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4E

2019-002

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CD19 CAR-T CD33 CAR-T 46

5800 C96

T, ATA, , G, 0

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G6(E , G6(E ,

20, G,

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4STCG

7C1T/7

CG1T/-C1)

T6C

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CD19 CAR-T

CD33 CAR-T 46T, ATA, , G1T/

CAR-T

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5800 C96 C

A, CA

[2018]1 1161

CAR-T TA

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CEC!

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)G9S4-

C(

21. 642%6

G6(G2

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 B1
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 649
 7 G6(6E 12 G6(
 G6(20, G, G6(E 3000 E
 E4AC4 5% G6(6
 A
 4
 1 M2G6(STCGT/S
 T
 20
 49S P T/ 233 A10 74
 1101-25
 S T6C1)
 498CACM, CA49M,
 /649, M, 49A
 C
 S T0 2018 4 260CGA
 CG, OAG4 SEG080 2018 10 18
 ST ST6C1)0/G1)
 ACG, OAG4 P10681040A 2018
 5 14 ST6C1)1), /GST
 CG ()
 ST,C 1M6
 , G2 , G6(G2
 2G6(7C
 20
 49 PEC 116 2 P

11

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4987CGC1)A

70	2018	9	14	C1)
2017 4			A C	161.60 ,C
19.94	2017 99		220.98	-130.55

78G7SM, G!

, C, 1M6, G2

3G6 (CG

20

49 ORC 1 A 2019P0

! /

C1))

498CC1)M, 6C

0	2015	12	23	20174	A
C	7, 248.96	, C	7, 208.96	2017 99	0
	2.97				

8 G7S M, G!

7)G ,

C , 1M6, G2

4M2G6(-C1)T/-

20

49 3S, -64

C

498M, CC1)C1)CA1)

CA

-0	2016	2	23	2017 4	A C
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18,009 , C 18,009 2017 99 0
 -54
 - ,C, 1M6
 , G2 , G6 (G2
 5M2G6 (T6TT/
 T
 20
 49-3, C 128 25 6 205-2
 8C
 4986C, GCA
 8C
 T0 2017 5 16 2017 4 A C
 300.83 , C 0 2017 99 0
 0.17
 T,C 1M6
 , G2 , G6 (G2
 6M2G6 (7E (/TT/
 7E
 20
 494T/A 88 6 3 P 10
 22
)
 49816TTSTATTEA
)
 7E0 2018 5 30 7E,
 C , 1M6, G2 , G6 (G2
 7M2G6 ((/T 1T/ ,
 20

23

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498 ! 46TTSTATTEA

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, 0 2018 5 30 , ,

C, 1M6, G2

, G6 (G2

G6 (, ,

C, , (/T

/ (/T

20

C 2, 000 !

P8))

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)

498/-0T (TE

C (64

6 /	C !	6!
7E	1, 080	54%
,	920	46%
A	2, 000	100. 00%

C (64

6/	C!	6!
7E	1, 080	24. 180%
,	920	20. 597%
	966. 6667	21. 642%
S T	500	11. 194%
7	500	11. 194%
	166. 6667	3. 731%

(8) 7E (/T
(9), (/T
2 - 7/C 2TC 3 - 7
/CGC 8 - 9/6
15 C
2.1 CTC65C)
68. A C, ACSA5
4, GA4, , CC
C) 6CS
2.2 CC
CC! 4, 466. 6668 C
A 14, 8000 C/G.
55. 223%, C
2.2.1 CAR-T T,
, CD19 CAR-T ž CD33 CAR-T 4668
~~6668~~ CAR-T, ~~6668~~
C,X CAR-T ~~6668~~ 5, 800
4A [2018]1 1161 CA1
CAR-T TA 6, 600. 11 C C! 800. 11
)G9S4- 966. 6667 A5C
-E9C/ C/G. 21. 642%, 6
2.2.2 ST)GC 3, 000 500 A5C
-E9C/ C/G. 11. 194%
, 6
2.2.3 7)GC 3, 000 500 A5C
-E9C/ C/G. 11. 194%
, 6
2.2.4)GC 1, 000 166. 6667 A5

2.4.1

3. 731%, 6

2. 2. 5 -)GC 1, 000 166. 6667 A5

C-E9C/ C /G.

3. 731%, 6

2. 2. 6 T)GC 1, 000 166. 6667 A5

C-E9C/ C /G.

3. 731%, 6

2. 4 , 6 4

2. 4. 1 C64

6/	C!	6!
7E	1,080	54%
,	920	46%
A	2,000	100%

2. 4. 2 C)6C76, !

	6/	C!	6!
1	7E	1, 080	24. 180%
2	,	920	20. 597%
3		966. 6667	21. 642%
4	ST	500	11. 194%
5	7	500	11. 194%
6		166. 6667	3. 731%
7	-	166. 6667	3. 731%
8	T	166. 6667	3. 731%
	A	4, 466. 6668	100%

2. 7 C

2. 7. 1 06 CC

[

(1) C, MM (]!
C, G, , 0A48)
(2) C7 6, M
(3))6CE1R5CA6A
4A, 00A5, 4C

(4) AG1), 1R5, C
A0]-AA, D]5,
, G1), 6 A1, /C

(5))67 C, AC, M6A
(6) CCM65E-. 54, CD
, 5CG1C

(7))61R5, M6A. AAE
A C, ., A15E5
, 0

2. 7. 2 CA1 2. 7. 1 5[, 8
, C CA1 2. 2 54, C9

2. 7. 3 CA1 2. 7. 1 5[, 5
C 3 CAR-T T, A09C
/A092,)44, CAR-T
TA1A09C 1 C 15 0
CAR-T T, , GTC4(1R5T
) 2 CAR-T T, A4C 3
CAR-T T] , A 201510233748. 0
2015103629344(, G/C
S

2. 7. 4 CAR-T T, OCA1 CAR-T
T, A 6, 600. 11 AC 5, 800 , G 800. 11

~~TOP SECRET~~

CAR-T T, A09CG 2. 7. 3 5E
. 2019 3 31 A1TC9S!
2019 3 31 A09C,(
TC 9S!
2. 7. 5 C, CE CAR-T TE7
D. CCGCCG
C5CGCA471
CTCC, CAR-T T
4 2. 7. 3 54E7C7CA1
CA, 4E91, , G!
S06,TC
G1 2. 7. 3 5E, CAR-T T, A09C
S6A4, (M641
2. 7. 6 CE1 2. 7. 2 5 2. 7. 3 5, 4C
T096E4, C6
15 C, 5
3. 1 8M2CM6 A1 2. 2 5l 2. 7. 2 5
1 2. 7. 3 5E, C5C C
E
(1)) 6CE1R5 4, CA
0A, 4C
(2) 6, GEEM C, 64
A, 0/. 7D, , A
(3) AG1), , E1R
5CA0]-AA
C, (0
(4),), , /6 C
49 C, 6, EG E

Ä

(5)) 6A0, EA0

CGM6,, G

(6) E C, G, M

70MEEAM, C

3. 2 AA,

3 SE5

, , 8A

3. 3 CE54CEC

, 57

CAC, EC

, A1 G-CE5, !

IA 3. 1 5, 4E5

15 C, E0

4. 2 67

CC0/6/7

(3) 7447A, MEDEEA

4, 8

4. 3 ,

A, A (1),

15

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(3) 8 (0, G
, G CAR-T T, 4A749
)6) 6, 49
7P41), , 7E9

CAR-T T, 9C

(4) ((05%SA8M247
C, 4)C, 6CE

25%

S 5. 245M, 8

1A5 C, 6

6. 6 C

6. 6. 1 A7C C, M, A

A, S 6 CA, A, 0

(, 0)

6. 6. 2 E, C-E6

,) /C, , 6

)6G!

1C C (7)6, 0

C

2)6GE47E IPO G

E6E 9%,

6. 6. 3 CC! 8%)) [A1, 3/

, E6, G! (8A1CC, E6

4A1)C4, 43AG

, 4C4E, 1

6. 6. 4 C66)]

8, 6EA44AS

A, 6 , 6], AM,

6. 6. 5 CAM6C A CD

C7u /67C77

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/A777 C7777 /

9S4C

15 E4

11. 1)EAMESAAGE4

OGASE4) EA7S

S)C) 3E4E) C3

E47C 4CE, 3C(S4

11. 2)EAM, SAA

, C. 7SAM, , ,

6)4) 8A) 8A

G-4)EAE4449 A

11. 3 AA1

11. 2 5, 87

8A, M6E-

CAM, G8

A8,8449 A

E

15 E]A

13. 1 E

A, G9 E

13. 2]A

13. 2. 1)4GAA, GE46,]

AA]AEEA1]A,)

E A1, M6A0GEA1E-

CA (60)]A6EA1]A)

4E

-, AA

13. 2. 2 76,

E M6604,

426

13. 2. 3 A, 4E 8MA

M68M], 449

AM, SAM,

G6(, ,, ,E

9C(- 6

CAR-T AA

P1, T6

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1/E2,E96PA 9C(-PME CAR-T ,.EC (C

, CD19 CAR-T

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 TãXE È 67M ð ž E
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 ONIGM,ANA,
 @ 71 A ANGMY
 B
 1 , CAR-T T C96 (/T
 P CAR-T ,) [S EE
 9/C , GT9C(, -0E99MD!
 8T, 469C(49CE/ ,)G9!
 9C(-. E, 63
 2 6, A CA , CD19-CART
 CD33-CART46T, ATA, , G E A CA
 AC, C, G6(G2
 , 8 C,) , , G2 (CE ,
 A07(0, C CA. A, A
 0), 36, , 6
 3 C(, 6CG
 7CC1
)7SM, GG,
 CG7)G
 A6/ , CG6(E
 C G6(M, /G6(77S
 A, 0G0/,
 8AEG6(, 36, , 6

~~AM~~

(7 CAR-T 9CE9EP
, 9C95C, C]
TAE, OA14.
94, TC9S!
9CG(TC1)4P, /C6 4)
E9(, E)7P41
)3/6E (, 491)E

2019 3 31,

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(M8

Ê 1Ö # ~~07684~~

Ê 2Ö ~~07684~~

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8 #61B

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