

Kabat#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
																													</							

FIG. 1A

Kabat# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

HVR1

humIII E V Q L V E S G G L V Q P G G S L R L S C A A S G F T F S S Y A M S W V R Q A P G
Fib504 E V Q L Q E S G P G L V K P S Q S L S L T C S V T G F F I T N N Y W G W I R R K F G G
504K graft E V Q L V E S G G L V Q P G G S L R L S C A A S G F F I T N N Y W G W V R Q A P G

Kabat# 43 44 45 46 47 48 49 50 51 52 a 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 a

HVR2

humIII K G L E W V S V I S G D G G S T Y Y A D S V K G R F T I S R D N S K N T L Y L Q M N
Fib504 N K M E W M G Y I S Y S G S T S Y N P S L K S R I S I T R D T S K N Q F F L Q L N
504K graft X G L E W V G Y I S Y S G S T S Y N P S L K S R R F T I S A D T S K N T A Y L Q M N
hu504-5 hu504-16 hu504-32 R R R

Kabat# b c 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 a k 101 102 103 104 105 106 107 108 109 110 111 112 113

HVR3

humIII S L R A E D T A V Y Y C A R G T G S S G Y F D Y W G Q G T L V T V S S (SEQ ID NO.:13)
Fib504 S V T T E D T A T Y Y C A M T G S S G Y F D F W W G P G T M V T V S S (SEQ ID NO.:11)
504K graft S L R A E D T A V Y Y C A M T G S S G Y F D F W W G Q G T L V T V S S (SEQ ID NO.:15)

FIG. 1B

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1 10 20 30 40 50 60
| | | | | | |
DIQMTQSPSSLSASVGDRVTITCRASESVDDLHWYQOKPGKAPKLLIKYASQSIGVPS

 70 80 90 100
| | | | | |
RFSGSGSGTDFTLTISLQPEDFATYYCQGNLNPNTFGQGTKVEIKR (SEQ ID NO.31)

FIG. 2A

1 10 20 30 40 50 60
| | | | | | |
EVQLVESGGGLVQPGGSLRLSCAASGFFITNNYWGVRQAPGKGLEWVGYISYSGSTSYN

 70 80 90 100 110
| | | | | | |
PSLKSRTFTISRDTSKNTFYLMNSLRAEDTAVYYCARTGSSGYFDFWGQGTLLTVSS
(SEQ ID NO.32)

FIG. 2B

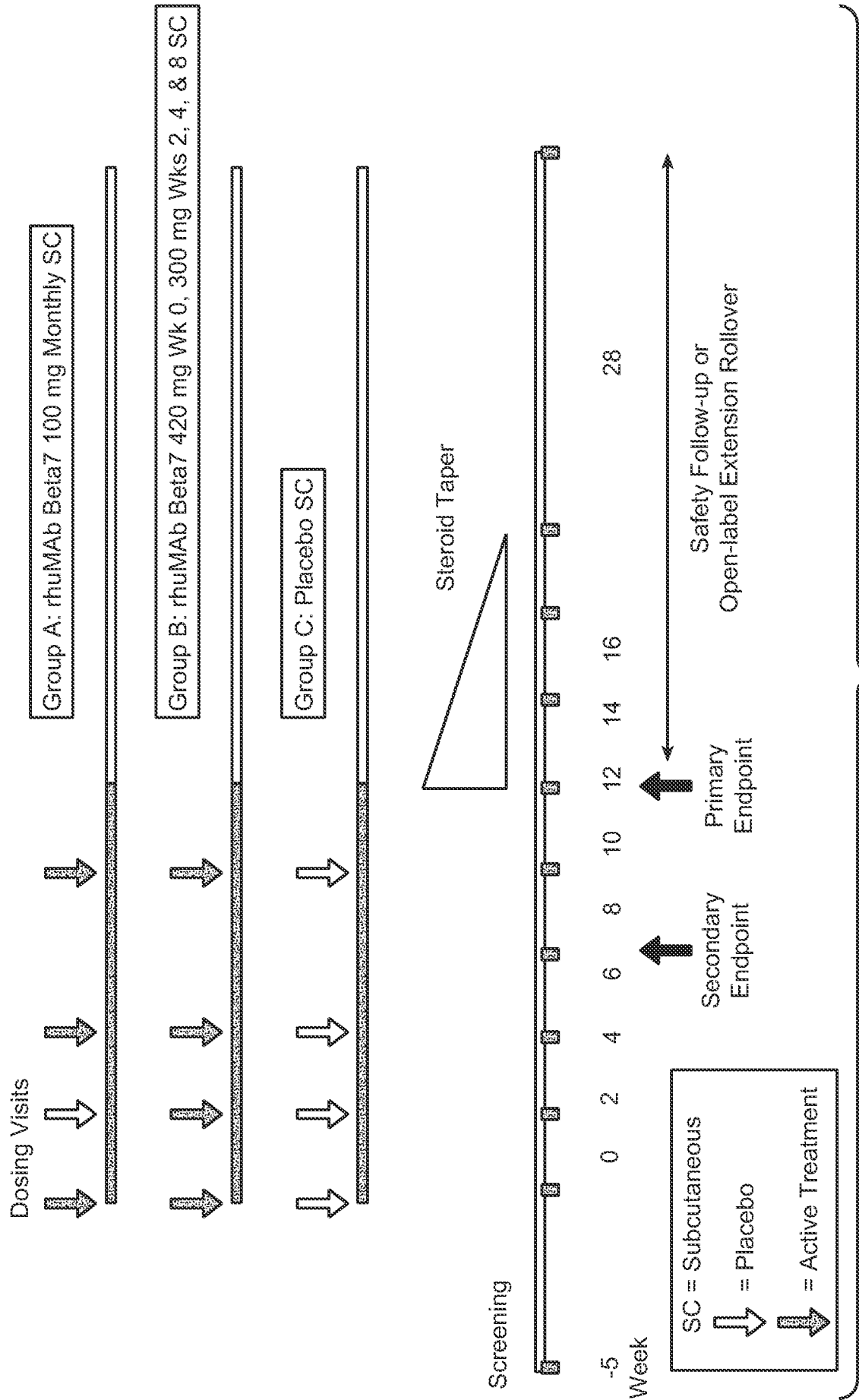


FIG. 3

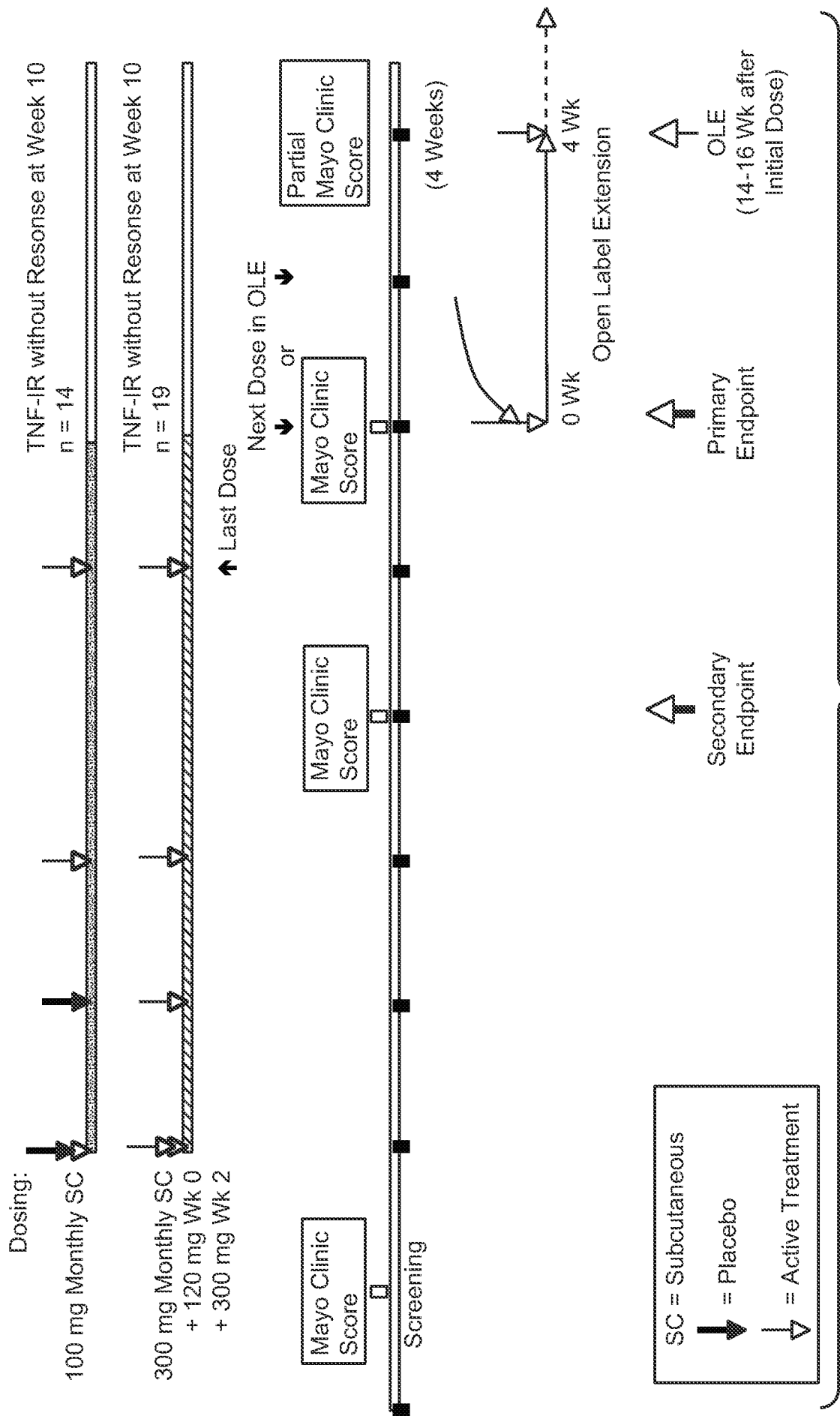
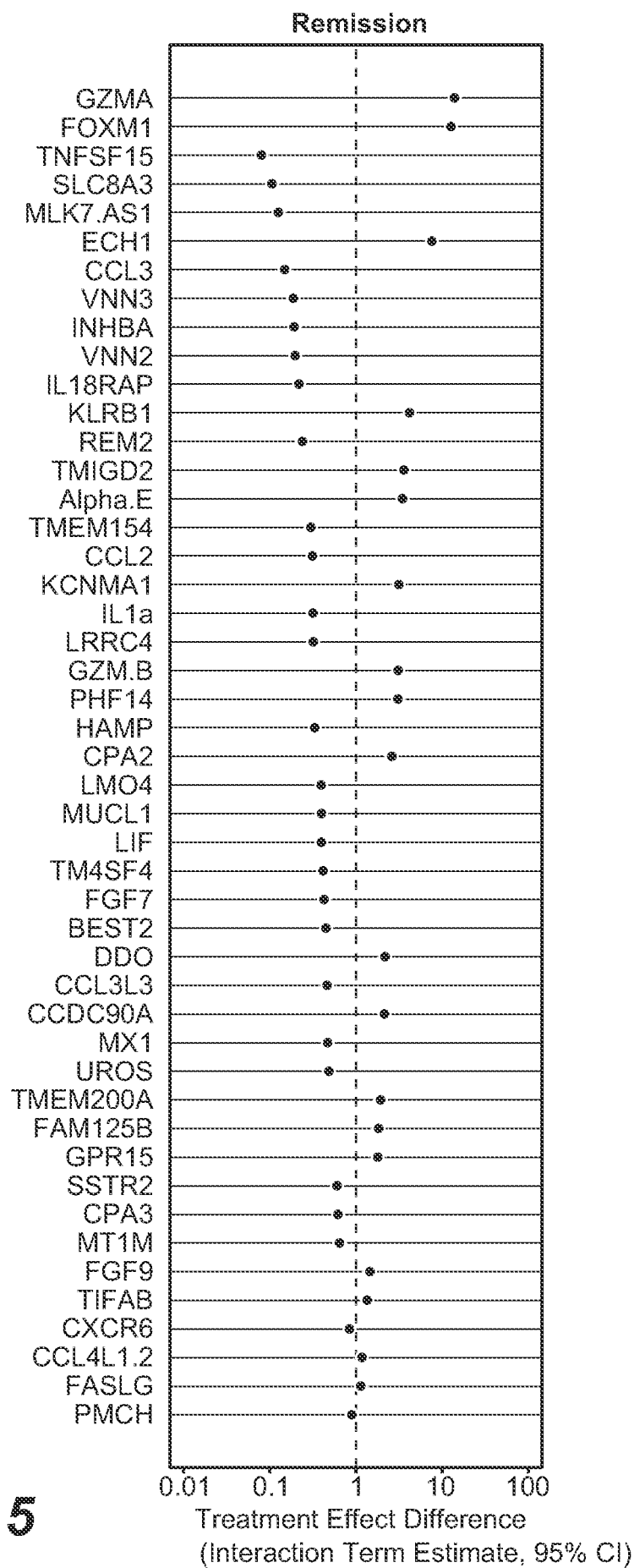
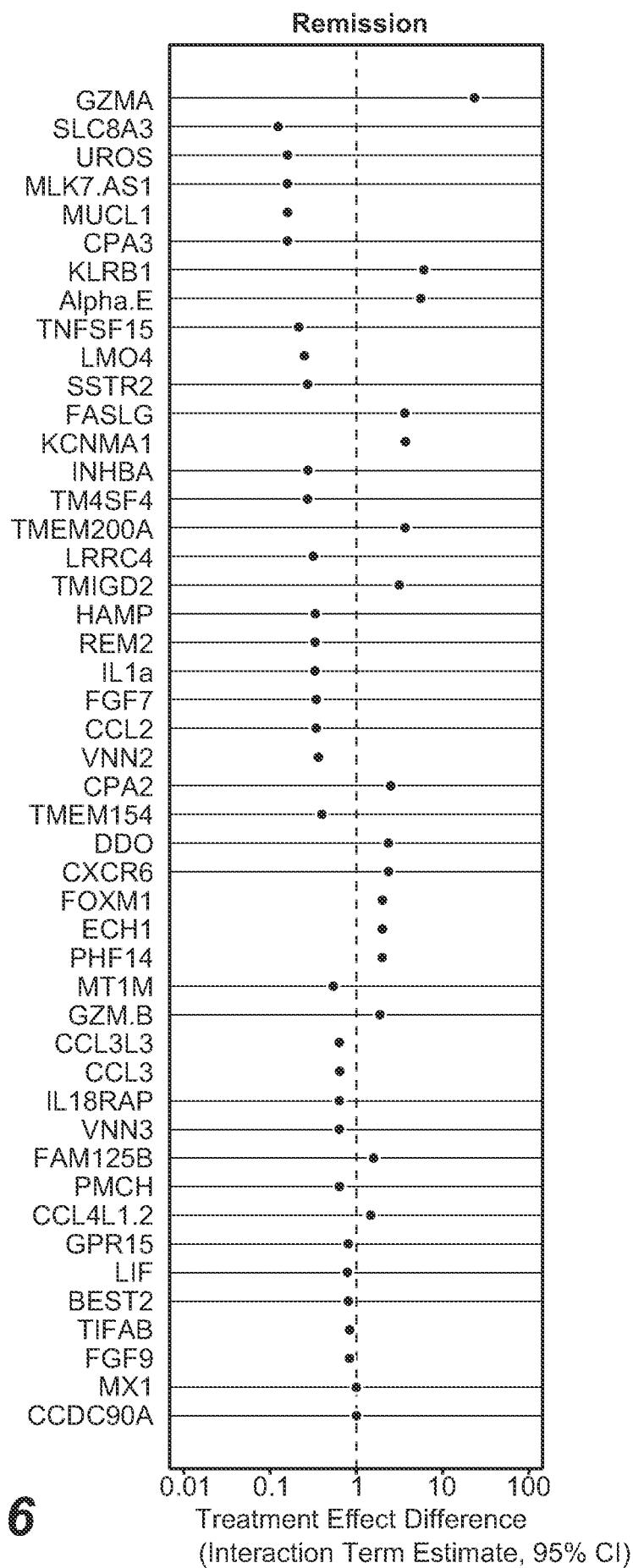


FIG. 4

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**FIG. 5**

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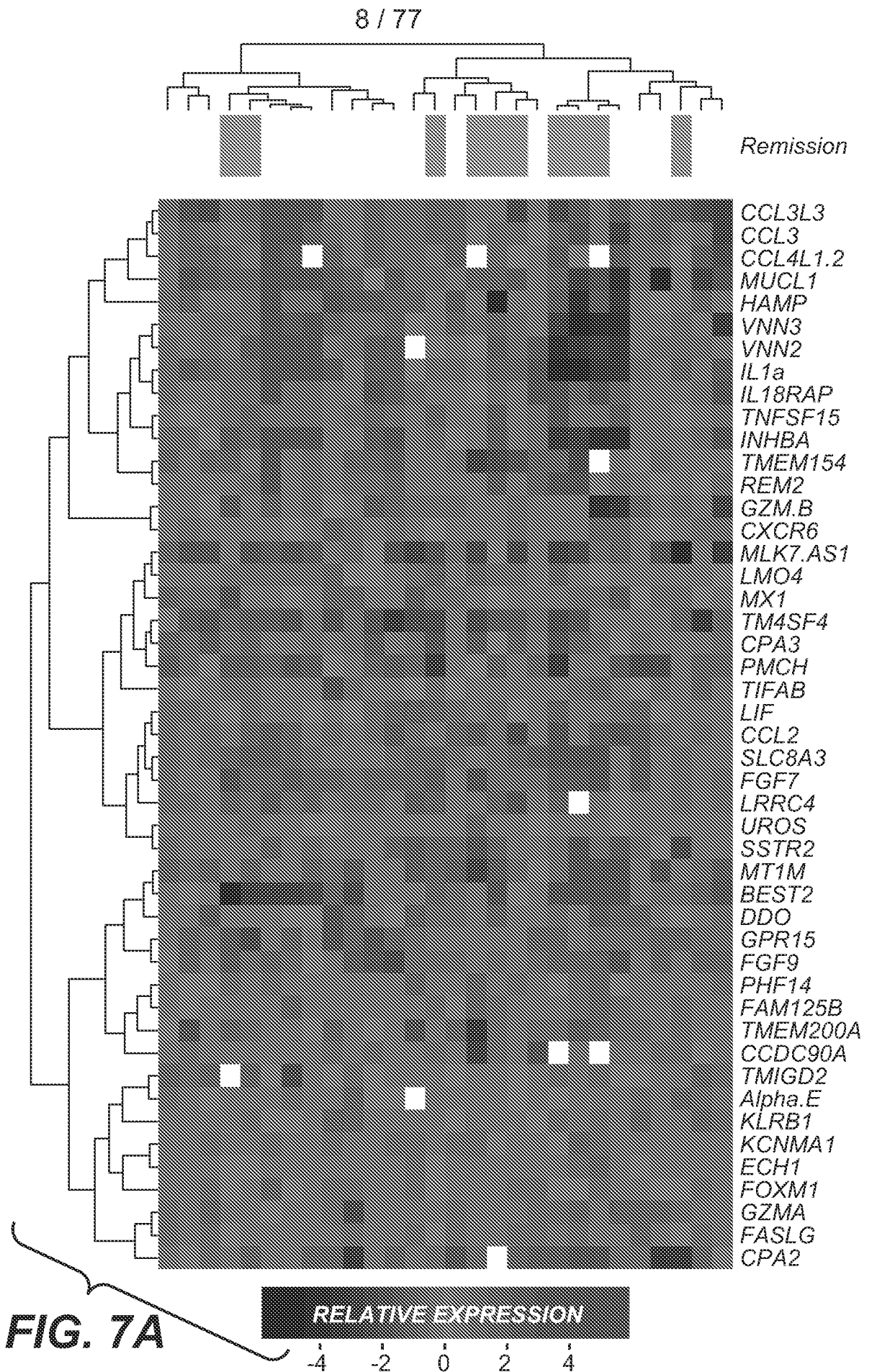
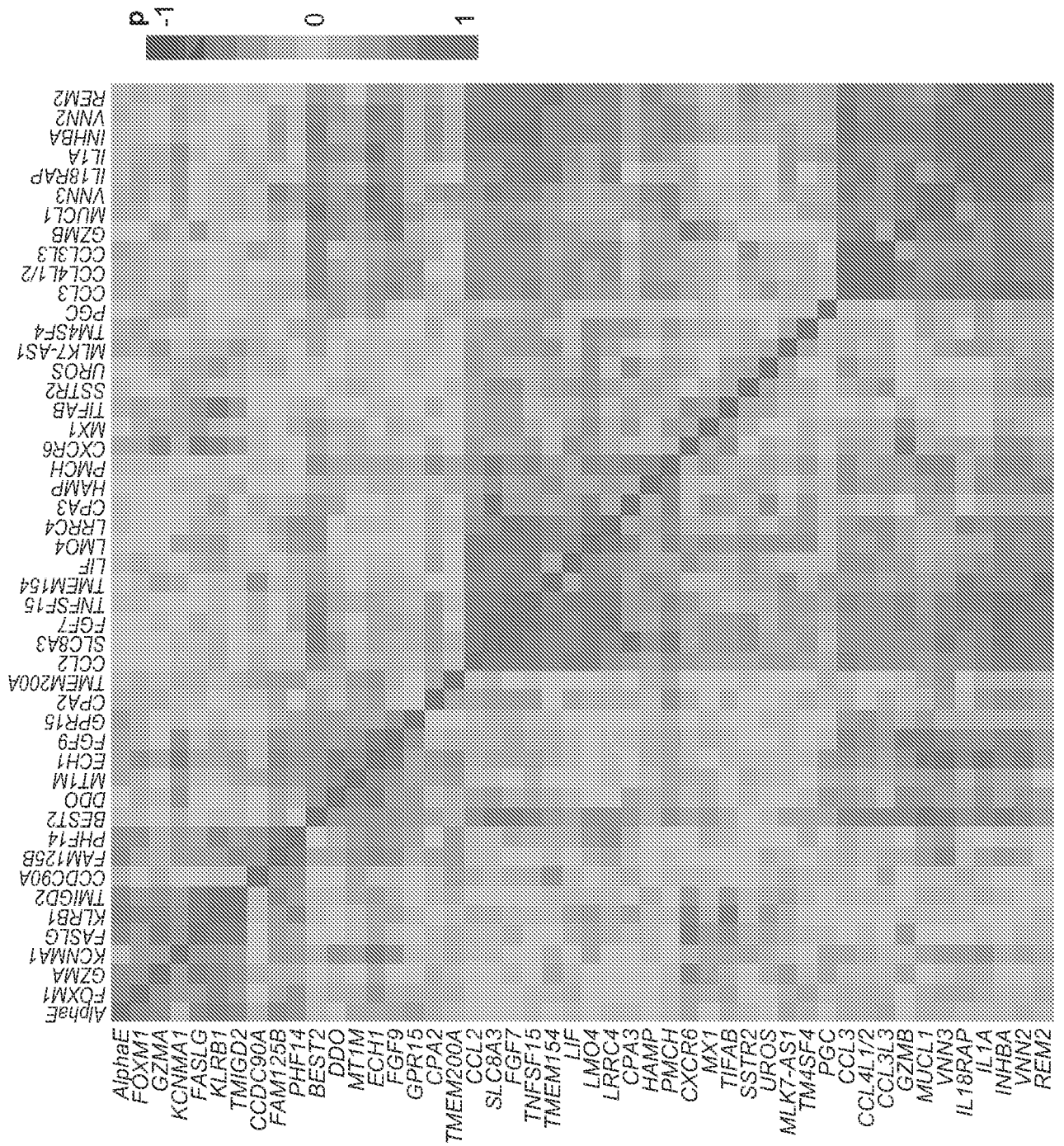
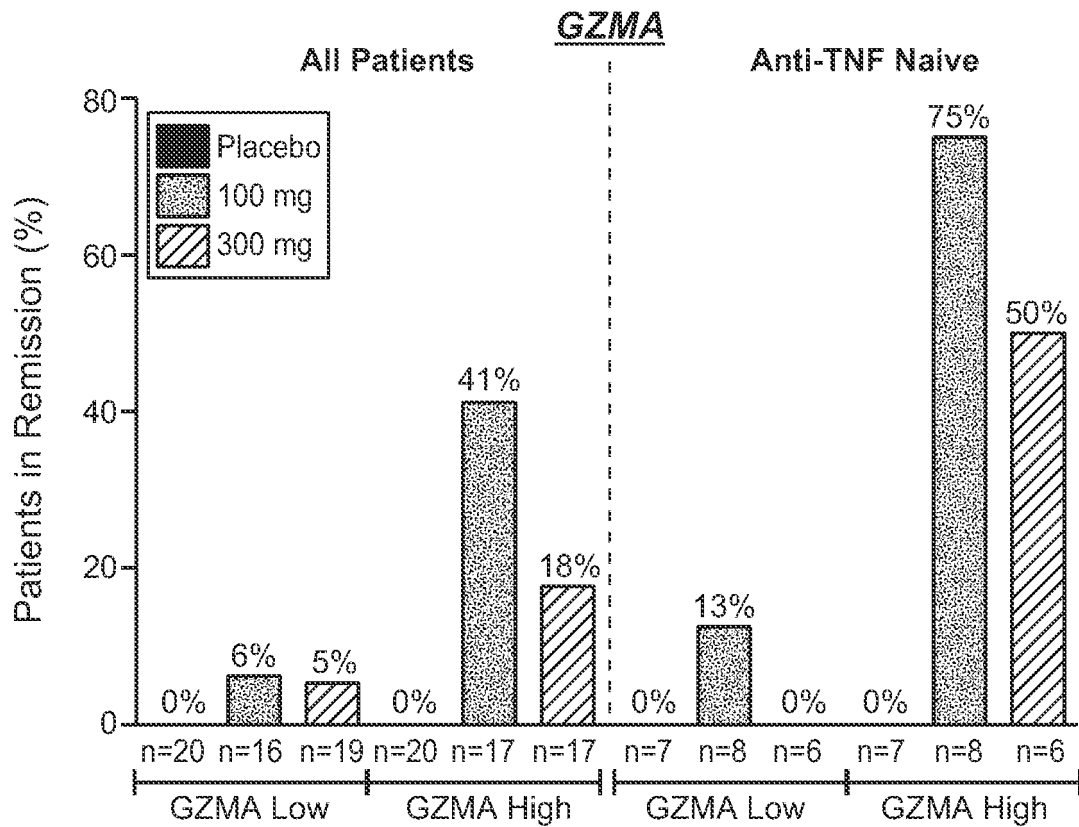


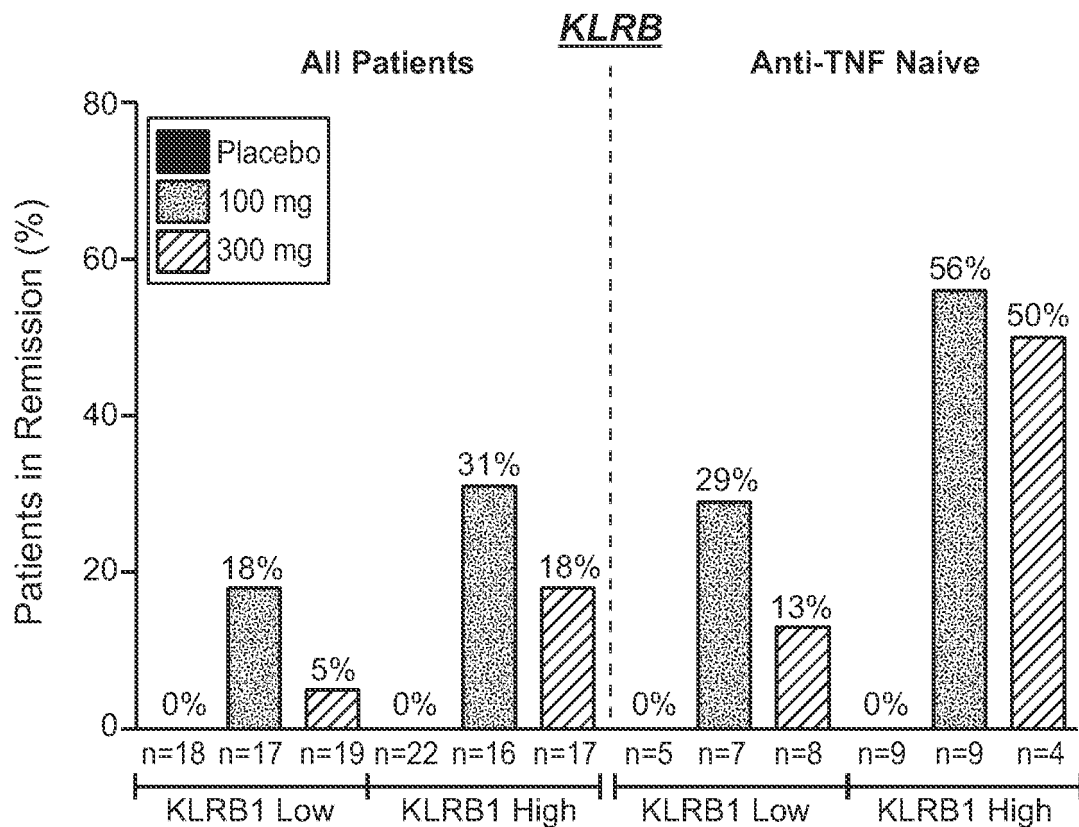
FIG. 7B



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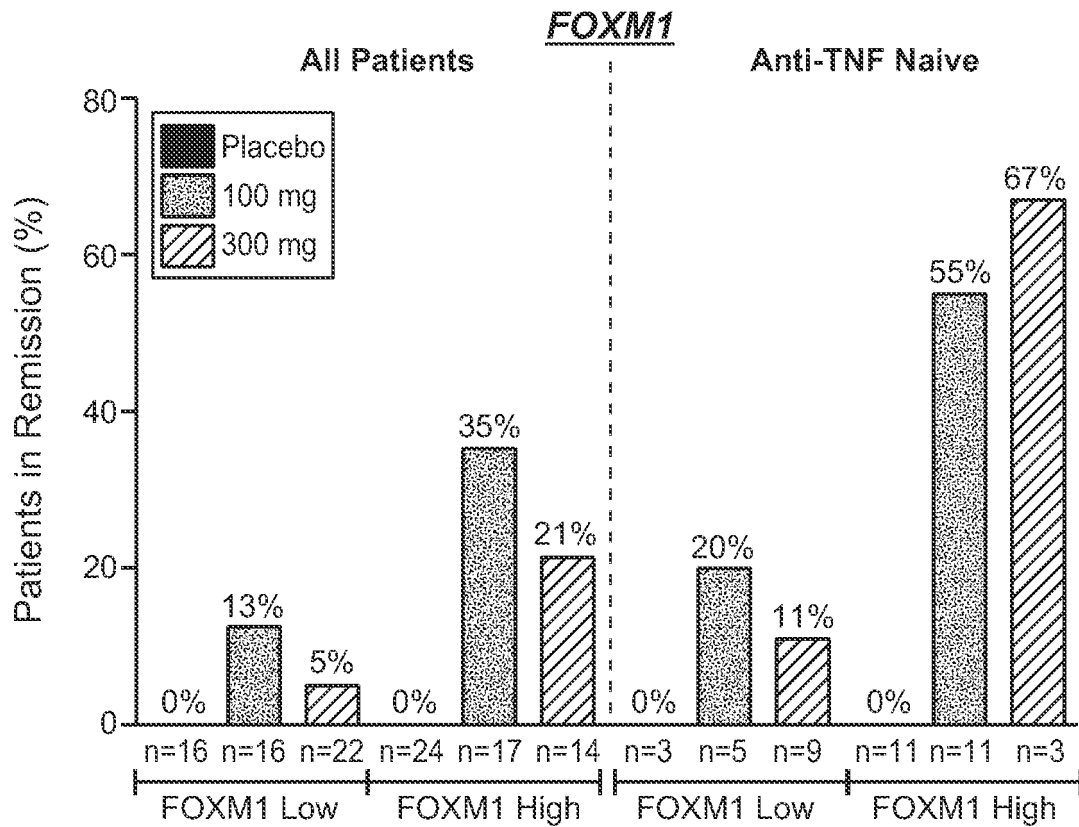
**FIG. 8A**

Screening Biopsy Gene Expression

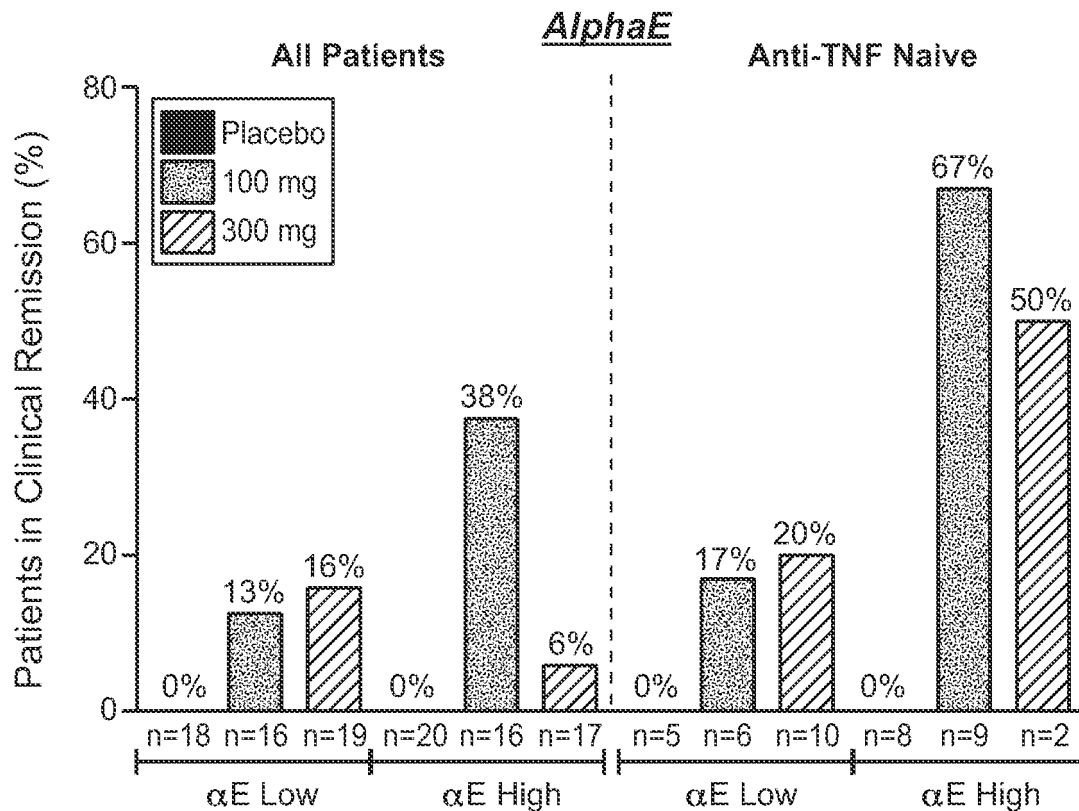
**FIG. 8B**

Screening Biopsy Gene Expression

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**FIG. 8C**

Screening Biopsy Gene Expression

**FIG. 8D**

Screening Biopsy Gene Expression

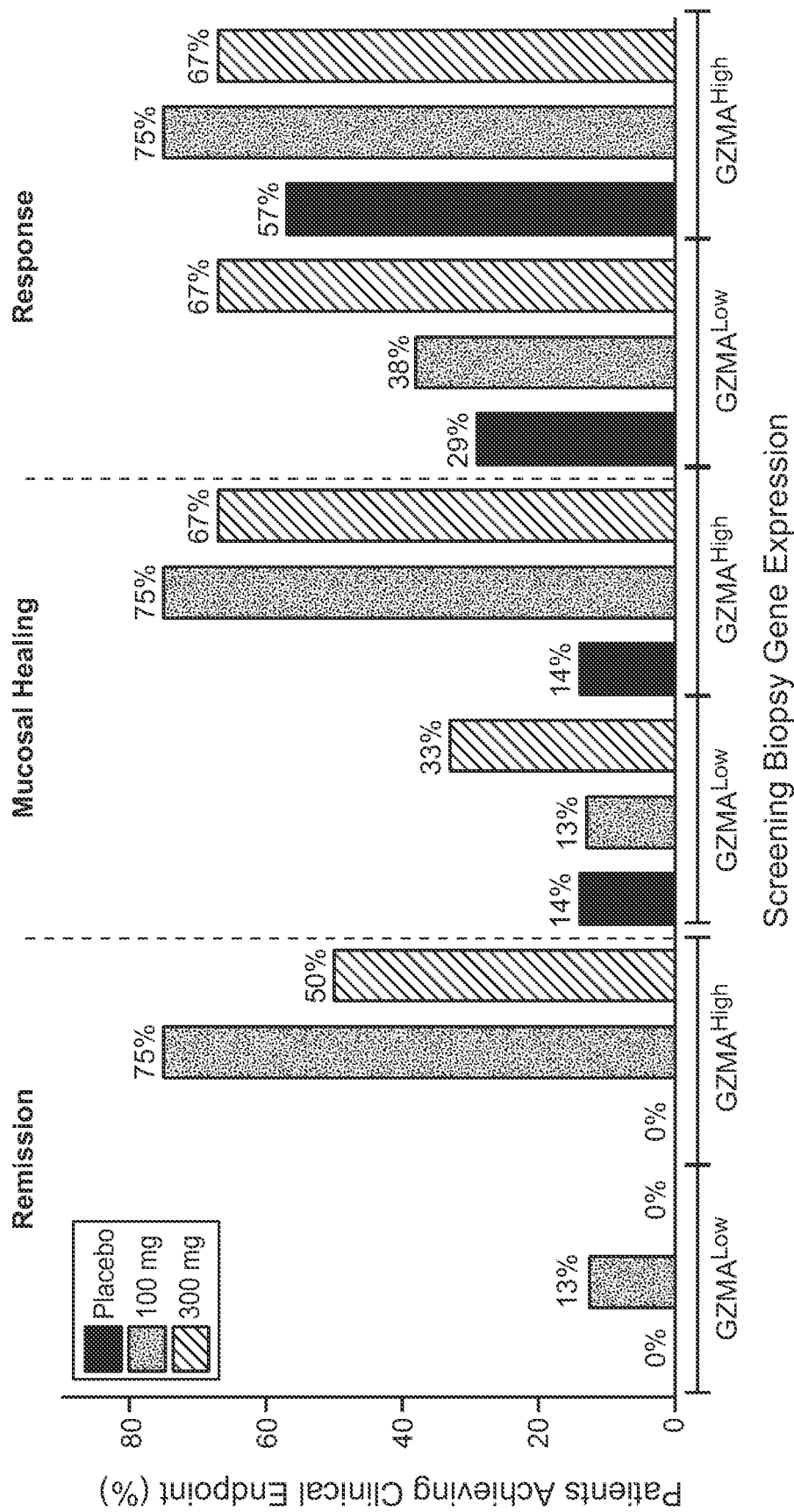
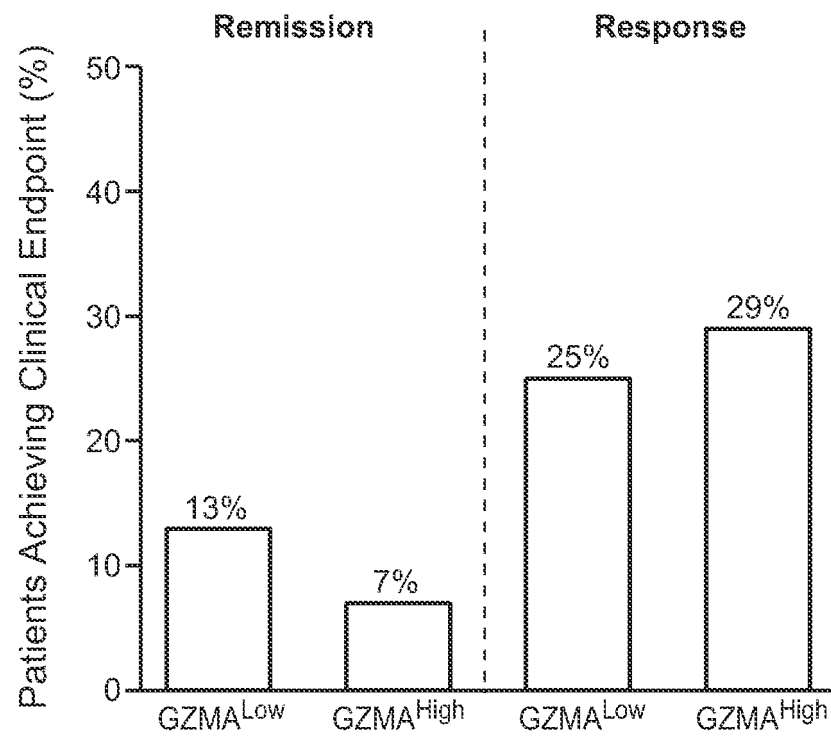
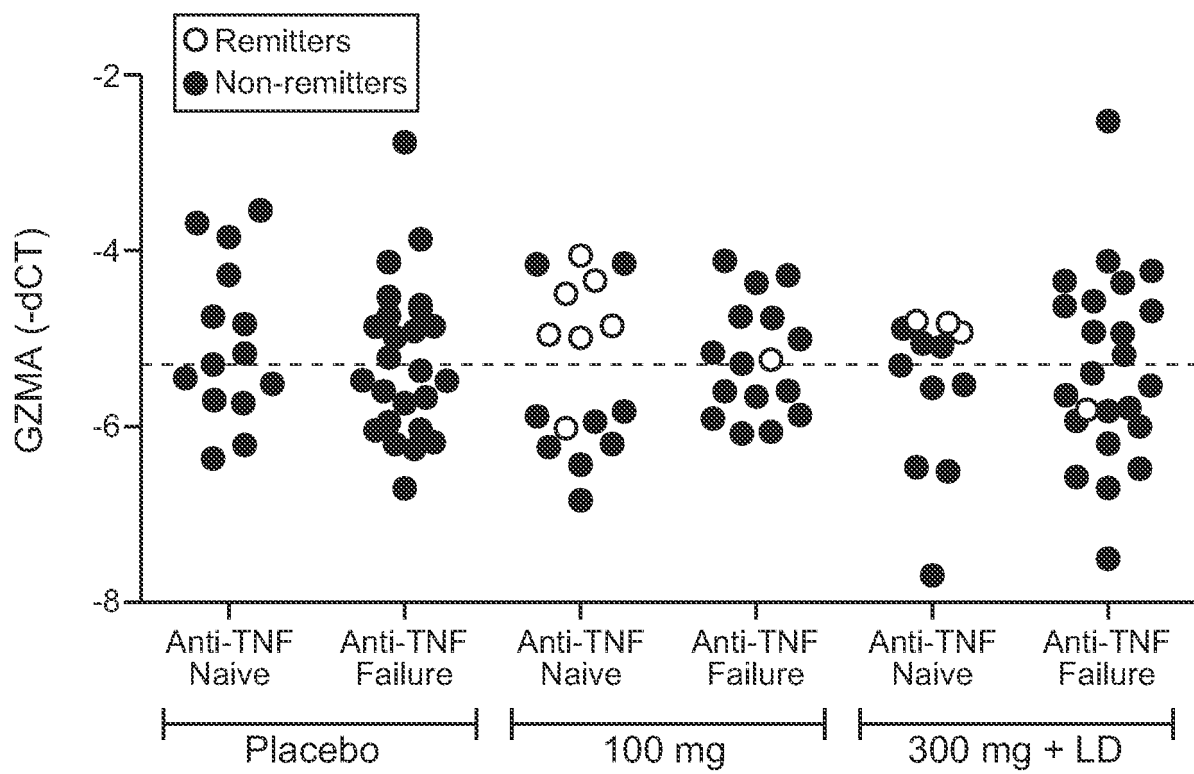


FIG. 9A

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**FIG. 9B****FIG. 9C**

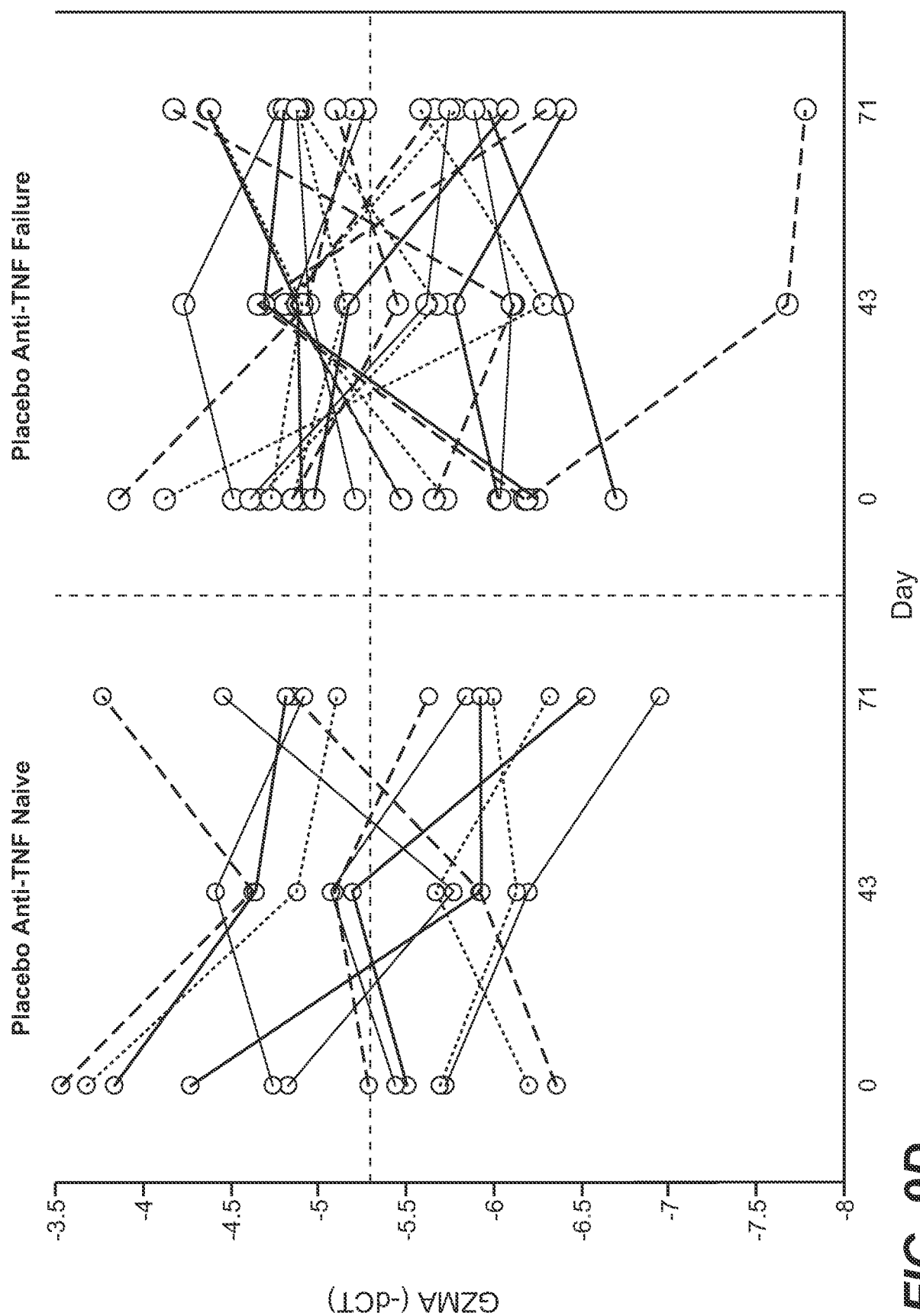


FIG. 9D

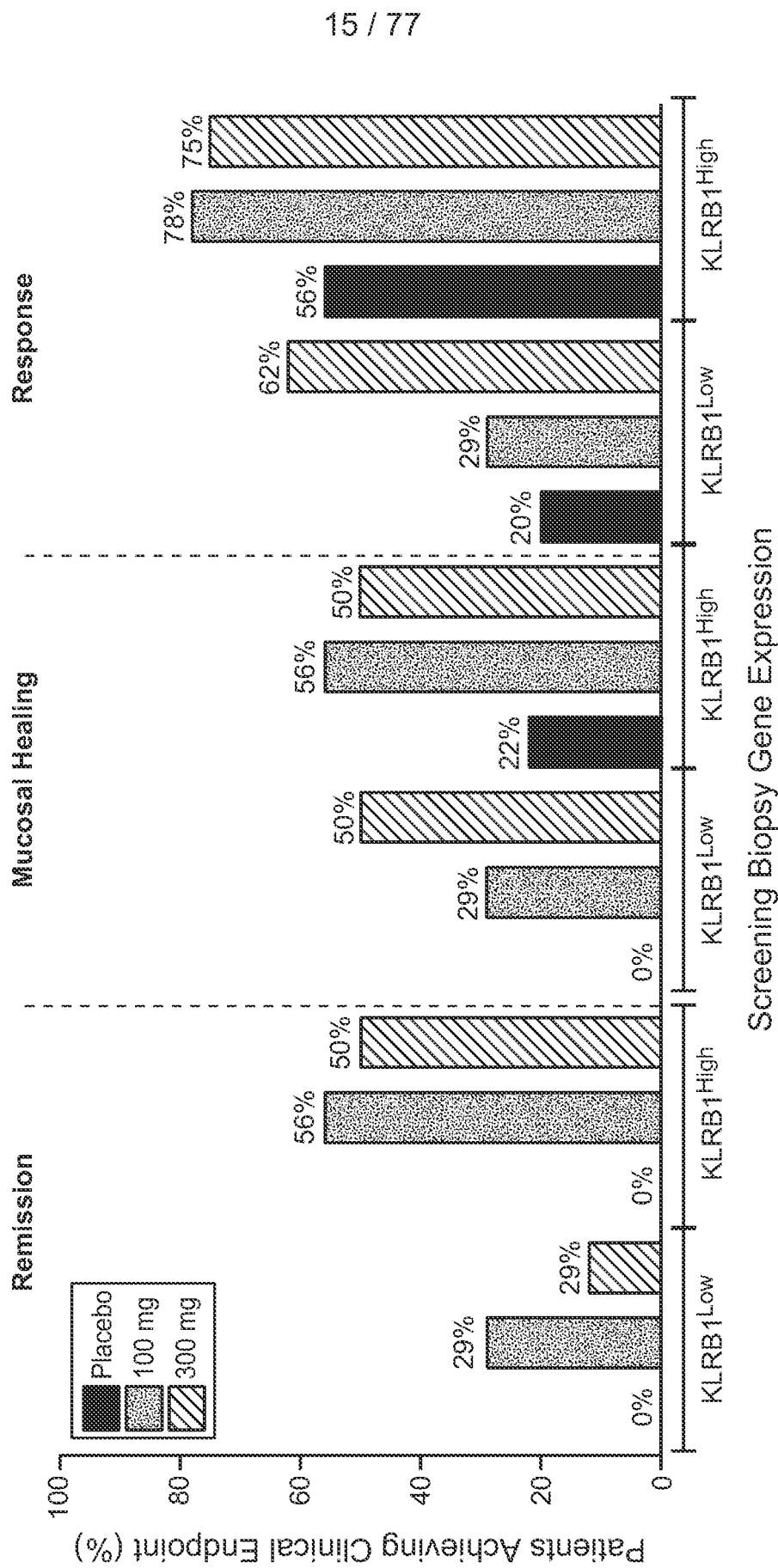
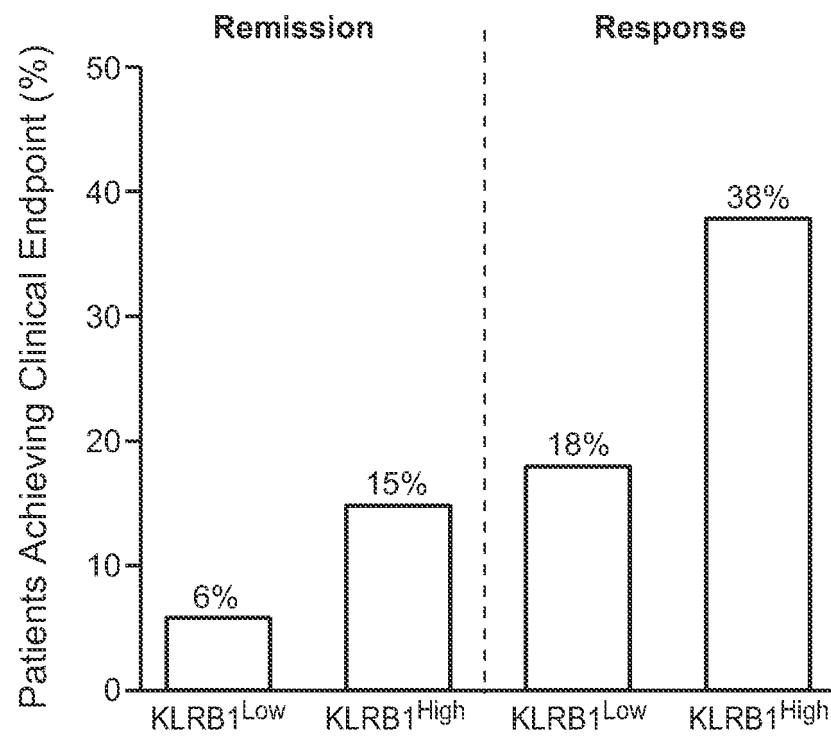
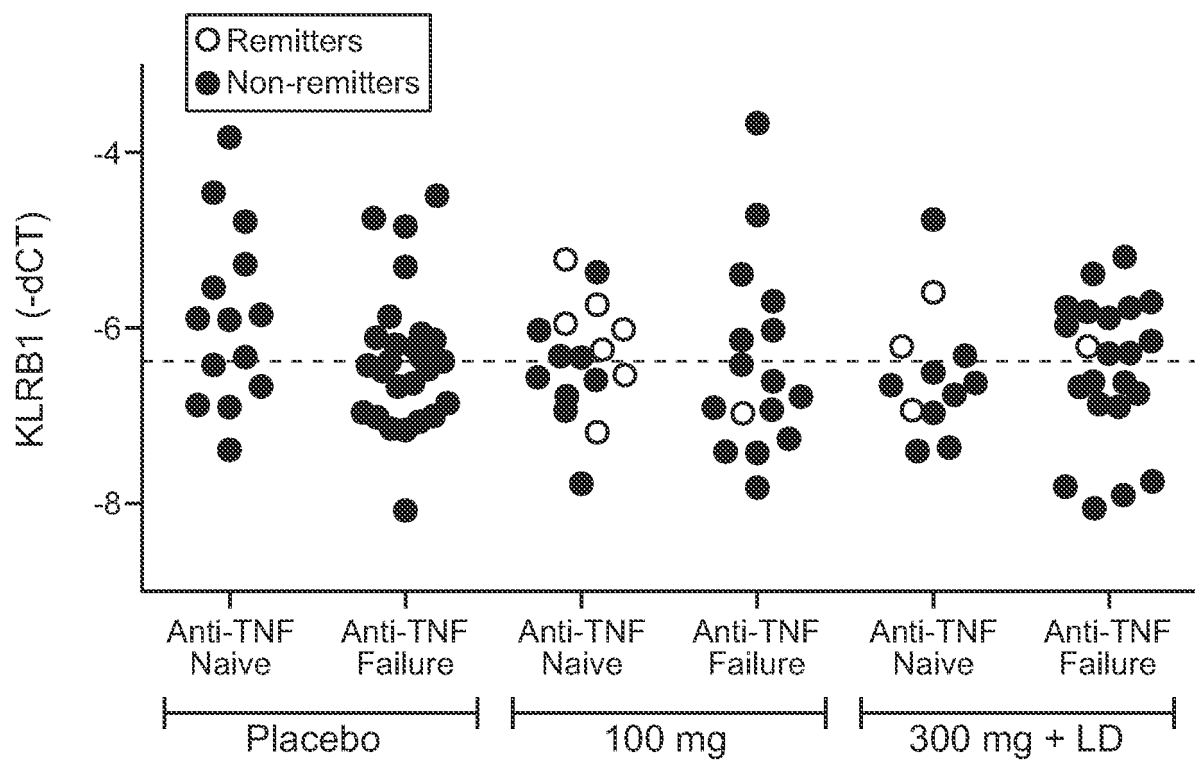


FIG. 10A

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**FIG. 10B****FIG. 10C**

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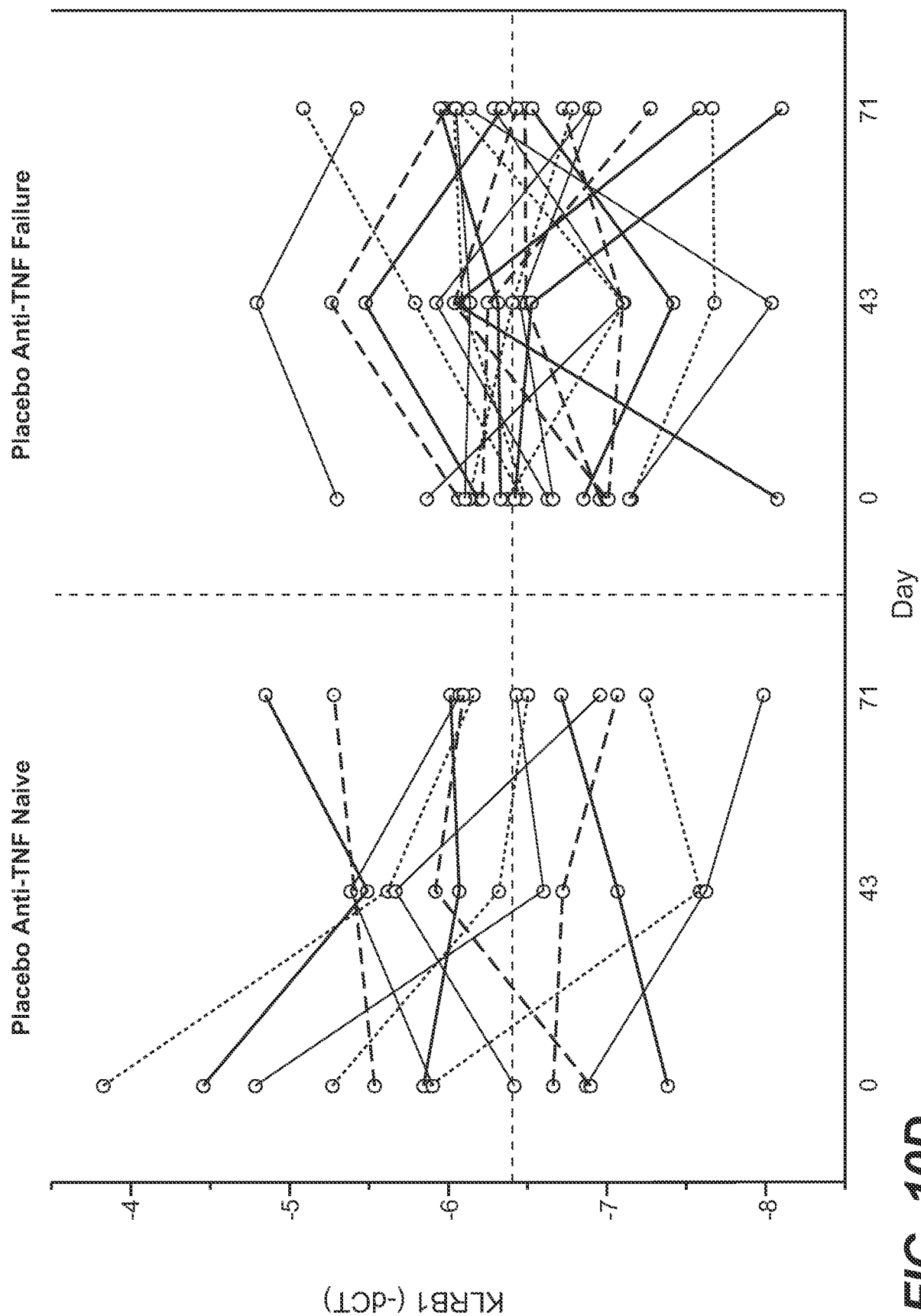


FIG. 10D

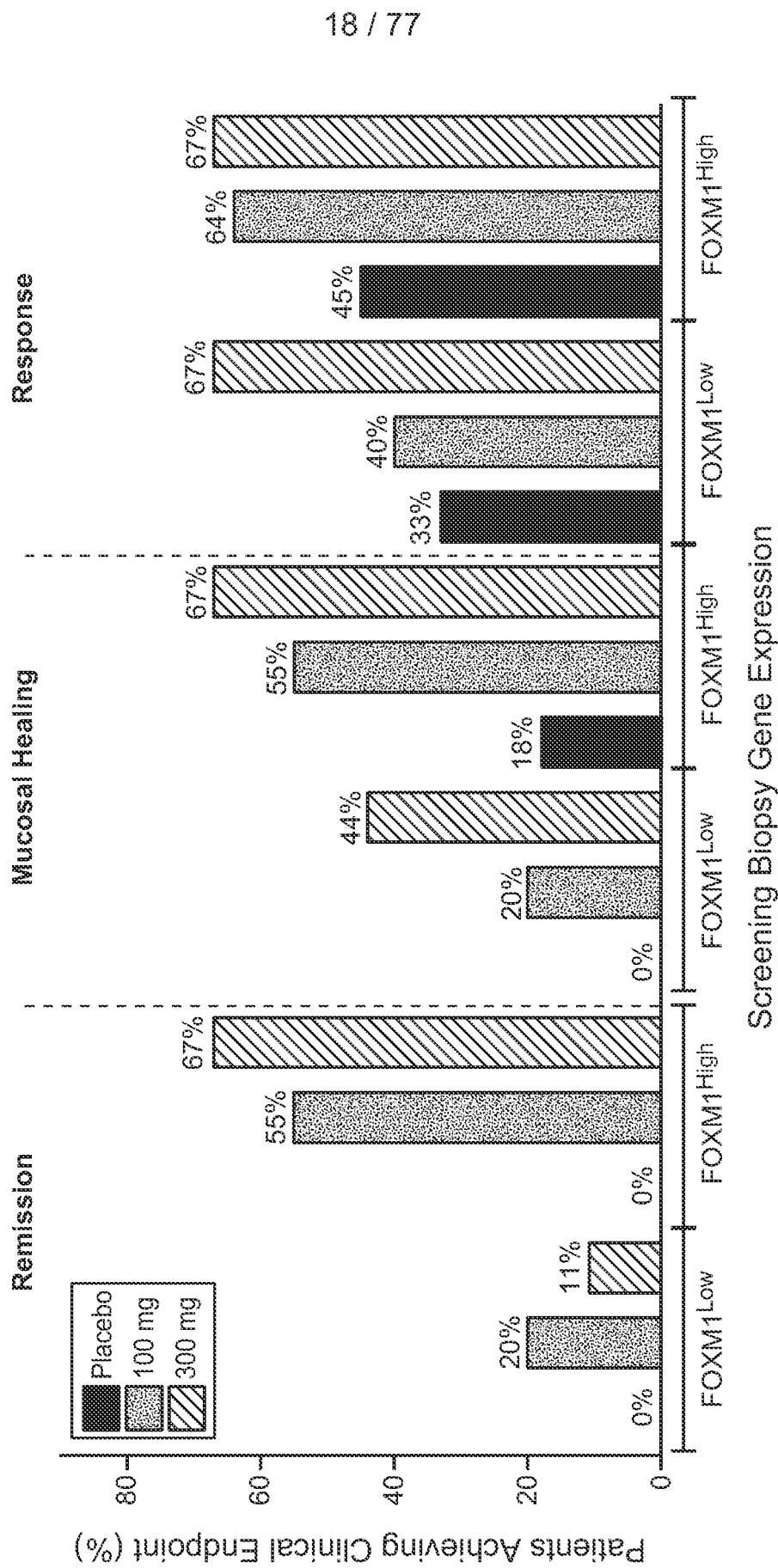
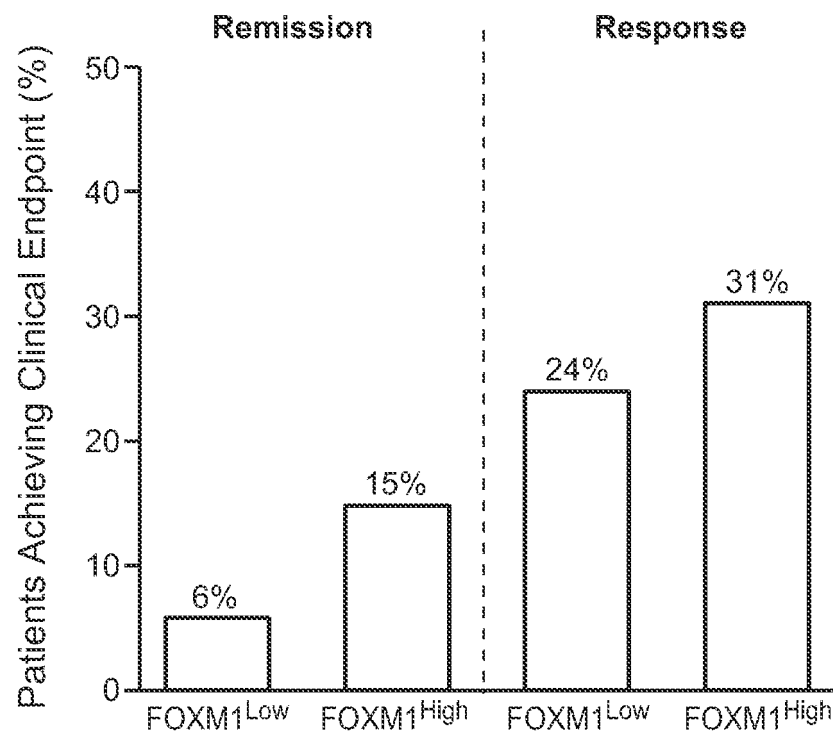
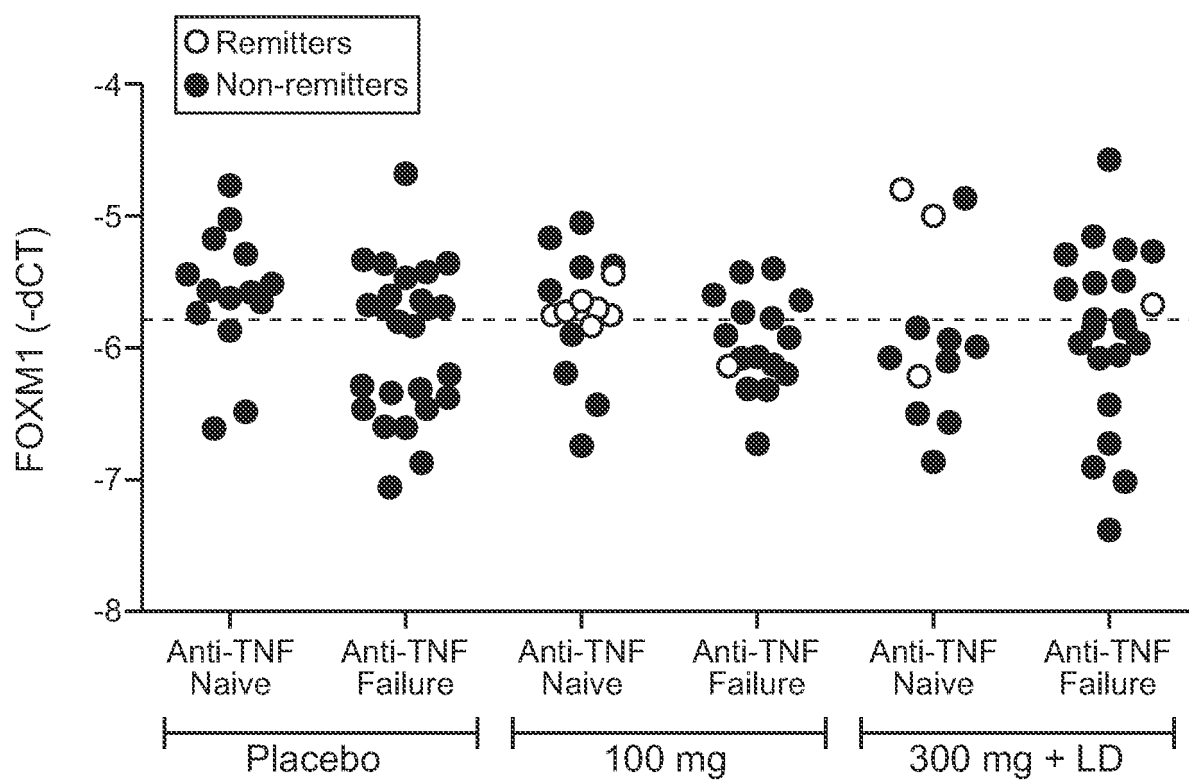


FIG. 11A

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**FIG. 11B****FIG. 11C**

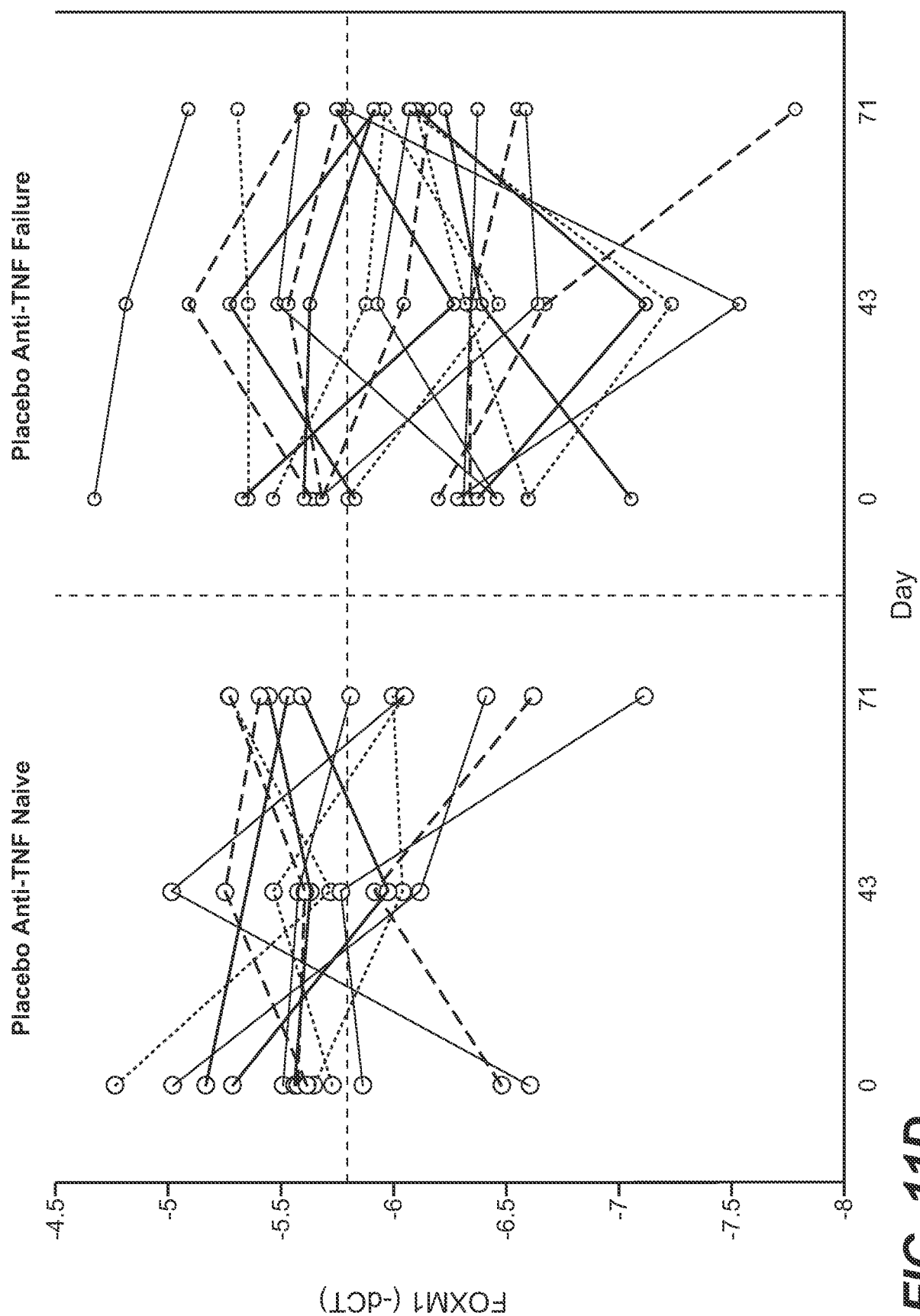


FIG. 11D

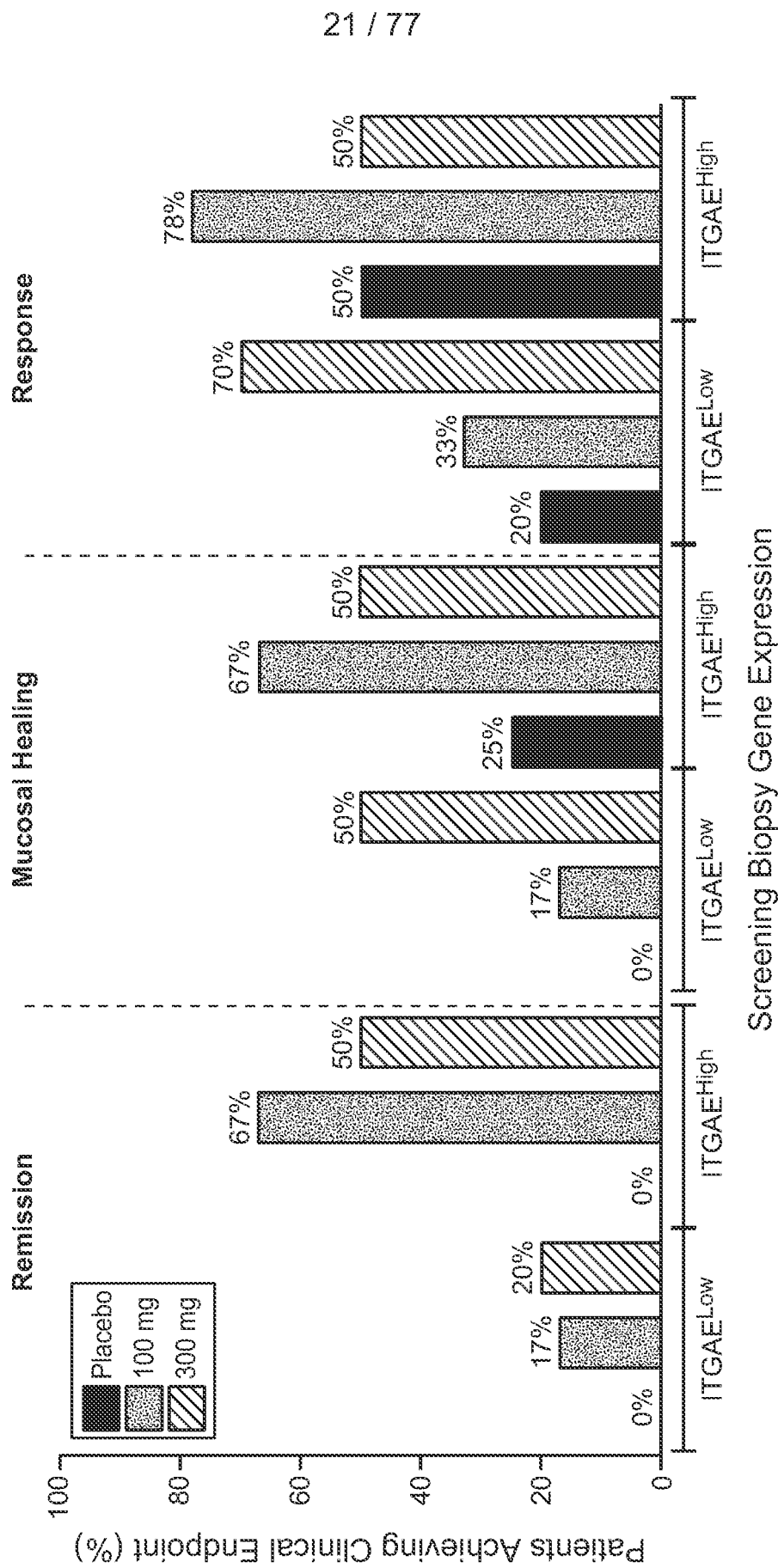
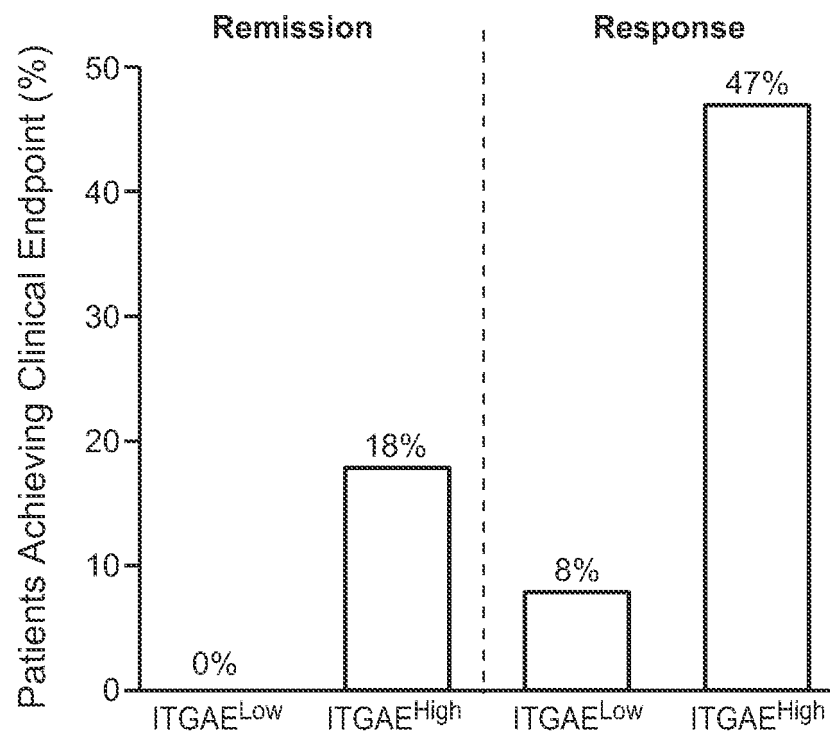
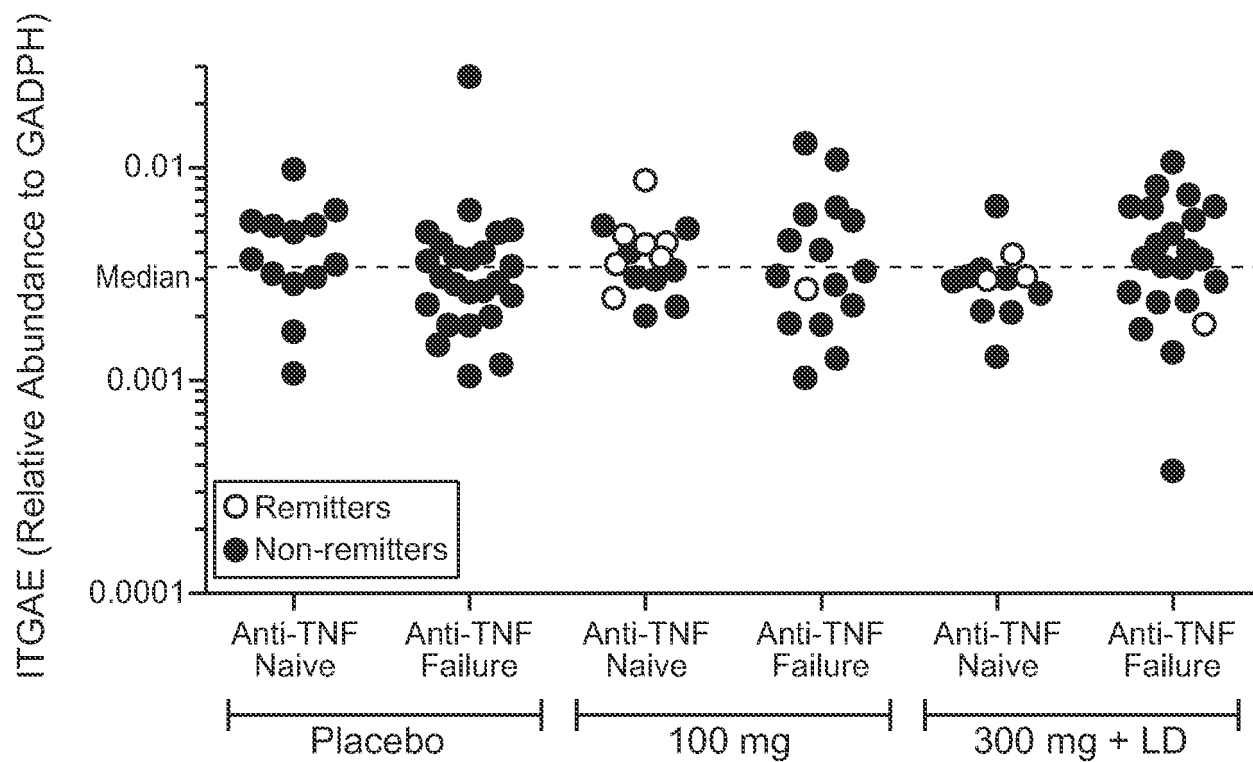


FIG. 12A

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**FIG. 12B****FIG. 12C**

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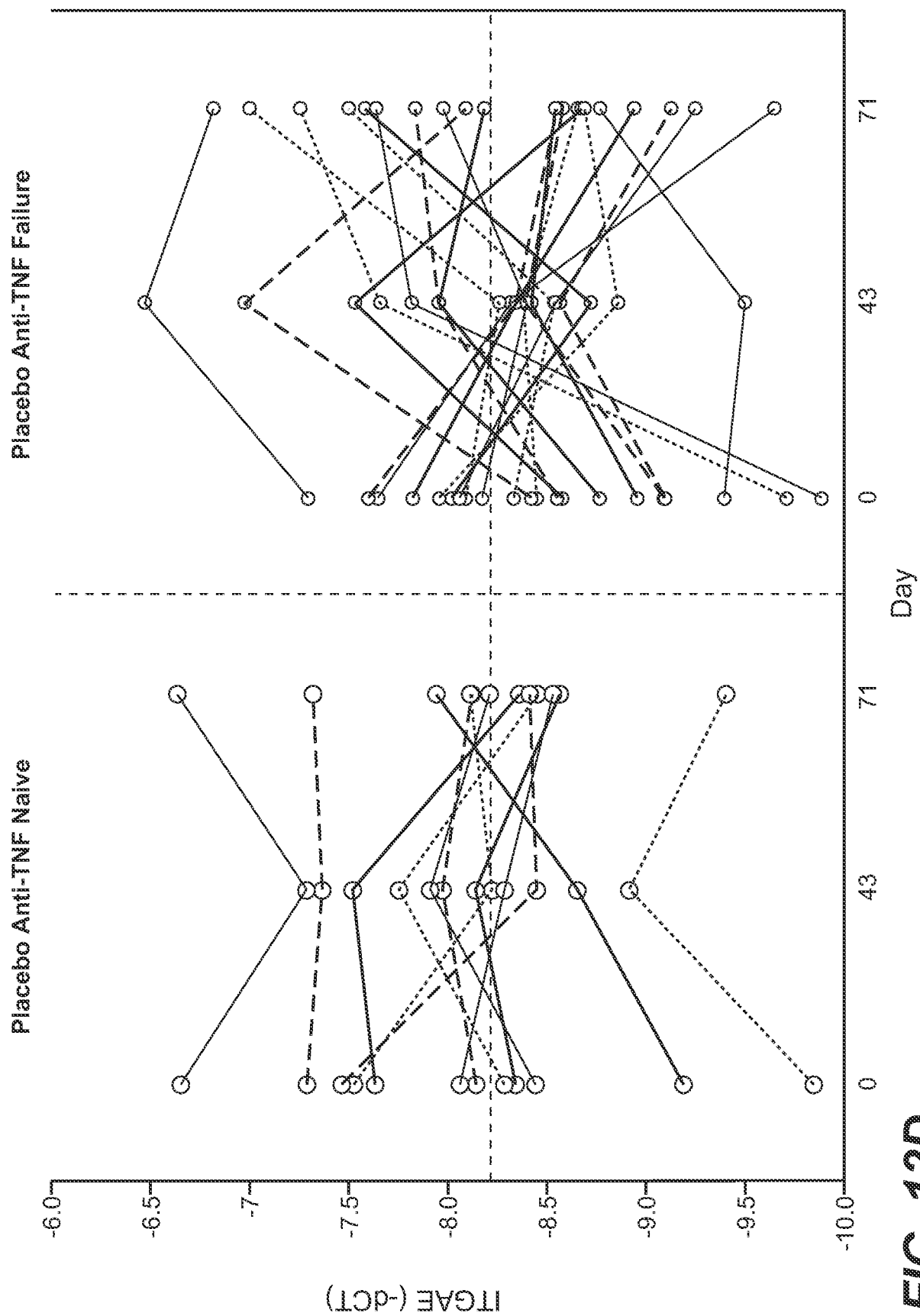
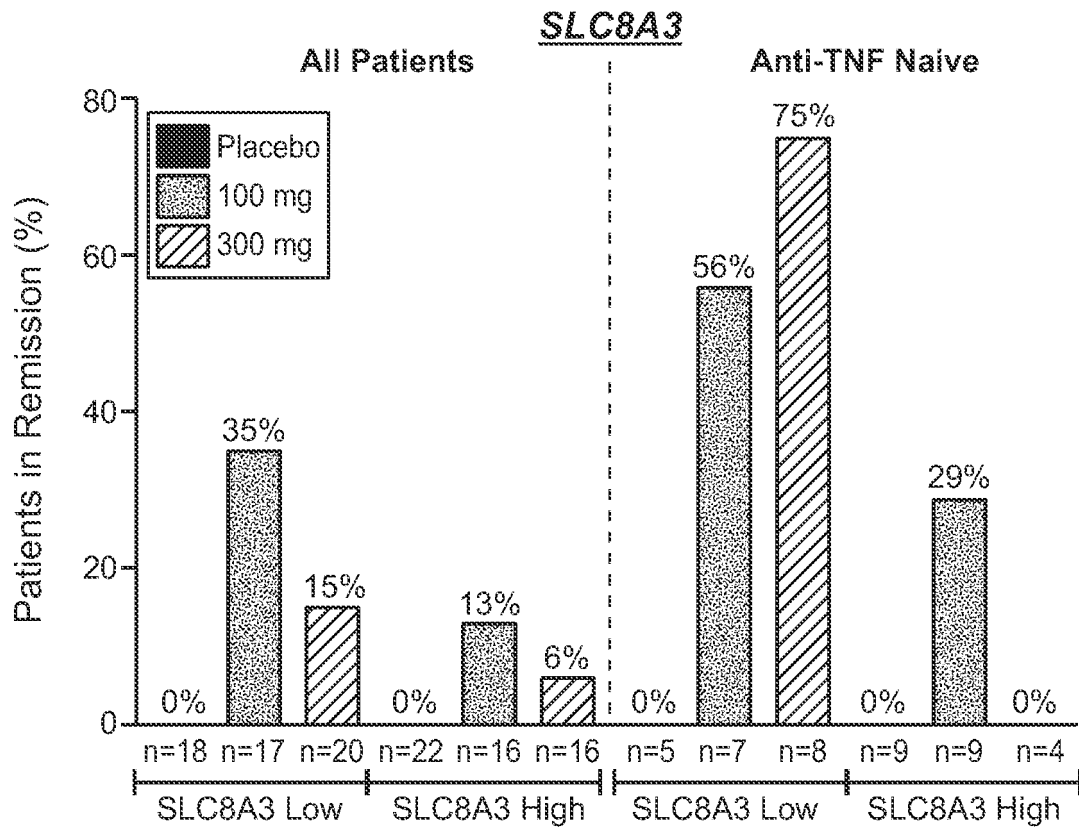
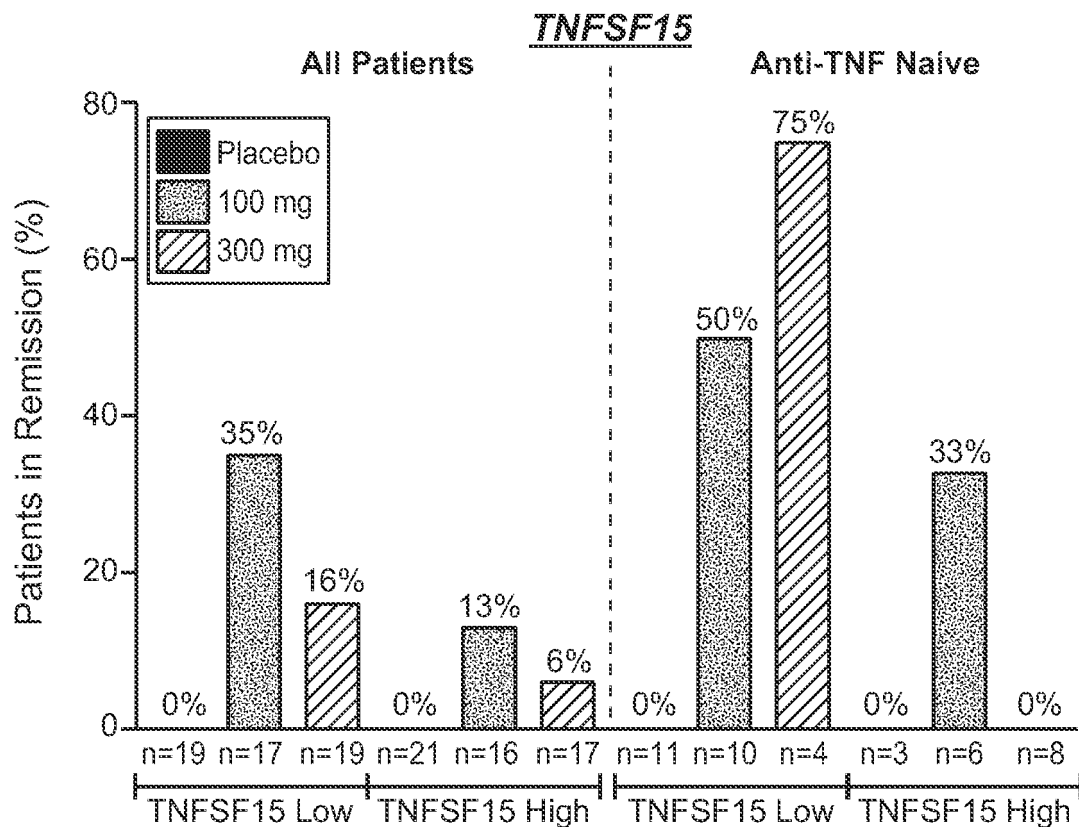
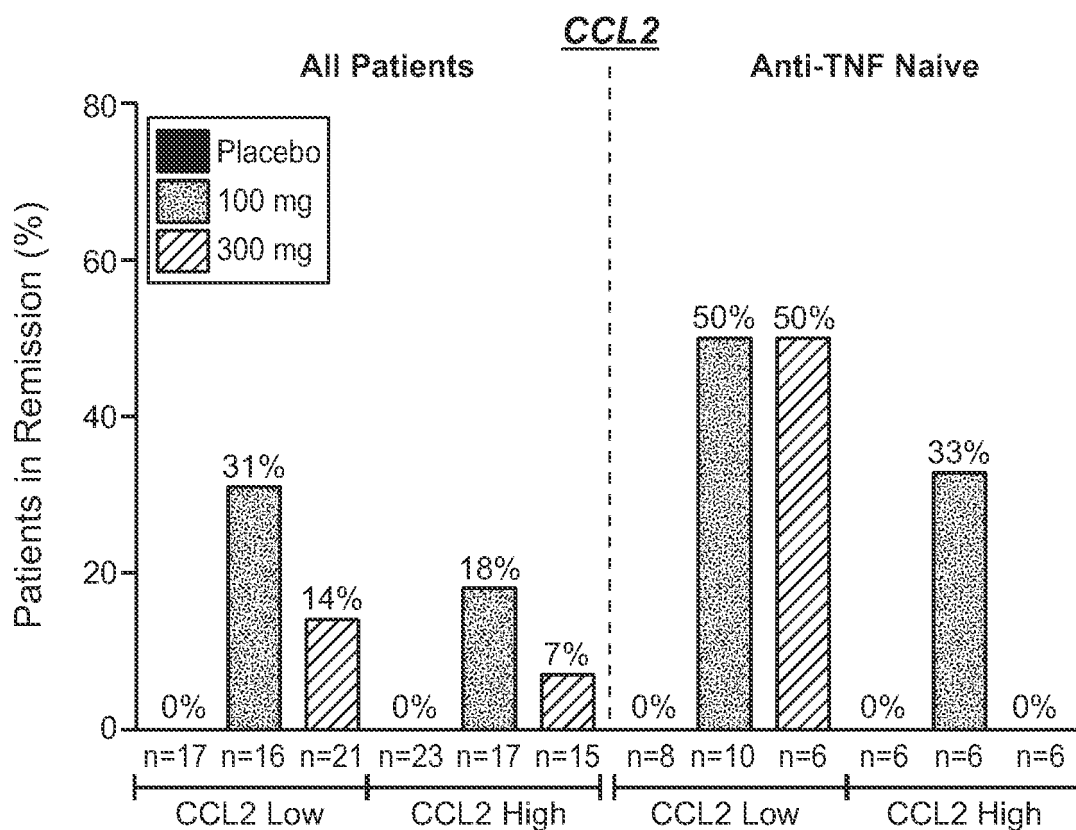


FIG. 12D

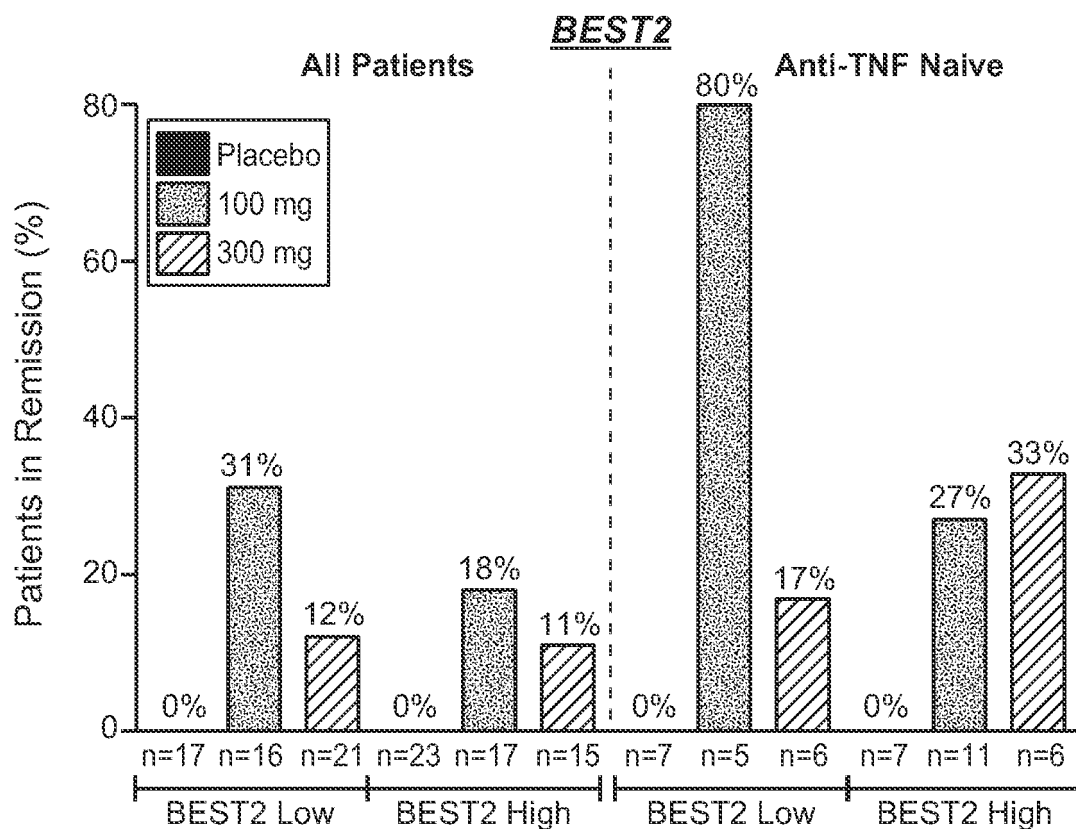
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**FIG. 13A****FIG. 13B**

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**FIG. 13C**

Screening Biopsy Gene Expression

**FIG. 13D**

Screening Biopsy Gene Expression

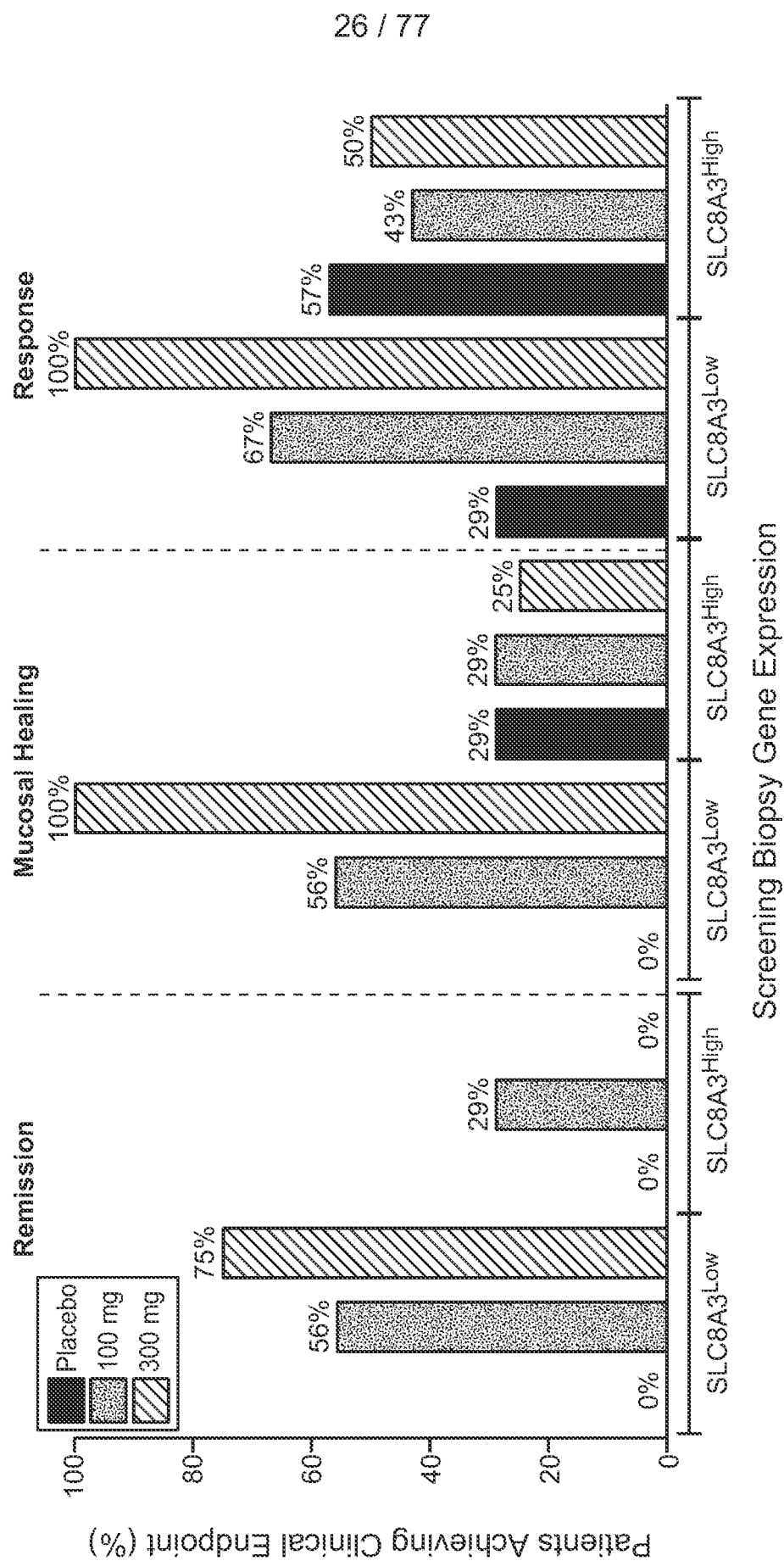
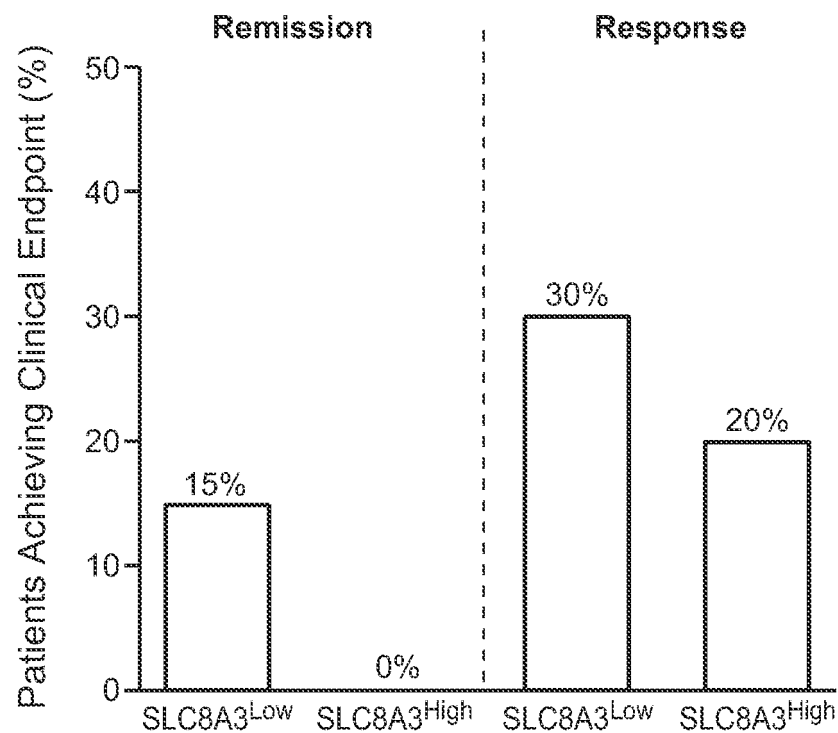
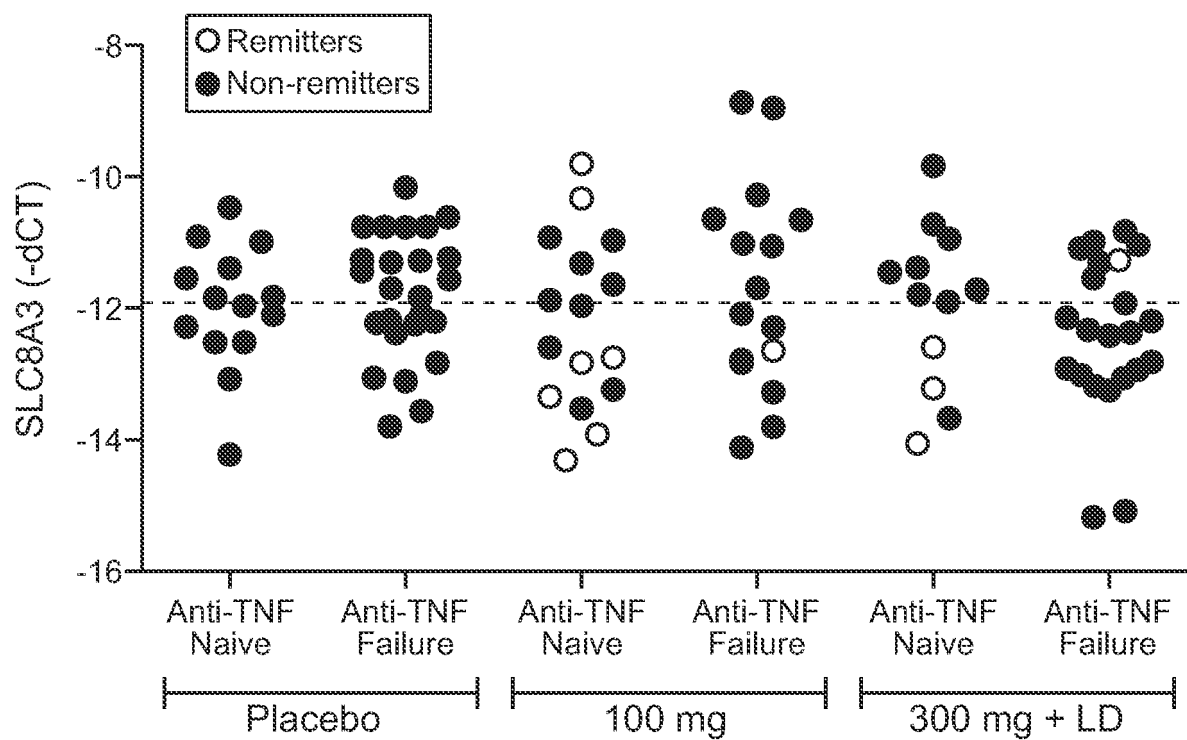


FIG. 14A

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**FIG. 14B****FIG. 14C**

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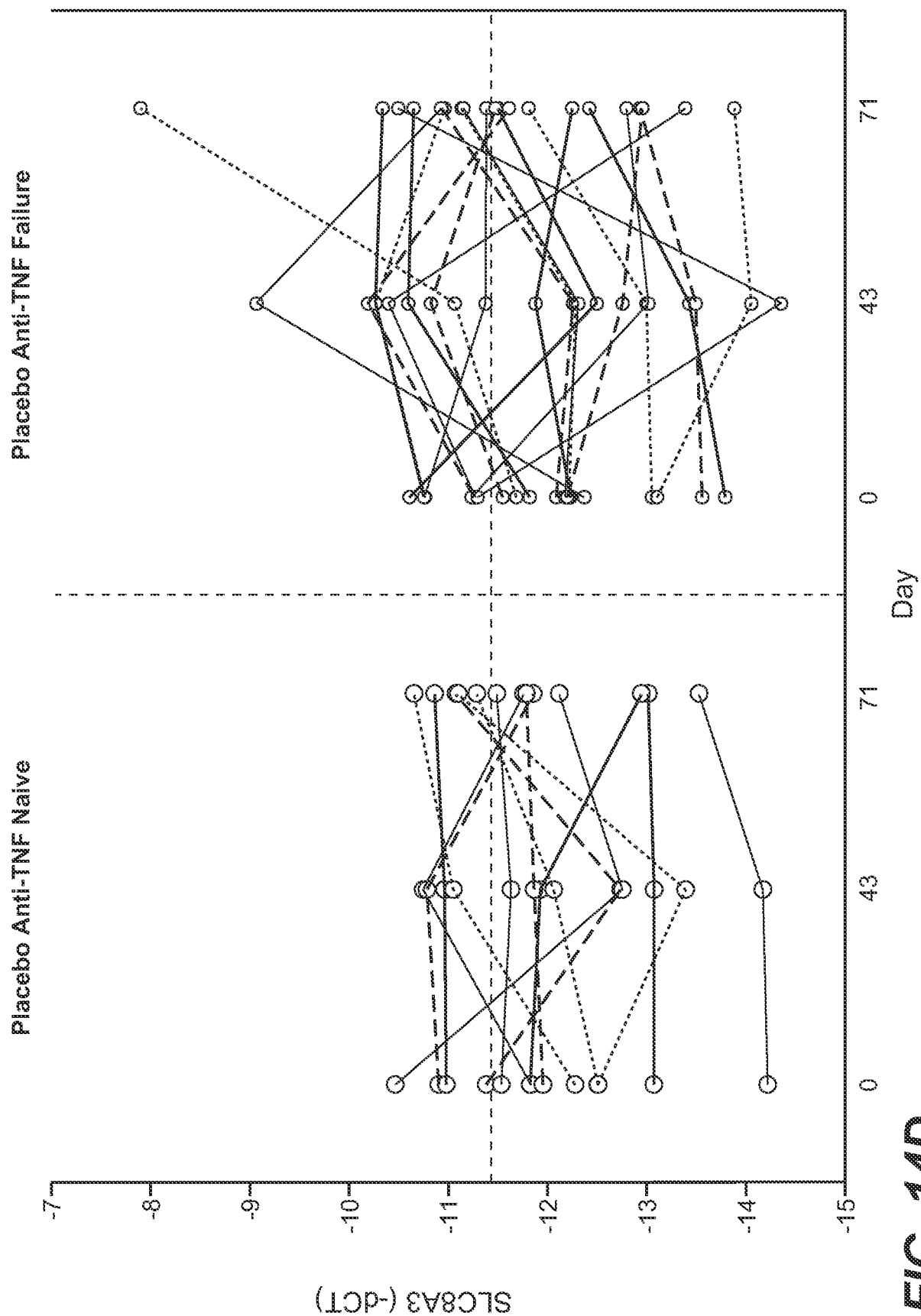


FIG. 14D

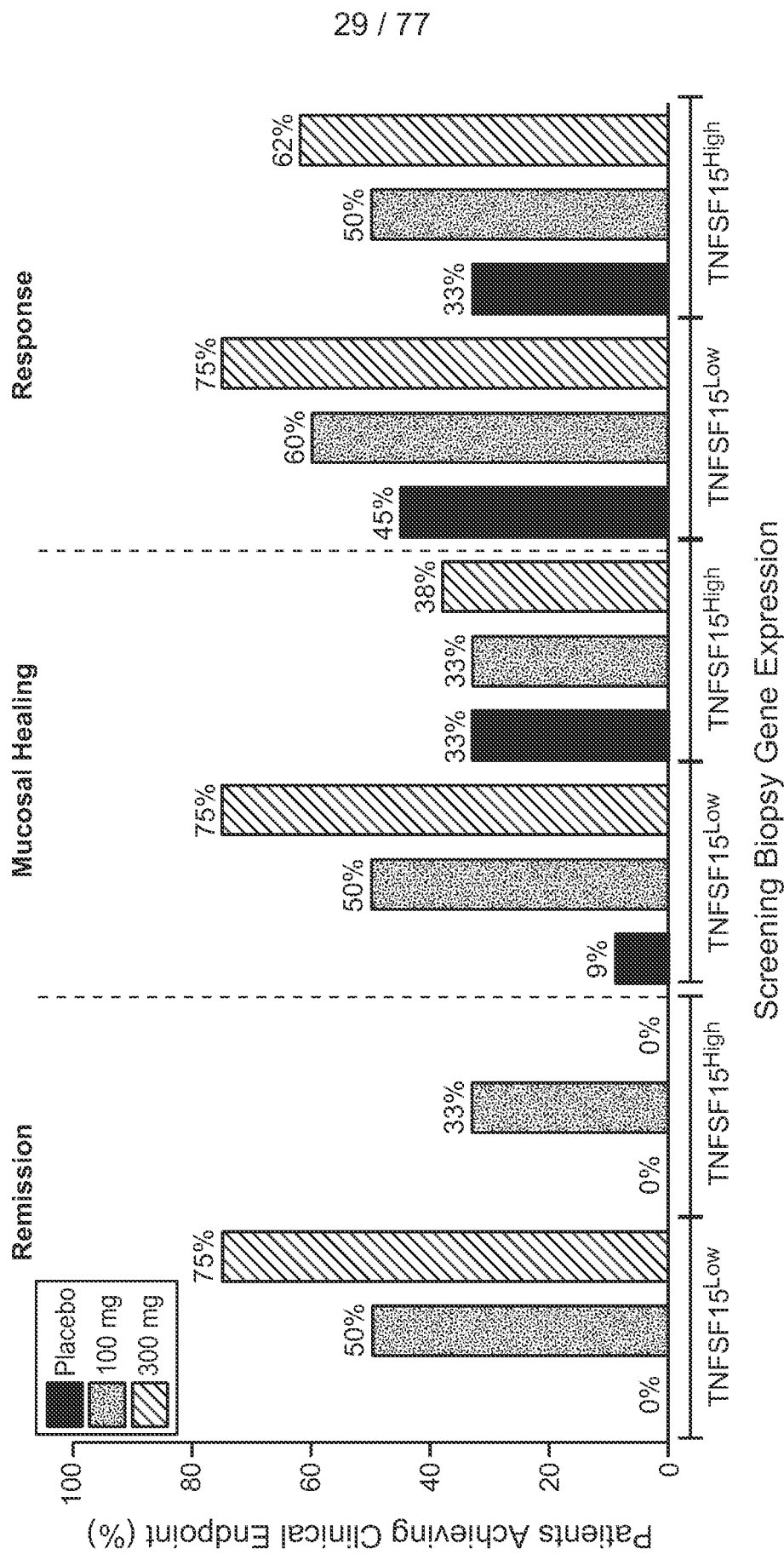
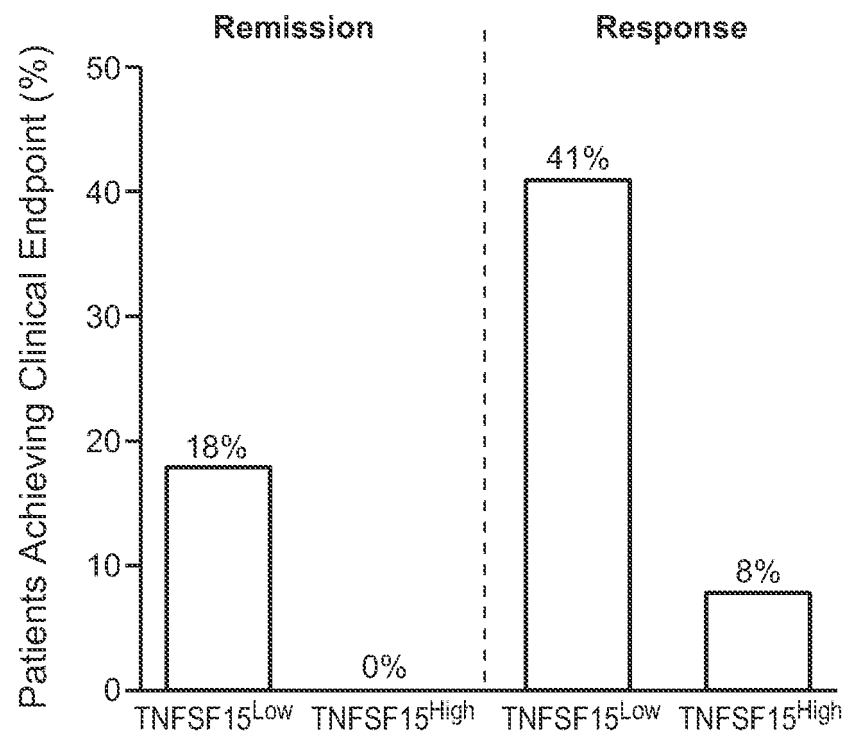
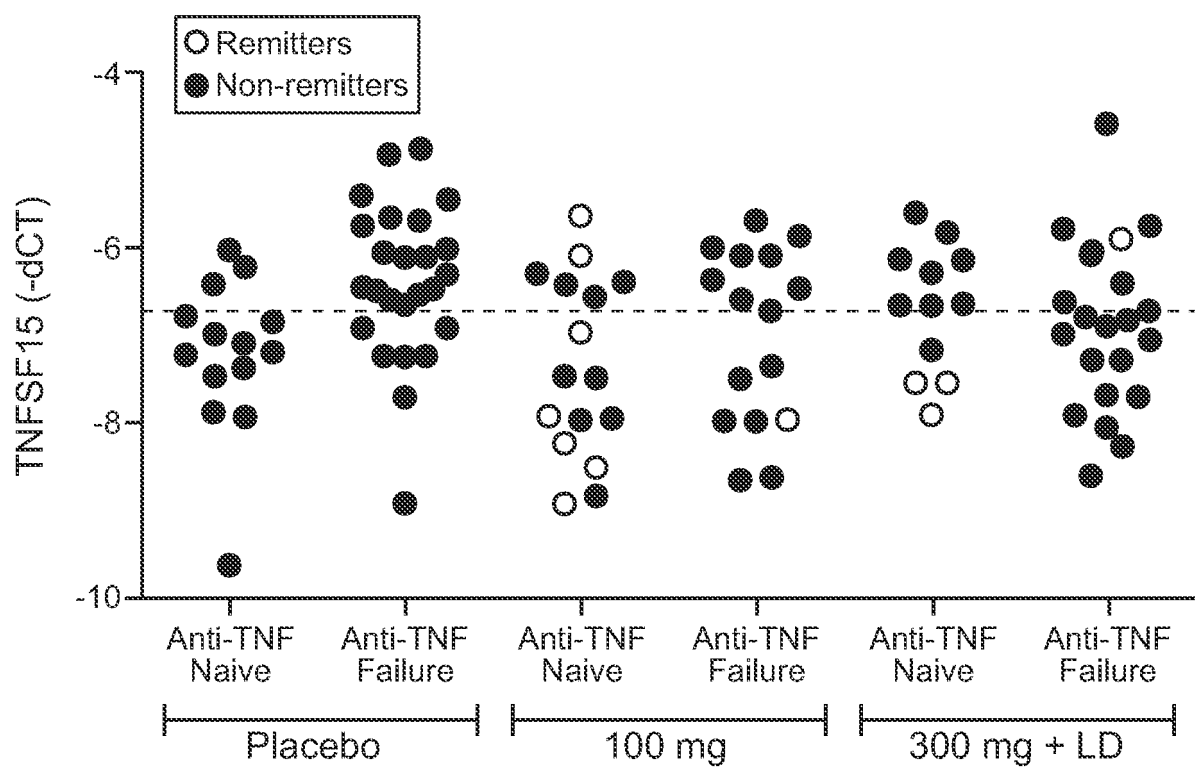


FIG. 15A

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**FIG. 15B****FIG. 15C**

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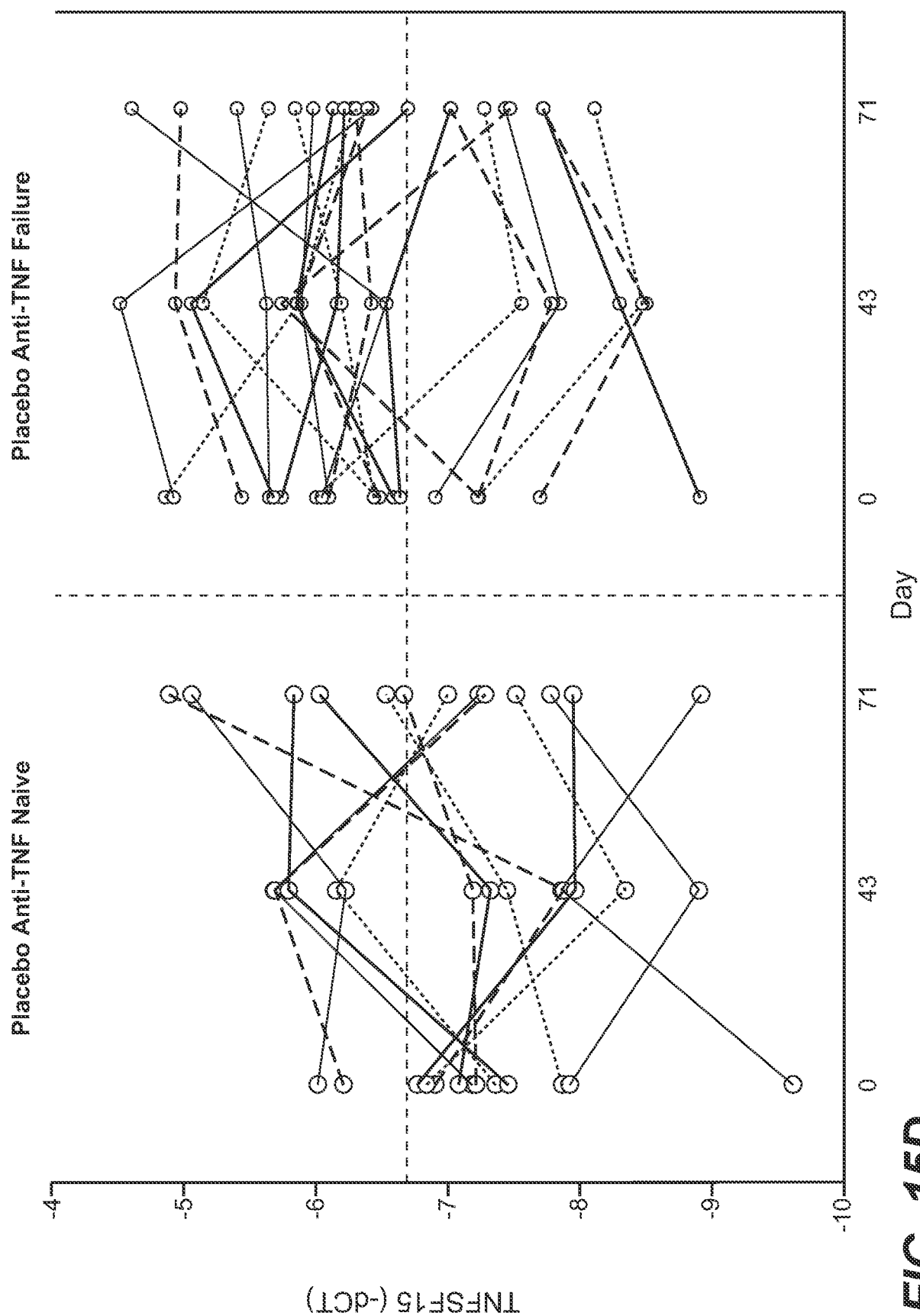


FIG. 15D

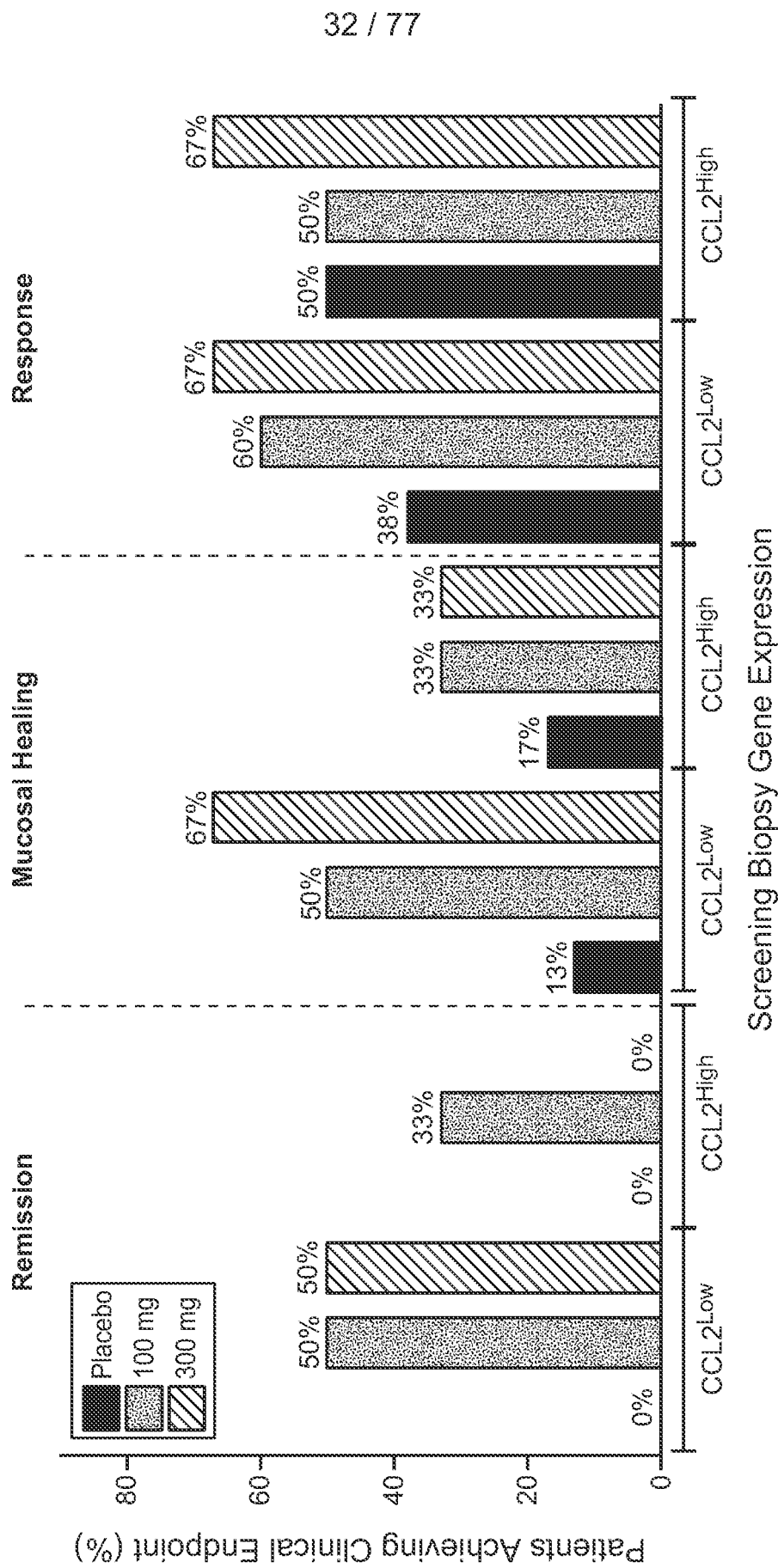
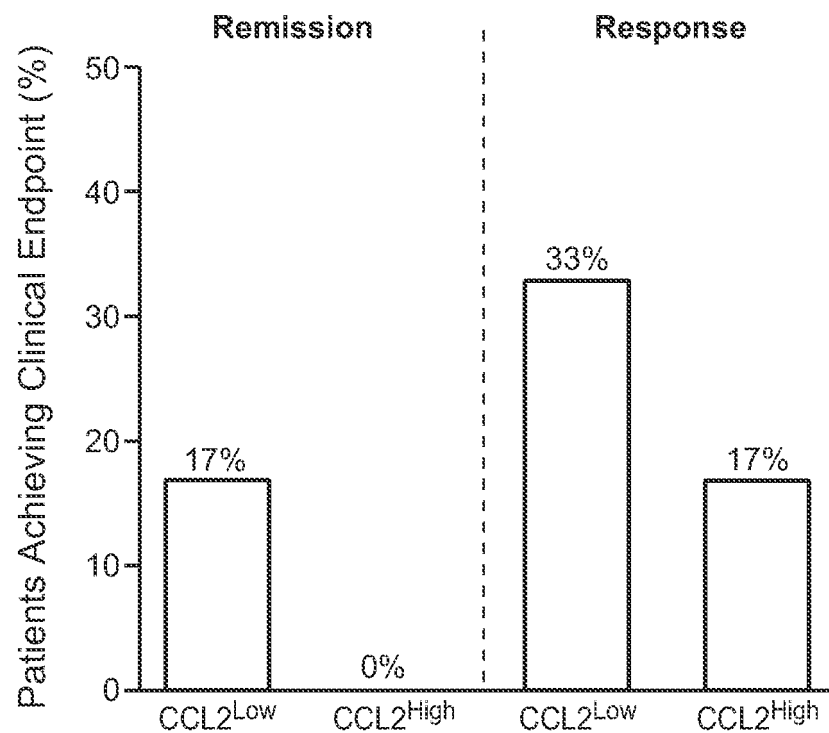
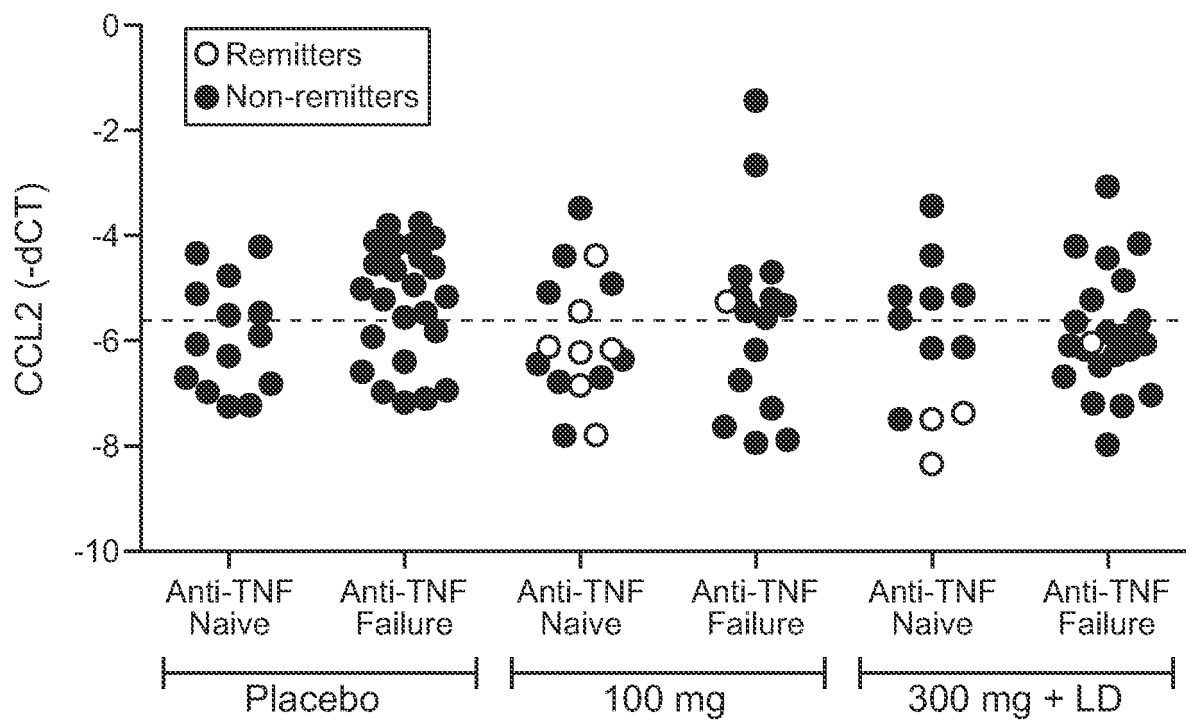


FIG. 16A

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**FIG. 16B****FIG. 16C**

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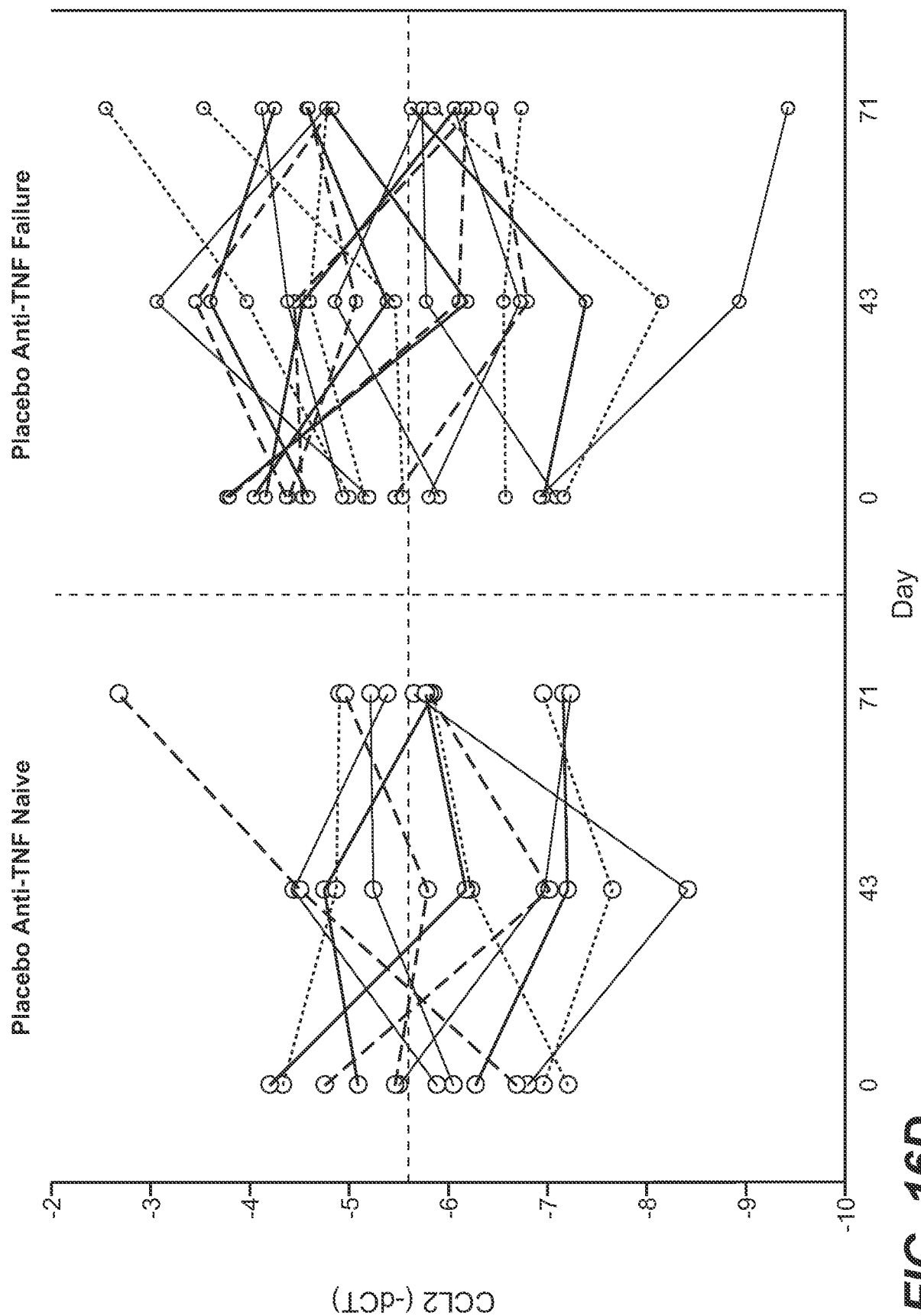


FIG. 16D

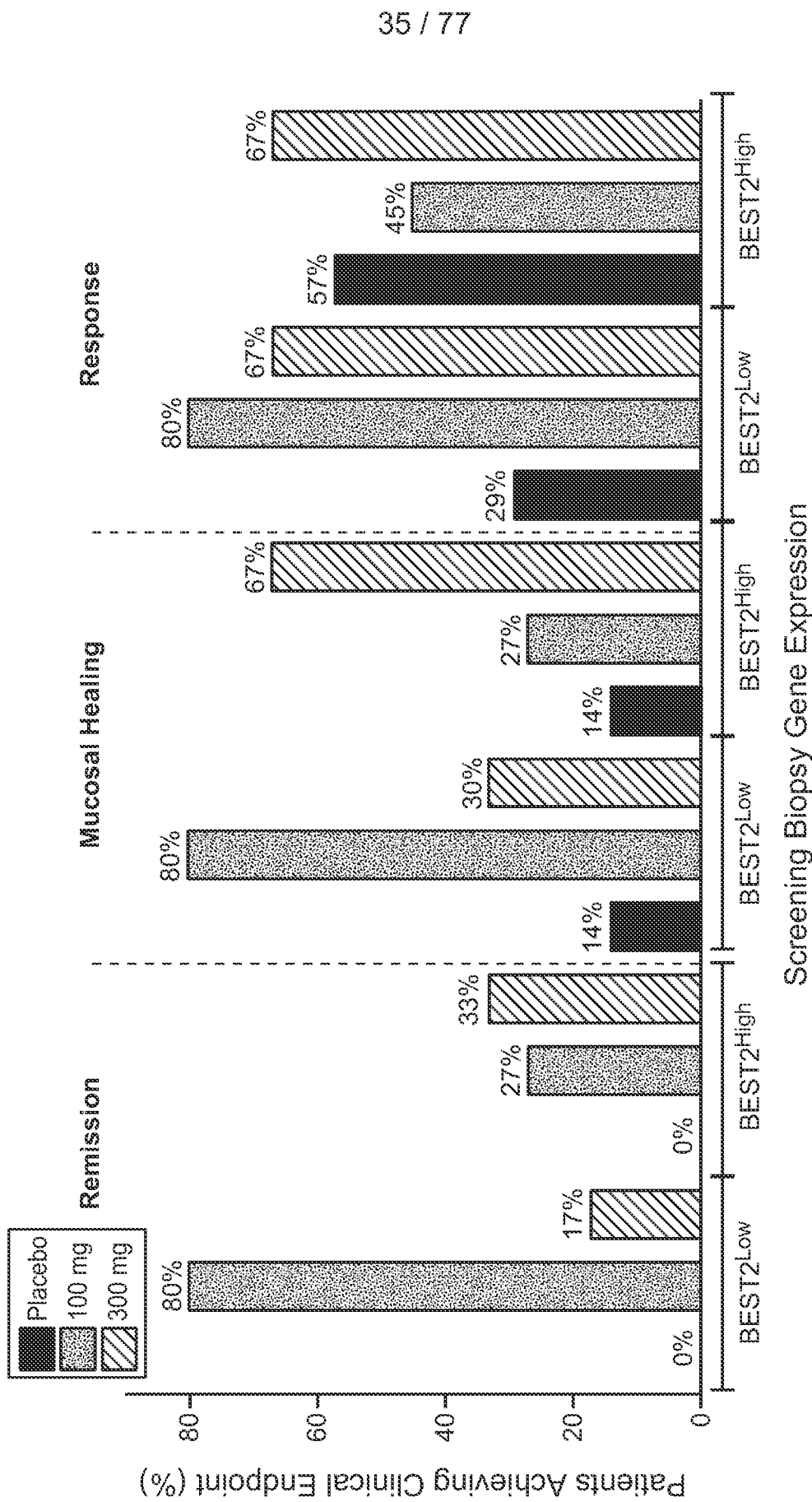
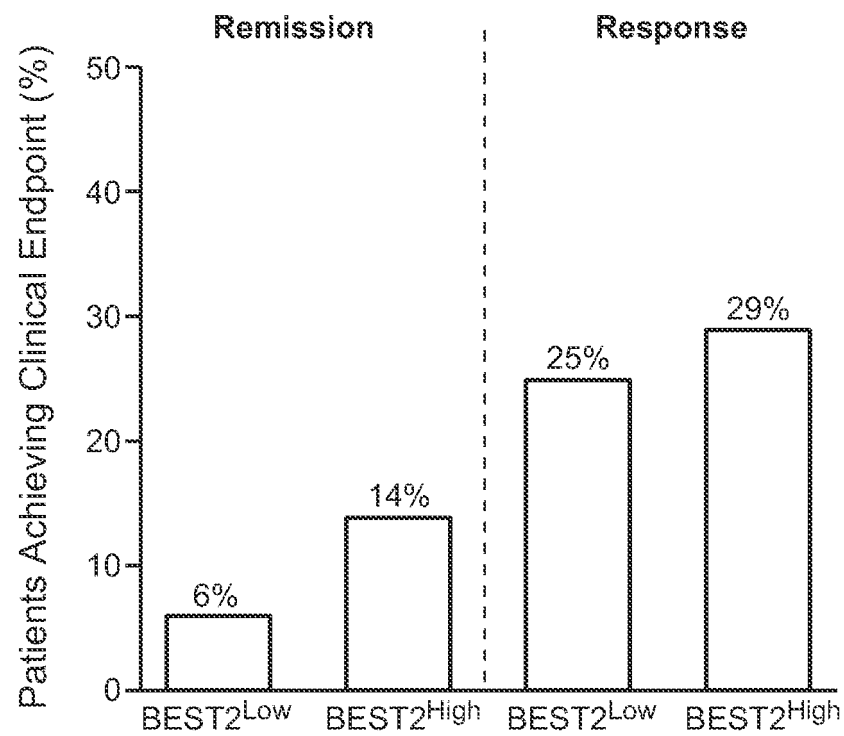
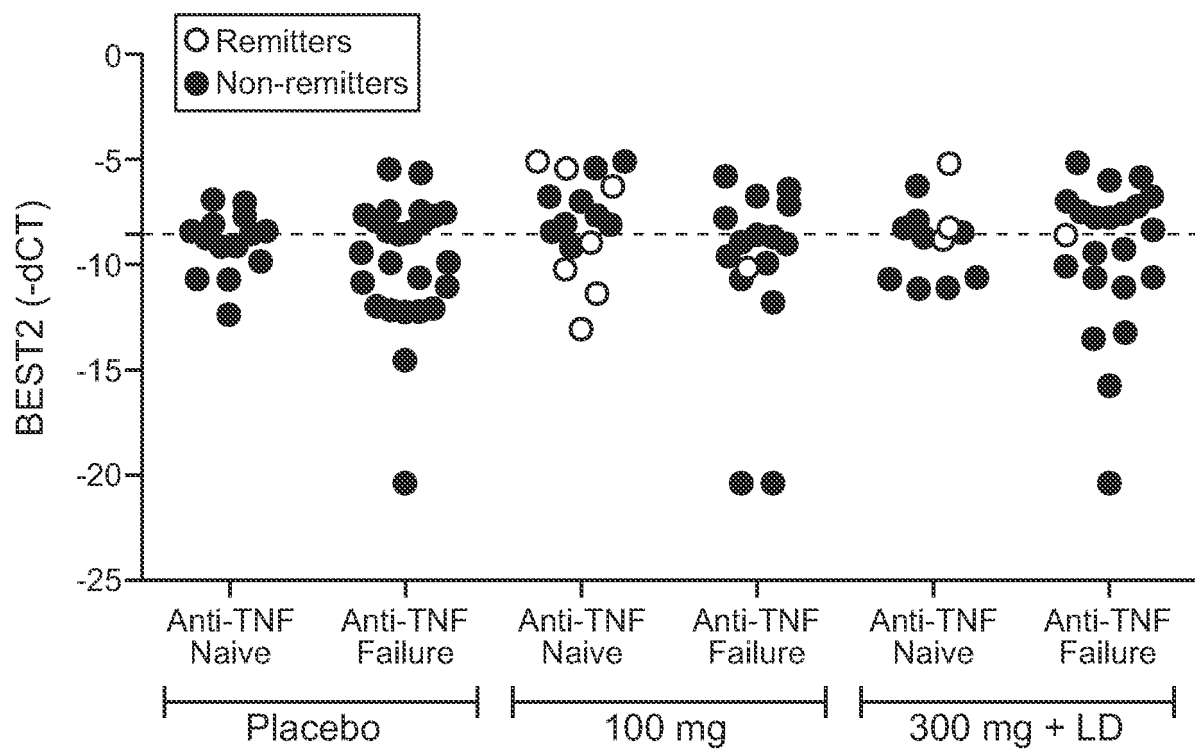


FIG. 17A

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**FIG. 17B****FIG. 17C**

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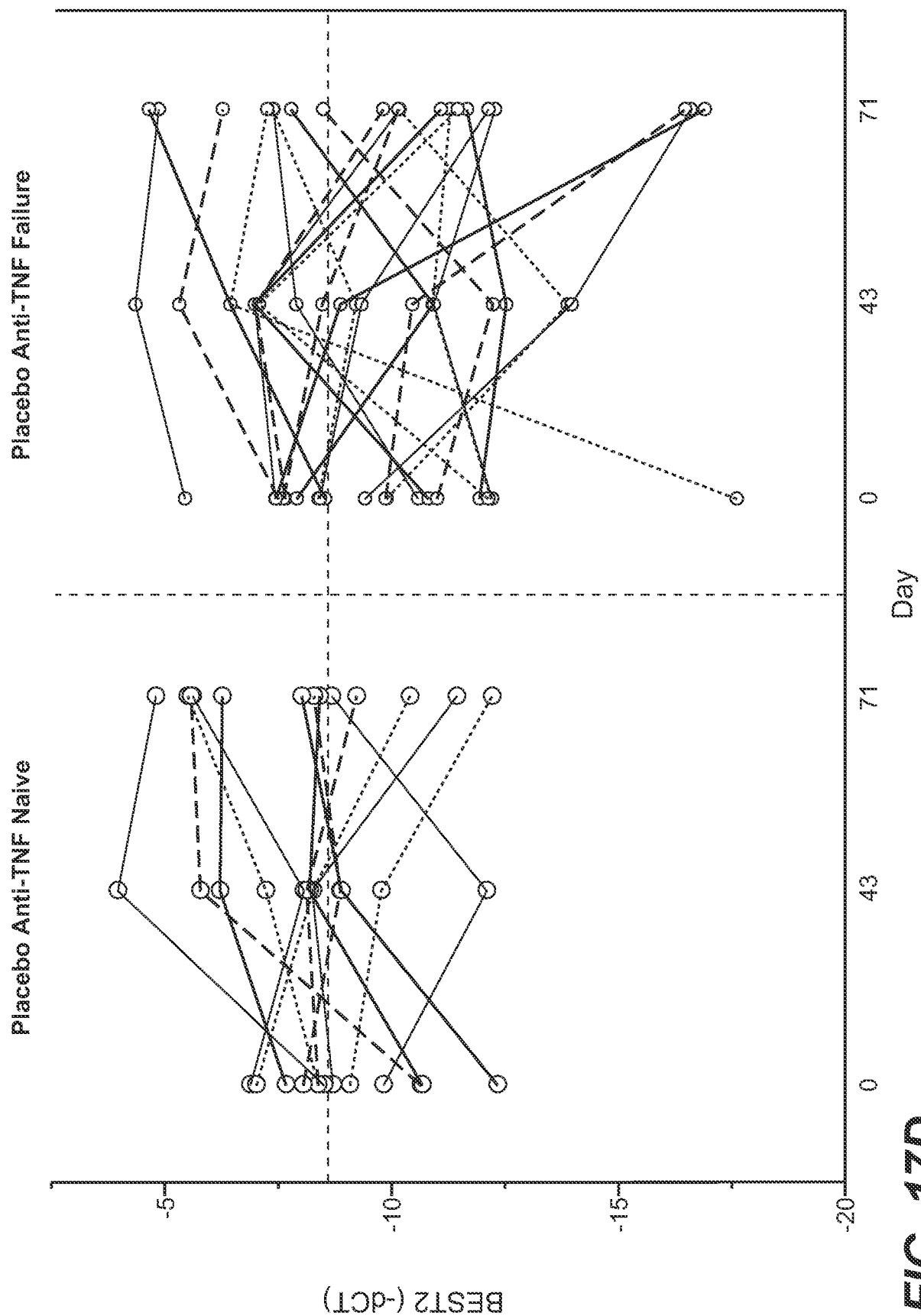


FIG. 17D

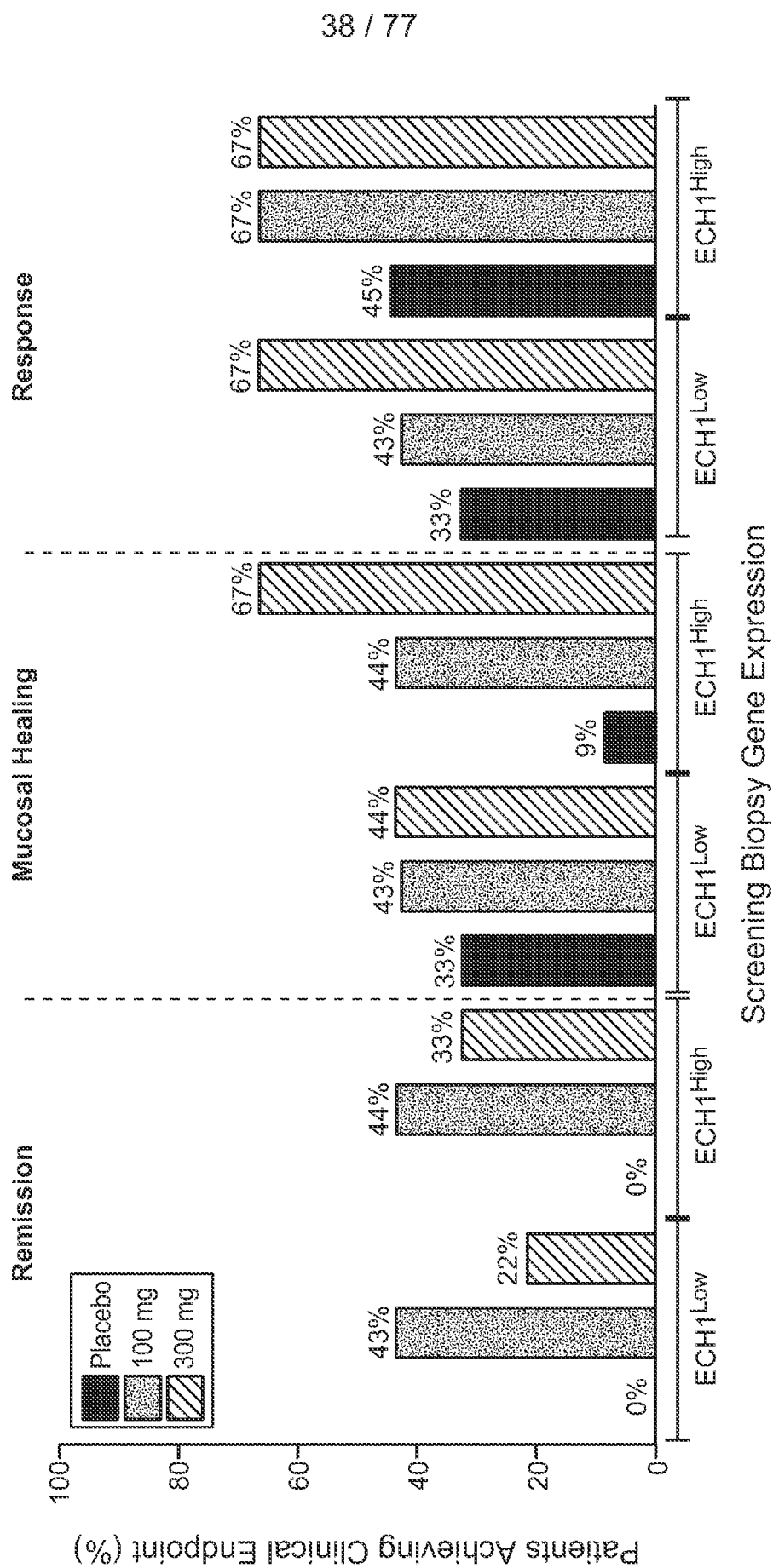
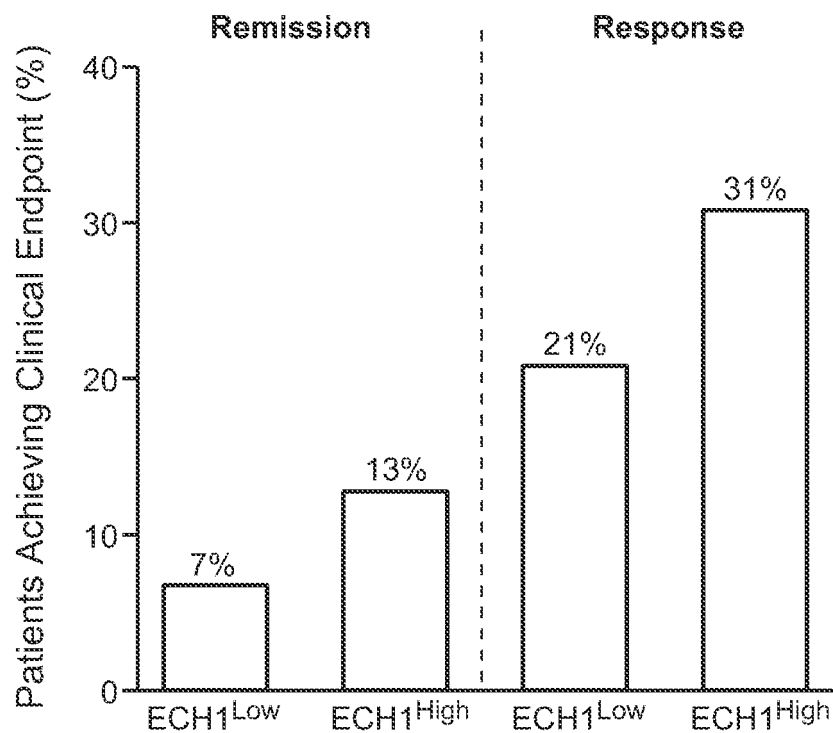
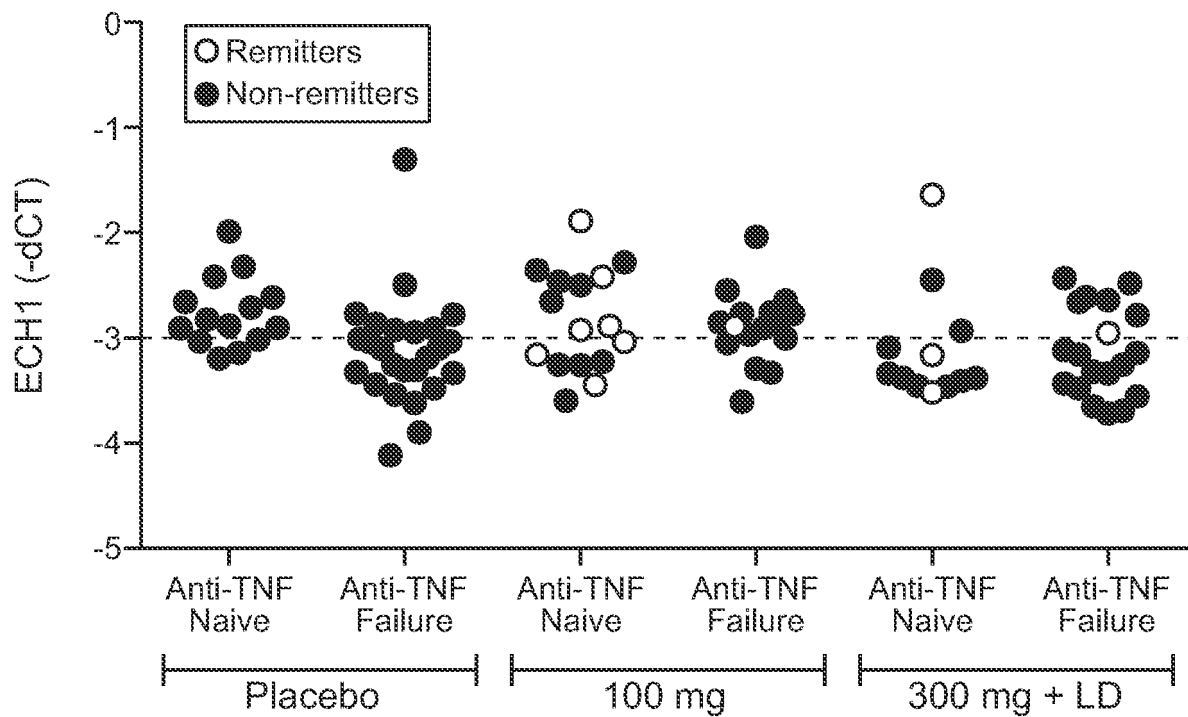
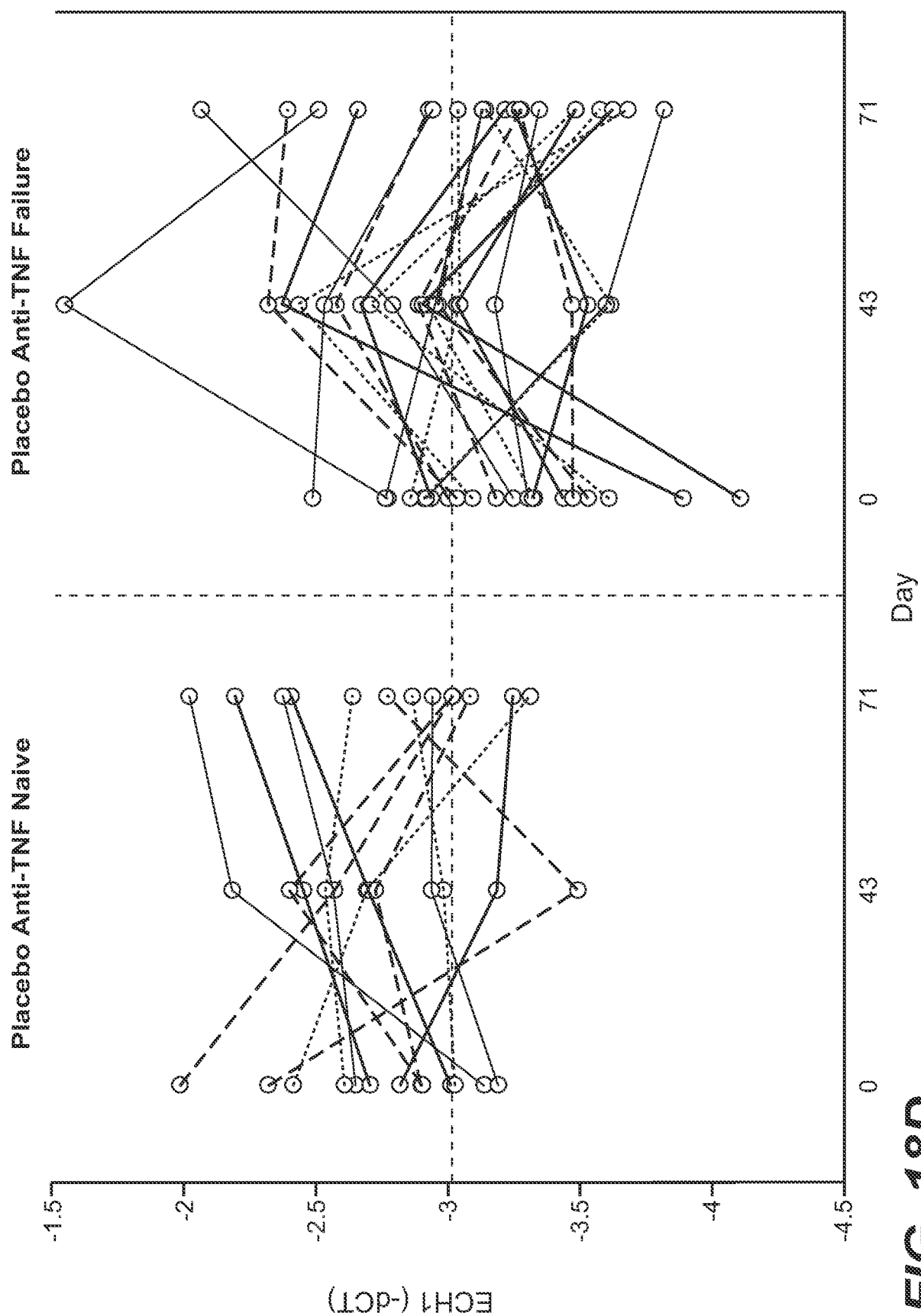


FIG. 18A

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**FIG. 18B****FIG. 18C**



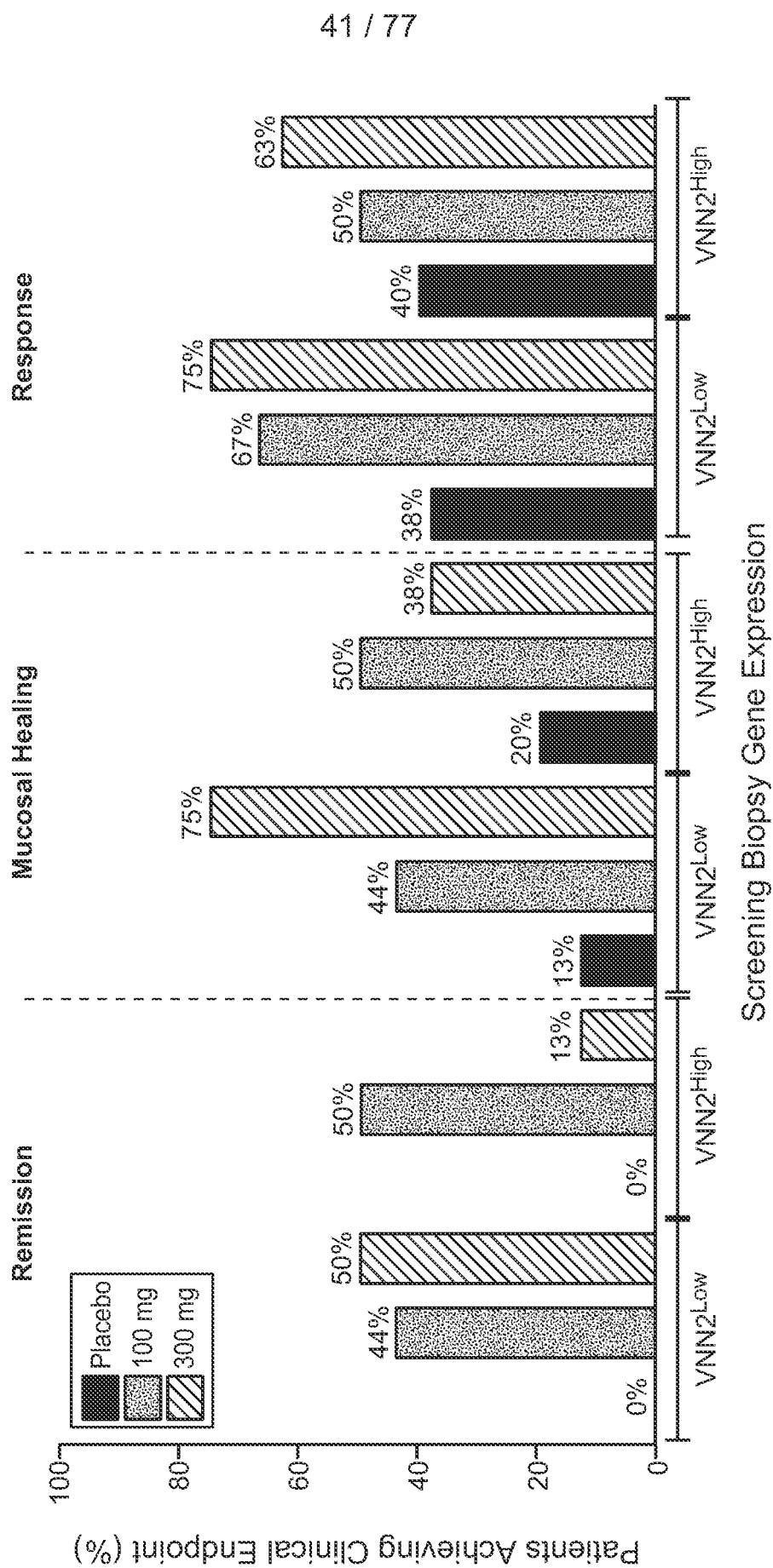
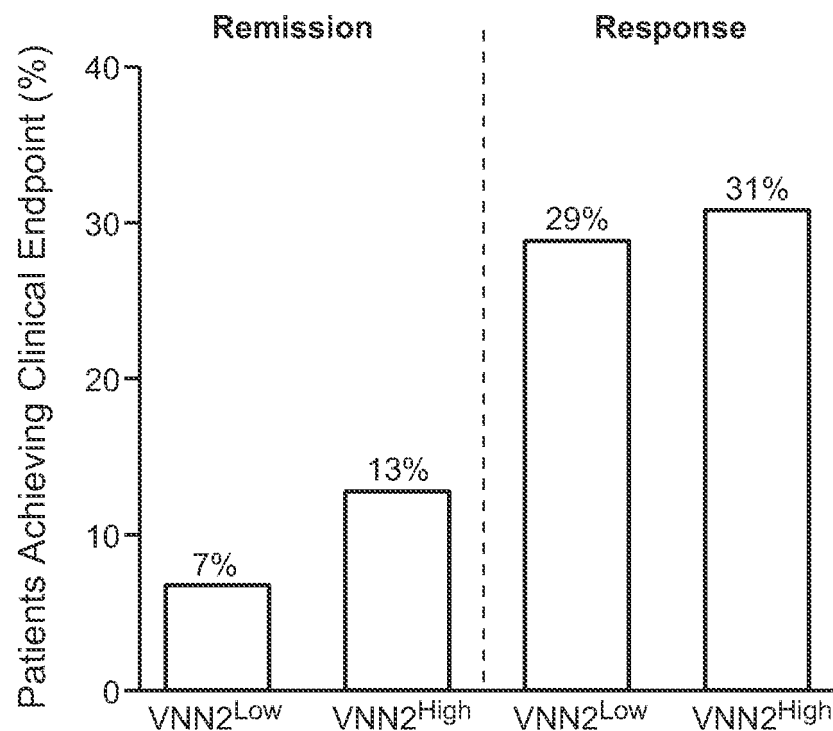
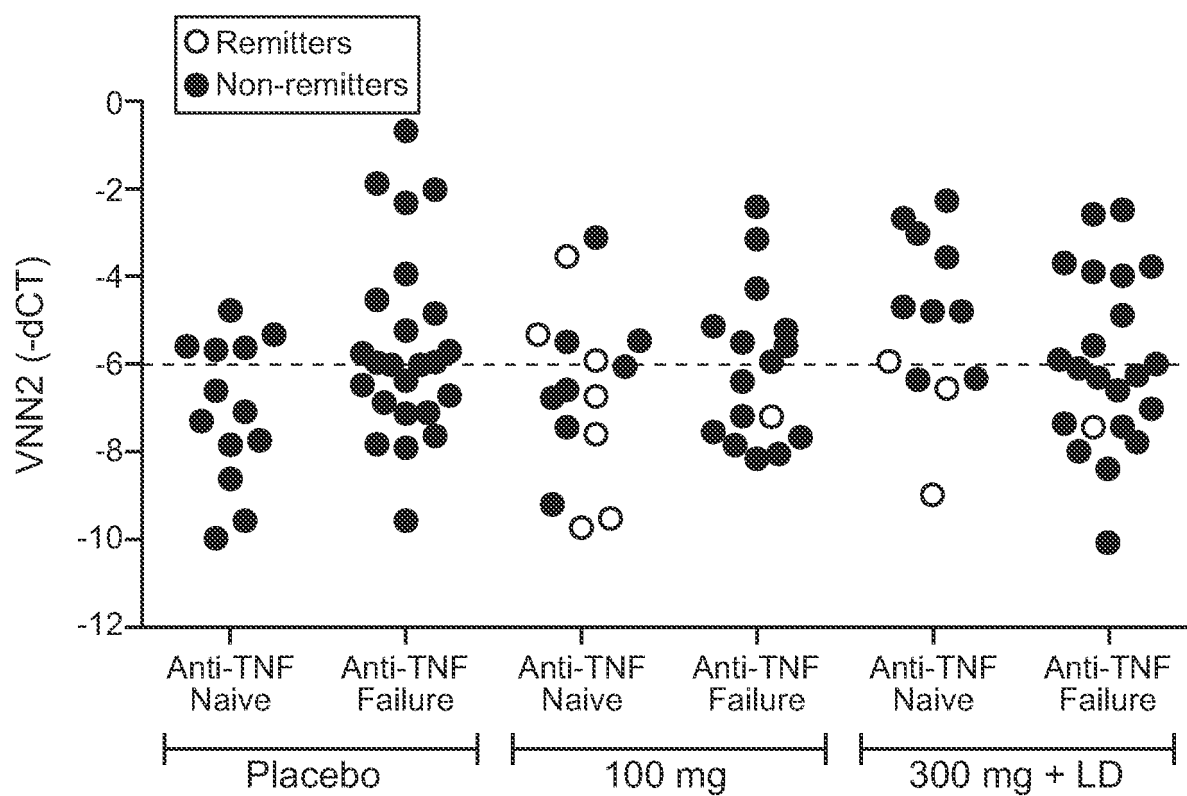
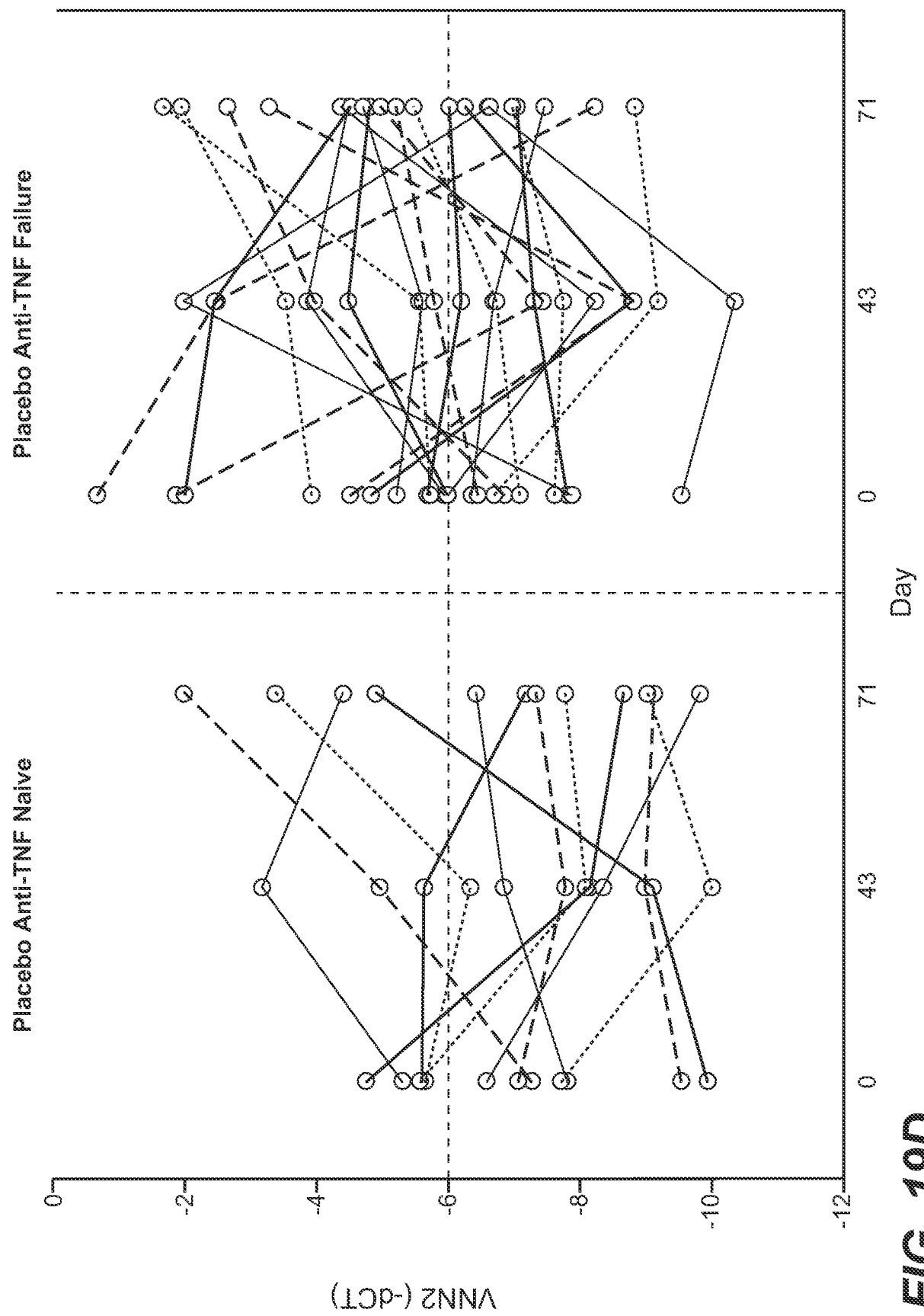


FIG. 19A

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**FIG. 19B****FIG. 19C**



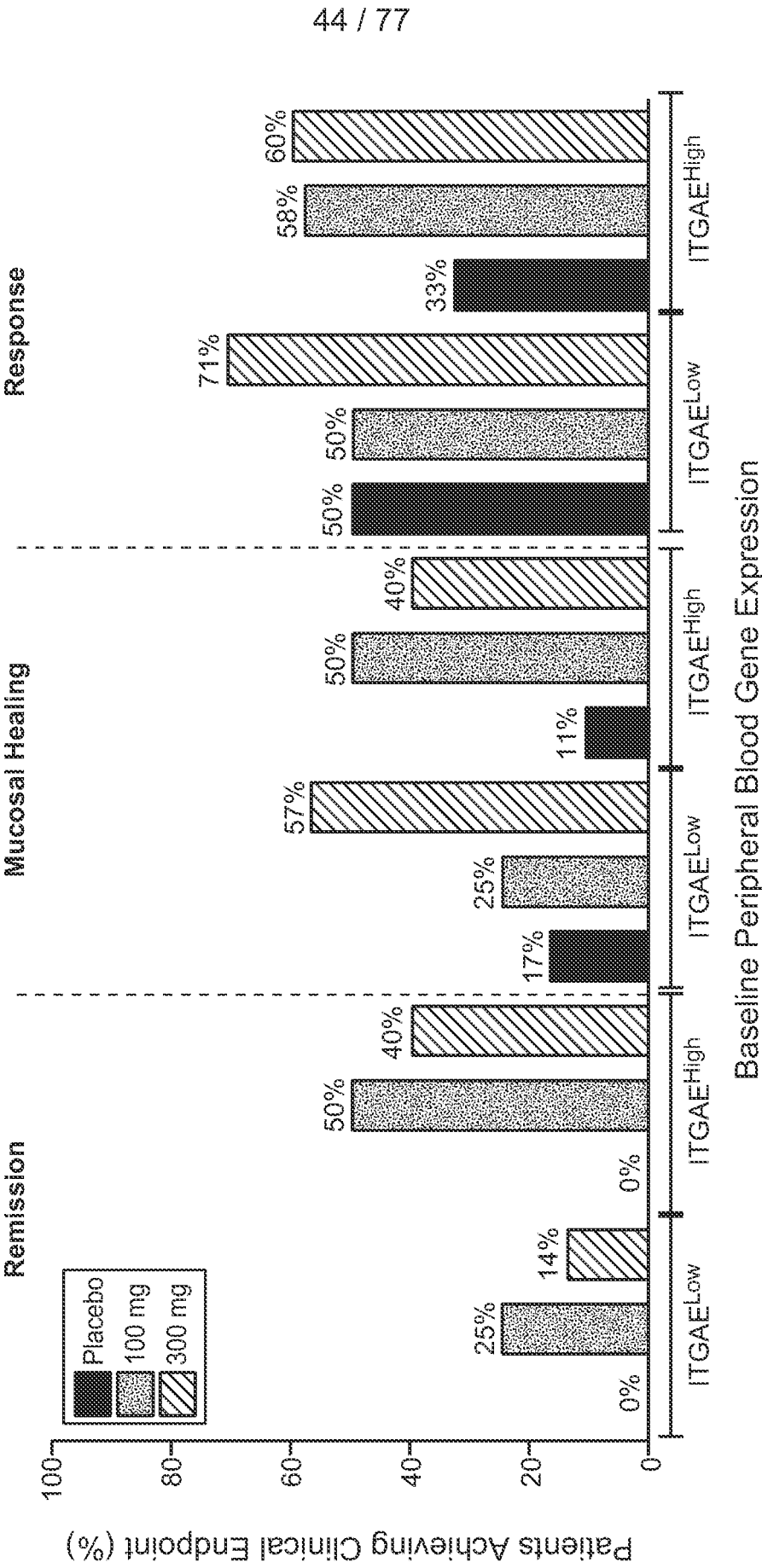
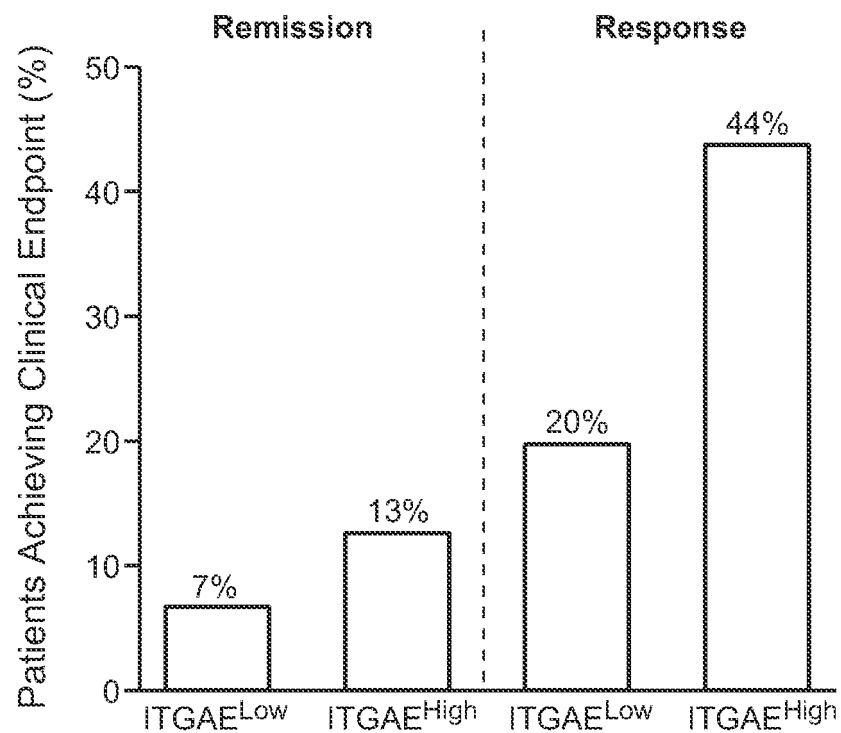
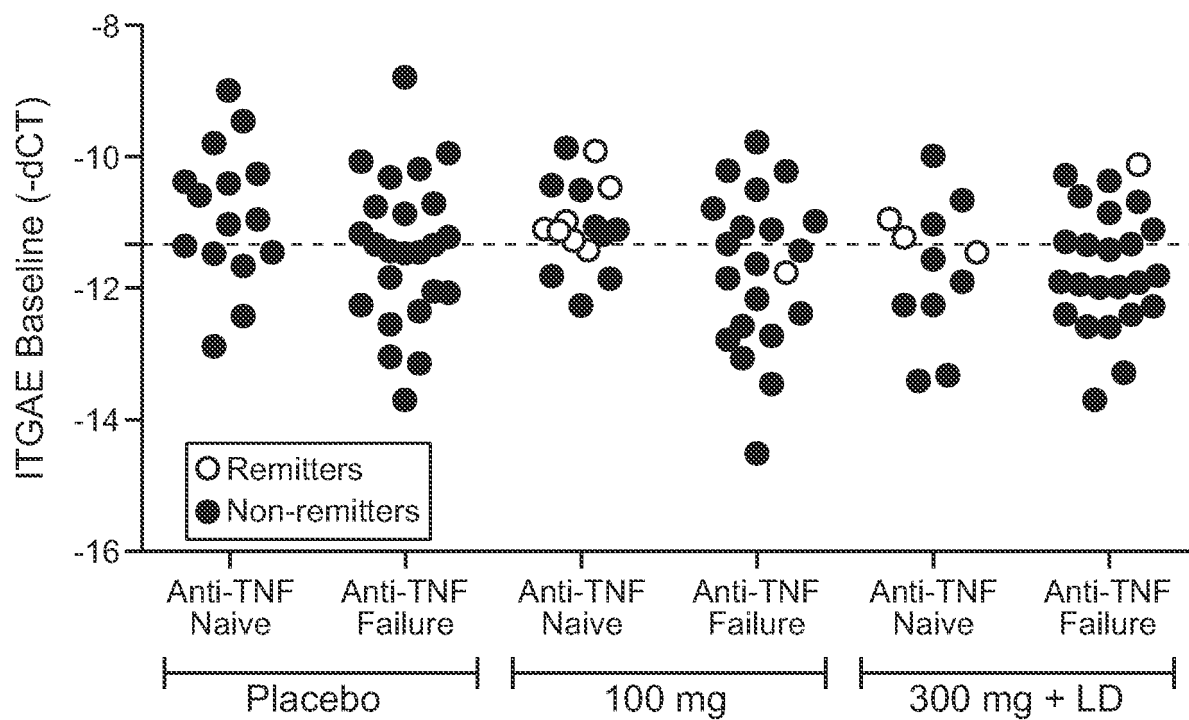


FIG. 20A

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**FIG. 20B****FIG. 20C**

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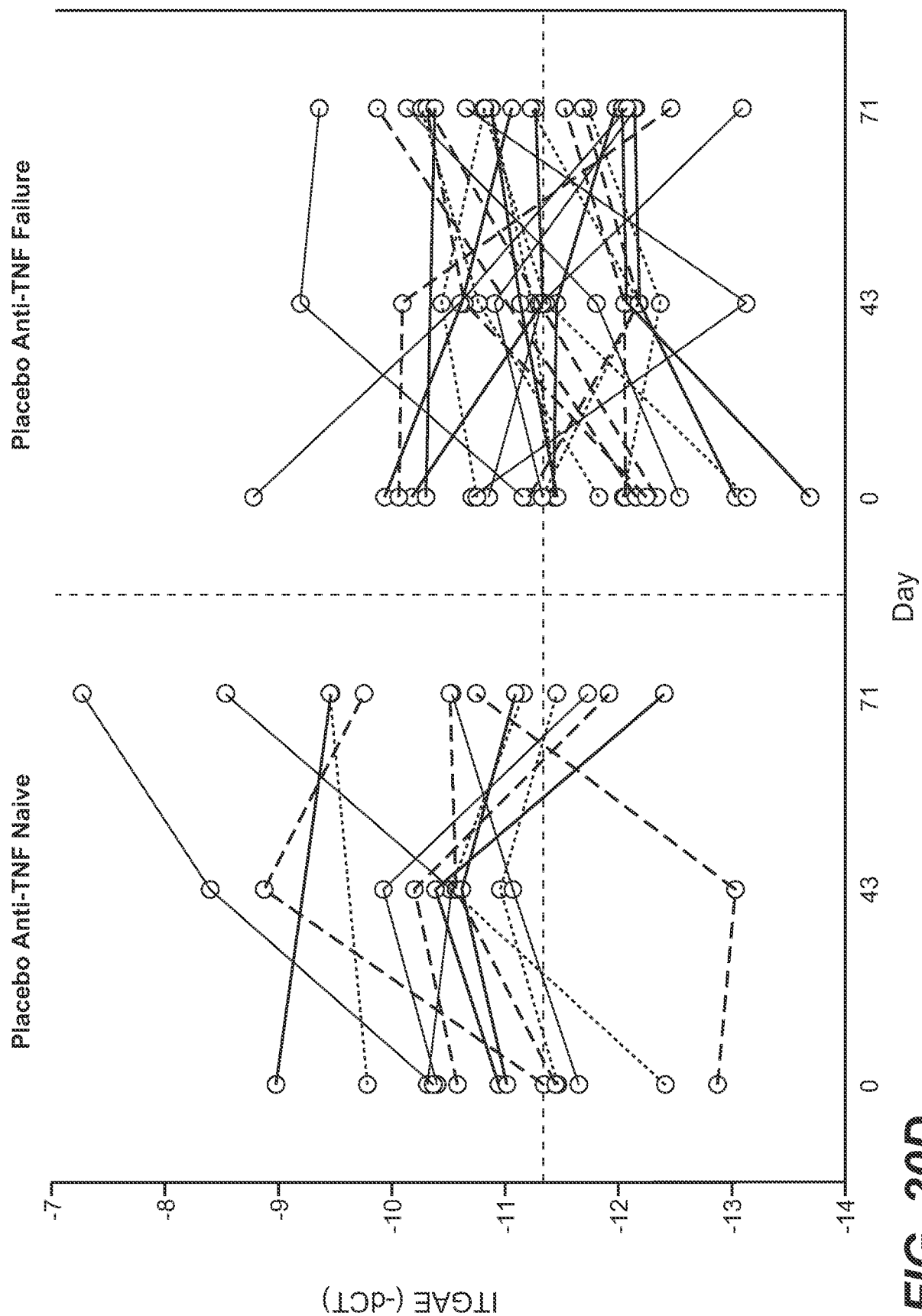


FIG. 20D

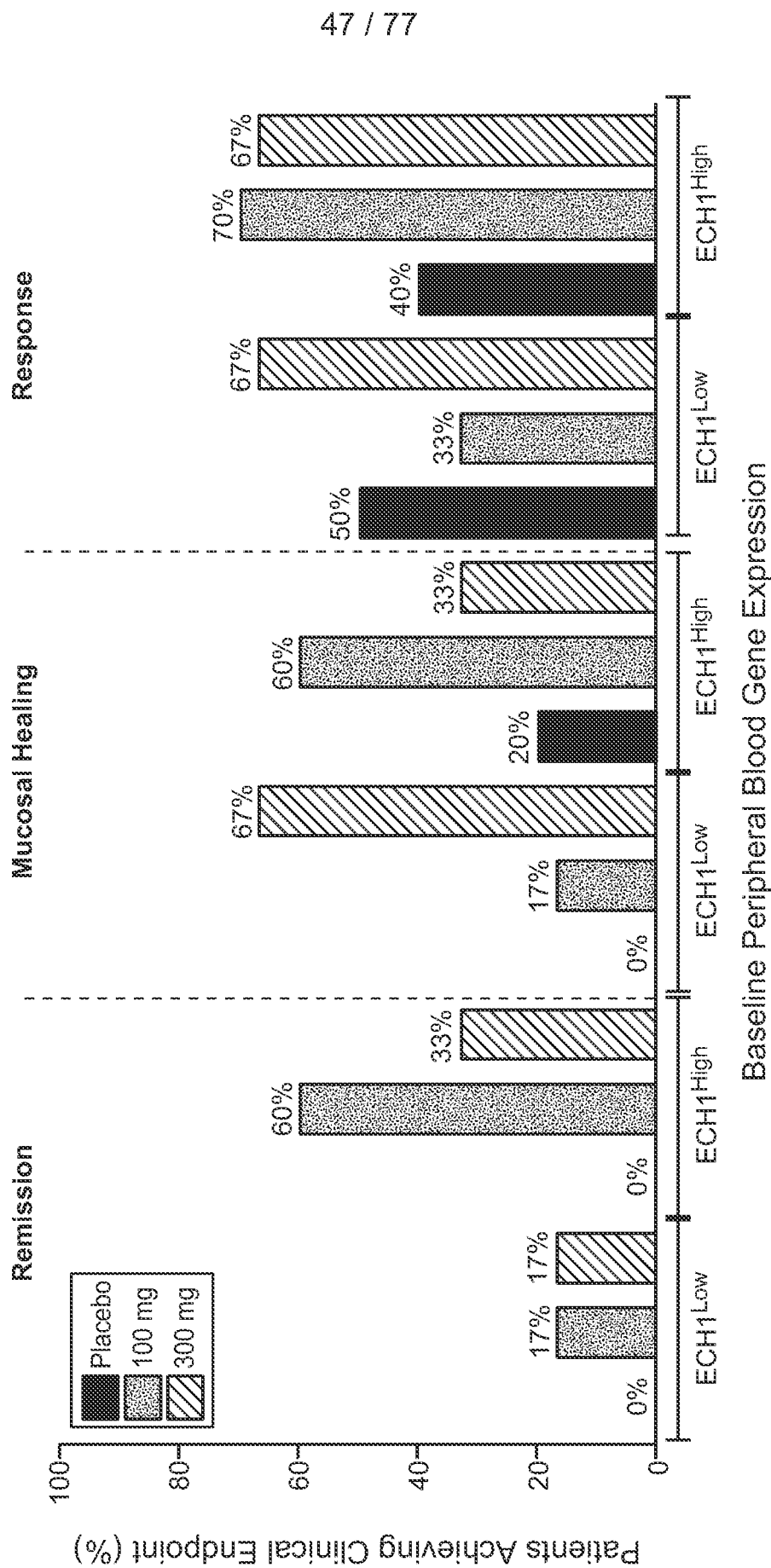
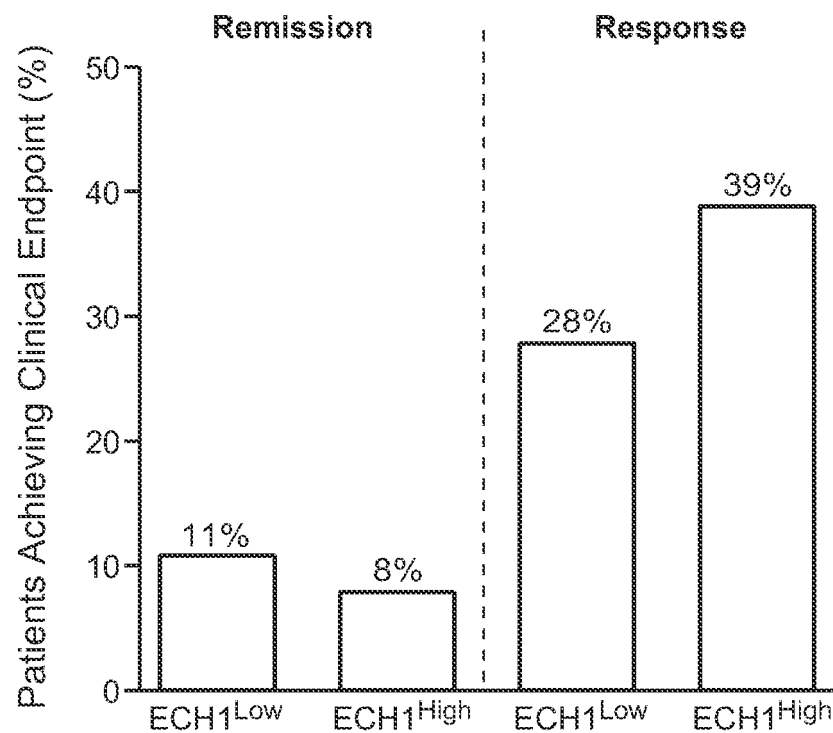
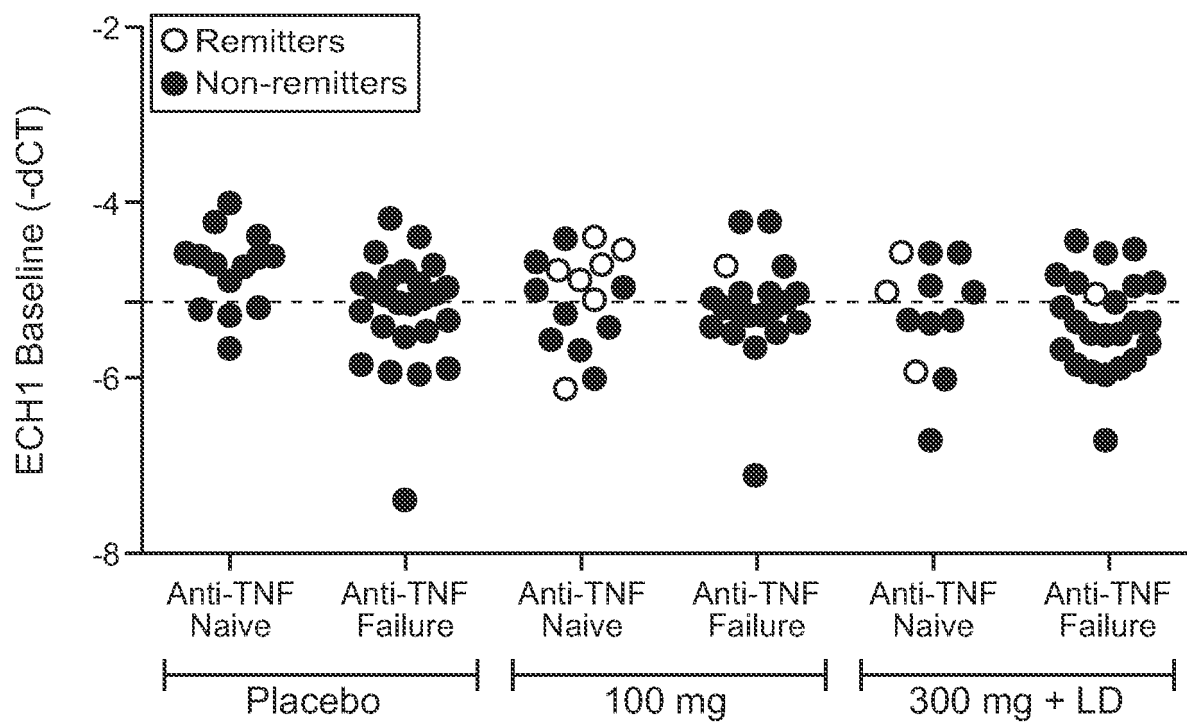


FIG. 21A

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**FIG. 21B****FIG. 21C**

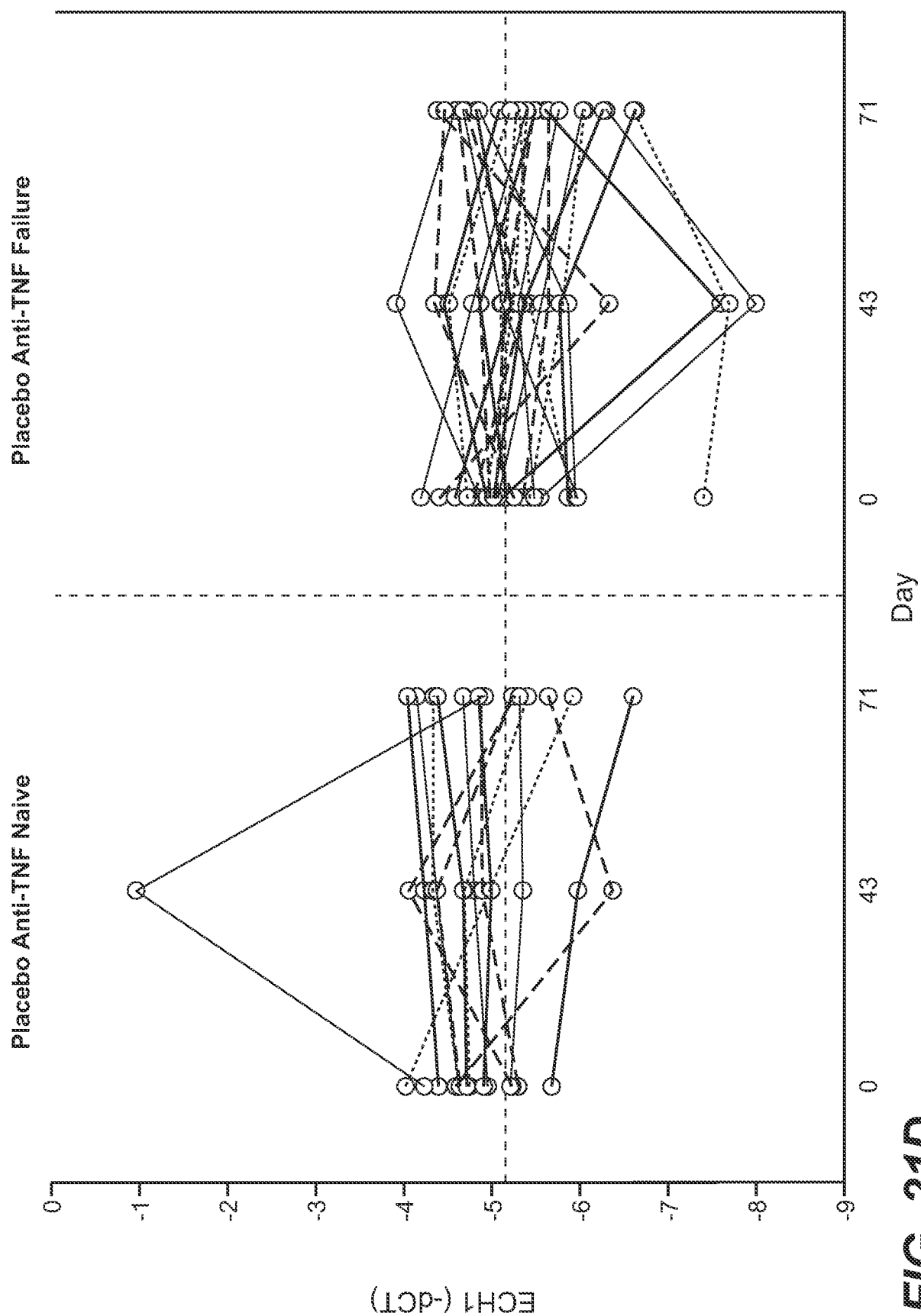


FIG. 21D

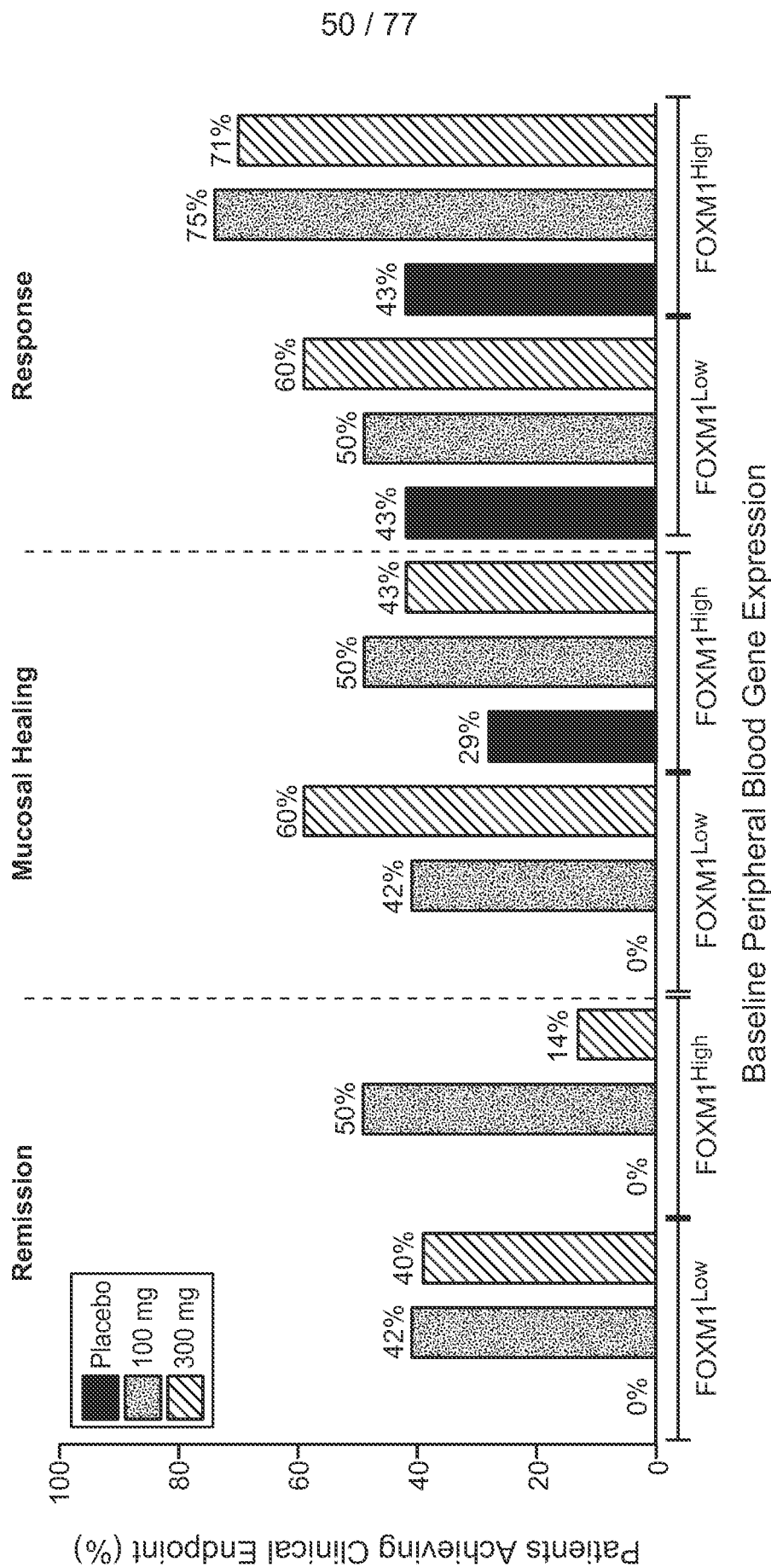
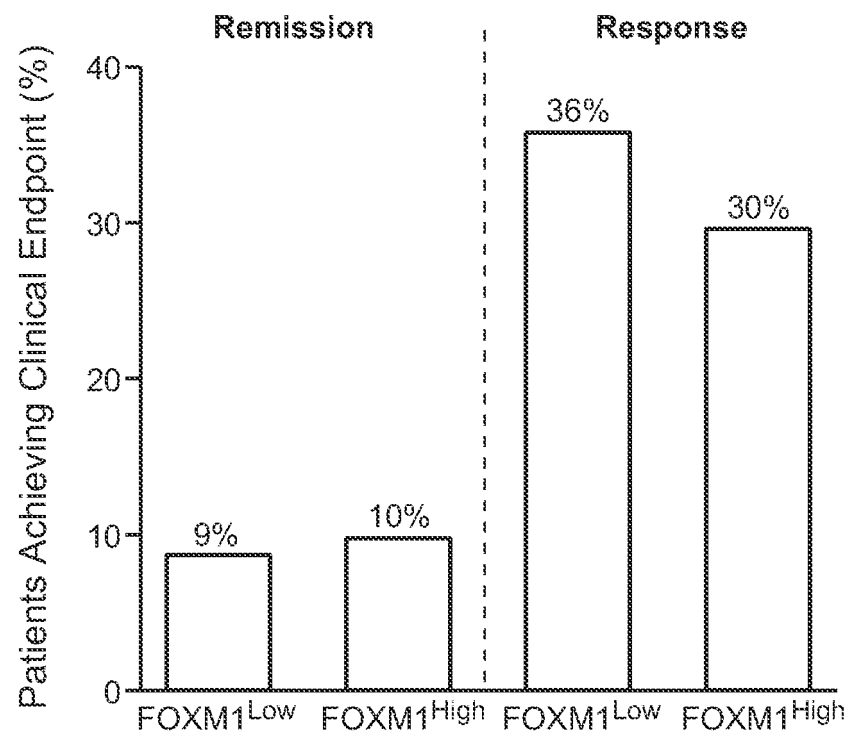
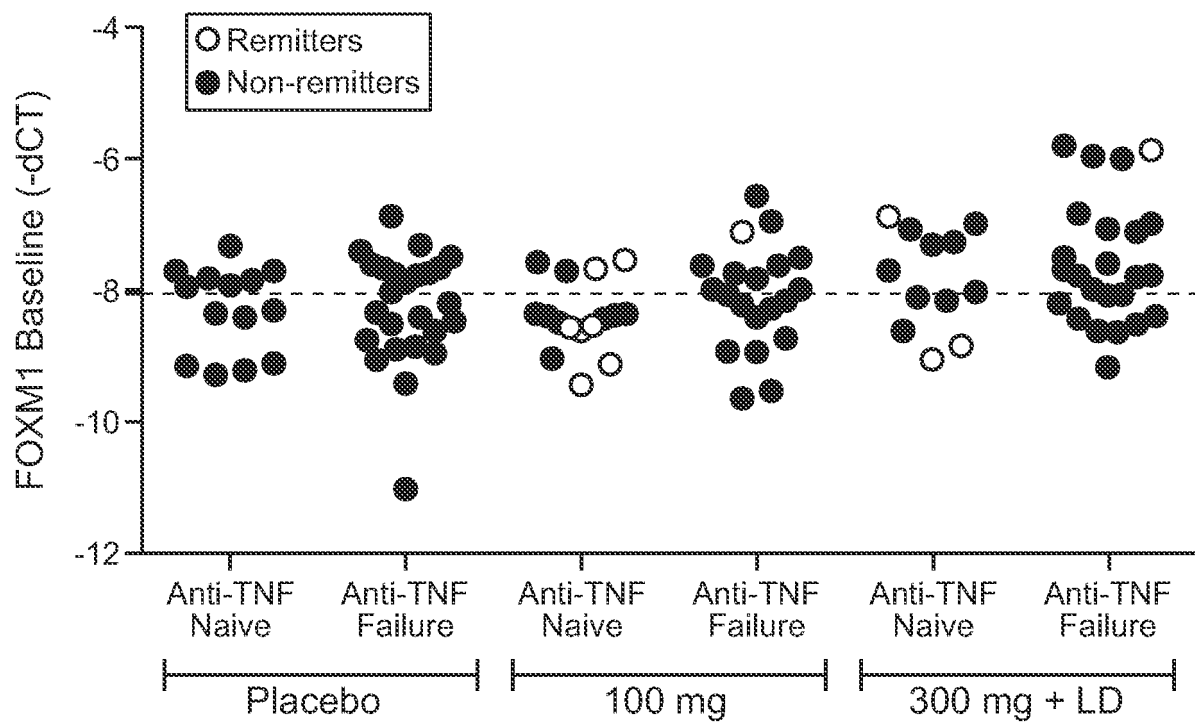


FIG. 22A

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**FIG. 22B****FIG. 22C**

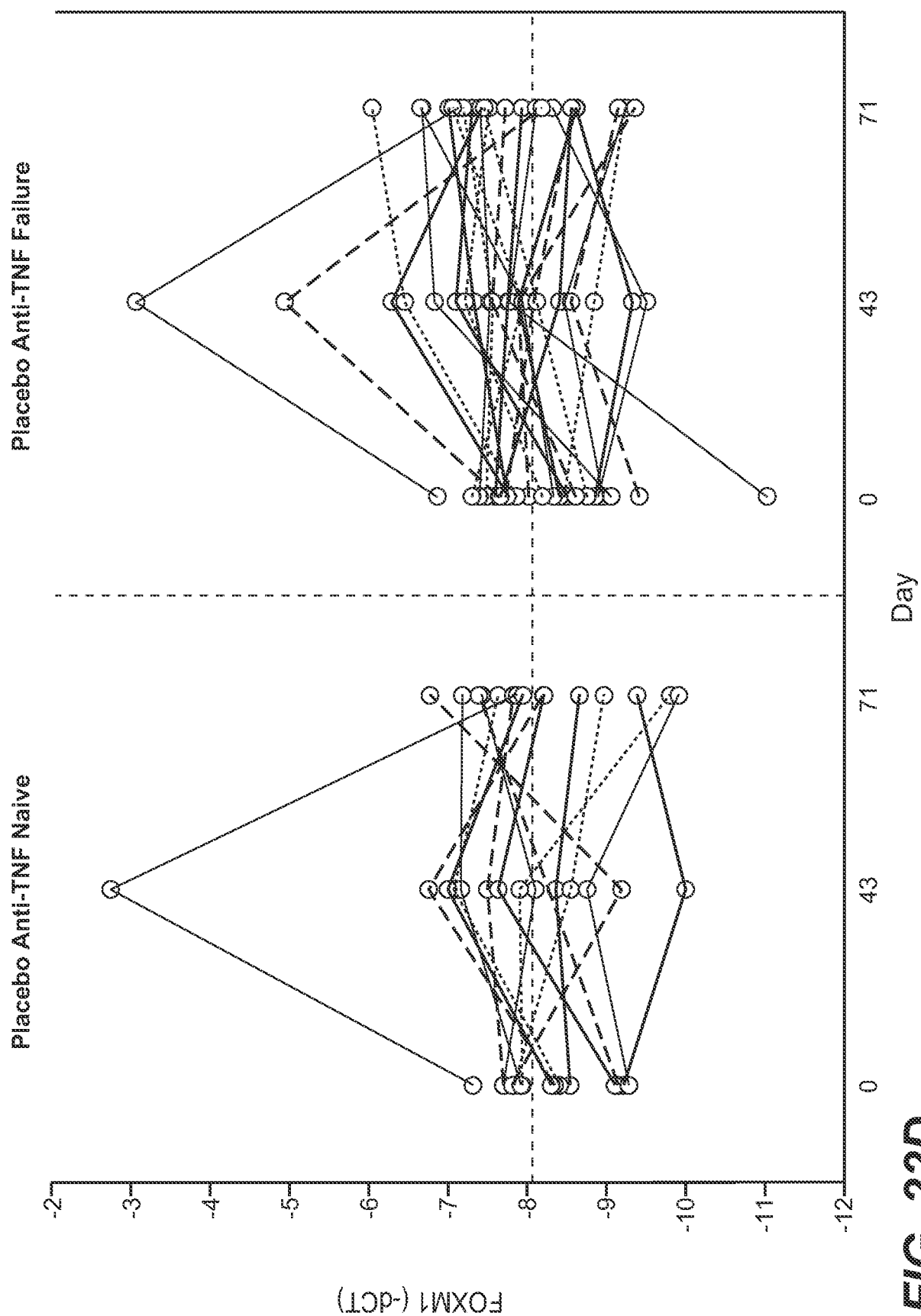


FIG. 22D

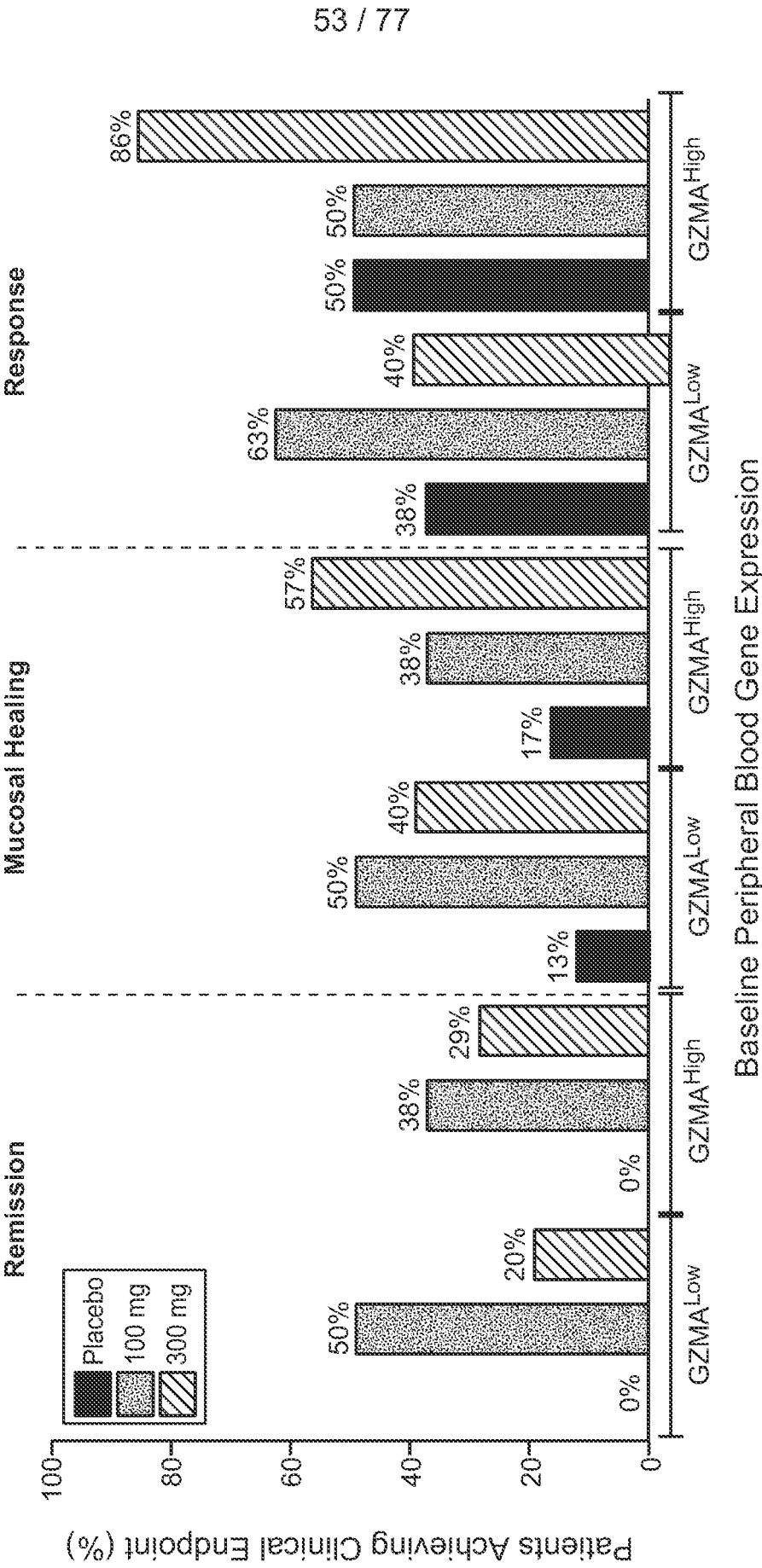
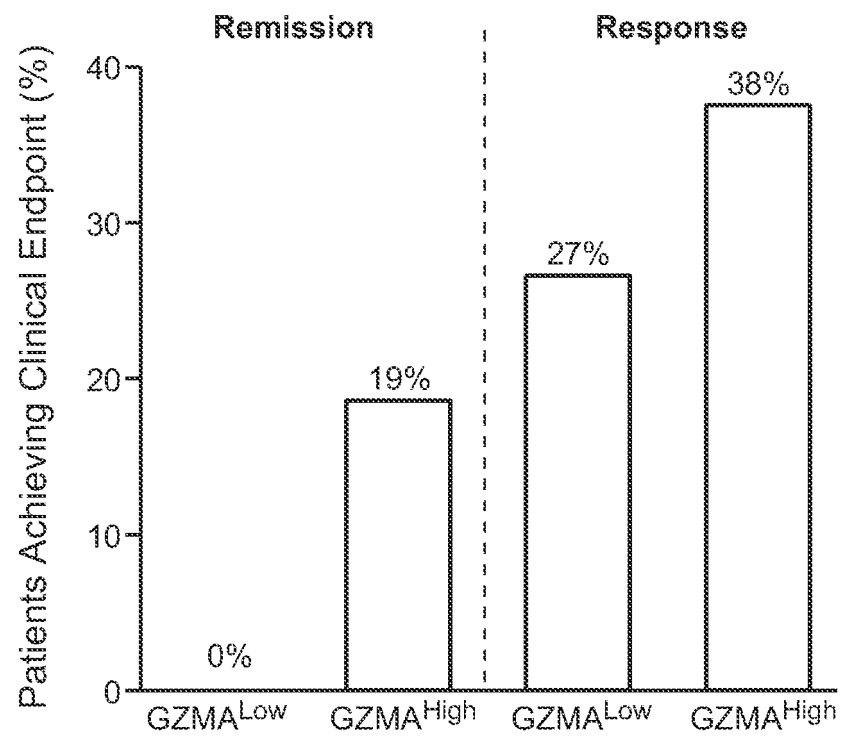
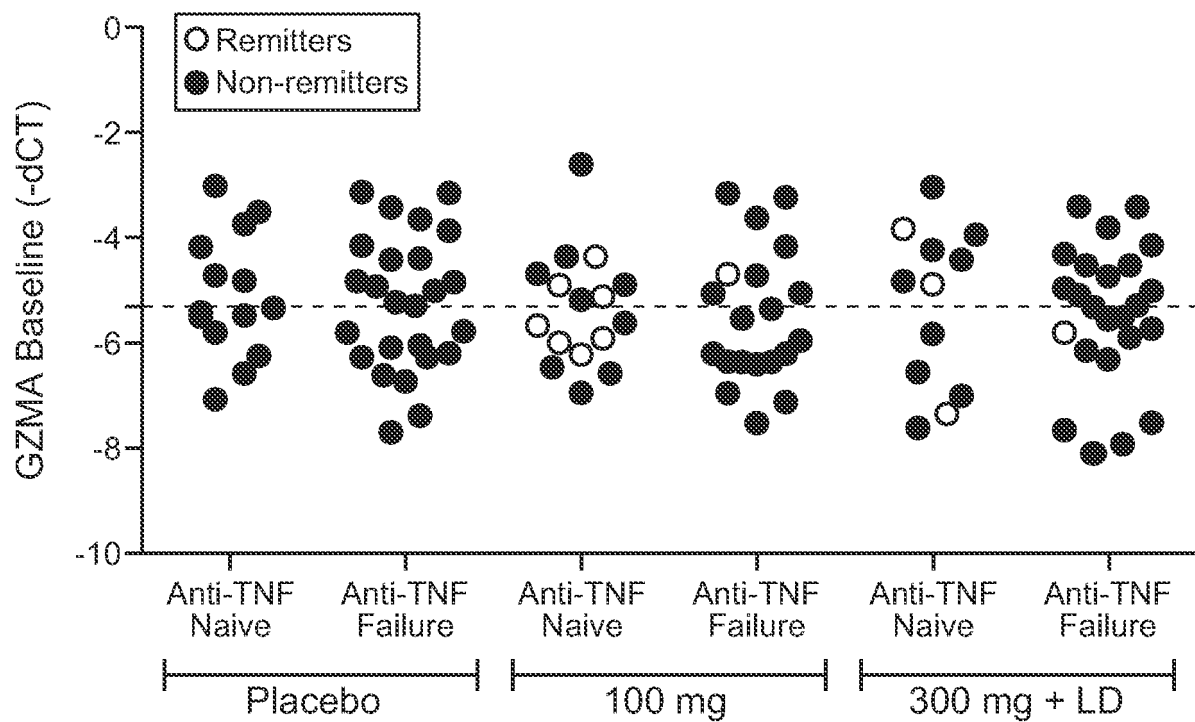


FIG. 23A

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**FIG. 23B****FIG. 23C**

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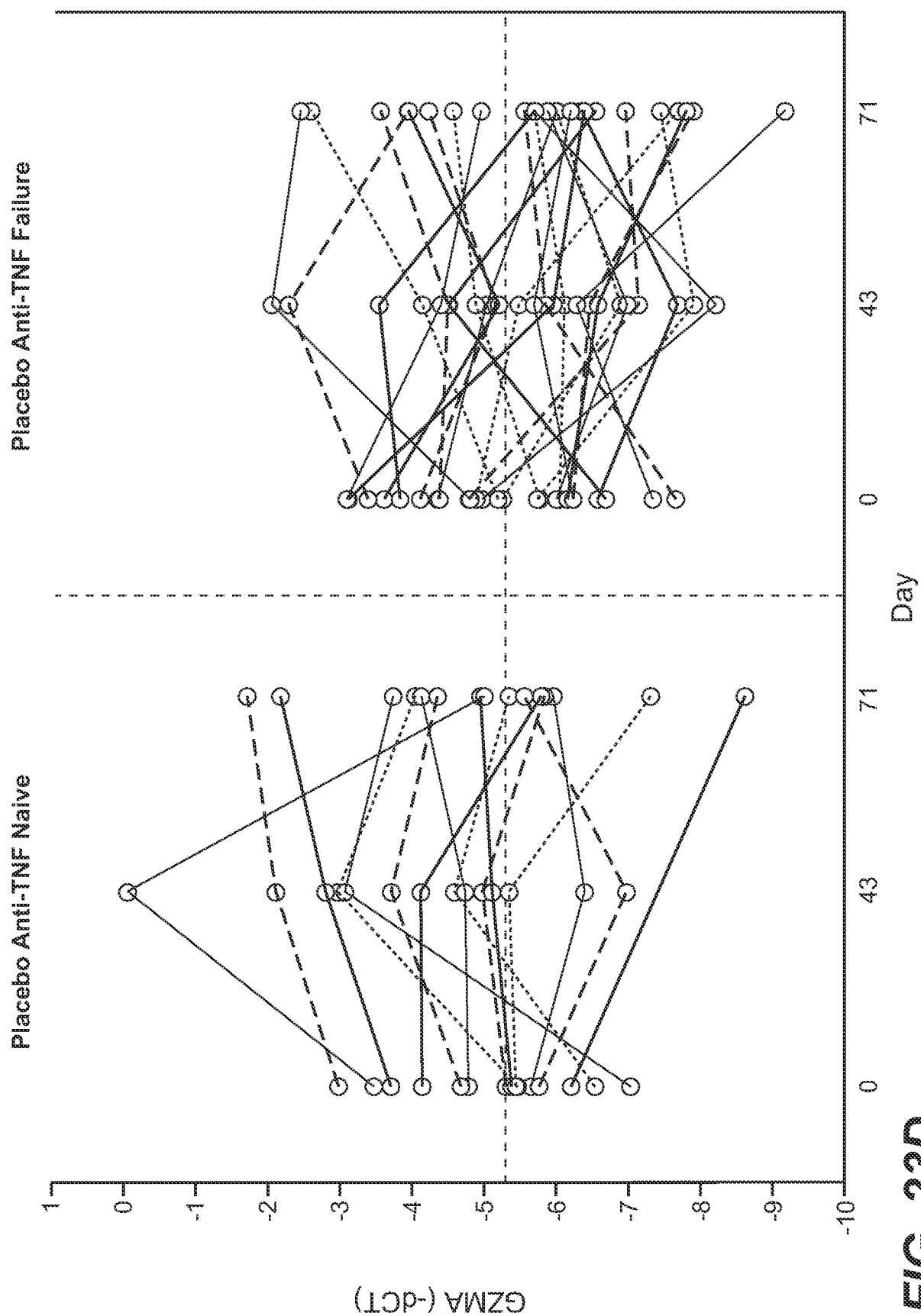


FIG. 23D

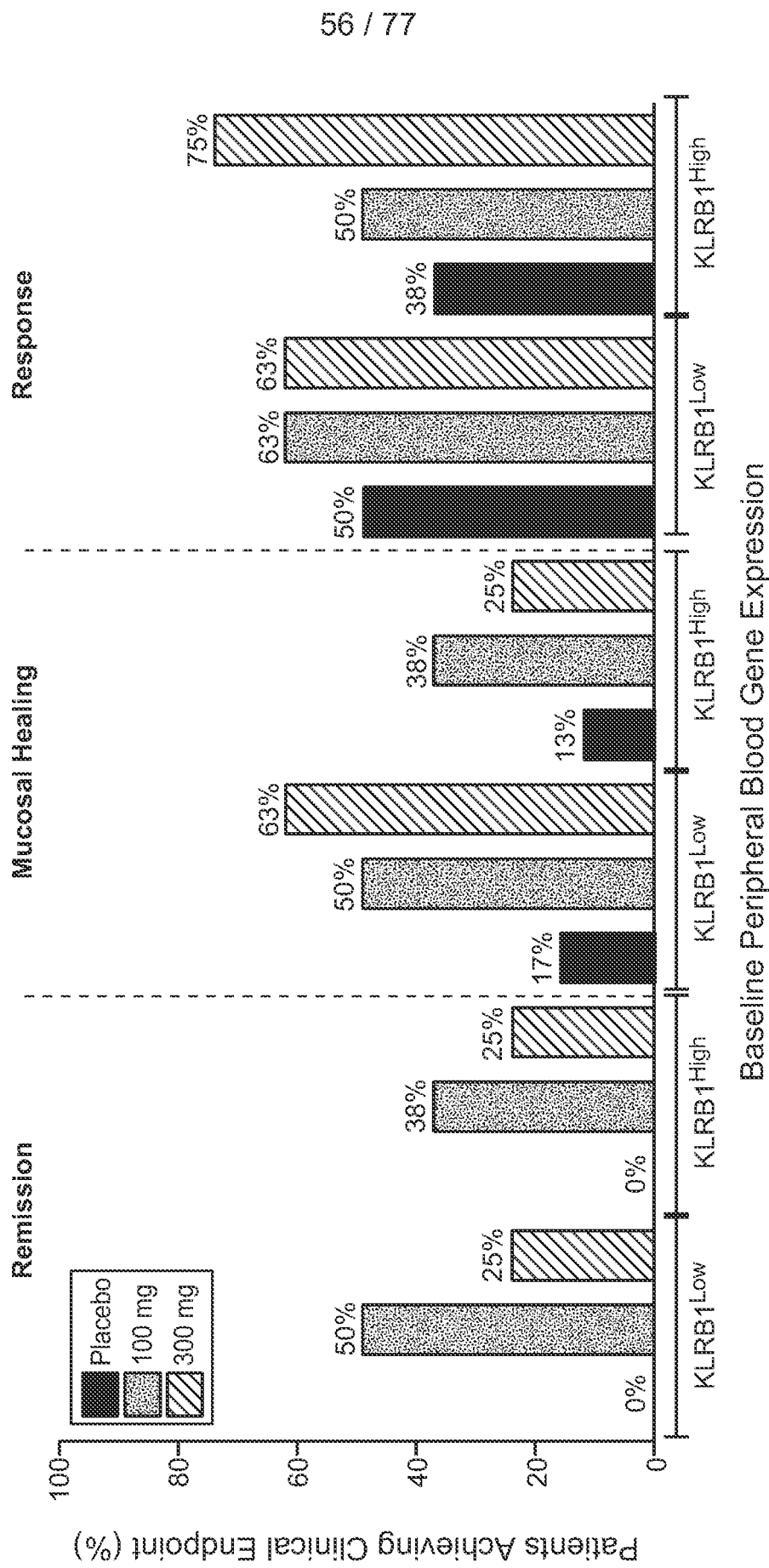
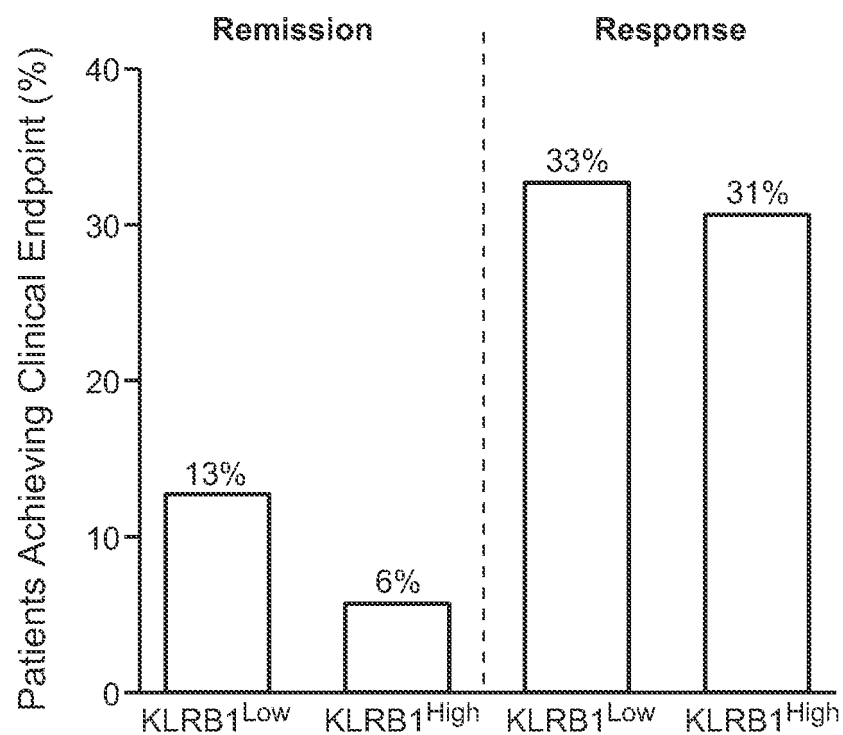
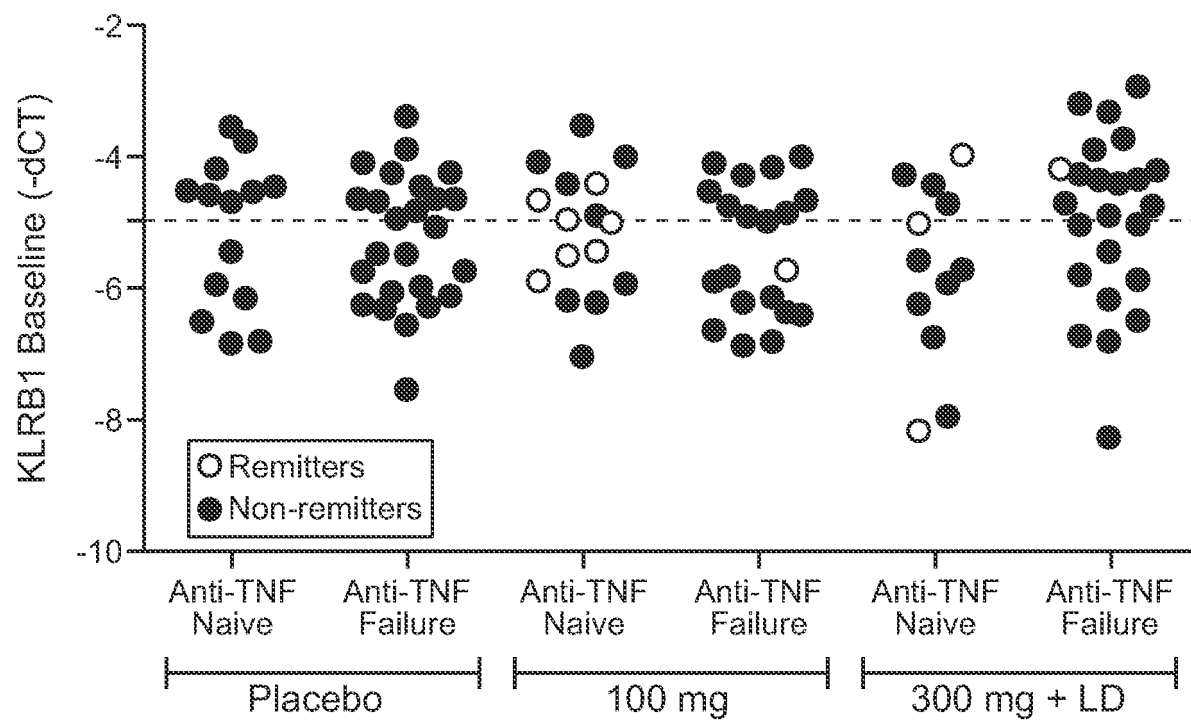


FIG. 24A

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**FIG. 24B****FIG. 24C**

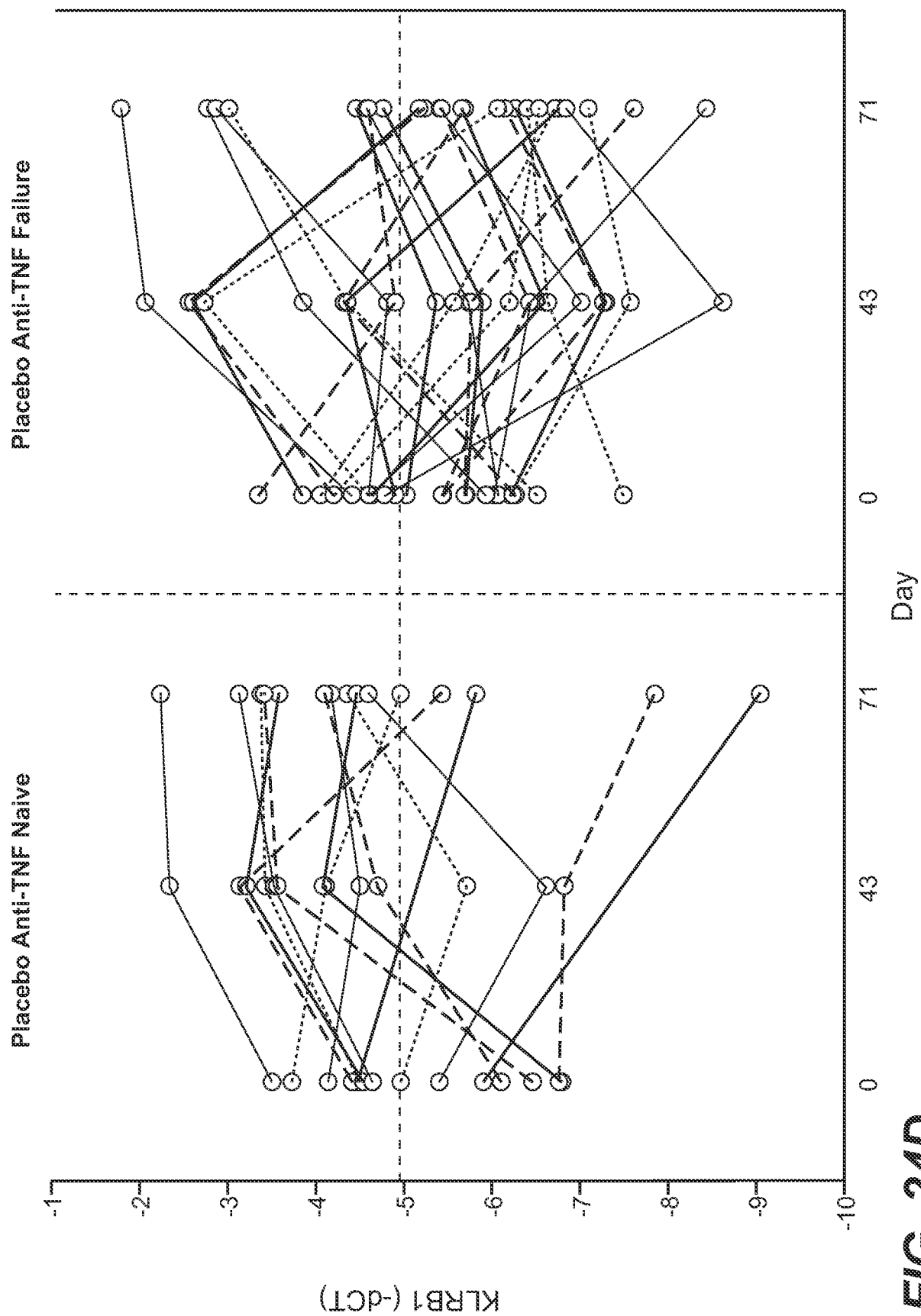


FIG. 24D

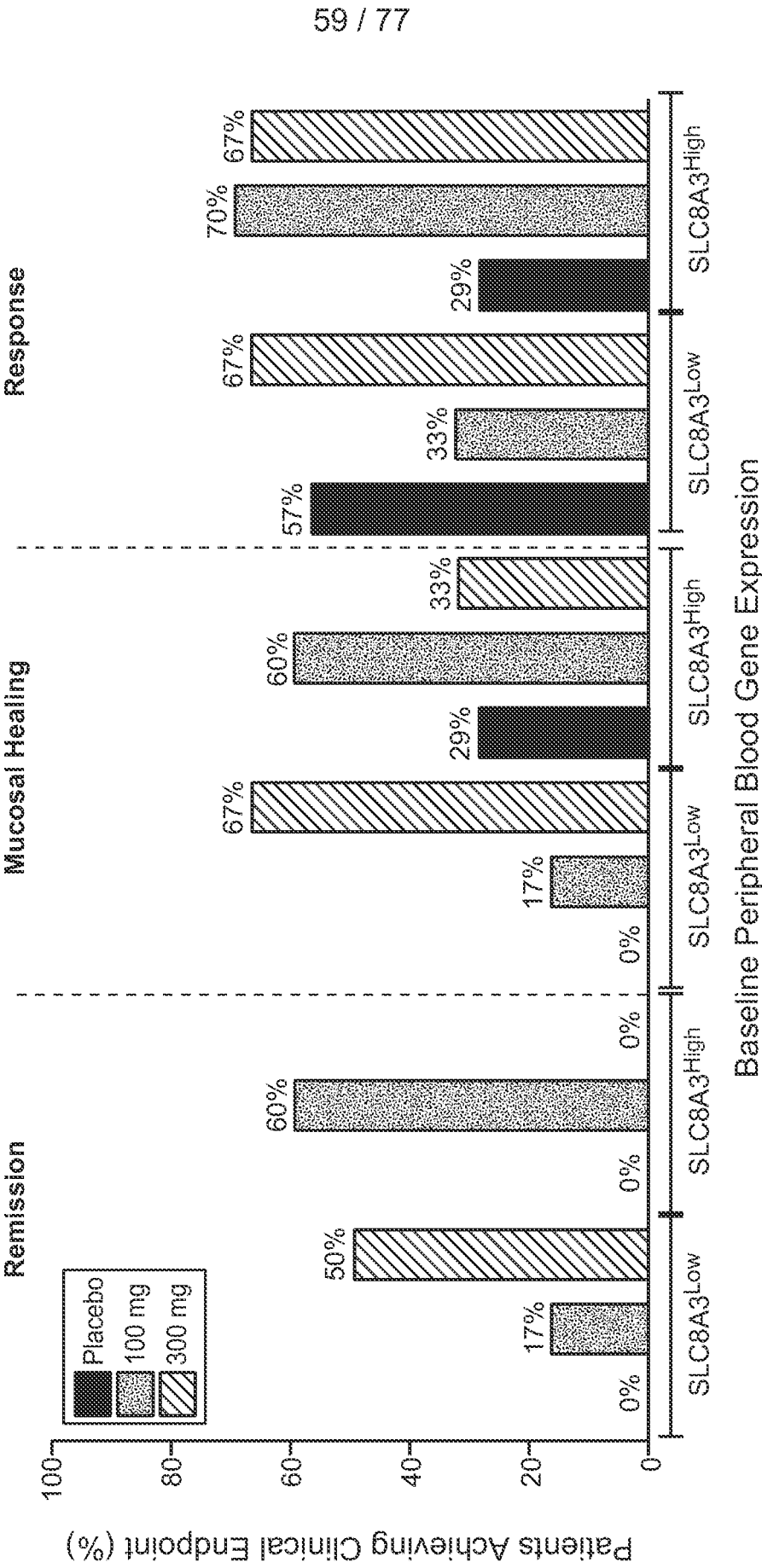
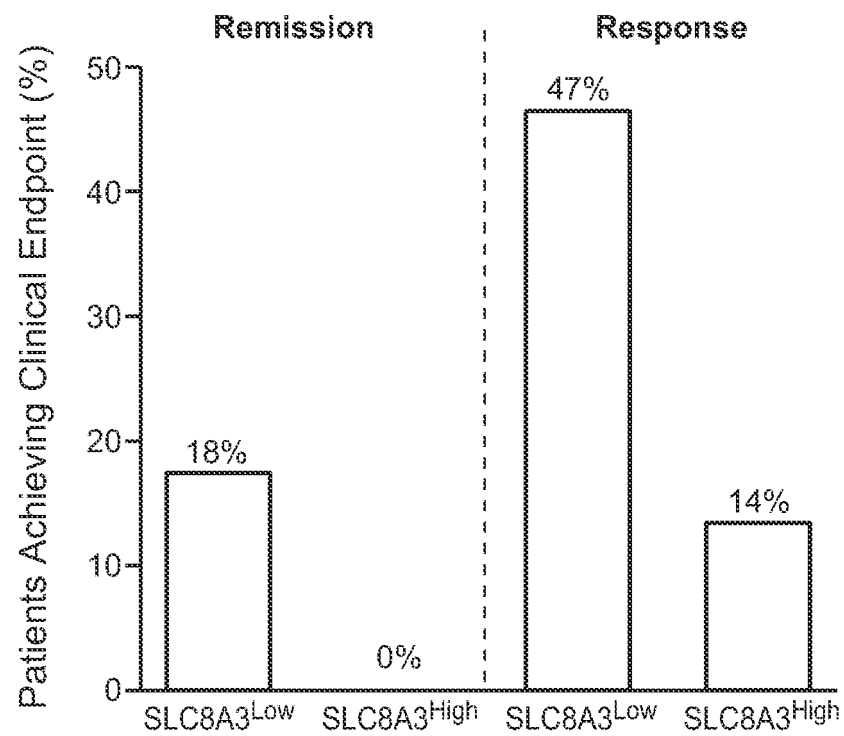
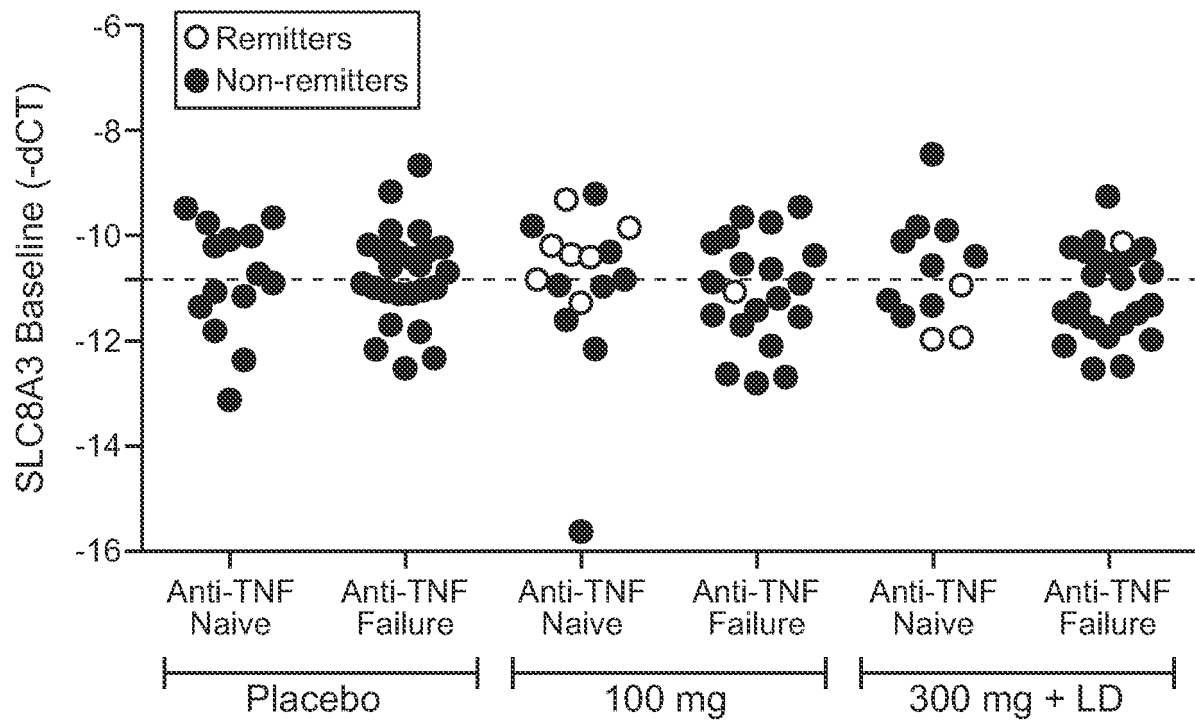


FIG. 25A

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**FIG. 25B****FIG. 25C**

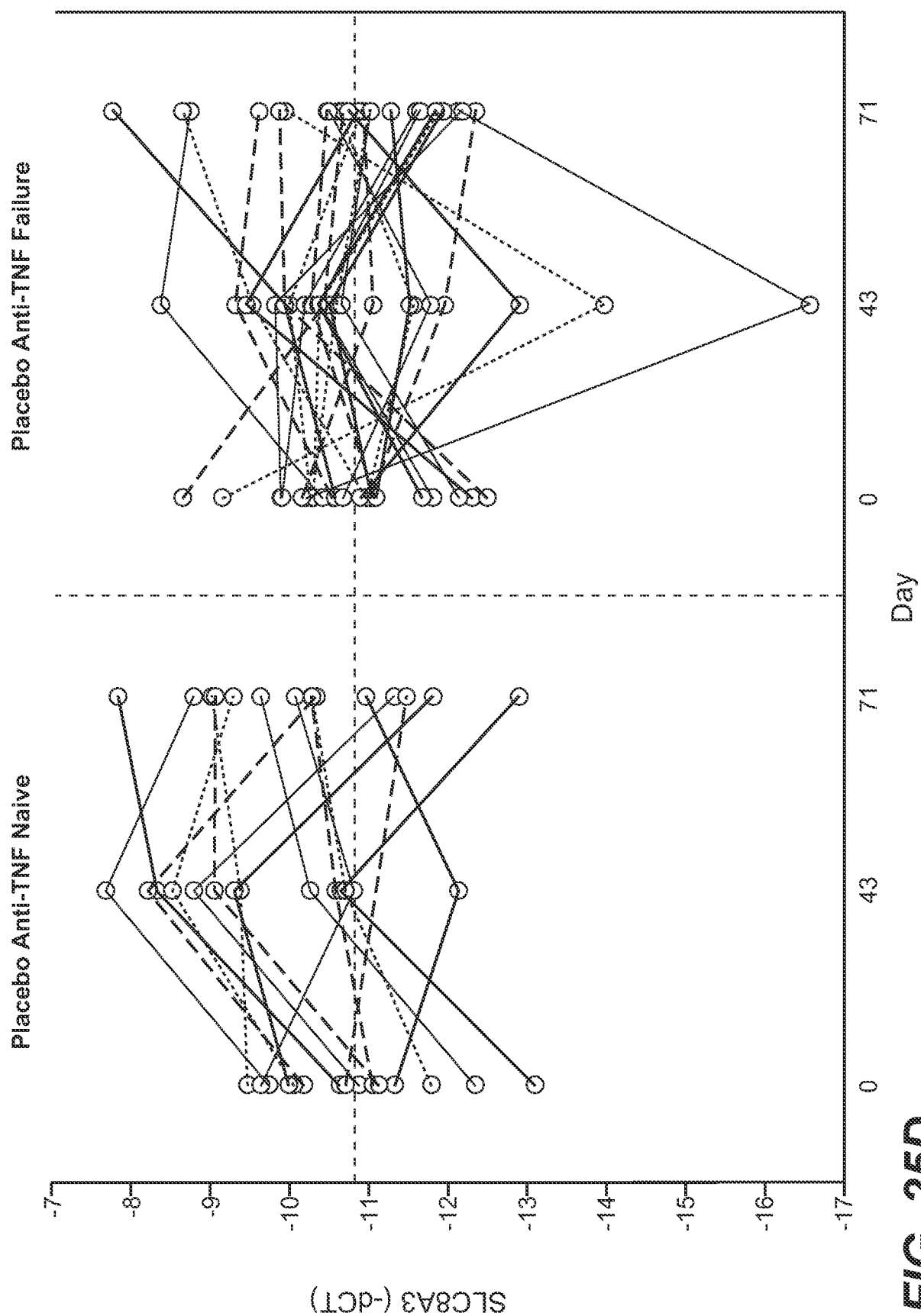


FIG. 25D

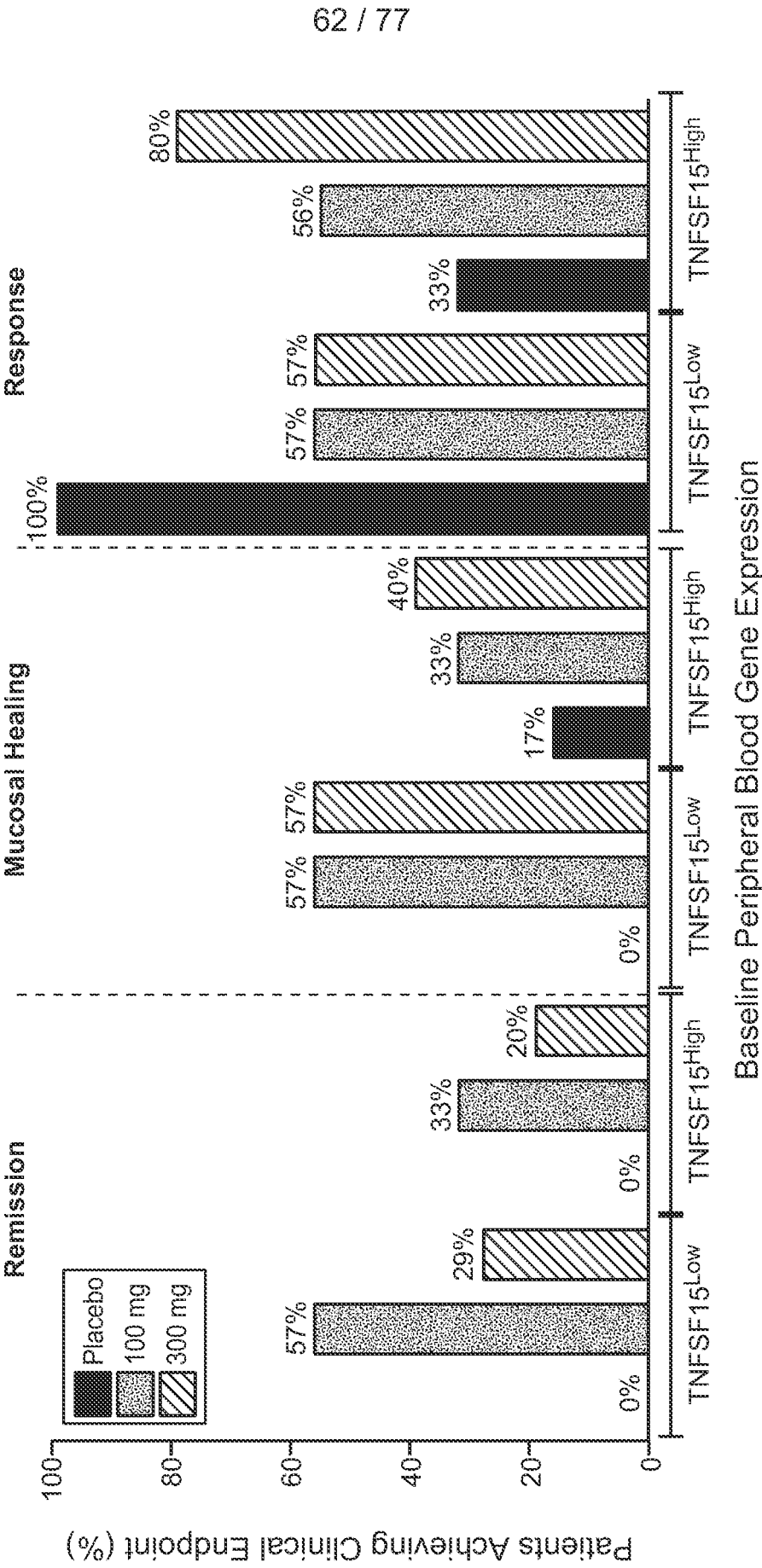
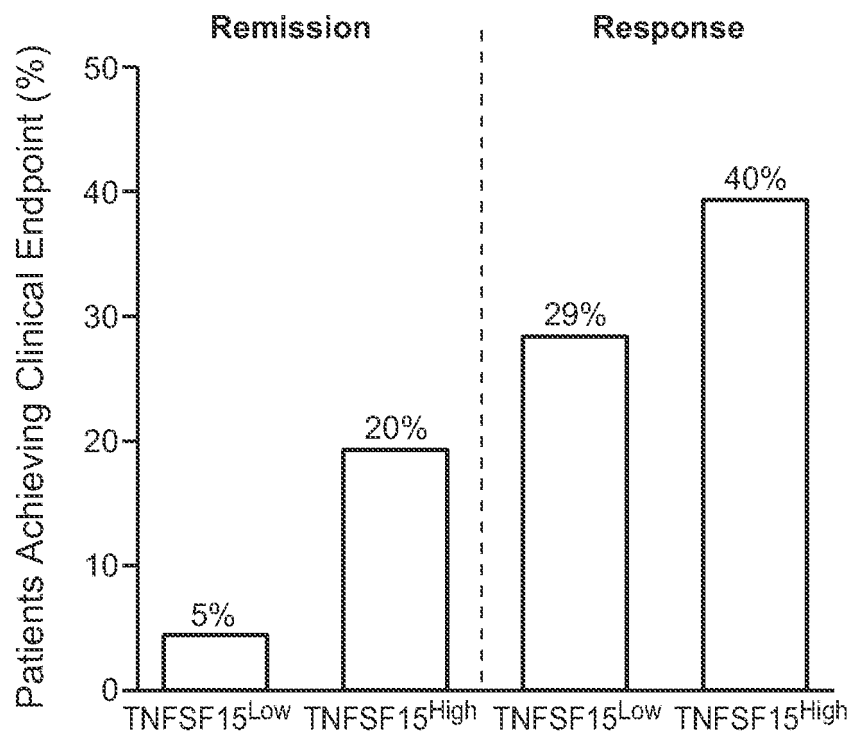
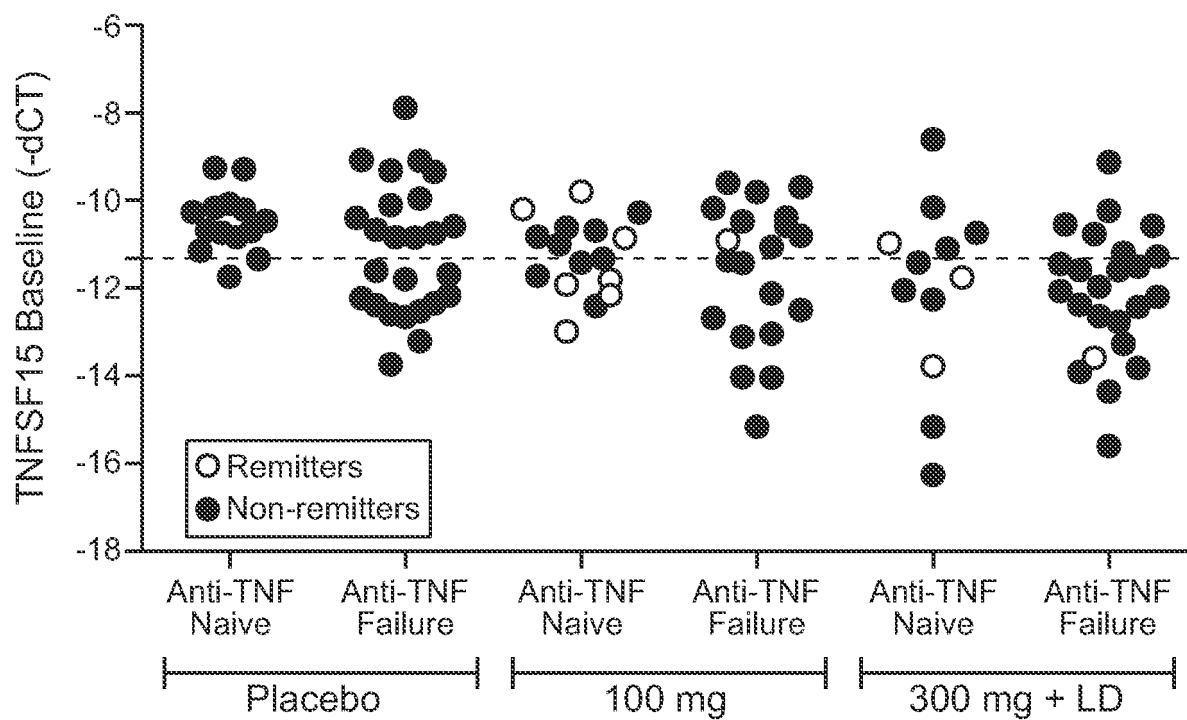


FIG. 26A

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**FIG. 26B****FIG. 26C**

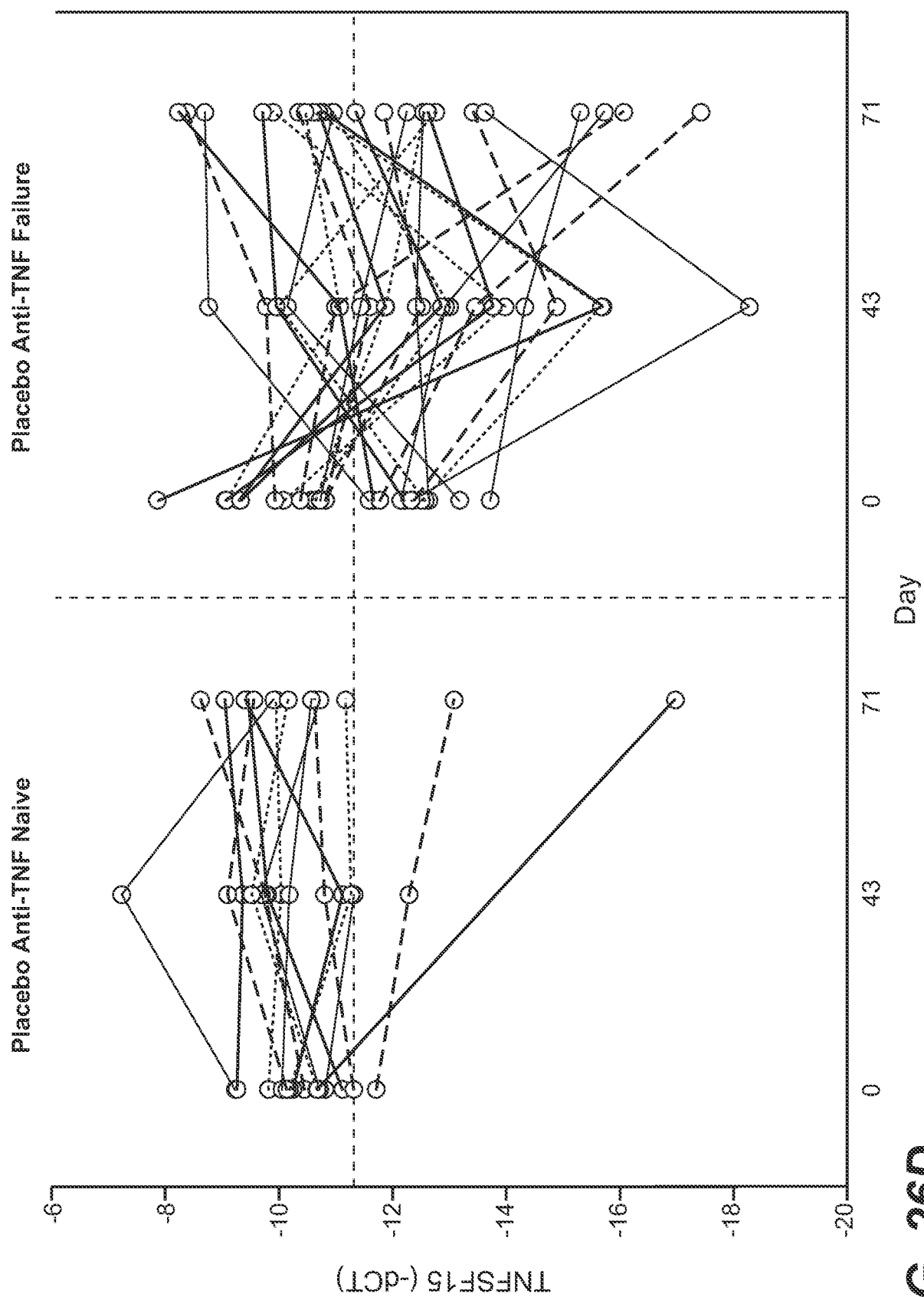


FIG. 26D

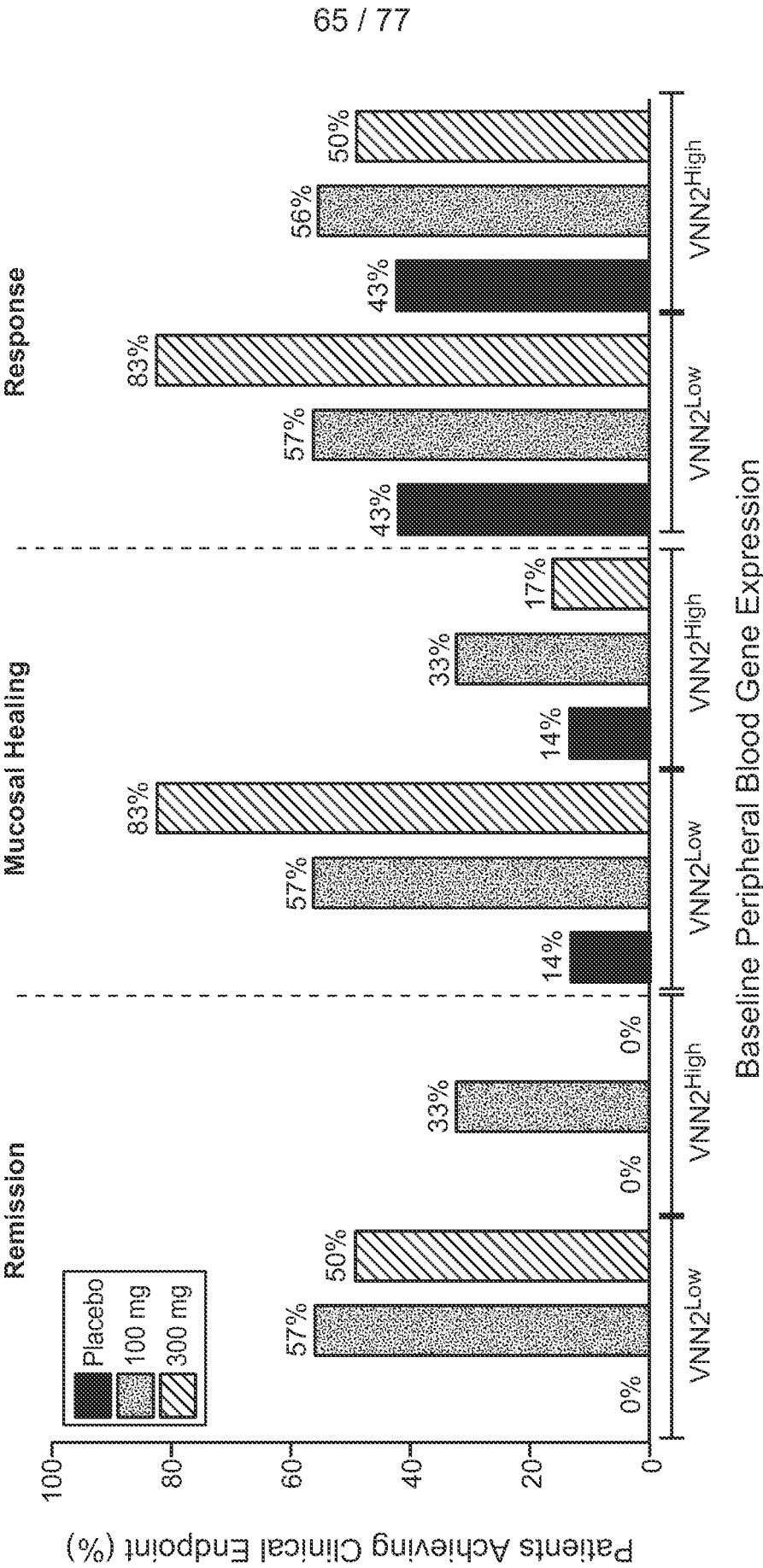
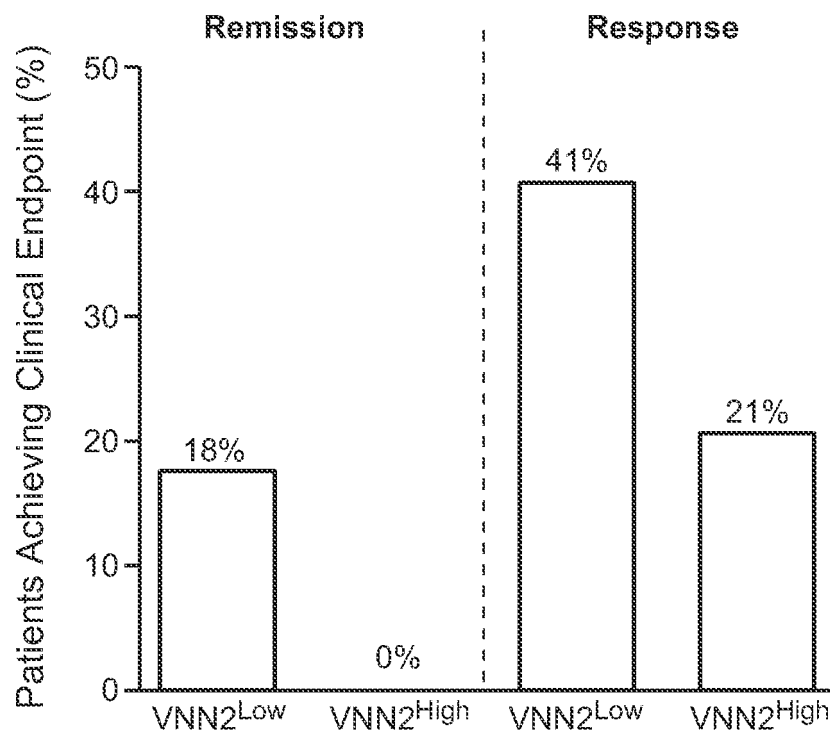
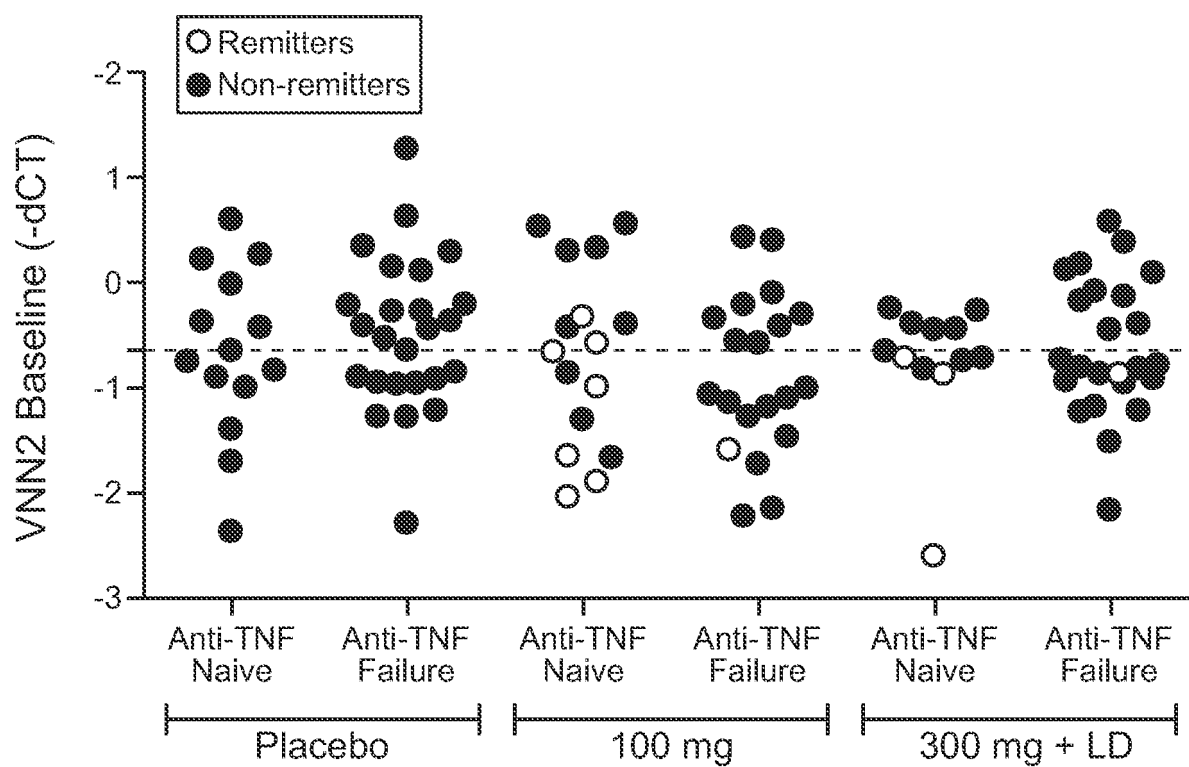


FIG. 27A

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**FIG. 27B****FIG. 27C**

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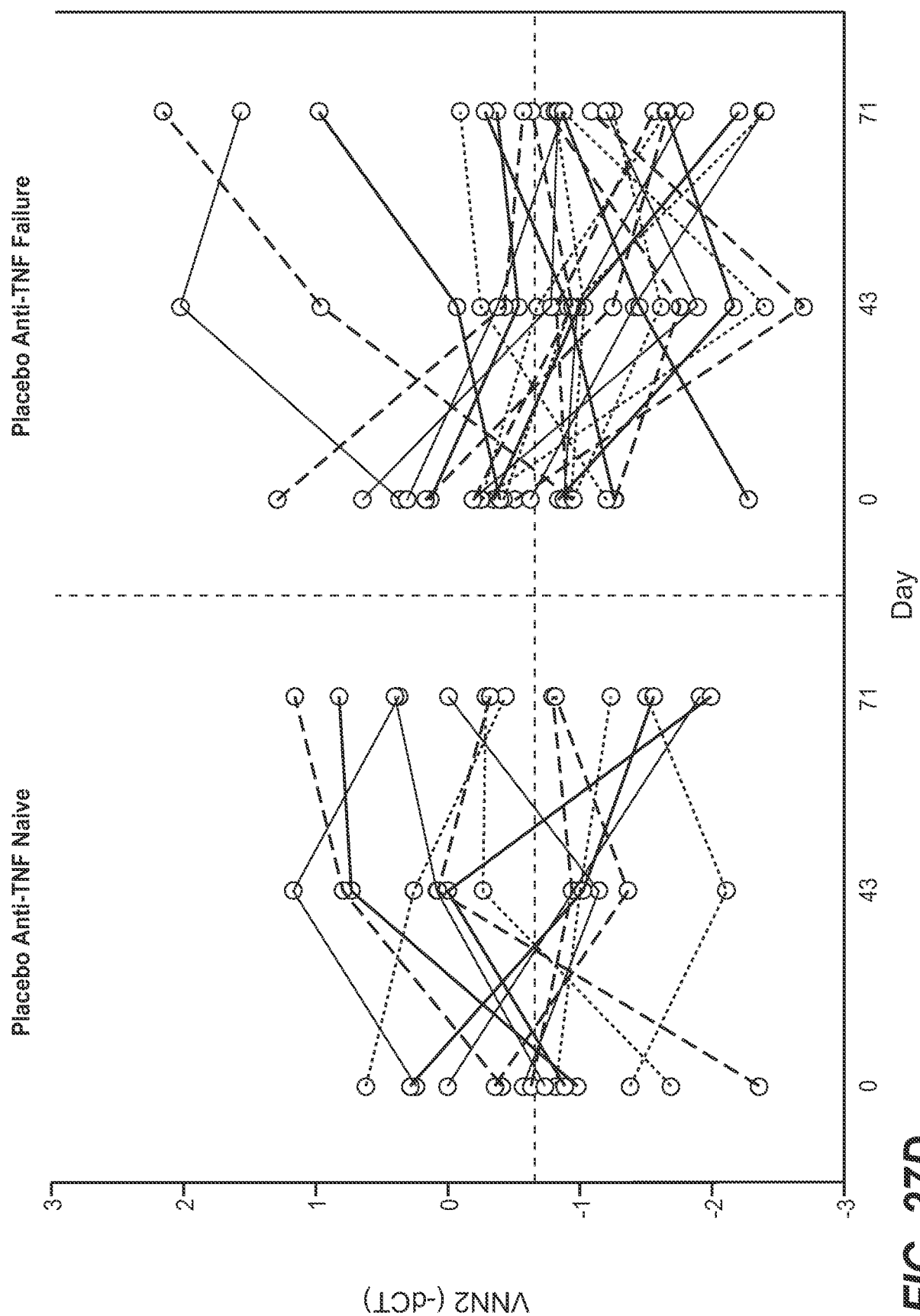


FIG. 27D

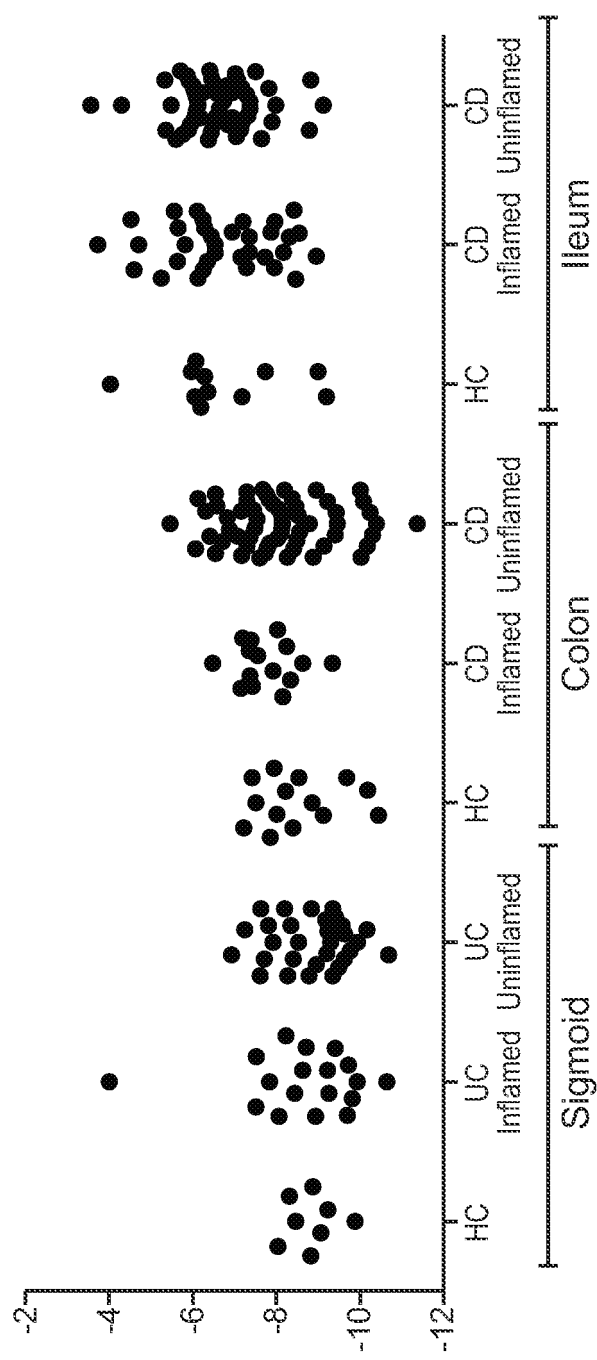


FIG. 28A

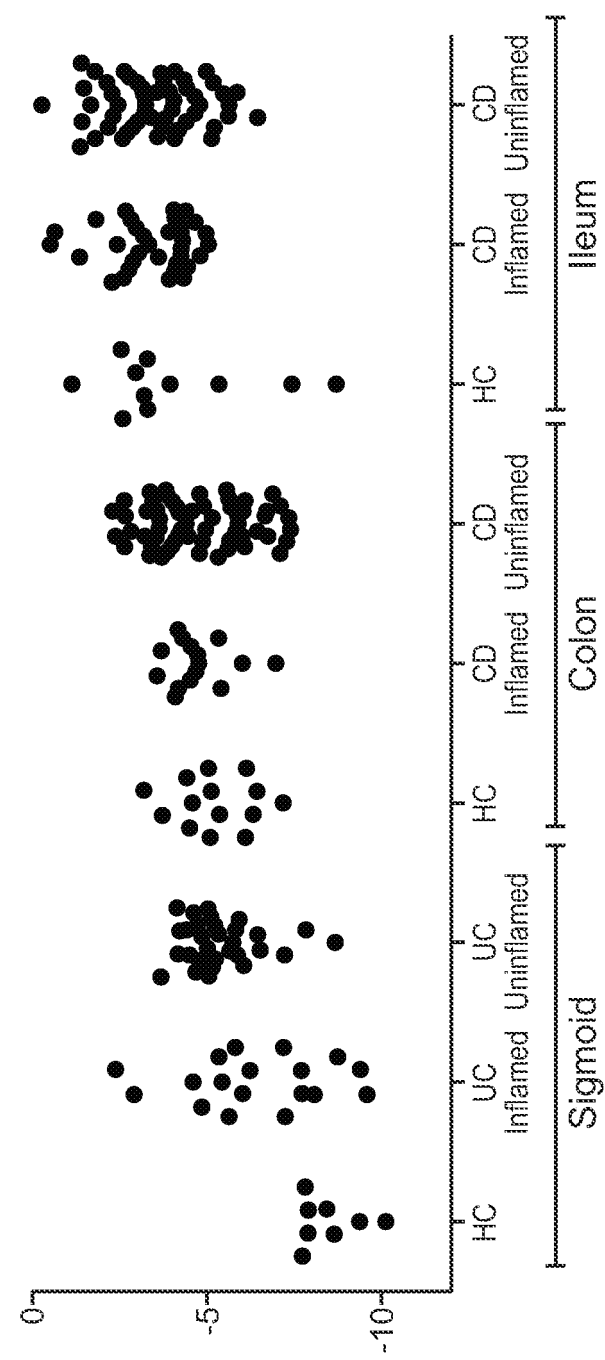


FIG. 28B

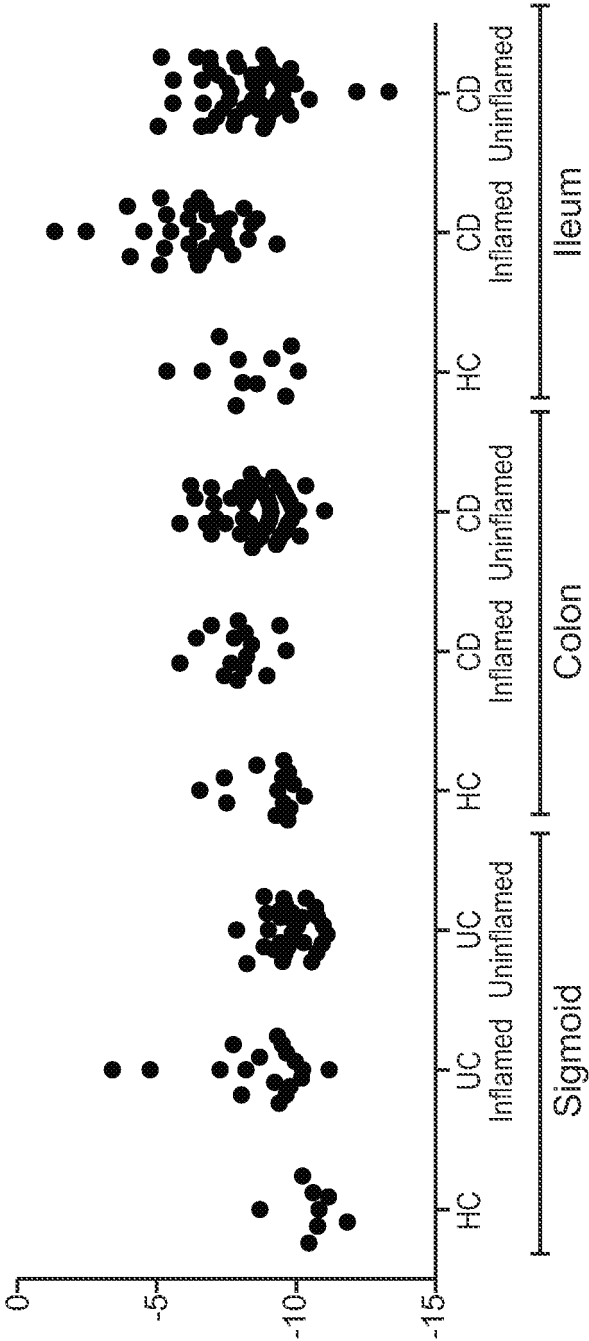


FIG. 28C

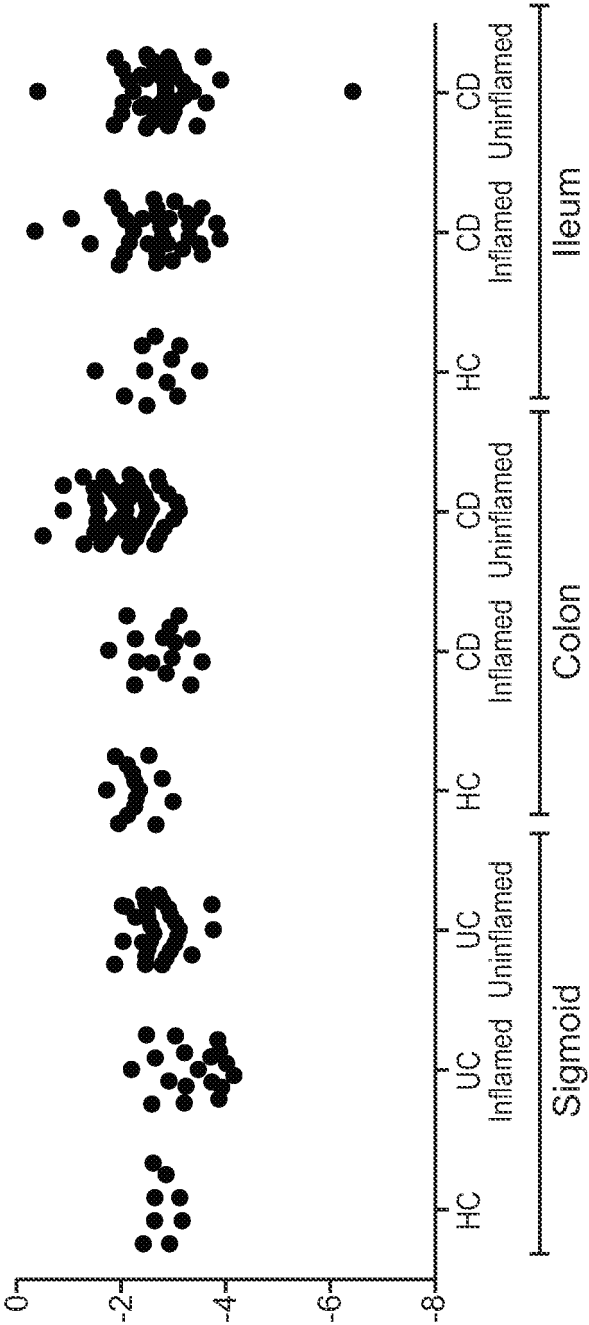


FIG. 28D

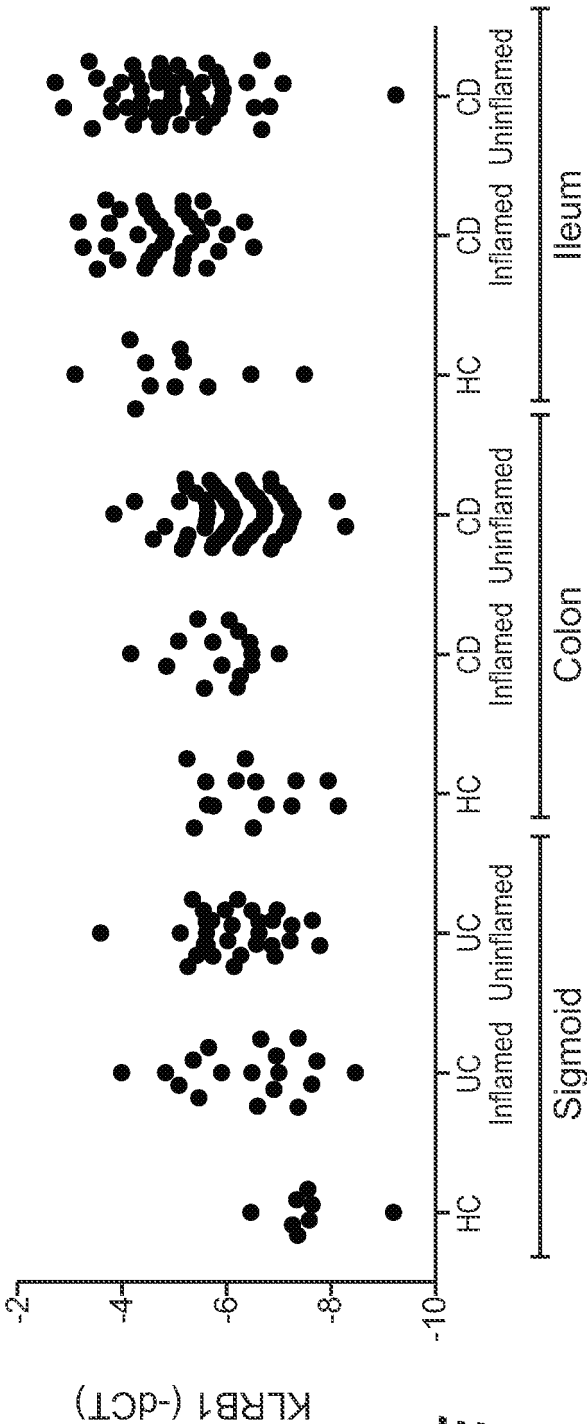


FIG. 28E

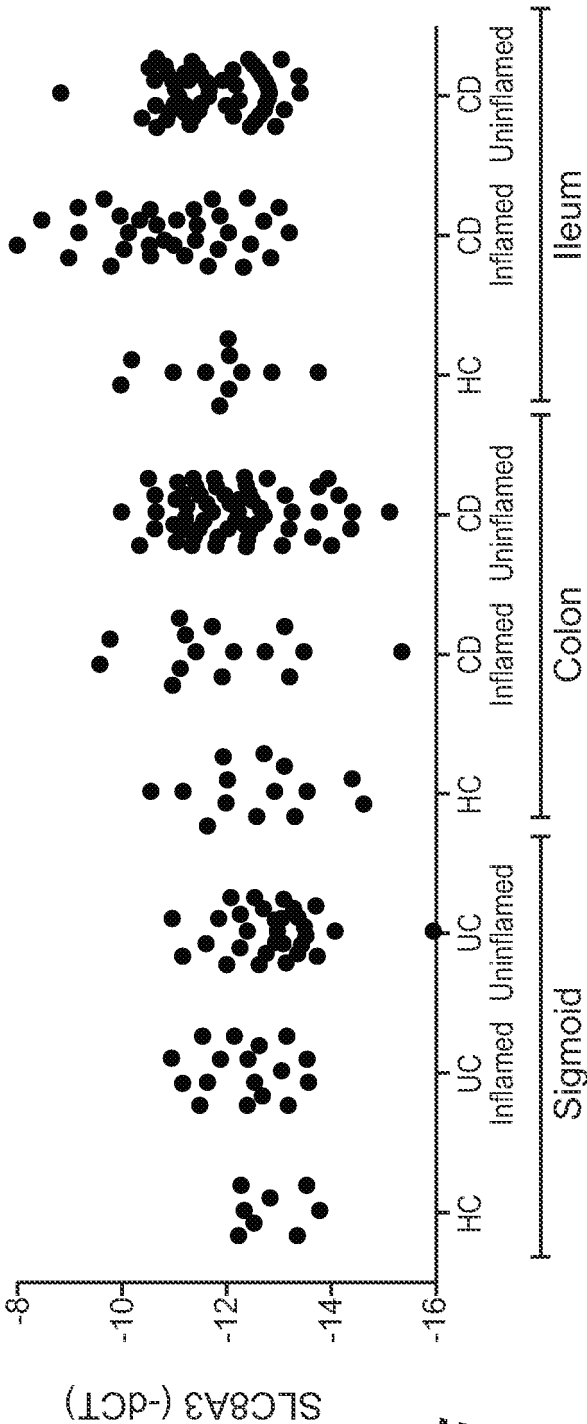
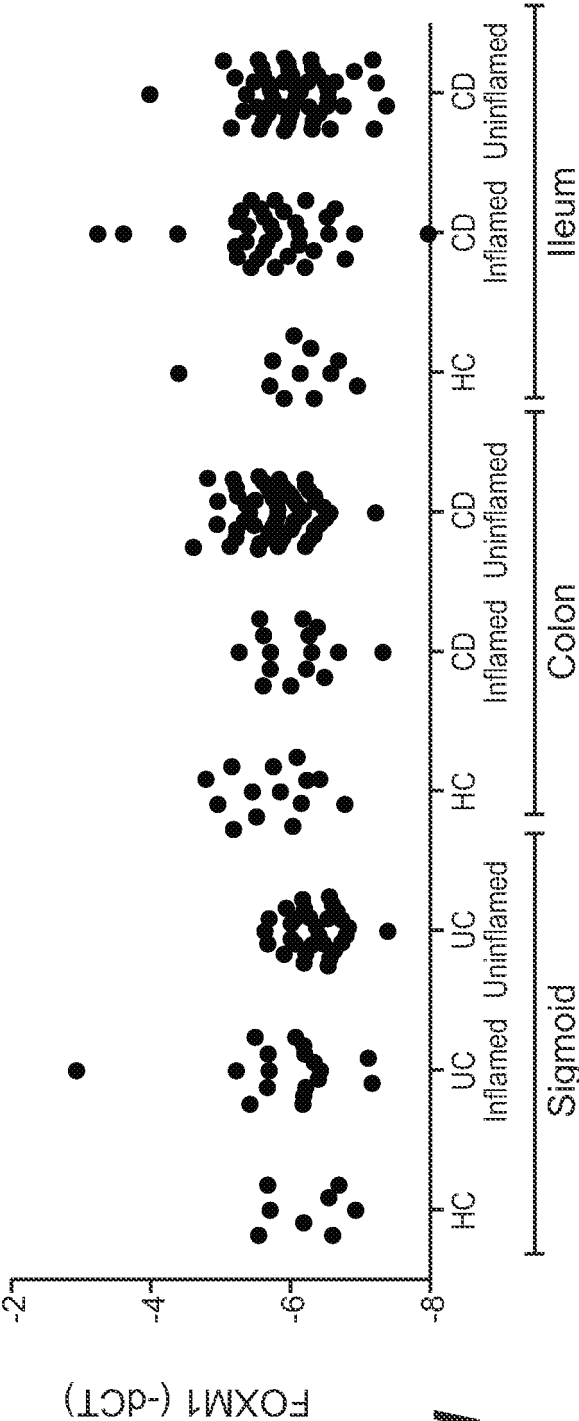
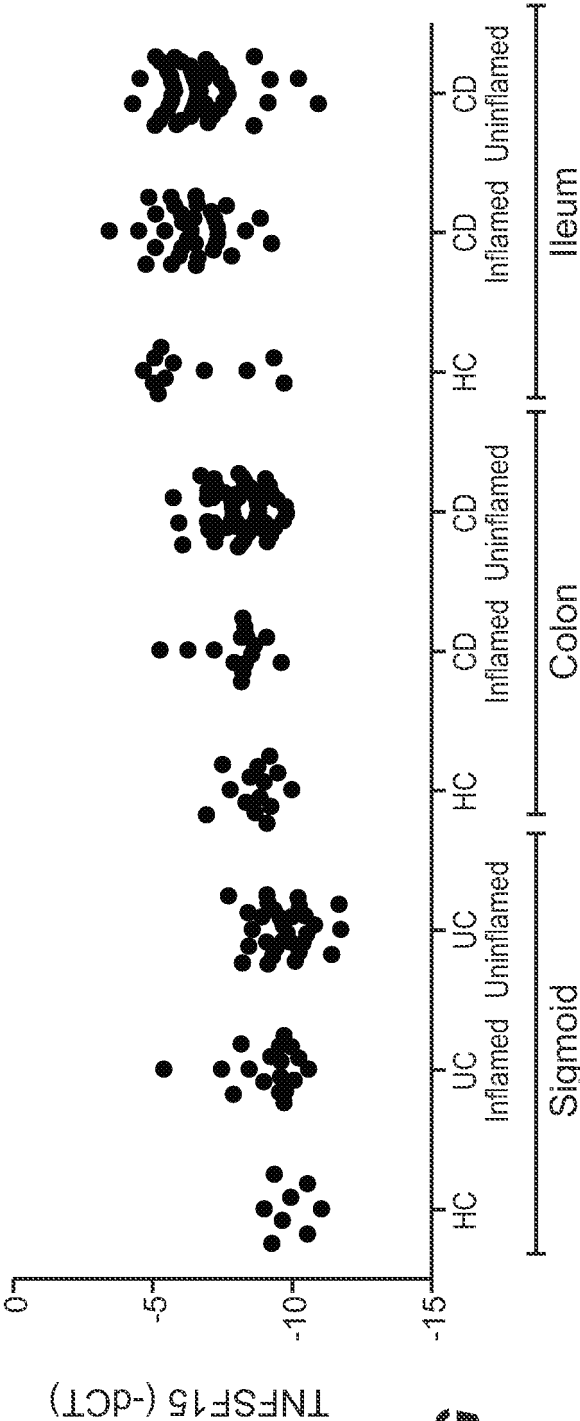
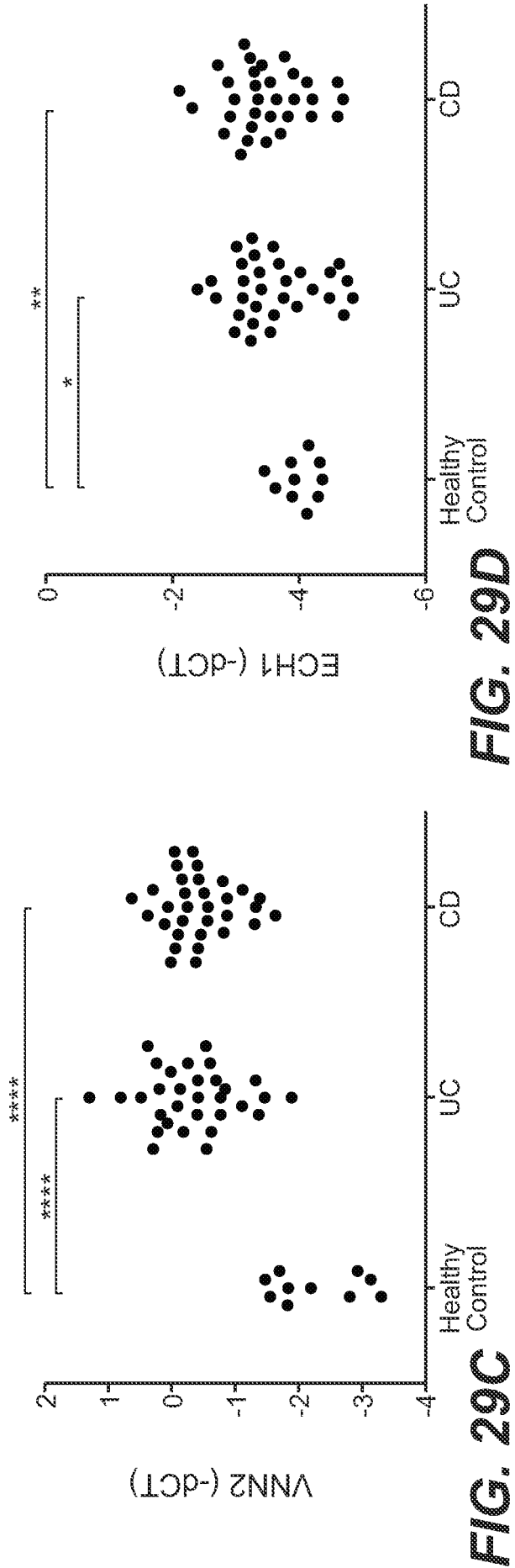
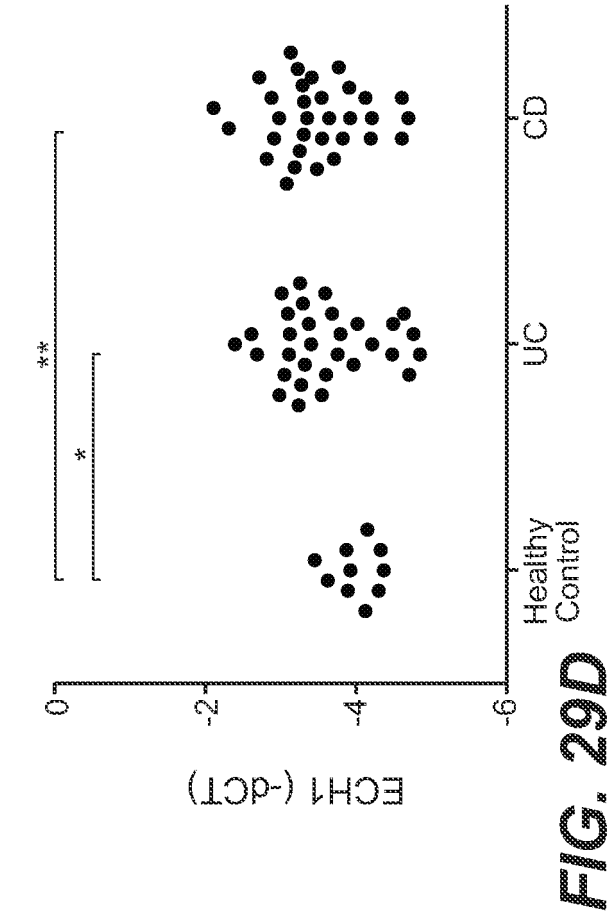
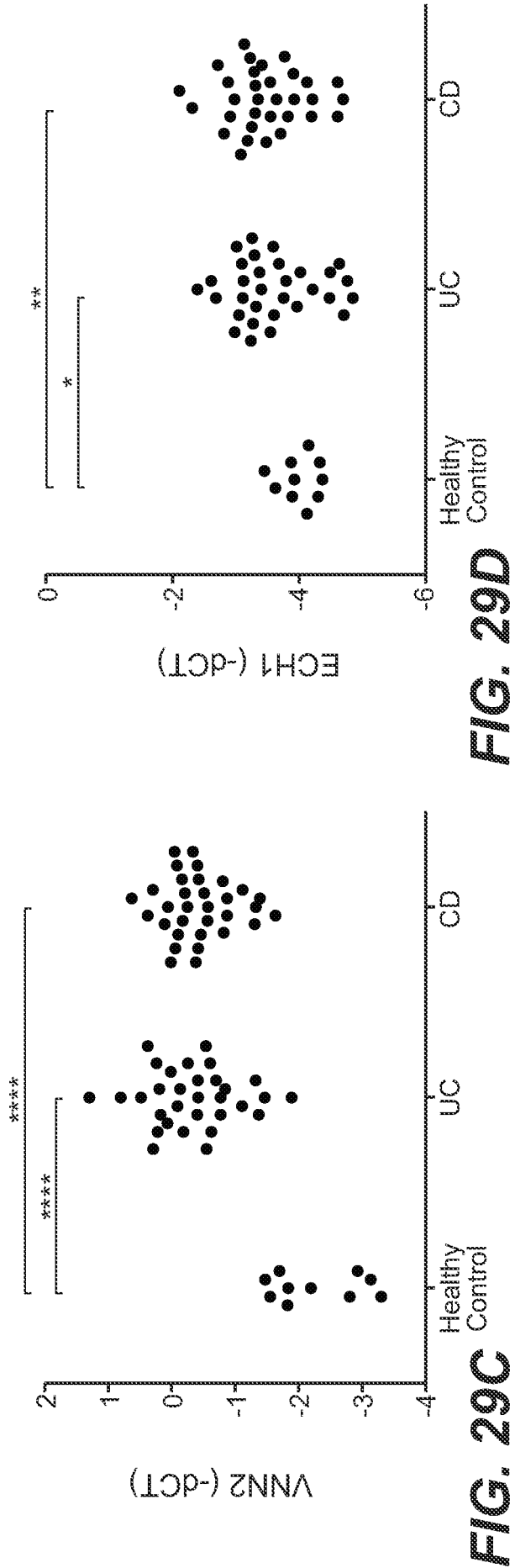
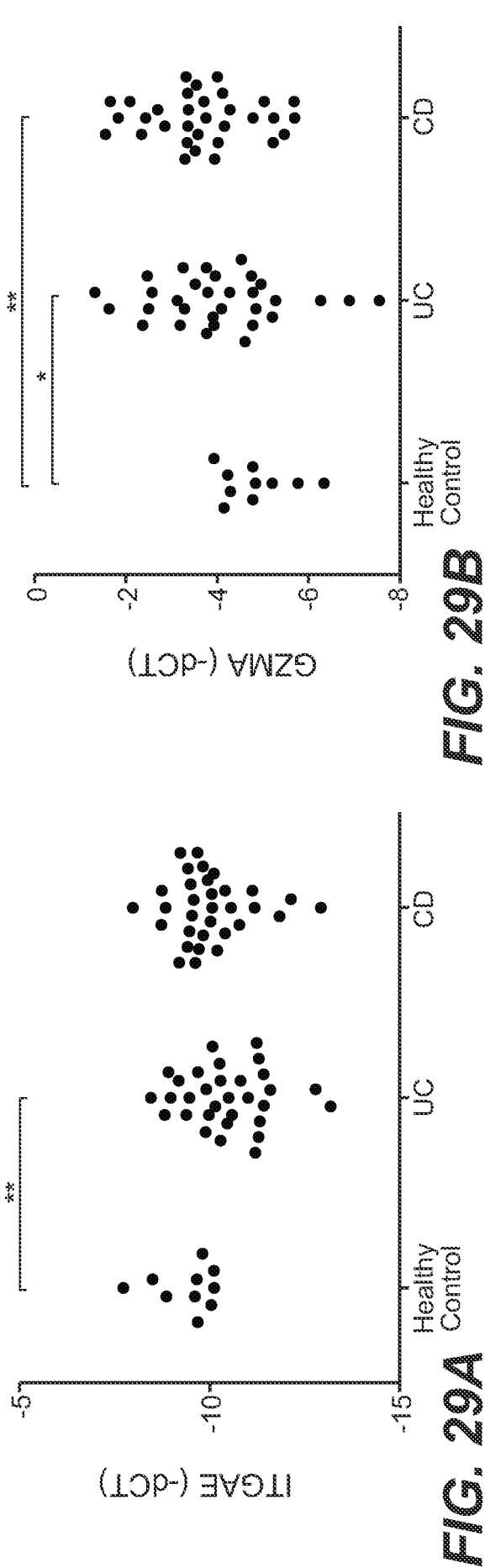


FIG. 28F





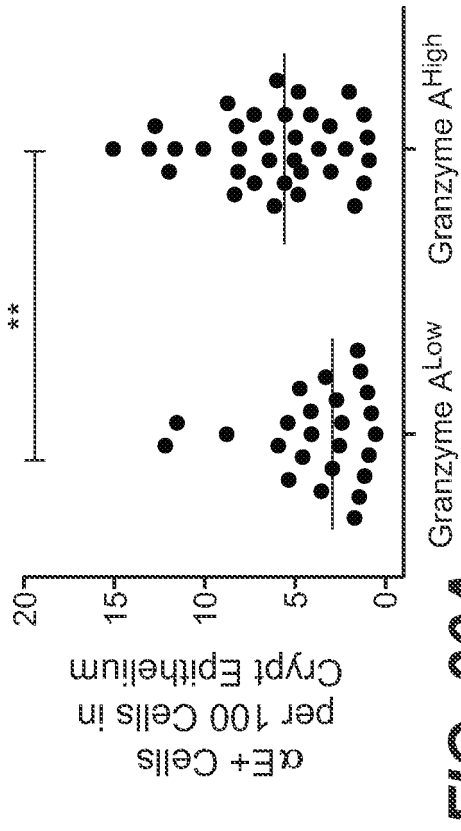


FIG. 30A

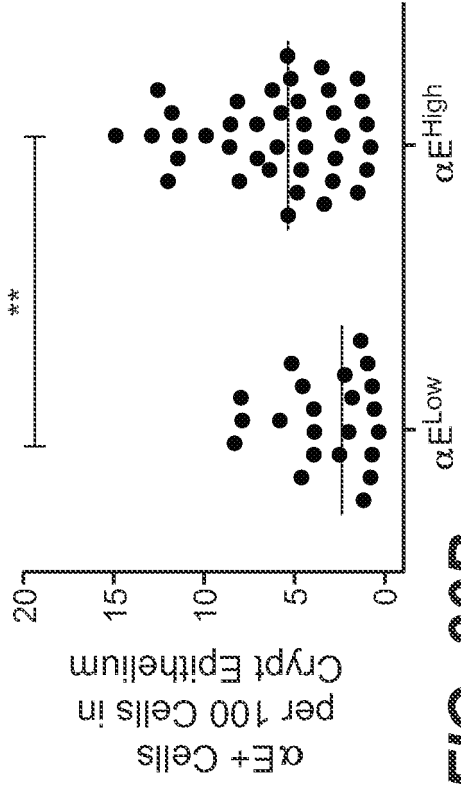


FIG. 30B

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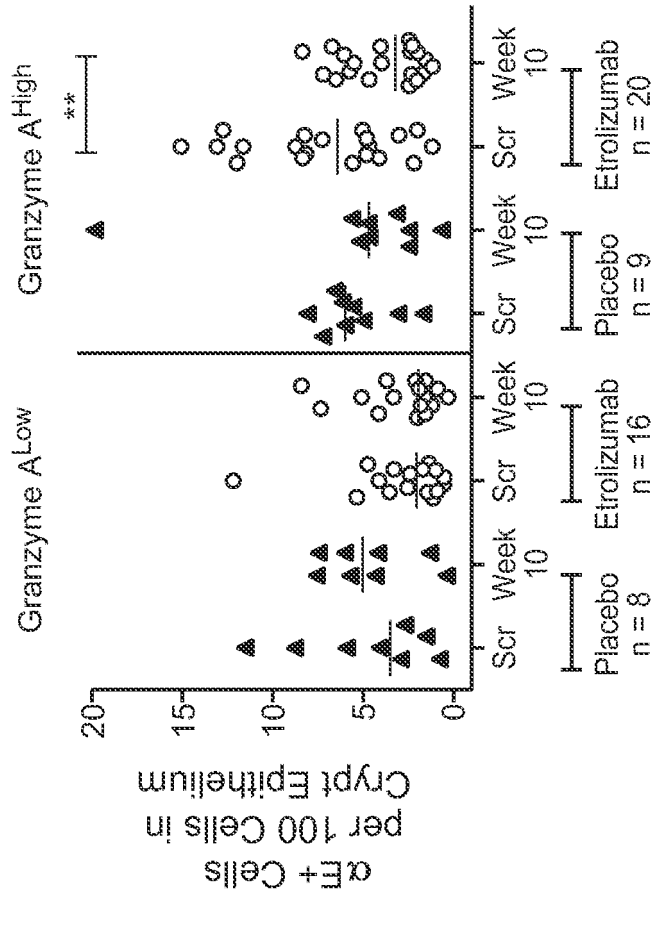


FIG. 30C

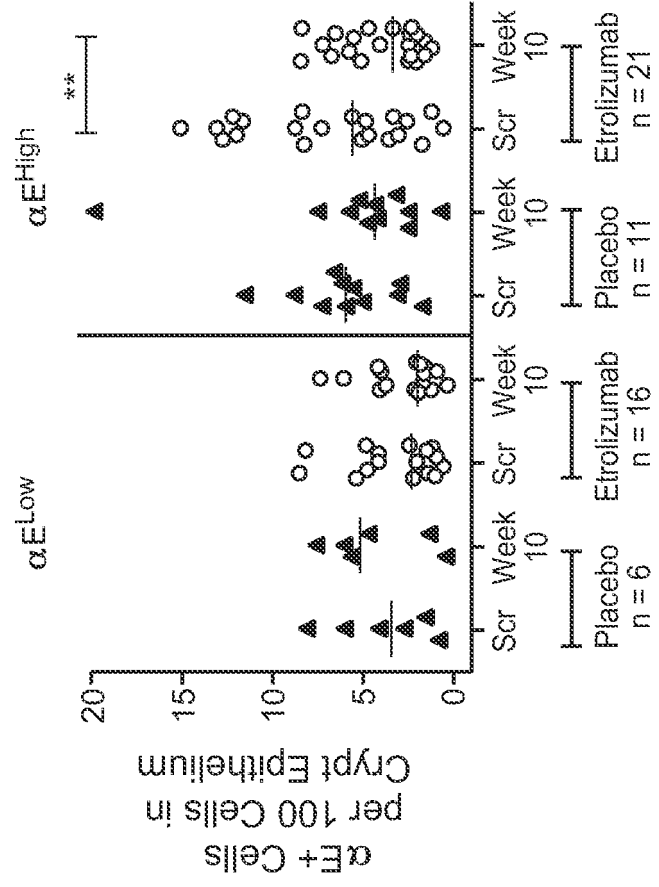


FIG. 30D

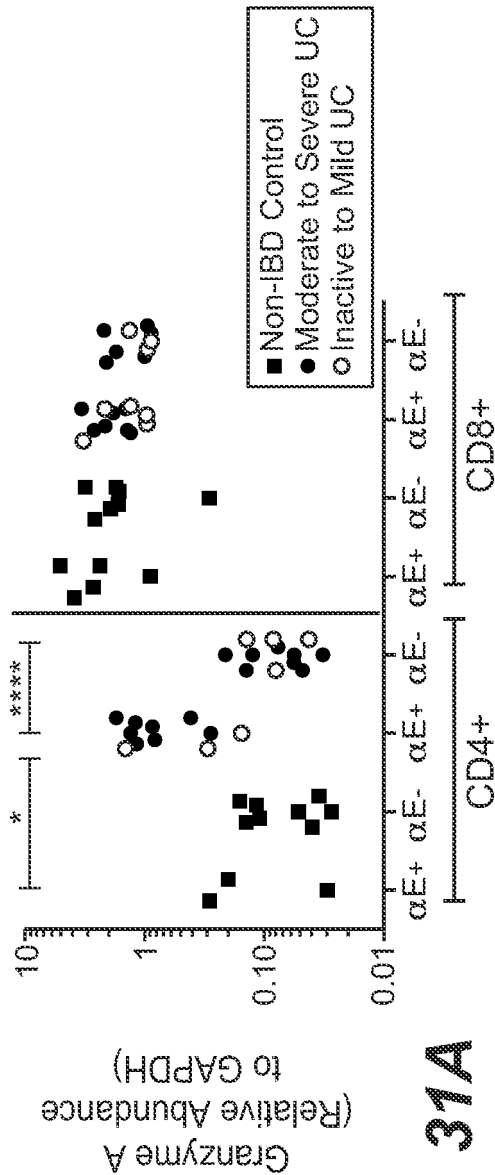


FIG. 31A

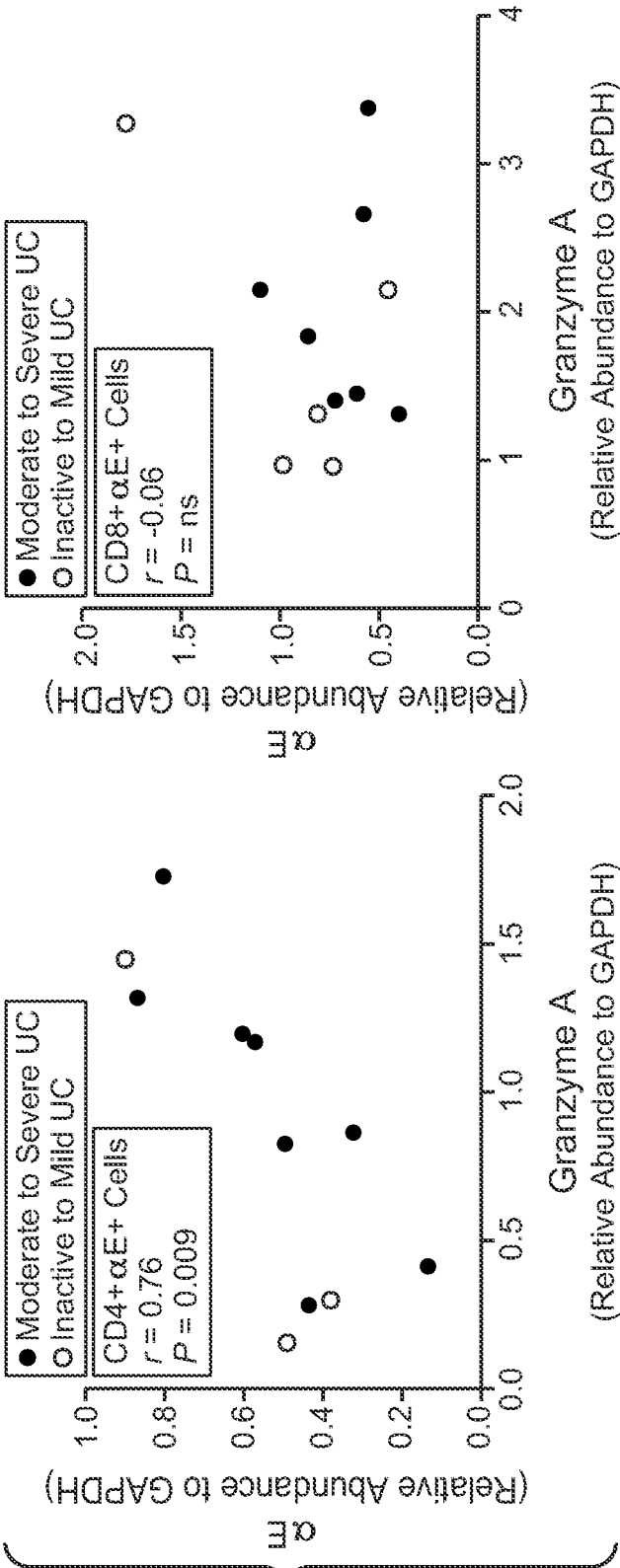
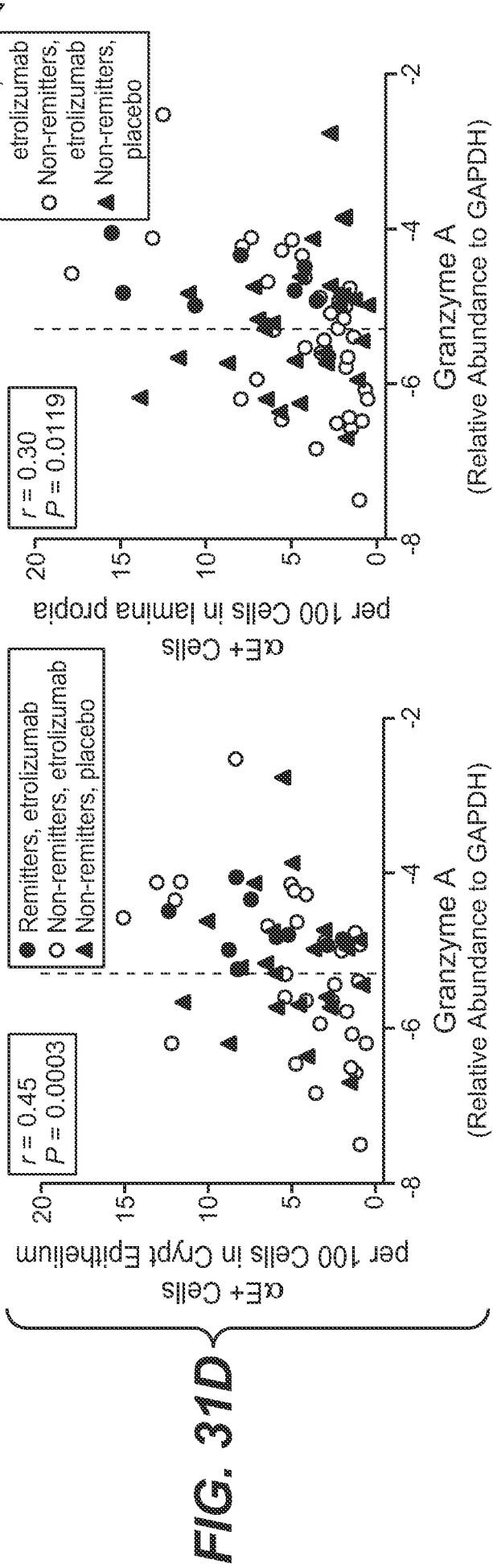
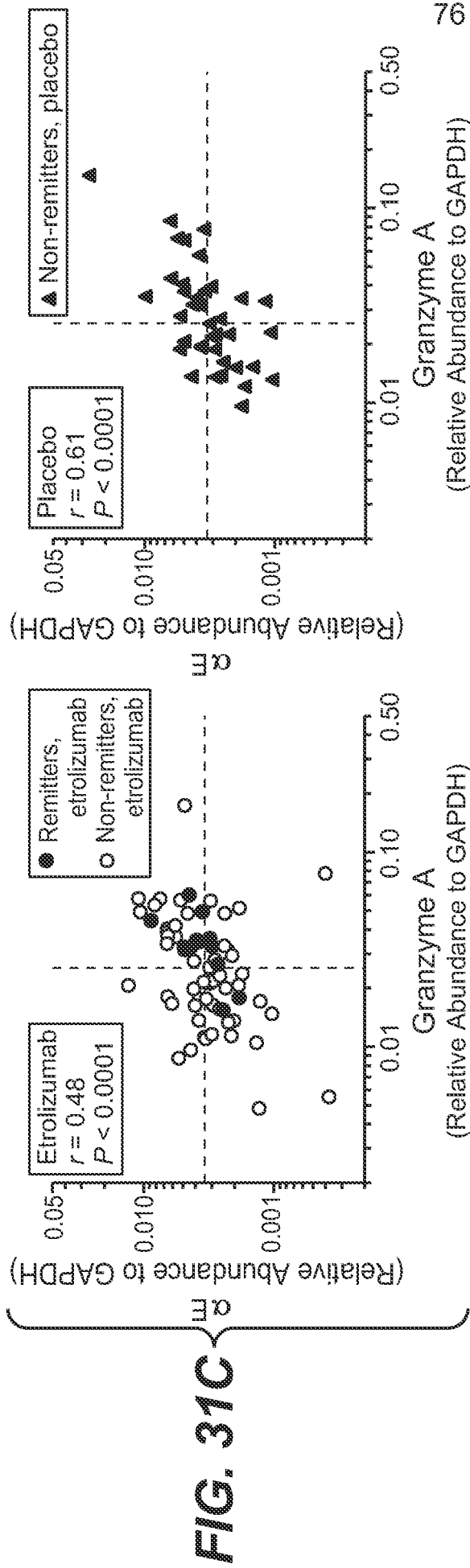


FIG. 31B



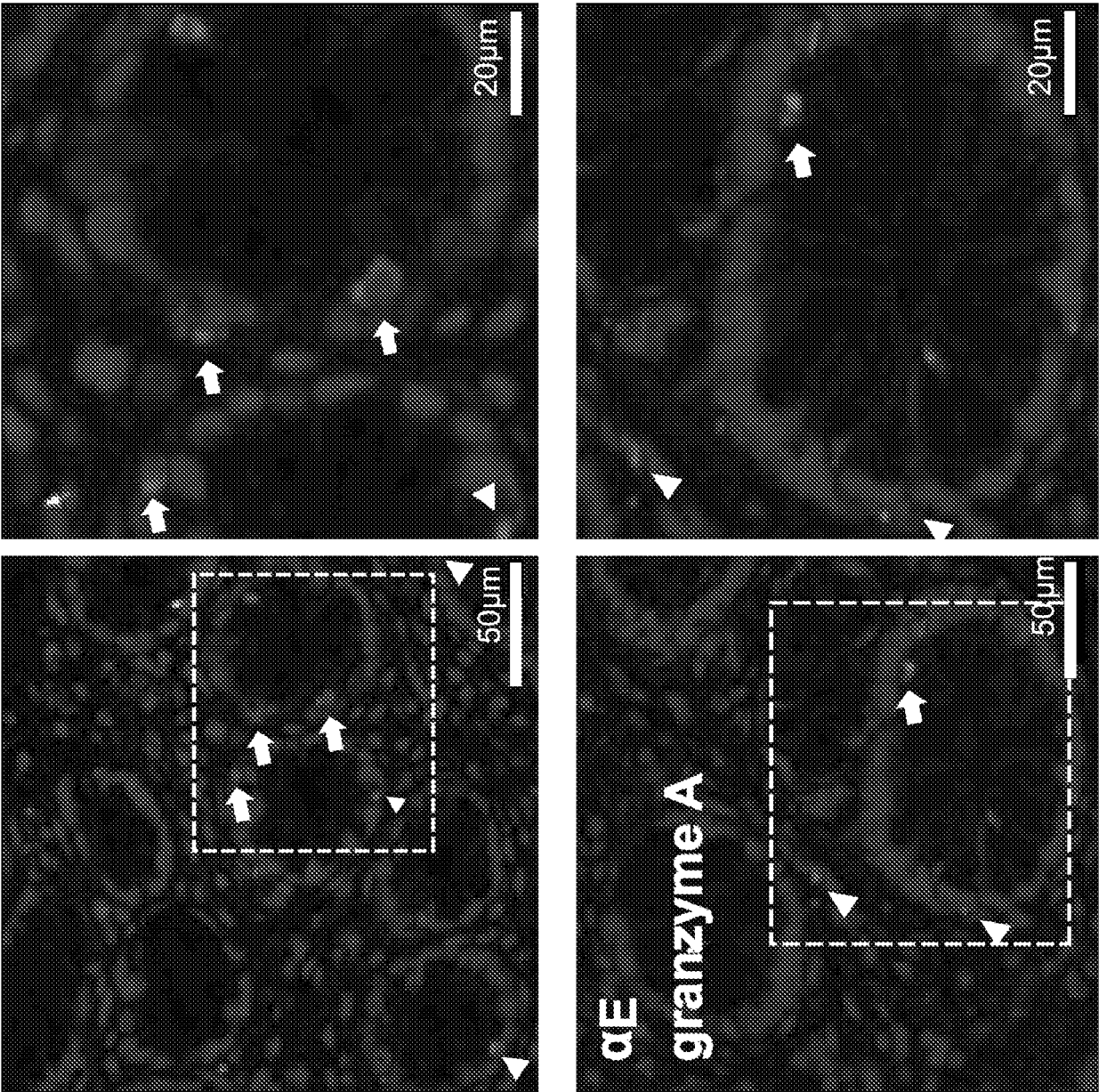


FIG. 31E