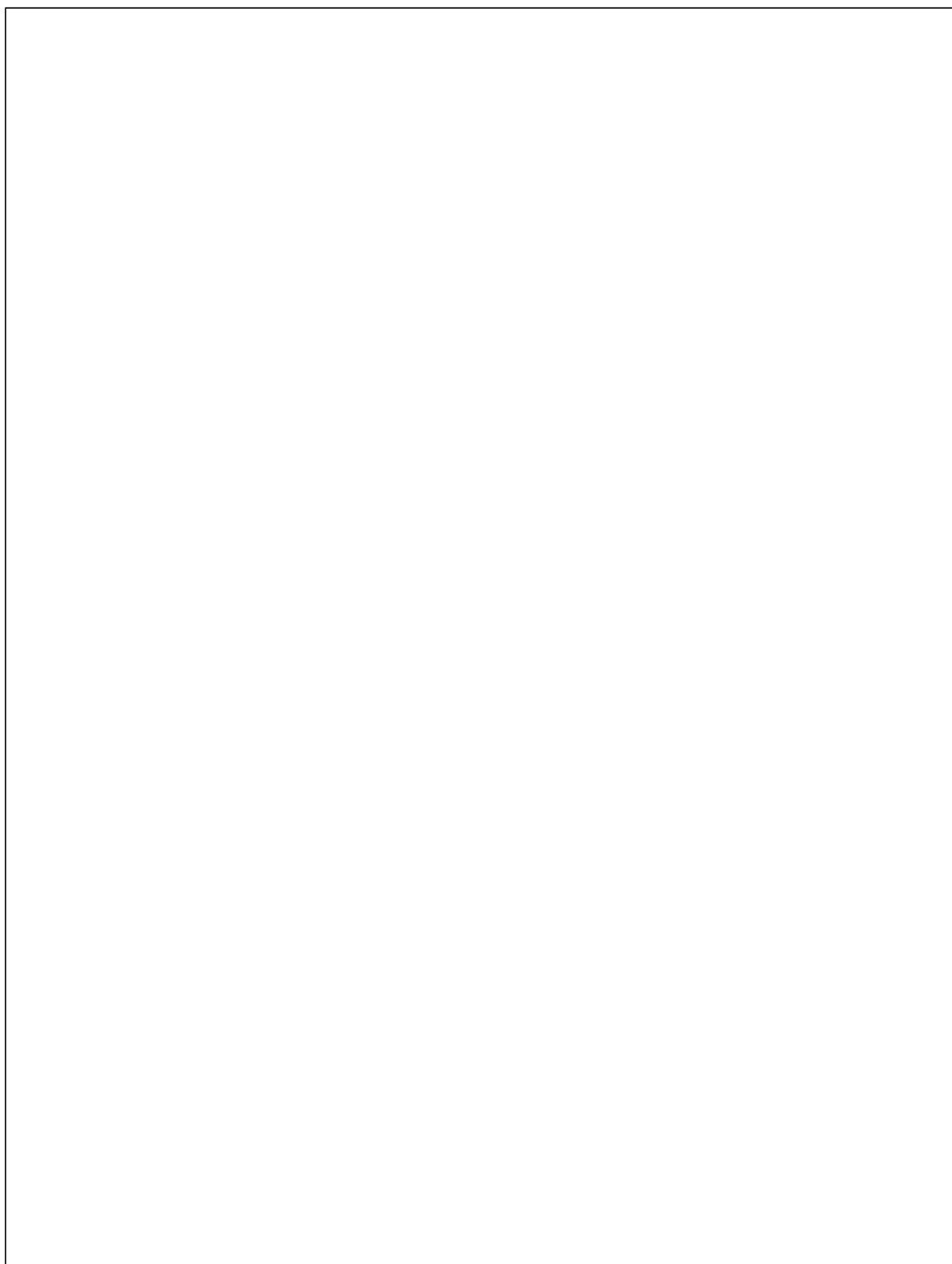


2021 03 30

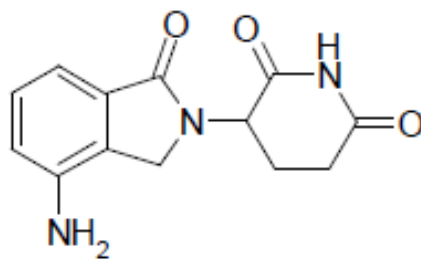
2021 06 17



Lenalidomide Capsules

Lainadu'an Jiaonang

3- 4- -1- -1,3- -2H- -2- -2,6-



$C_{13}H_{13}N_3O_3$

259.26

5mg 10mg

$<25 \times 10^9/L$

5mg

- ANC

$< 0.5 \times 10^9/L$

ANC $< 1 \times 10^9/L$

15

7

15

28

G-CSF

$<0.5 \times 10^9/L$

5mg

G-CSF

-

- ANC 1,000/ μ L

μ L

3/4

7

15

28

<60 mL/min

| | |
|--------------------|---|
| | |
| mL/min | mg/ 28 1 21 25 |
| mL/min < 60 mL/min | mg/ 28 1 21 10 |
| < 30 mL/min | mg/ 28 1 3 5 7 9 11 13 15 17 19 21 15 mg/ 3 |
| < 30 mL/min | mg/ 28 1 21 5 |

^d Cockcroft-Gault

^e 10mg 10mg 15mg 3 2

1 21 <30mL/min 15mg 3/4 28

| | |
|----|------------|
| | |
| | 1 21 15 mg |
| -1 | 1 21 10mg |
| -2 | 1 21 5 mg |

1

2

L

L

2

4

2 3

Rd 6 0.7%

9.6%

4 Rd Rd 18 MPT

| | | | | | | |
|--------|------------|------------|------------|------------|------------|------------|
| | | | | | | |
| | | | | | | |
| % | 173 (32.5) | 177 (32.8) | 154 (28.5) | 39 (7.3) | 46 (8.5) | 31 (5.7) |
| | 150 (28.2) | 123 (22.8) | 124 (22.9) | 41 (7.7) | 33 (6.1) | 32 (5.9) |
| c | 114 (21.4) | 102 (18.9) | 76 (14.0) | 13 (2.4) | 7 (1.3) | 7 (1.3) |
| f | 29 (5.5) | 31 (5.7) | 18 (3.3) | <1% | <1% | <1% |
| | | | | | | |
| | 242 (45.5) | 208 (38.5) | 89 (16.5) | 21 (3.9) | 18 (3.3) | 8 (1.5) |
| %, f | 109 (20.5) | 78 (14.4) | 60 (11.1) | 7 (1.3) | 9 (1.7) | <1% |
| f | 57 (10.7) | 28 (5.2) | 36 (6.7) | <1% | <1% | 0 (0.0) |
| | | | | | | |
| c | 170 (32) | 145 (26.9) | 116 (21.4) | 37 (7) | 34 (6.3) | 28 (5.2) |
| f | 109 (20.5) | 102 (18.9) | 61 (11.3) | <1% | <1% | <1% |
| f | 101 (19.0) | 71 (13.1) | 66 (12.2) | 9 (1.7) | 8 (1.5) | 8 (1.5) |
| f | 87 (16.4) | 77 (14.3) | 62 (11.5) | 16 (3.0) | 15 (2.8) | 14 (2.6) |
| f | 79 (14.8) | 66 (12.2) | 61 (11.3) | 8 (1.5) | 8 (1.5) | 7 (1.3) |
| f | 67 (12.6) | 59 (10.9) | 36 (6.7) | <1% | <1% | <1% |
| f | 60 (11.3) | 51 (9.4) | 39 (7.2) | 6 (1.1) | <1% | <1% |
| f | 43 (8.1) | 35 (6.5) | 29 (5.4) | <1% | 8 (1.5) | <1% |
| f | 40 (7.5) | 19 (3.5) | 10 (1.8) | <1% | <1% | <1% |
| | | | | | | |
| c | 90 (16.9) | 59 (10.9) | 43 (7.9) | 9 (1.7) | 6 (1.1) | 3 (0.6) |
| f | 80 (15) | 54 (10) | 33 (6.1) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| f | 76 (14.3) | 63 (11.7) | 41 (7.6) | 8 (1.5) | 8 (1.5) | <1% |
| c,%, f | 69 (13.0) | 53 (9.8) | 31 (5.7) | <1% | 8 (1.5) | <1% |
| c, @ | 93 (17.5) | 87 (16.1) | 56 (10.4) | 60 (11.3) | 57 (10.5) | 41 (7.6) |
| % | 35 (6.6) | 25 (4.6) | 21 (3.9) | 7 (1.3) | 4 (0.7) | 1 (0.2) |
| f | 33 (6.2) | 23 (4.3) | 15 (2.8) | <1% | <1% | 0 (0.0) |
| f | 32 (6.0) | 17 (3.1) | 13 (2.4) | 0 (0.0) | <1% | <1% |
| | 29 (5.5) | 14 (2.6) | 16 (3.0) | 10 (1.9) | 3 (0.6) | 3 (0.6) |
| f | 29 (5.5) | 24 (4.4) | 14 (2.6) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| c | <5% | <5% | <5% | 8 (1.5) | 3 (0.6) | 2 (0.4) |
| c, @ | 33 (6.2) | 26 (4.8) | 18 (3.3) | 26 (4.9) | 20 (3.7) | 13 (2.4) |
| | | | | | | |
| f | 75 (14.1) | 52 (9.6) | 56 (10.4) | <1% | <1% | <1% |
| f | 39 (7.3) | 45 (8.3) | 22 (4.1) | <1% | 0 (0.0) | <1% |
| | | | | | | |
| | 233 (43.8) | 193 (35.7) | 229 (42.3) | 97 (18.2) | 85 (15.7) | 102 (18.9) |
| | 186 (35.0) | 178 (33) | 328 (60.6) | 148 (27.8) | 143 (26.5) | 243 (44.9) |

| | | | | | | |
|-----|------------|------------|------------|----------|----------|-----------|
| | | | | | | |
| | 104 (19.5) | 100 (18.5) | 135 (25.0) | 44 (8.3) | 43 (8.0) | 60 (11.1) |
| | 7 (1.3) | 17 (3.1) | 15 (2.8) | 6 (1.1) | 16 (3.0) | 14 (2.6) |
| | 5 (0.9) | 6 (1.1) | 7 (1.3) | 1 (0.2) | 3 (0.6) | 5 (0.9) |
| | | | | | | |
| f | 121 (22.7) | 94 (17.4) | 68 (12.6) | < 1% | < 1% | < 1% |
| c,e | 117 (22.0) | 89 (16.5) | 113 (20.9) | 30 (5.6) | 22 (4.1) | 18 (3.3) |
| f | 32 (6.0) | 31 (5.7) | 17 (3.1) | < 1% | < 1% | 0 (0.0) |
| f | 30 (5.6) | 22 (4.1) | 14 (2.6) | 0 (0.0) | | |

| | | | | | |
|-----------------|-------|--------|--|----|-------|
| | | | | / | |
| ^a Rd | Rd 18 | 5.0% | | Rd | Rd 18 |
| | 2.0% | | | | MPT |
| ^b Rd | Rd 18 | 1.0% | | Rd | Rd 18 |
| | 1.0% | 3 /4 | | | MPT |
| ^c Rd | Rd 18 | 1.0% | | Rd | Rd 18 |
| | 1.0% | | | | MPT |
| ^d | Rd | /Rd 18 | | | |

e "a"

f "b"

@_

%_

*

| | | | | | |
|-------|-----|------|------|--------|--------|
| | 2 | | III | MM-009 | MM-010 |
| | | 28 | 1 21 | | 25mg |
| | 4 | 28 | | 1 4 | 9 12 |
| 17 20 | | | 40mg | 28 | |
| | 1 4 | | 40mg | | |
| | | | | / | 353 |
| | / | 350 | 703 | / | |
| | | 44.0 | | / | 23.1 |

/

39.7% / 70.4%

/ 325 92%

/ 288 82%

-
- 4

43.9% 42.2%

40.5% 38.5% 33.4% 31.4%

21.5% 21.2%

/ 269 76%

/

199 57%

/ 50%

/ 21%

/ 3/4

/

5 6 7 / /

| | | |
|---|----------|----------|
| | | |
| | | |
| % | 149 42.2 | 22 6.3 |
| @ | 111 31.4 | 83 23.7 |
| @ | 76 21.5 | 37 10.6 |
| | 28 7.9 | 4 1.1 |
| | 19 5.4 | 5 1.4 |
| | | |
| | 155 43.9 | 146 41.7 |
| | 97 27.5 | 82 23.4 |
| | 93 26.3 | 74 21.1 |

| | | |
|---|----------|---------|
| | | |
| | 29 8.2 | 20 5.7 |
| | 24 6.8 | 8 2.3 |
| | | |
| | 143 40.5 | 74 21.1 |
| @ | 136 38.5 | 96 27.4 |
| @ | 92 26.1 | 75 21.4 |
| @ | 43 12.2 | 33 9.4 |
| @ | 35 9.9 | 22 6.3 |
| | 25 7.1 | 13 3.7 |
| | | |
| | 118 33.4 | 74 21.1 |
| | 91 25.8 | 65 18.6 |
| | 48 13.6 | 39 11.1 |
| | 42 11.9 | 32 9.1 |
| | | |
| | 82 23.2 | 59 16.9 |
| | 75 21.2 | 26 7.4 |
| | 54 15.3 | 34 9.7 |
| | 36 10.2 | 25 7.1 |
| | 23 6.5 | 13 3.7 |

g

"

| | | |
|---|---------|---------|
| | | |
| | 69 19.5 | 52 14.9 |
| | | |
| | 61 17.3 | 40 11.4 |
| | | |
| % | 33 9.3 | 15 4.3 |
| | 28 7.9 | 20 5.7 |
| | 25 7.1 | 15 4.3 |

| | | |
|---|----------|--------|
| | | |
| | | |
| % | 118 33.4 | 12 3.4 |
| @ | 43 12.2 | 22 6.3 |
| @ | 35 9.9 | 20 5.7 |
| | 14 4.0 | 1 0.3 |
| | 10 2.8 | 4 1.1 |
| % | 8 2.3 | 0 0.0 |
| | | |
| | 23 6.5 | 17 4.9 |
| | | |
| % | 29 8.2 | 12 3.4 |
| | | |
| @ | 30 8.5 | 19 5.4 |
| | 5 1.4 | 1 0.3 |
| | | |
| | 17 4.8 | 5 1.4 |
| | 13 3.7 | 6 1.7 |
| | 9 2.5 | 0 0.0 |
| | | |
| @ | 14 4.0 | 3 0.9 |
| @ | 4 1.1 | 0 0.0 |
| | | |
| | 20 5.7 | 10 2.9 |
| | | |
| @ | 11 3.1 | 4 1.1 |
| | 7 2.0 | 1 0.3 |
| @ | 6 1.7 | 2 0.6 |
| | | |
| @ | 13 3.7 | 4 1.1 |
| | 6 1.7 | 1 0.3 |

| | | |
|---|--------|-------|
| | | |
| @ | 5 1.4 | 1 0.3 |
| | | |
| | 10 2.8 | 3 0.9 |
| | 7 2.0 | 3 0.9 |
| | | |

6

II

MM-021 28 1 21
 25mg 28 1 8 15
 22
 8 9 10 MM-021
 199 69 34.7%
 69 29 14.6%
 3/4
 •
 •
 121/199 60.8% 82/199
 41.2% 71/199 35.7%
 66/199 33.2%

| | |
|--|------------|
| | |
| | |
| | |
| | |
| | 121 (60.8) |
| | 71 (35.7) |
| | 43 (21.6) |
| | 35 (17.6) |
| | |
| | 82 (41.2) |
| | 66 (33.2) |
| | 43 (21.6) |

| | | | |
|--|---------|-------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | 4 2.0 | 0 0.0 | 4 2.0 |
| | | | |
| | 25 12.6 | 1 0.5 | 26 13.1 |
| | 8 4.0 | 0 0.0 | 8 4.0 |
| | | | |

| | |
|--|-------|
| | |
| | |
| | 7 3.5 |
| | 4 2.0 |
| | 2 1.0 |
| | 1 0.5 |
| | |
| | 6 3.0 |
| | 2 1.0 |
| | 1 0.5 |
| | 1 0.5 |
| | |
| | 2 1.0 |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | |
| | 3 1.5 |
| | 2 1.0 |
| | 1 0.5 |
| | |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | |
| | 4 2.0 |
| | |
| | 1 0.5 |
| | 1 0.5 |
| | 1 0.5 |
| | |
| | 2 1.0 |
| | |
| | 1 0.5 |
| | 1 0.5 |
| | |
| | 1 0.5 |
| | |

| | |
|--|-------|
| | |
| | |
| | 1 0.5 |

SAE=

a 1

b

VTE [DVT PE]

ATE

MM-009 MM-010

/ DVT 7.4%
8.2% / 3.1% 3.4%

MM-020 Rd Rd 18 MPT DVT

10.3% 7.2% 4.1% DVT 3.6% 2.0% 1.7%

3 /4 DVT 5.6% 3.7% 2.8% Rd Rd 18 DVT

1% Rd Rd 18 DVT

2.3% 1.5%

MM-009 MM-010

/ 3.7% 3/4 4.0%

/ 0.9% 3/4

MM-020 Rd Rd 18 MPT PE

3.9% 3.3% 4.3% PE 3.8% 2.8% 3.7% PE

3 /4 3.8% 3.0% 3.7%

/ 1.7%

1.7% / 0.6% 0.6%

/ 0.8% /

0 MM-020 Rd Rd 18 MPT

2.4% 0.6% 1.1%

2.3% 0.6% 1.1%

1.9% 0.6% 0.9%

/

CVA 2.3% 2.0% / 0.9%

0.9% / CVA 1.4%

/ 0.3% MM-020 Rd Rd 18 MPT CVA

0.8% 0.6% 0.6% CVA

0.8% 0.6% 0.6% CVA 0.6% 0.6% 0.2%

[* MM-021 199

1 DVT

]

MM-009 MM-010

Stevens-Johnson

DRESS

/

-
-
-

PPP

RMP

RMP

•

•

•

RMP

-

WCBP

-

-

RMP

•

•

24

24

•

•

4

4

•

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4

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•

4

4

•

IUD

• (IUS)
-)
•
•
•
•
•
•

4

4 6

25 mIU/mL

7

4

10 14

24

4

4

24

12 g/dl

-

8

• _____

4

Rd Rd18 8.5% / / 15% 4
Rd Rd 18 0.6% / /
0.7%

Rd Rd 18 3 4

8.1% vs 11.1%

• _____

4

/ 5.1% /
0.6% 4 /
0.6% / 0.0%

3 4

/ 9.9% 1.4% /
2.3% 0.0%

SPM

| | | | | | | |
|----------|---|-----|----------|---|----------|--------|
| | | | SPM { | | AML | |
| MDS | } | | 1.75/100 | - | | |
| 0.36/100 | - | 4.9 | | | | |
| | 9 | | | | | SPM |
| 1.57/100 | - | | | | 0.74/100 | - 2.12 |

18

| | | | |
|-----|----------|----------|---|
| SPM | | 0.16/100 | - |
| | 0.79/100 | - | |

18

| | | | |
|----------|---|-----------|---|
| SPM | | 1.58/ 100 | - |
| 1.19/100 | - | 1.3 | |

| | | | | | |
|----------|---|----------|-----|------|-----------------|
| | | AML | MDS | B | |
| | | 1.31/100 | - | | 0.58/100 - [|
| ASCT | | | | | 1.02/100 - ASCT |
| | | 0.60/100 | -] | | SPM |
| 1.36/100 | - | 1.05/100 | - | ASCT | |
| 1.26/100 | - | ASCT | | | 0.60/100 - |

ASCT

SPM

SPM

/

MPT

ASCT

3

HBV

HBV

HBV

HBV

HBc

HBsAg

HBV

75

CLcr 60 mL/min

3 4

CLcr 60 mL/min

1:1

CLL

210

34

211

18

1.92[95%

: 1.08~3.41]

92%

2013 7

CLL

1

QTc

60

QT

2

QTc

90 CI

10 ms

3

4

0 17

| | | | | | |
|-----|--------|----------|------|-----|-----------|
| | MM-020 | | 1613 | 94% | 1521/1613 |
| 65 | 35% | 561/1613 | 75 | 75 | |
| Rd | 33% | Rd 18 | 34% | MPT | 33% |
| 3/4 | AE | AE | | AE | AE |
| | | | | 75 | |

3/4 AE

5%

SOC 3 4 TEAE

5%

3/4 AE

AE

MM-009

MM-010

703

45%

5

12%

/

/

/

353

46%

/

65

CYP1A2 CYP2B6

CYP2C9 CYP2C19 CYP3A4/5

CYP3A4

10mg R- S-
25mg

PT

INR

10 mg/ 0.5 mg
14% 90% CI 0.52%~28.2%

25 mg/ 40 mg/

P-gp

P-gp P- P-gp
600 mg P-gp / 25
mg 25 mg

CD34+
 TNF- IL-6
 Cullin ring E3
 [Cullin ring E3
 DDB1 cullin 4 CUL4 cullins 1 Roc1]
 ——— Aiolos Ikaros
 DNA
 cereblon
 cereblon
 5
 T T
 26 75 150 300mg/kg/ 3
 NOAEL 75mg/kg/ AUC 25
 20 4 6mg/kg/
 1 1 2mg/kg/
 / 1mg/kg/
 Ames

—

[¹⁴C]-

23% 29%

25mg/

0.01%

3

P150g/ qñ,,2iH9)ä0Öòuc\$, õx(¼s`ÄBsfeú" TÛ_Ö Áÿ <P150g/ q ĐÖđLÙÑÒÃ. \vú'òd ñ

82%

N- 4.59% 1.83%

18

39 85

5 CLcr 56 74 mL/min 6

CLcr 33 46 mL/min 6 CLcr 17

29 mL/min 6 25 mg

7 CLcr 83 145 mL/min

25 mg

3 66% 75%

4.5 80%

4 30%

N = 16

AST > ULN

33 135

25mg

11

/

1

3

C_{max} AUC

10~30

6 / ×1 / 7 / ×3 /

24

YBH02832021

1 5mg H20213223

2 10mg H20213224

5

222069

4008285227

9:00-17:00

<http://www.hansoh.cn>