lines of therapy



Braunstein, Weltz and Davies, Expert Reviews in Hematology 2021

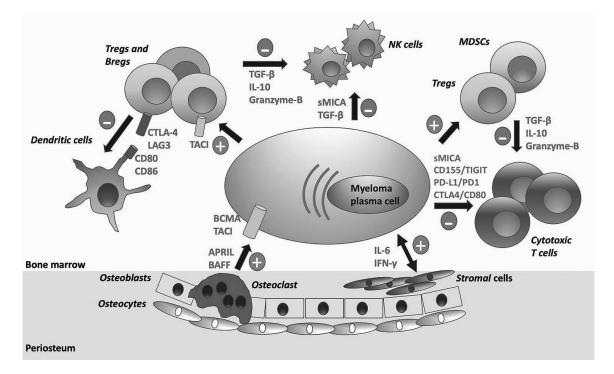


Conclusions of current treatment advances

- These advancements have resulted in improved response rates, progression free and overall survival rates.
- All genetic subgroups seem to benefit admittedly some more than others but in nearly all studies the subgroups show improvements compared to the control arm
- We should not be withholding treatments from certain subgroups of patients



But what about the microenvironment?



Braunstein, Weltz and Davies, Expert Reviews in Hematology 2021

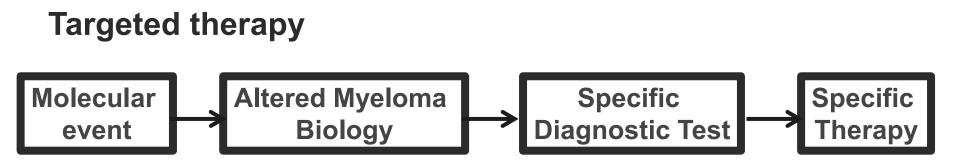


Open Questions.....

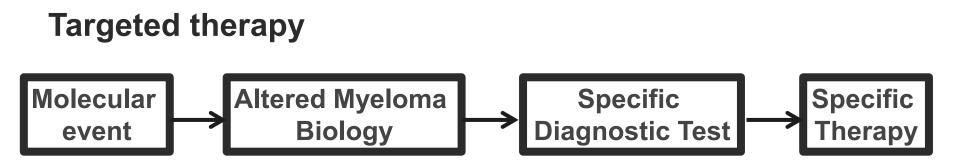
1. Do we need to stratify based on genomics?

2. If we do need to stratify based on genomics, is it ready for primetime?



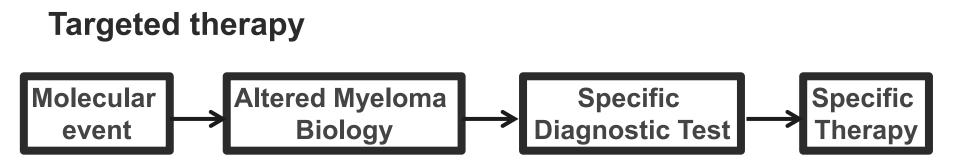






Only patients with the target respond





Only patients with the target respond

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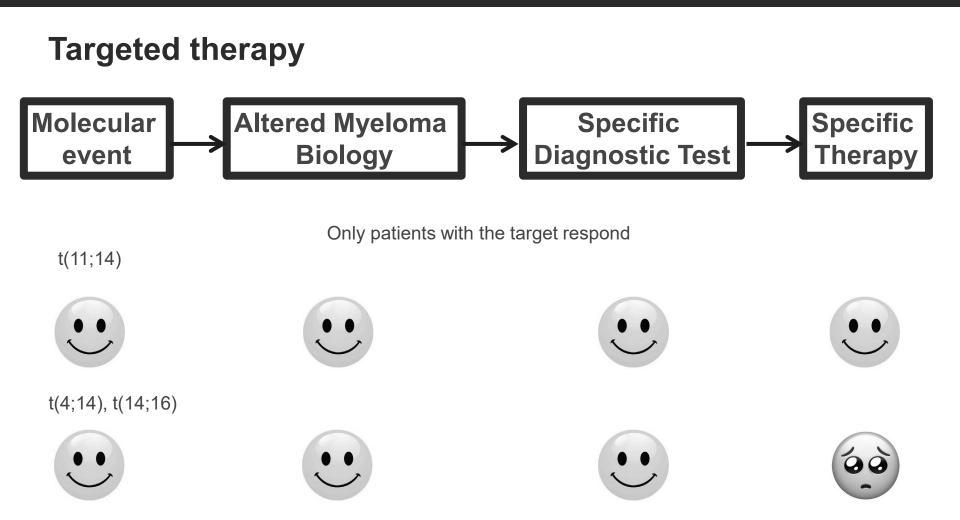












Stratifying for other genetic groups

- Despite advances in therapy there is still a group of patients who perform poorly.
- Clinical trials for High-Risk patients are important and will move the field further dramatically.



Stratifying for other genetic groups

- Despite advances in therapy there is still a group of patients who perform poorly.
- Clinical trials for High-Risk patients are important and will move the field further dramatically.
- I'll give you a to do job list and when you have completed it - ask me for my opinion again
- I'll also give you a deadline 6 Months as the data is there it just needs compiling!



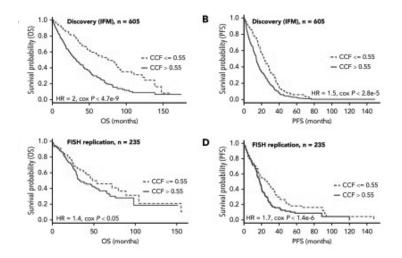


Moving towards consensus

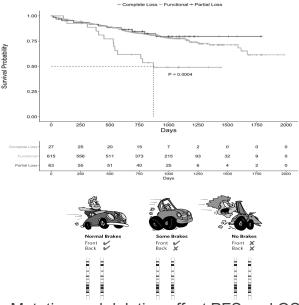
- The variables to include:-
 - R-ISS III
 - High risk GEP (GEP70 or SKY-92)
 - Primary plasma cell leukemia
 - Very high LDH
 - Clinical features of high-risk disease
 - Presence of extramedullary disease
 - > 3 focal lesions on F18-fluorodeoxyglucose positron emission tomography (FDG-PET) imaging

with the addition of 1q+ and TP53 mutation

Refine to include the subtleties of 17P – number and mutation



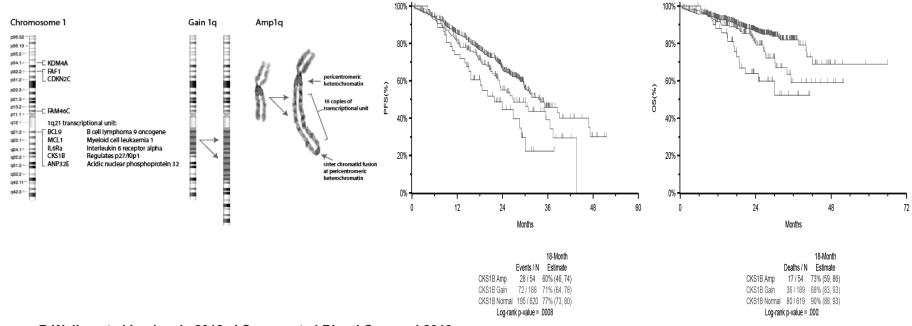
Incremental CCF change in 17p- was associated with shorter survival (CCF 0.3- 0.8)



Overall Survival

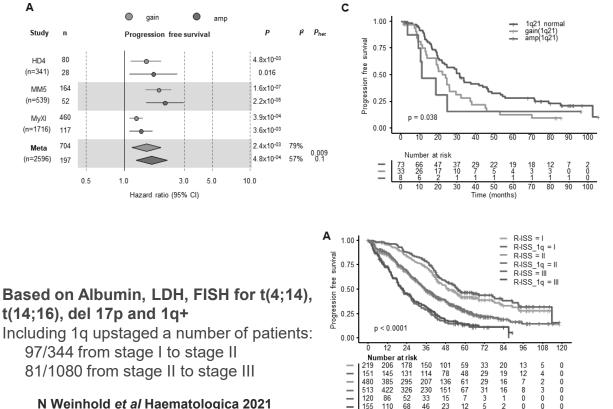
Mutation and deletion effect PFS and OS

Refine to include the subtleties of 1q – gain and amplification



B Walker et al Leukemia 2018, J Sawyer et al Blood Cancer J 2019

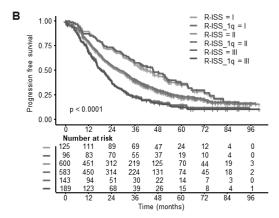
Adding 1q to RISS



Time (months)

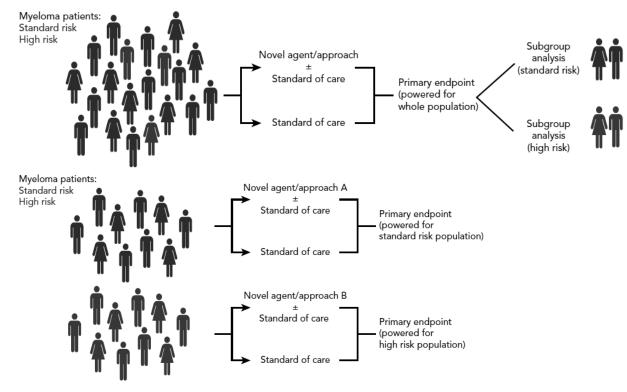
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German and UK trial data



N Weinhold et al Haematologica 2021

Moving towards consensus – desperately required for clinical trials and prime time



Pawlyn C and Davies FE. Blood. 2019. 133(7):660-675

Conclusions

Response rates, PFS and OS have improved greatly over the last few years – in addition there is lots of exciting research and new drugs coming through

Response rates for many of the newer agents do not seem to be dependent on genetic subtypes

Clinical trials for High-Risk patients are important and will move the field further dramatically.



Conclusions

Response rates, PFS and OS have improved greatly over the last few years – in addition there is lots of exciting research and new drugs coming through

Response rates for many of the newer agents do not seem to be dependent on genetic subtypes

Clinical trials for High-Risk patients are important and will move the field further dramatically.

Please please stop arguing with me, get off the stage, answer my questions, finish the High Risk position paper and lets get on with it

