Table S1:
Quality assessment by Modified Institute of Health Economics Tool.

Question Text	Brudno 2018	Shah 2018	Zhao 2018	Mailankody 2018	Jiang 2018	Mailankody2 018	Gregory 2018	Green 2018	Liu 2018	Li 2018	Raje 2019
Was the aim clearly stated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prospective	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicenter	No	Yes	Yes	Yes	Yes	No	Yes	No	No	unclear	Yes
Consecutive recruitment	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eligibility criteria clearly stated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Characteristics of patients described	Yes	Partial	Yes	Partial	Partial	Partial	Partial	Partial	Partial	Partial	Yes
Did patients enter the study at a similar point in the disease	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intervention of interest described	Yes	Partial	Yes	Partial	Yes	Yes	Yes	Yes	Partial	Partial	Yes
Additional interventions clearly described	No	No	No	No	No	No	No	No	No	No	No
Outcome measures established a priori	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outcome assessed blinded to intervention staus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
All relevant outcomes measured appropriately	Yes	Yes	Yes	Yes	Yes	Partial	Yes	Partial	Yes	Yes	Yes
Relevant outcomes measured before and after the intervention	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Without performing selective outcome reporting	Yes	Partial	Yes	Partial	Partial	Partial	Partial	Partial	Partial	Partial	Yes
Details of statistical tests reported	Yes	Yes	No	No	No	No	No	No	No	No	Yes
Length of follow-up reported	Yes	Yes	Yes	No	Yes	Yes		Yes	Yes	Yes	Yes
Eestimates of random variability in data analysis of relevant outcomes	No	No	Yes	No	No	No	No	No	No	No	Yes
Adverse events reported	Yes	Partial	Yes	Partial	Yes	Partial	Partial	Partial	Yes	Partial	Yes
Competing interests and sources of support reported	Partial	No	Yes	No	No	No	No	No	No	Partial	Unclear
Risk of bias	Moderate risk	Moderate risk	Low risk	Moderate risk	Moderate risk	Moderate risk	Moderate risk	Moderate risk	Moderate risk	Moderate risk	Low risk

Question Text	Xu 2019	Li 2019	Cohen 2019	Han 2019	Guo 2016	Ramos 2016	Garfall 2018	Yan 2017	Baumeister 2018	Li 2019	Popat 2019	Yan 2019
Was the aim clearly stated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prospective	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicenter	Yes	No	No	No	No	Yes	No	No	No	Unclear	Yes	No
Consecutive recruitment	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eligibility criteria clearly stated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Characteristics of patients described	Yes	Partial	Yes	Partial	Partial	Yes	Yes	Partial	Partial	Partial	Partial	Yes

Did patients enter the study at a similar point in the disease	Yes	Yes										
Intervention of interest described	Partial	Partial	Yes	Partial	Yes	Yes	Yes	Partial	Partial	Partial	Partial	Yes
Additional interventions clearly described	No	No	No	No	No	No	Yes	No	Yes	No	No	No
Outcome measures established a priori	Yes	Yes										
Outcome assessed blinded to intervention staus	Yes	Yes										
All relevant outcomes measured appropriately	Yes	Yes	Yes	Partial	Yes	Partial	Yes	Yes	Yes	Yes	Yes	Yes
Relevant outcomes measured before and after the intervention	Yes	Yes										
Without performing selective outcome reporting	Partial	Yes										
Details of statistical tests reported	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	No	No	Yes
Length of follow-up reported	Yes	Yes										
Eestimates of random variability in data analysisof relevant outcomes	Yes	No	Yes	No	No							
Adverse events reported	Partial	Partial	Yes	Partial	Partial	Partial	Yes	Partial	Yes	Partial	Partial	Yes
Competing interests and sources of support reported	Unclear	Unclear	Yes	No	Yes	Yes	Yes	No	Yes	No	No	Yes

Risk of bias	Low	Moderate	Low	Moderate	Moderate	Low	Low	Moderate	Low risk	Moderate	Moderate	Moderate
	risk	risk	risk	risk	risk	risk	risk	risk		risk	risk	risk

Figure S1 Subgroup analysis of Overall Response for RRMM with CAR-T.

, <u> </u>	<u> </u>					
Group by	Study name	Statistic	cs for eacl	h study		Event rate and 95% CI
		Event	Lower	Upper		
Country Eastern Western	Total Guo 2016			-	p-Value 0.10 0.21 0.00 0.05 0.00 0.01 0.04 0.03 0.00 0.04 0.00 0.71 0.43 0.10 0.05 0.02 0.37 0.14 0.06 0.22 0.10 0.00 0.84 0.76 0.00 0.01	0.00 0.50 1.00
Trial site						
Multicenter Single center Overall	Ramos 2016 4 / 7 Brudno 2018 15 / 26 Shah 2018 6 / 7 Zhao 2018 50 / 57 Mailankody 2018 3 / 13 Gregory 2018 5 / 6 Liu 2018 11 / 14 Raje 2019 28 / 33 Xu 2019 15 / 17 Popat 2019 6 / 11 161 / 199 Guo 2016 0 / 5 Yan 2017 4 / 5 Mailankody 2018 7 / 11 Green 2018 7 / 7 Li 2018 26 / 28 Garfall 2018 7 / 10 Baumeister 2018 0 / 5 Li 2019 9 / 9 Cohen 2019 12 / 25 Han 2019 11 / 13 Yan 2019 20 / 21 Li 2019 10 / 12 113 / 151 274 / 350	0.57 0.58 0.86 0.88 0.94 0.96 0.83 0.79 0.85 0.85 0.08 0.08 0.094 0.93 0.70 0.08 0.95 0.48 0.95 0.48 0.95 0.48 0.95 0.70	0.23 0.39 0.42 0.76 0.50 0.62 0.37 0.51 0.68 0.27 0.66 0.01 0.34 0.46 0.76 0.38 0.01 0.53 0.30 0.55 0.73 0.52 0.60 0.68	0.86 0.75 0.98 0.94 1.00 0.98 0.93 0.94 0.80 0.88 0.62 0.97 0.86 1.00 0.98 0.99 0.62 1.00 0.62 1.00 0.62 1.00 0.86 0.93	0.71 0.43 0.10 0.00 0.05 0.02 0.14 0.05 0.00 0.01 0.76 0.00 0.10 0.21 0.37 0.06 0.00 0.22 0.10 0.04 0.84 0.03 0.00 0.04 0.00 0.00	0.00 0.50 1.00
Completed Ongoing	Guo 2016 0 / 5 Brudno 2018 15 / 26 Zhao 2018 50 / 57 Garfall 2018 7 / 10 Baumeister 2018 0 / 5 Xu 2019 15 / 17 Yan 2019 20 / 21 107 / 141 Ramos 2016 4 / 7 Yan 2017 4 / 5 Shah 2018 6 / 7 Mailankody 2018 8 / 8 Jiang 2018 13 / 13 Mailankody 2018 7 / 11 Gregory 2018 5 / 6 Green 2018 7 / 7 Liu 2018 11 / 14 Li 2018 26 / 28 Raje 2019 28 / 33 Li 2019 9 / 9 Cohen 2019 12 / 25 Han 2019 11 / 13 Li 2019 10 / 12 Popat 2019 6 / 11 167 / 209 274 / 350	0.08 0.58 0.88 0.70 0.08 0.88 0.95 0.72 0.57 0.80 0.96 0.94 0.99 0.93 0.85 0.93 0.85 0.93 0.85 0.93 0.85 0.93 0.85 0.93 0.85 0.93 0.88 0.93 0.88 0.94 0.88 0.96 0.88 0.96 0.88 0.96 0.96 0.96 0.96 0.96 0.96 0.96 0.96	0.01 0.39 0.76 0.38 0.01 0.63 0.73 0.51 0.23 0.31 0.42 0.50 0.62 0.34 0.37 0.46 0.51 0.76 0.68 0.53 0.30 0.55 0.52 0.52 0.68	0.62 0.75 0.94 0.90 0.62 0.97 0.86 0.97 0.86 0.98 1.00 0.86 0.98 1.00 0.93 0.98 0.98 0.96 0.96 0.96 0.96 0.96 0.96	0.10 0.43 0.00 0.22 0.10 0.01 0.00 0.04 0.71 0.21 0.10 0.05 0.02 0.37 0.14 0.05 0.00 0.04 0.05 0.00	0.00 0.50 1.00
	Group by Country Eastern Western Witticenter Multicenter Single center Single ce	Country	Country	Statistics Country Total Total Total Country Total Eastern Country Total Eastern Country Total Eastern Country Total Eastern Country Count	Country	Country

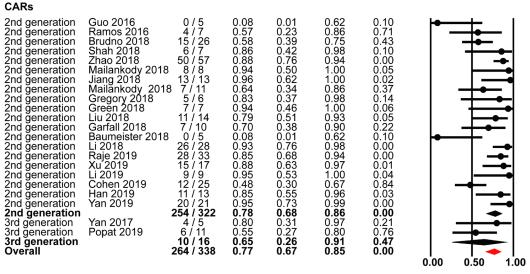
D. scFv origin

Human Human Human Human Human Human Human Human Non-human	Guo 2016 Mailankody 2018 Jiang 2018 Mailankody 2018 Gregory 2018 Green 2018 Li 2019 Cohen 2019 Ramos 2016 Yan 2017 Brudno 2018 Shah 2018 Liu 2018 Liu 2018 Li 2018 Liu 2018 Liu 2018 Liu 2019 Yan 2019 Yan 2019	13 / 13	0.08 0.94 0.96 0.83 0.94 0.74 0.58 0.58 0.79 0.88 0.79 0.88 0.85 0.85 0.83 0.83	0.01 0.50 0.62 0.34 0.37 0.46 0.53 0.30 0.53 0.31 0.39 0.42 0.76 0.68 0.63 0.573 0.72 0.71	0.62 1.00 0.86 0.98 1.00 0.67 0.87 0.97 0.75 0.94 0.93 0.94 0.97 0.96 0.97 0.96 0.97	0.10 0.05 0.02 0.37 0.14 0.06 0.04 0.84 0.03 0.71 0.43 0.10 0.05 0.00 0.00 0.01 0.03 0.00 0.00 0.00	-		11. L11 L &+11+411.
Overall		2317312	0.00	0.7 1	0.07	0.00	0.00	0.50	1.00

Co-stimulatory domain

┗.	_									
	4-1BB CD28 CD28 CD28 CD28 Overall	Ramos 2016 Brudno 2018 Li 2018	0 / 5 6 / 7 50 / 57 8 / 8 13 / 13 7 / 11 5 / 6 7 / 7 11 / 10 28 / 33 15 / 17 9 / 9 12 / 25 11 / 13 209 / 21 209 / 25 4 / 7 15 / 26 4 / 7 45 / 26 45 / 317	0.86 0.868 0.996 0.683 0.970 0.858 0.949 0.770 0.858 0.9485 0.9558 0.955	0.01 0.426 0.750 0.624 0.377 0.451 0.388 0.683 0.553 0.713 0.723 0.745 0.70	0.62 0.98 1.00 1.00 0.98 1.00 0.98 1.00 0.99 0.99 0.97 0.99 0.89 0.75 0.99 0.85 0.98 0.85 0.98	0.10 0.10 0.00 0.05 0.02 0.37 0.04 0.05 0.02 0.00 0.01 0.04 0.84 0.00 0.00 0.01 0.04 0.04 0.05 0.00 0.01 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.02 0.03 0.04 0.04 0.05 0.05 0.00	0.00	0.50	1.00

F. CARs



G. Antigen target

H. CAR-T regimen

CAR-T therapy mode

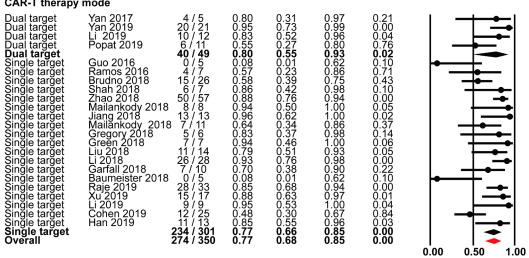
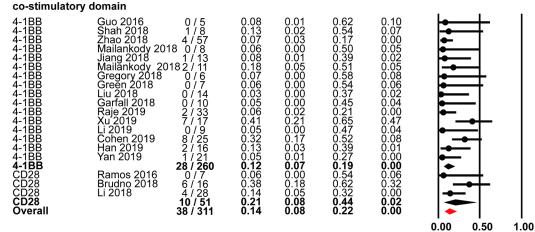


Figure S2 Subgroup analysis of CRS grade 3-4 for RRMM with CAR-T.

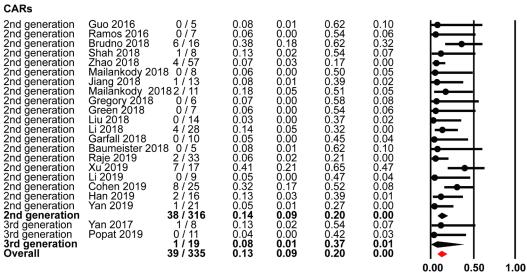
		<u> </u>				_
, ,	Study name			•		Event rate and 95% CI
Eastern Western	Guo 2016	0.08 0.13 0.07 0.03 0.14 0.41 0.05 0.13 0.05 0.33 0.14 0.06 0.38 0.13 0.06 0.08 0.18 0.07 0.06 0.08 0.18 0.07	0.01 0.02 0.03 0.00 0.05 0.21 0.00 0.03 0.01 0.13 0.08 0.00 0.01 0.05 0.00 0.01 0.05 0.00 0.01 0.05 0.00 0.01 0.05 0.00 0.05	0.62 0.54 0.17 0.37 0.32 0.65 0.47 0.62 0.24 0.62 0.54 0.54 0.59 0.51 0.58 0.54 0.62 0.54 0.52 0.54 0.52 0.54 0.52 0.54 0.52 0.54 0.52 0.54 0.52 0.53 0.55 0.55 0.55 0.55 0.55 0.55 0.55	p-Value 0.10 0.07 0.00 0.02 0.00 0.47 0.04 0.00 0.26 0.00 0.32 0.07 0.05 0.08 0.05 0.08 0.06 0.10 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.50 1.00
Trial site Multicenter Multicenter Multicenter Multicenter Multicenter	Ramos 2016 0 / 7 Brudno 2018 6 / 16 Shah 2018 1 / 8 Zhao 2018 4 / 57 Mailankody 2018 0 / 8	0.06 0.38 0.13 0.07 0.06	0.00 0.18 0.02 0.03 0.00	0.54 0.62 0.54 0.17 0.50	0.06 0.32 0.07 0.00 0.05	
Multicenter Multicenter Multicenter Multicenter Multicenter Multicenter Multicenter Multicenter Single center	Jiang 2018 1/13 Gregory 2018 0/6 Liu 2018 0/14 Raje 2019 2/33 Xu 2019 7/17 Popat 2019 0/11 Guo 2016 0/5 Yan 2017 1/8 Mailankody 20182/11 Green 2018 0/7 Li 2018 4/28 Garfall 2018 0/10 Baumeister 2018 0/5 Li 2019 0/9 Cohen 2019 8/25	0.08 0.07 0.03 0.06 0.41 0.04 0.13 0.08 0.13 0.18 0.06 0.14 0.05 0.05 0.05	0.01 0.00 0.00 0.02 0.21 0.00 0.07 0.01 0.02 0.05 0.00 0.05 0.00 0.01	0.39 0.58 0.37 0.21 0.65 0.42 0.23 0.62 0.54 0.51 0.32 0.45 0.62 0.47	0.02 0.08 0.02 0.00 0.47 0.03 0.00 0.10 0.07 0.05 0.06 0.00 0.04 0.10 0.04	
Single center Single center Single center Overall	Yan 2019 1 / 21 Li 2019 4 / 12 22 / 157 43 / 347	0.05 0.33 0.15 0.14	0.01 0.13 0.09 0.09	0.27 0.62 0.25 0.21	0.00 0.26 0.00 0.00	0.00 0.50 1.00
Trial status Completed Ongoing	Brudno 2018 6 / 16 Zhao 2018 4 / 57 Xu 2019 7 / 17 Garfall 2018 0 / 10 Guo 2016 0 / 5 Baumeister 2018 0 / 5 Yan 2019 1 / 21 18 / 131 Shah 2018 1 / 8 Mailankody 2018 0 / 8 Jiang 2018 1 / 13 Mailankody 2018 2 / 11 Gregory 2018 0 / 6 Green 2018 0 / 7 Liu 2018 4 / 28 Raje 2019 2 / 33 Li 2019 0 / 9 Cohen 2019 8 / 25 Han 2019 2 / 16 Ramos 2016 0 / 7 Yan 2017 1 / 8 Li 2019 4 / 12 Popat 2019 0 / 11 25 / 216 43 / 347	0.38 0.07 0.41 0.05 0.08 0.05 0.17 0.13 0.06 0.08 0.18 0.07 0.03 0.14 0.06 0.03 0.13 0.06 0.13 0.05	0.18 0.03 0.21 0.00 0.01 0.01 0.09 0.02 0.00 0.05 0.00 0.05 0.00 0.05 0.02 0.00 0.17 0.03 0.00 0.02 0.01 0.03	0.62 0.17 0.65 0.45 0.62 0.27 0.30 0.54 0.59 0.51 0.58 0.54 0.37 0.32 0.21 0.42 0.54 0.62 0.27	0.32 0.00 0.47 0.04 0.10 0.10 0.00 0.00 0.07 0.05 0.02 0.05 0.08 0.02 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.50 1.00
	Eastern Eastern Eastern Eastern Eastern Eastern Eastern Eastern Eastern Western Witicenter Multicenter Multicenter Multicenter Multicenter Multicenter Multicenter Multicenter Single center	Country	Country	Country	Croup by	Country



E. co-stimulatory domain



CARs F.



G. Antigen target

BCMA BCMA BCMA BCMA BCMA BCMA BCMA BCMA	Brudno 2018 Shah 2018 Zhao 2018 Mailankody 20 Jiang 2018 Mailankody 20 Gregory 2018 Green 2018 Liu 2018 Liu 2018 Raje 2019 Xu 2019 Li 2019 Cohen 2019 Han 2019 Guo 2016 Ramos 2016 Garfall 2018 Baumeister 20	1/13 0/182/11 0/6 0/7 0/14 4/28 2/33 7/17 0/9 8/25 2/16 37/268 0/5 0/10 0/10	0.38 0.13 0.07 0.06 0.08 0.18 0.07 0.06 0.03 0.14 0.05 0.32 0.13 0.16 0.08 0.05 0.09 0.05	0.18 0.02 0.03 0.00 0.01 0.05 0.00 0.00 0.05 0.02 0.21 0.00 0.17 0.03 0.10 0.01 0.00 0.00 0.00	0.62 0.54 0.17 0.50 0.39 0.51 0.58 0.54 0.37 0.65 0.47 0.52 0.39 0.65 0.45 0.45 0.45 0.45 0.45	0.32 0.07 0.00 0.05 0.02 0.08 0.06 0.02 0.00 0.47 0.04 0.04 0.01 0.00 0.10 0.04 0.04 0.01 0.00		
Overall		37 / 295	0.13	0.07	0.24	0.00	0.00 0.50	 1.00

H. CAR-T regimen

OAIX-1 Tegillien								
Anti-BCMA contained Anti-BCMA uncontained Overall	Guo 2016 Ramos 2016 Garfall 2018 Baumeister 2018	1/13 32/11 0/6 0/7 0/14 4/28 2/33 7/17 0/9 8/25 2/16 1/21 4/12 0/11 43/320 0/5 0/10	0.13 0.38 0.13 0.06 0.08 0.17 0.06 0.07 0.06 0.03 0.04 0.05 0.03 0.04 0.05 0.04 0.05 0.08 0.09 0.013	0.02 0.18 0.02 0.03 0.00 0.01 0.05 0.00 0.00 0.02 0.21 0.00 0.17 0.03 0.01 0.13 0.00 0.10 0.00 0.01 0.00 0.00	0.54 0.62 0.57 0.50 0.39 0.54 0.32 0.32 0.65 0.32 0.65 0.42 0.62 0.62 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.65 0.64 0.65 0.64 0.65	0.07 0.32 0.07 0.00 0.05 0.02 0.05 0.08 0.06 0.00 0.00 0.47 0.04 0.01 0.00 0.26 0.03 0.00 0.06 0.02 0.05 0.00	0.50	1.00

CAR-T therapy mode

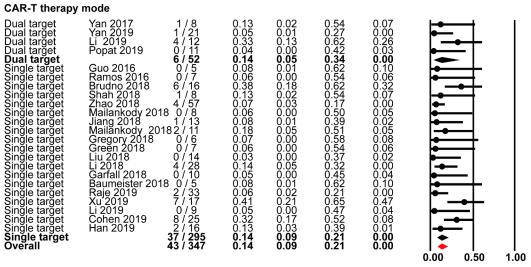
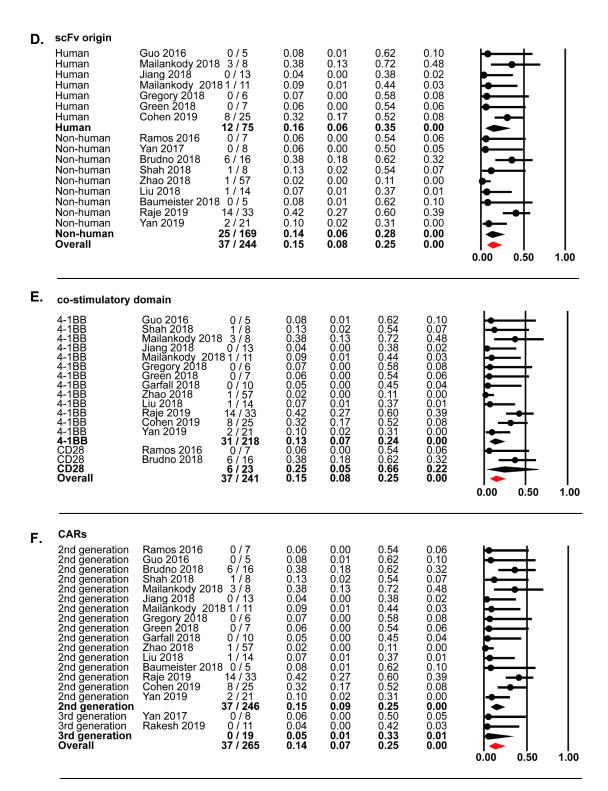


Figure S3 Subgroup analysis of NT for RRMM with CAR-T.

A.	Group by	Study name	Statisti	cs for eac	h study		Event rate and 95% CI
	Country Eastern Eastern Eastern Eastern Eastern Eastern Eastern Western	Total Guo 2016	Event rate 0.08 0.06 0.02 0.07 0.04 0.10 0.06 0.38 0.13 0.38 0.04 0.09 0.07 0.06 0.05 0.08 0.42 0.32 0.32 0.12	Lower limit 0.01 0.00 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.07 0.17 0.00 0.15 0.03	Upper limit 0.62 0.50 0.11 0.37 0.40 0.31 0.54 0.62 0.54 0.72 0.38 0.44 0.58 0.44 0.58 0.45 0.62 0.60 0.52 0.60 0.52 0.42 0.42 0.41	p-Value 0.10 0.05 0.00 0.01 0.03 0.00 0.06 0.32 0.07 0.48 0.02 0.03 0.08 0.06 0.04 0.10 0.39 0.08 0.03 0.08 0.03 0.00 0.00	0.00 0.50 1.00
B.	Trial site Multicenter Single center	Ramos 2016 0 / 7 Brudno 2018 6 / 16 Shah 2018 1 / 8 Zhao 2018 1 / 57 Mailankody 2018 3 / 8 Jiang 2018 0 / 13 Gregory 2018 0 / 6 Liu 2018 1 / 14 Raje 2019 14 / 33 Popat 2019 0 / 11 26 / 173 Guo 2016 0 / 5 Yan 2017 0 / 8 Mailankody 2018 1 / 11 Green 2018 0 / 7 Garfall 2018 0 / 10 Baumeister 2018 0 / 5 Cohen 2019 8 / 25 Yan 2019 2 / 21 Li 2019 0 / 12	0.06 0.38 0.13 0.02 0.38 0.04 0.07 0.07 0.42 0.04 0.15 0.08 0.09 0.06 0.05 0.08 0.32 0.10 0.04 0.13	0.00 0.18 0.02 0.00 0.13 0.00 0.01 0.27 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.17 0.00 0.01 0.00	0.54 0.62 0.54 0.11 0.72 0.38 0.37 0.60 0.42 0.62 0.50 0.44 0.54 0.62 0.52 0.31 0.40 0.23 0.22	0.06 0.32 0.07 0.00 0.48 0.02 0.08 0.01 0.39 0.00 0.10 0.05 0.03 0.06 0.04 0.10 0.08 0.04 0.09	0.00 0.50 1.00
C.	Trial status Completed Completed Completed Completed Completed Completed Completed Completed Ongoing	Brudno 2018 6 / 16 Zhao 2018 1 / 57 Garfall 2018 0 / 10 Guo 2016 0 / 5 Baumeister 2018 0 / 5 Yan 2019 2 / 21 9 / 114 Shah 2018 1 / 18 Mailankody 2018 3 / 8 Jiang 2018 0 / 13 Mailankody 2018 1 / 11 Gregory 2018 0 / 6 Green 2018 0 / 7 Liu 2018 1 / 14 Raje 2019 14 / 33 Cohen 2019 8 / 25 Ramos 2016 0 / 7 Yan 2017 0 / 8 Li 2019 0 / 12 Popat 2019 0 / 11 28 / 163 37 / 277	0.38 0.02 0.05 0.08 0.10 0.10 0.13 0.38 0.04 0.07 0.06 0.07 0.42 0.32 0.06 0.04 0.04 0.04	0.18 0.00 0.00 0.01 0.02 0.04 0.02 0.13 0.00 0.01 0.00 0.01 0.27 0.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.62 0.11 0.45 0.62 0.31 0.25 0.54 0.72 0.38 0.44 0.58 0.54 0.54 0.55 0.54 0.54 0.54 0.52 0.54 0.52 0.54 0.52 0.54	0.32 0.00 0.04 0.10 0.00 0.00 0.07 0.48 0.02 0.03 0.08 0.06 0.01 0.39 0.06 0.05 0.03 0.03 0.05	0.00 0.50 1.00



G. Antigen target

BCMA BCMA	Brudno 2018 Shah 2018	6 / 16 1 / 8	0.38 0.13	0.18 0.02	0.62 0.54	0.32 0.07		
BCMA	Zhao 2018	1 / 57	0.02	0.00	0.11	0.00	┝	
BCMA	Mailankody 201		0.38	0.13	0.72	0.48	 	- 1
BCMA	Jiang 2018	0 / 13	0.04	0.00	0.38	0.02	-	- 1
BCMA	Mailankody 201		0.09	0.01	0.44	0.03		- 1
BCMA	Gregory 2018	0/6	0.07	0.00	0.58	0.08	+ − +	- 1
BCMA	Green 2018	0/7	0.06	0.00	0.54	0.06	•	- 1
BCMA	Liu 2018	1 / 14	0.07	0.01	0.37	0.01	•—	- 1
BCMA	Raje 2019	14 / 33	0.42	0.27	0.60	0.39	-• -	- 1
BCMA	Cohen 2019	8 / 25	0.32	0.17	0.52	0.08	 	- 1
BCMA		35 / 198	0.19	0.11	0.31	0.00	•	- 1
Non-BCMA	Guo 2016	0/5	0.08	0.01	0.62	0.10	₩	- 1
Non-BCMA	Ramos 2016	0/7	0.06	0.00	0.54	0.06	▶	- 1
Non-BCMA	Garfall 2018	0 / 10	0.05	0.00	0.45	0.04	•——	- 1
Non-BCMA	Baumeister 201		0.08	0.01	0.62	0.10	-	- 1
Non-BCMA		0 / 27	0.07	0.01	0.26	0.00	←	- 1
Overall		35 / 225	0.14	0.05	0.32	0.00	-	- 1
							0.00 0.50	1.00

CAR-T regimen

Anti-BCMA contained Anti-BCMA contained Anti-BCMA contained Anti-BCMA contained	Yan 2017 Brudno 2018 Shah 2018 Zhao 2018	0/8 6/16 1/8 1/57	0.06 0.38 0.13 0.02	0.00 0.18 0.02 0.00	0.50 0.62 0.54 0.11	0.05 0.32 0.07 0.00	=	=	
Anti-BCMA contained	Mailankody 201	8 3/8	0.38	0.13	0.72	0.48		•—	
Anti-BCMA contained Anti-BCMA contained	Jiang 2018 Mailankody 20		0.04 0.09	0.00 0.01	0.38 0.44	0.02 0.03		-	
Anti-BCMA contained Anti-BCMA contained	Gregory 2018 Green 2018	0/6 0/7	0.07 0.06	0.00 0.00	0.58 0.54	0.08 0.06	=	#	
Anti-BCMA contained Anti-BCMA contained	Liu 2018 Raie 2019	1 / 14 14 / 33	0.07 0.42	0.01 0.27	0.37 0.60	0.01 0.39	├		
Anti-BCMA contained Anti-BCMA contained	Cohen 2019 Yan 2019	8 / 25 2 / 21	0.32 0.10	0.17 0.02	0.52 0.31	0.08 0.00		$\dot{\dashv}$	
Anti-BCMA contained	Li 2019	0/12	0.04	0.00	0.40	0.03		-	
Anti-BCMA contained Anti-BCMA contained	Popat 2019	0 / 11 37 / 250	0.04 0.15	0.00 0.09	0.42 0.25	0.03 0.00	•	-	
Anti-BCMA uncontained Anti-BCMA uncontained	Guo 2016 Ramos 2016	0 / 5 0 / 7	0.08 0.06	0.01 0.00	0.62 0.54	0.10 0.06	:	#	
Anti-BCMA uncontained Anti-BCMA uncontained	Garfall 2018 Baumeister 201	0/10 8 0/5	0.05 0.08	0.00 0.01	0.45 0.62	0.04 0.10			
Anti-BCMA uncontained		0 / 27 37 / 277	0.07 0.13	0.01 0.08	0.27 0.23	0.00			
		31 / 211	0.13	0.00	0.23	0.00	0.00	0.50	1.00

CAR-T therapy mode I.

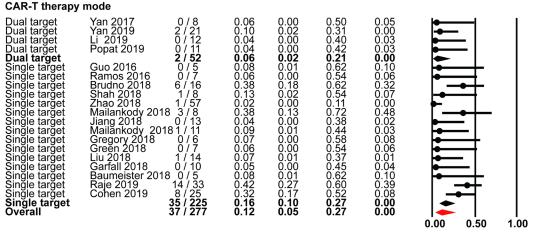


Figure S4:
Funnel plot for RRMM with CAR-T reporting Overall Response (A), Complete Response (B), MRD negativity (C), Relapse at last follow-up (D), Overall Survival at last follow-up (E), CRS (F) and NT (G).

