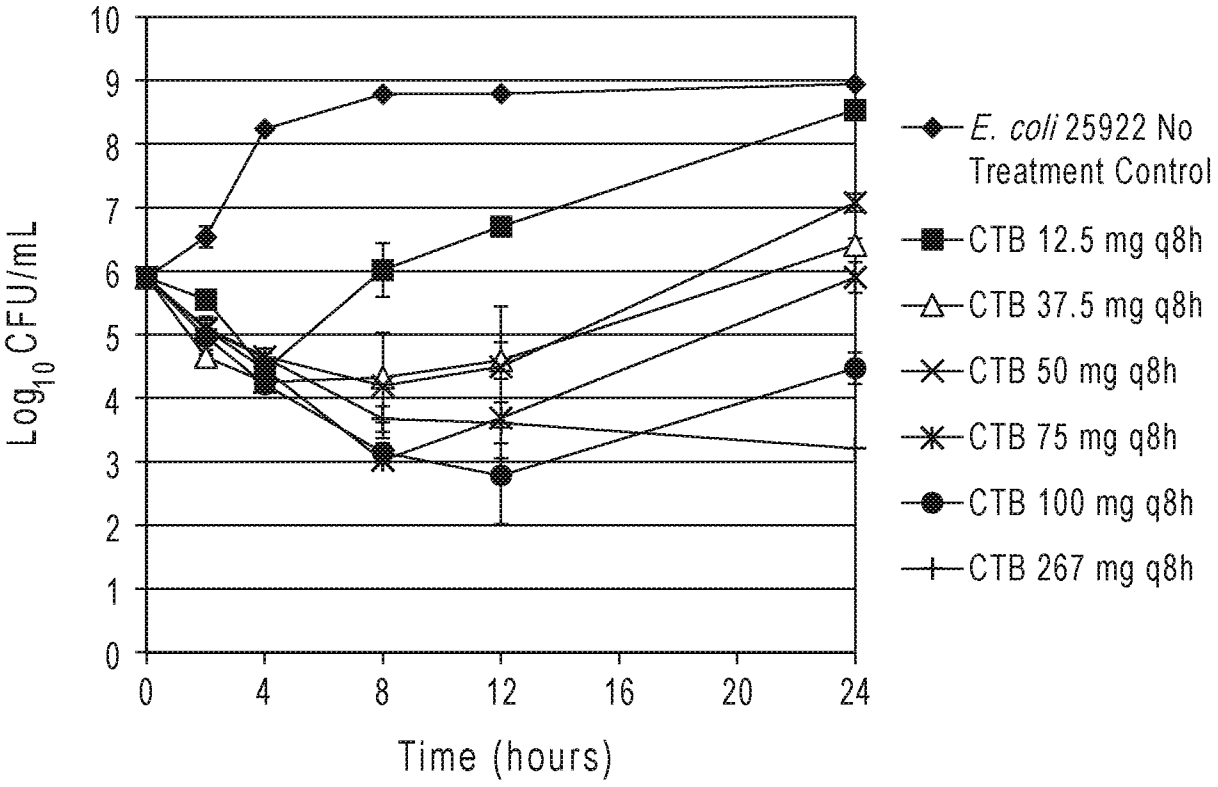

10
9
8
7
6
5
4
3
2
1
0
Log10 CFU/mL
0
4
8
12
16
20
24
Time (hours)
E. coli 25922 No Treatment Control
CTB 12.5 mg q8h
CTB 37.5 mg q8h
CTB 50 mg q8h
CTB 75 mg q8h
CTB 100 mg q8h
CTB 267 mg q8h

FIG. 1

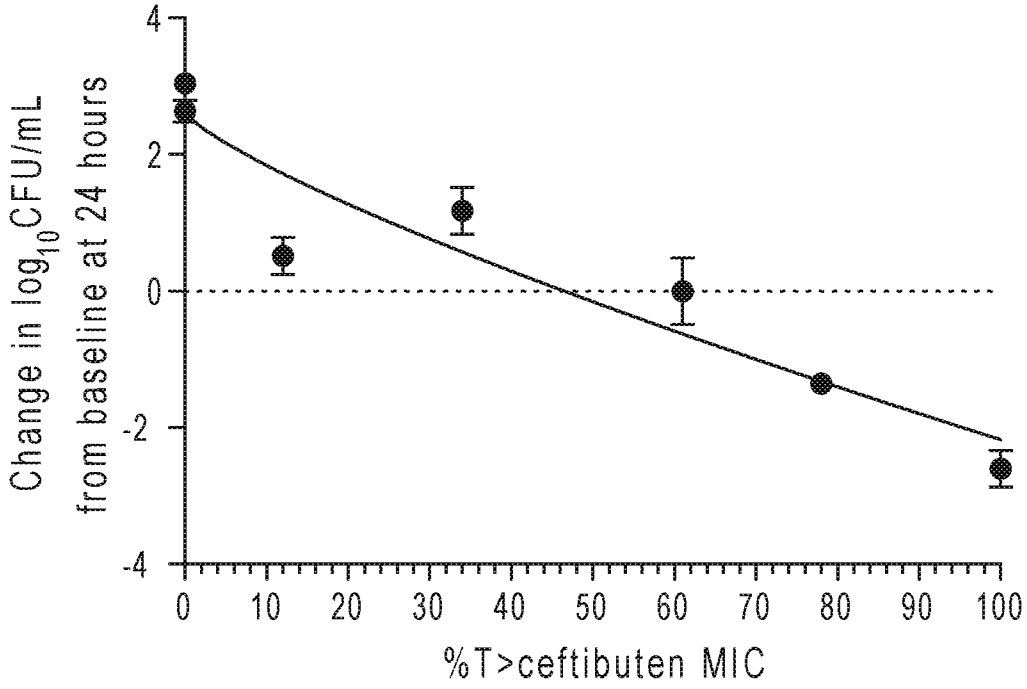

Change in log10CFU/mL
from baseline at 24 hours
4
2
0
-2
-4
0
10
20
30
40
50
60
70
80
90
100
%T>ceftibuten MIC

FIG. 2

FIG. 3A

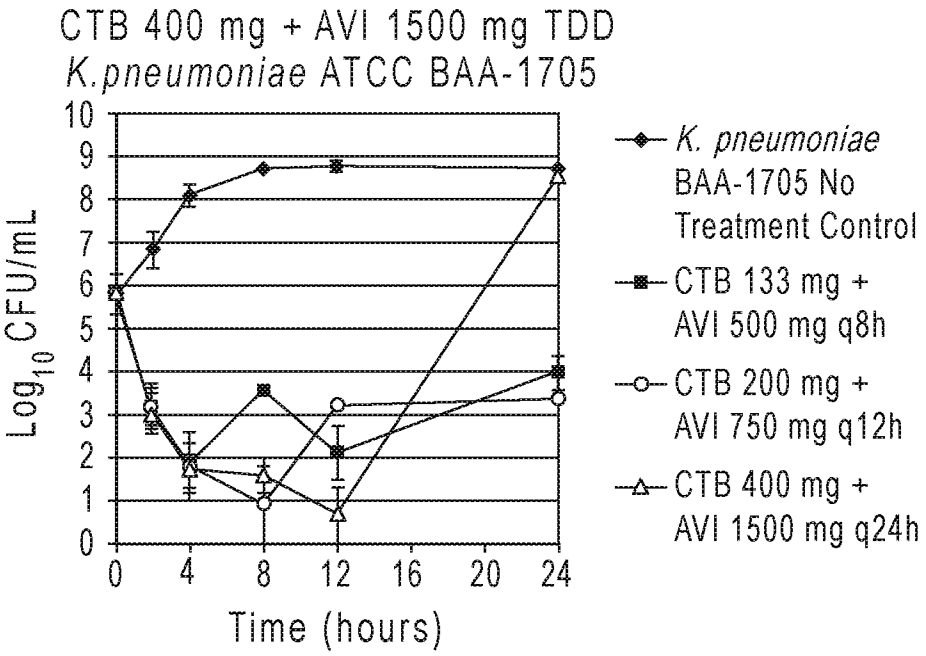

CTB 400 mg + AVI 1500 mg TDD
K.pneumoniae ATCC BAA-1705
Log10 CFU/mL
Time (hours)
K. pneumoniae BAA-1705 No Treatment Control
CTB 133 mg + AVI 500 mg q8h
CTB 200 mg + AVI 750 mg q12h
CTB 400 mg + AVI 1500 mg q24h

FIG. 3B

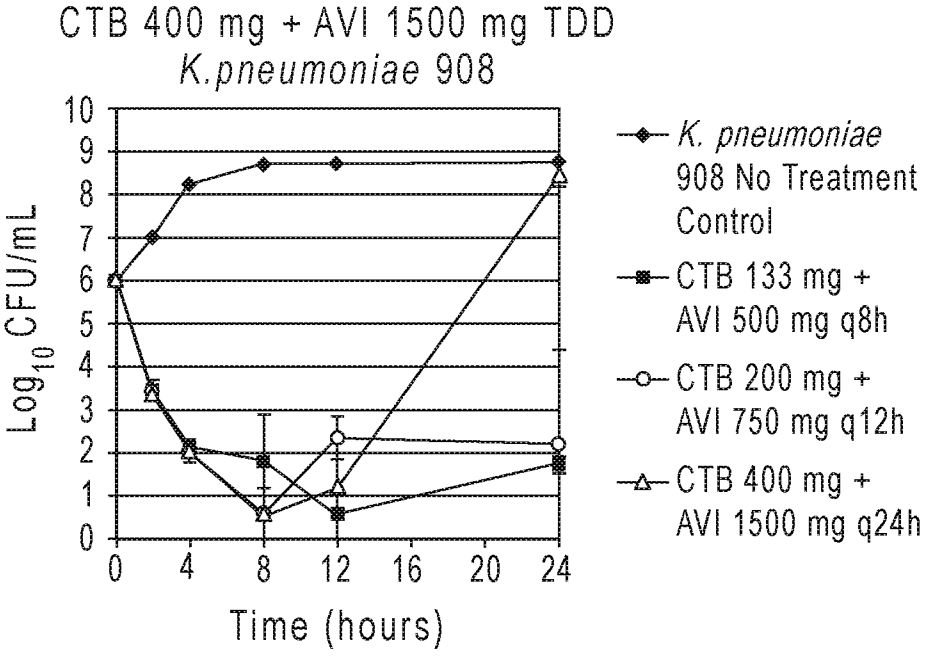

CTB 400 mg + AVI 1500 mg TDD
K.pneumoniae 908
Log10 CFU/mL
Time (hours)
K. pneumoniae 908 No Treatment Control
CTB 133 mg + AVI 500 mg q8h
CTB 200 mg + AVI 750 mg q12h
CTB 400 mg + AVI 1500 mg q24h

FIG. 3C

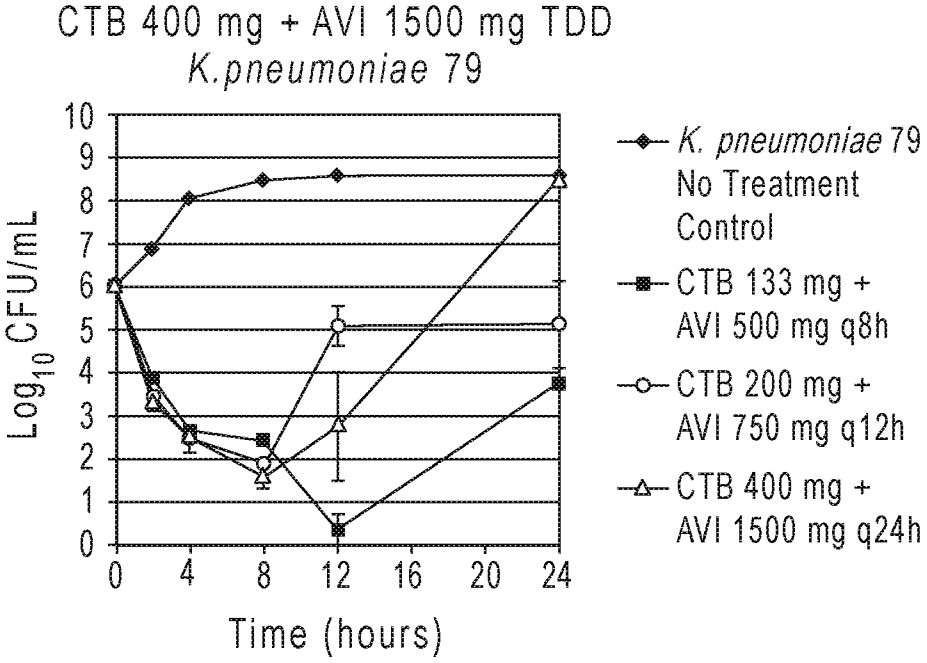

CTB 400 mg + AVI 1500 mg TDD
K.pneumoniae 79
Log10 CFU/mL
Time (hours)
K. pneumoniae 79 No Treatment Control
CTB 133 mg + AVI 500 mg q8h
CTB 200 mg + AVI 750 mg q12h
CTB 400 mg + AVI 1500 mg q24h

FIG. 3D

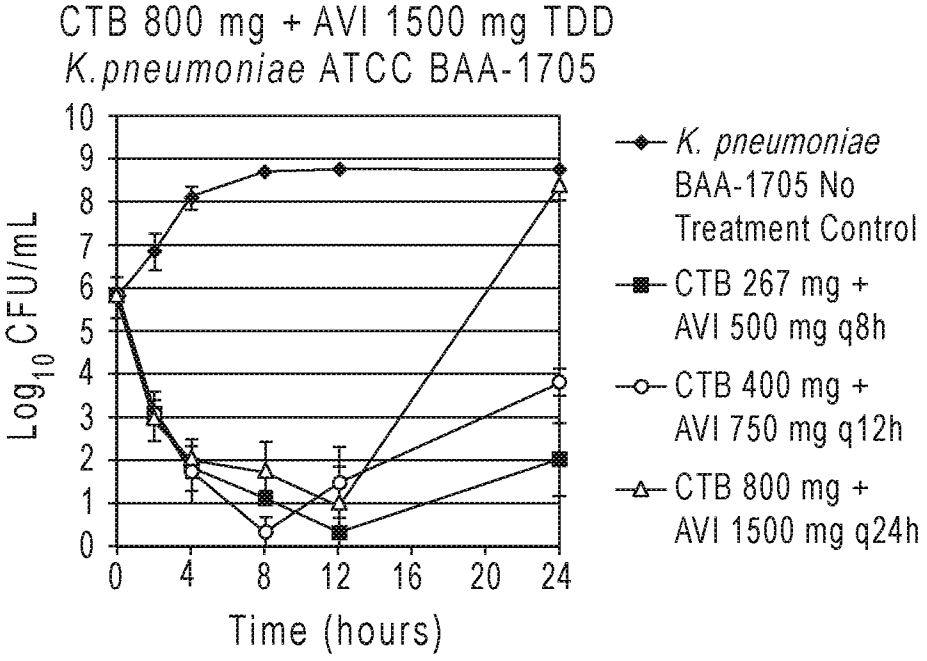

CTB 800 mg + AVI 1500 mg TDD
K.pneumoniae ATCC BAA-1705
Log10 CFU/mL
Time (hours)
K. pneumoniae BAA-1705 No Treatment Control
CTB 267 mg + AVI 500 mg q8h
CTB 400 mg + AVI 750 mg q12h
CTB 800 mg + AVI 1500 mg q24h

FIG. 3E

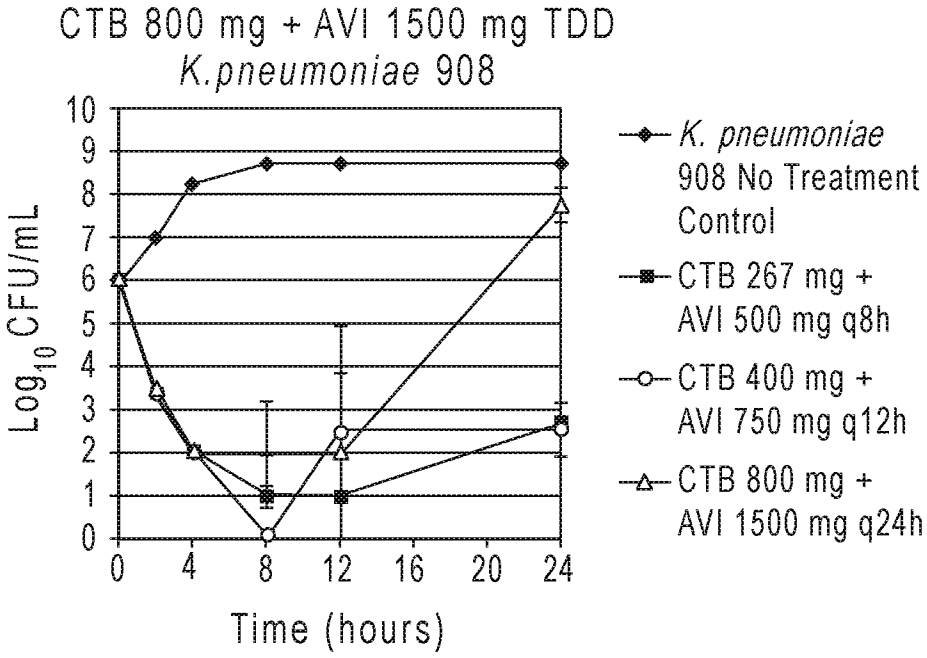

CTB 800 mg + AVI 1500 mg TDD
K.pneumoniae 908
Log10 CFU/mL
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24
K. pneumoniae 908 No Treatment Control
CTB 267 mg + AVI 500 mg q8h
CTB 400 mg + AVI 750 mg q12h
CTB 800 mg + AVI 1500 mg q24h

FIG. 3F

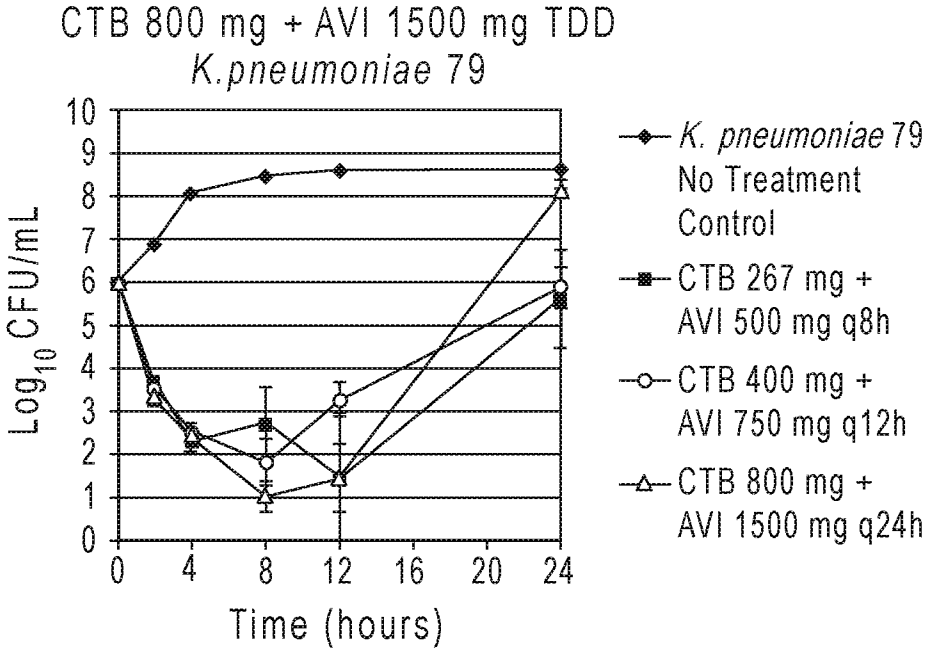

CTB 800 mg + AVI 1500 mg TDD
K.pneumoniae 79
Log10 CFU/mL
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24
K. pneumoniae 79 No Treatment Control
CTB 267 mg + AVI 500 mg q8h
CTB 400 mg + AVI 750 mg q12h
CTB 800 mg + AVI 1500 mg q24h

FIG. 3G

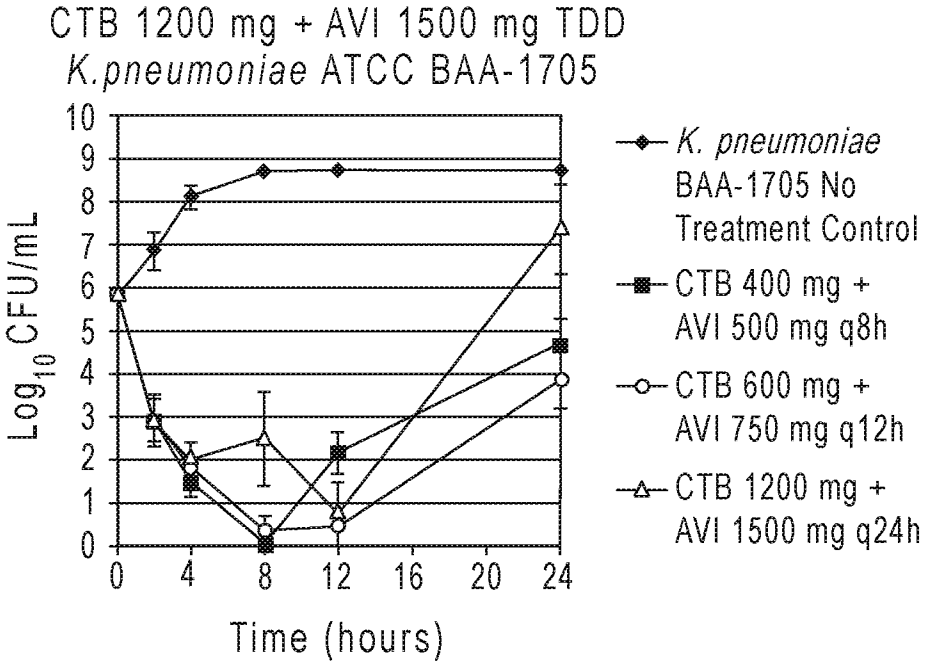

CTB 1200 mg + AVI 1500 mg TDD
K.pneumoniae ATCC BAA-1705
Log10 CFU/mL
Time (hours)
K. pneumoniae BAA-1705 No Treatment Control
CTB 400 mg + AVI 500 mg q8h
CTB 600 mg + AVI 750 mg q12h
CTB 1200 mg + AVI 1500 mg q24h

FIG. 3H

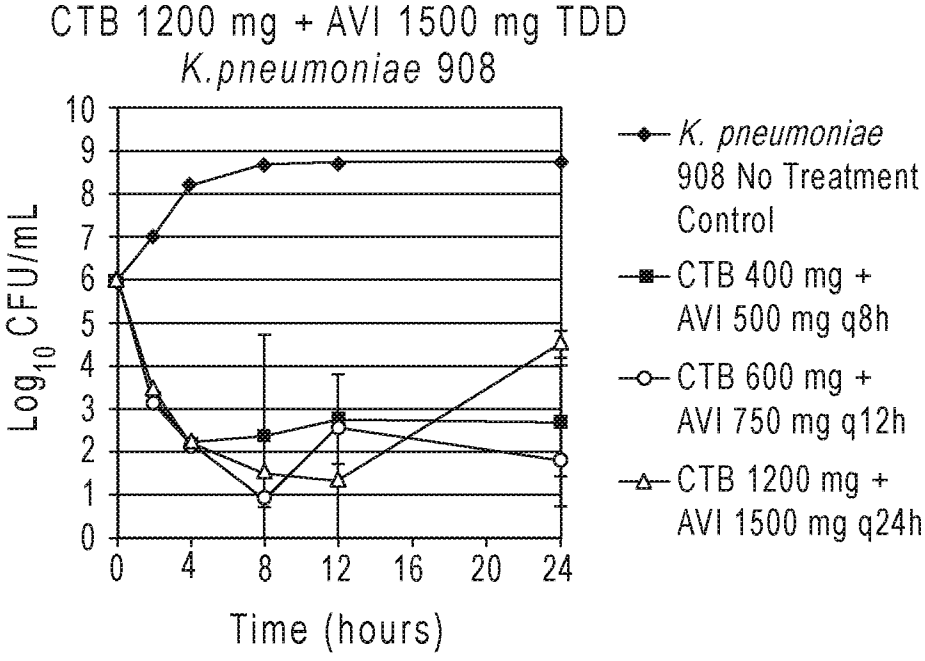
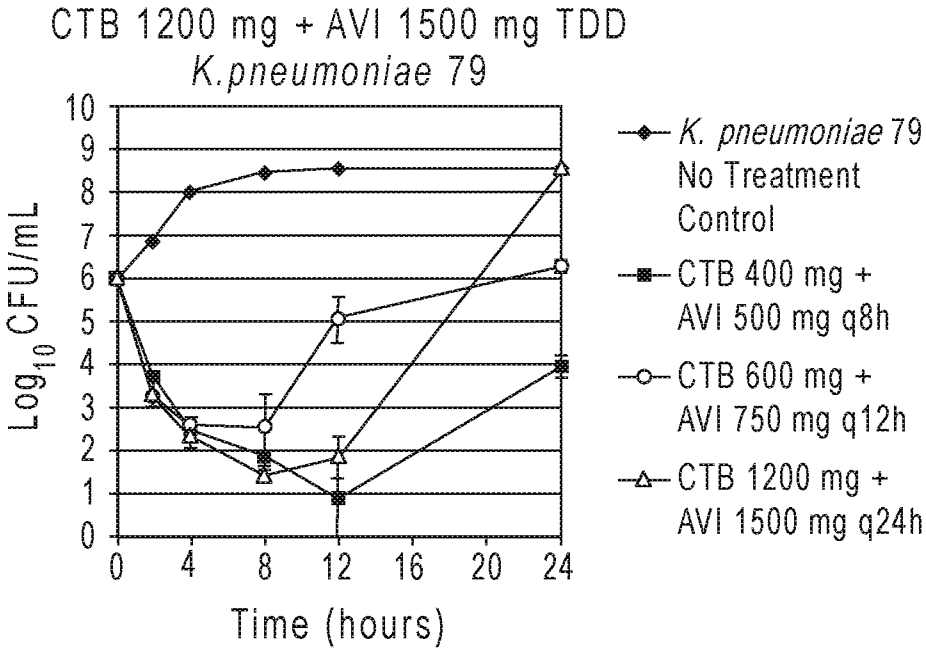

CTB 1200 mg + AVI 1500 mg TDD
K.pneumoniae 908
Log10 CFU/mL
Time (hours)
K. pneumoniae 908 No Treatment Control
CTB 400 mg + AVI 500 mg q8h
CTB 600 mg + AVI 750 mg q12h
CTB 1200 mg + AVI 1500 mg q24h

FIG. 3I


CTB 1200 mg + AVI 1500 mg TDD
K.pneumoniae 79
Log10 CFU/mL
10
9
8
7
6
5
4
3
2
1
0
0
4
8
12
16
20
24
Time (hours)
K. pneumoniae 79 No Treatment Control
CTB 400 mg + AVI 500 mg q8h
CTB 600 mg + AVI 750 mg q12h
CTB 1200 mg + AVI 1500 mg q24h

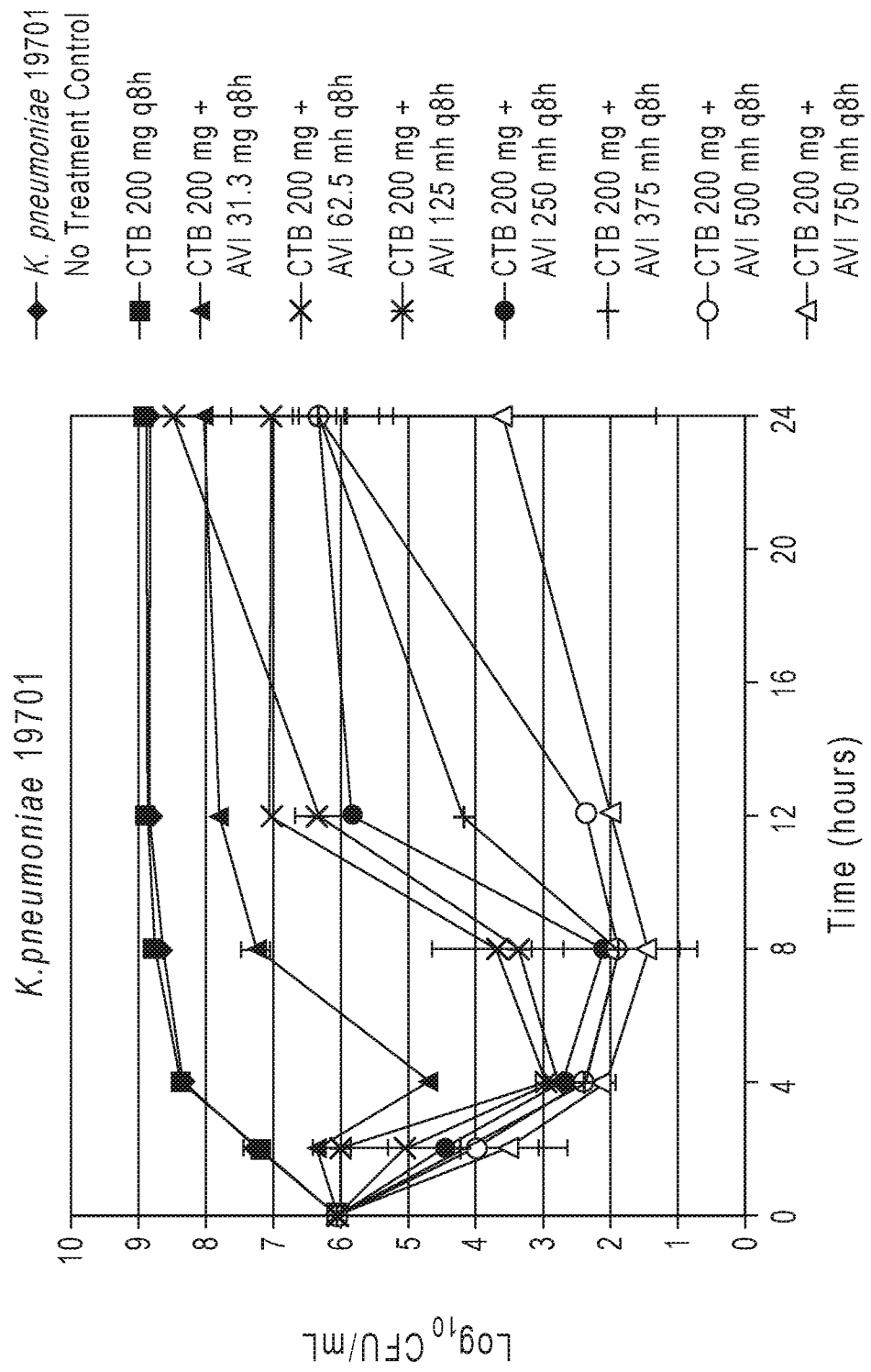

K. pneumoniae 19701
No Treatment Control
CTB 200 mg q8h
CTB 200 mg + AVI 31.3 mg q8h
CTB 200 mg + AVI 62.5 mh q8h
CTB 200 mg + AVI 125 mh q8h
CTB 200 mg + AVI 250 mh q8h
CTB 200 mg + AVI 375 mh q8h
CTB 200 mg + AVI 500 mh q8h
CTB 200 mg + AVI 750 mh q8h
K.pneumoniae 19701
Log10 CFU/mL
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24

FIG. 4

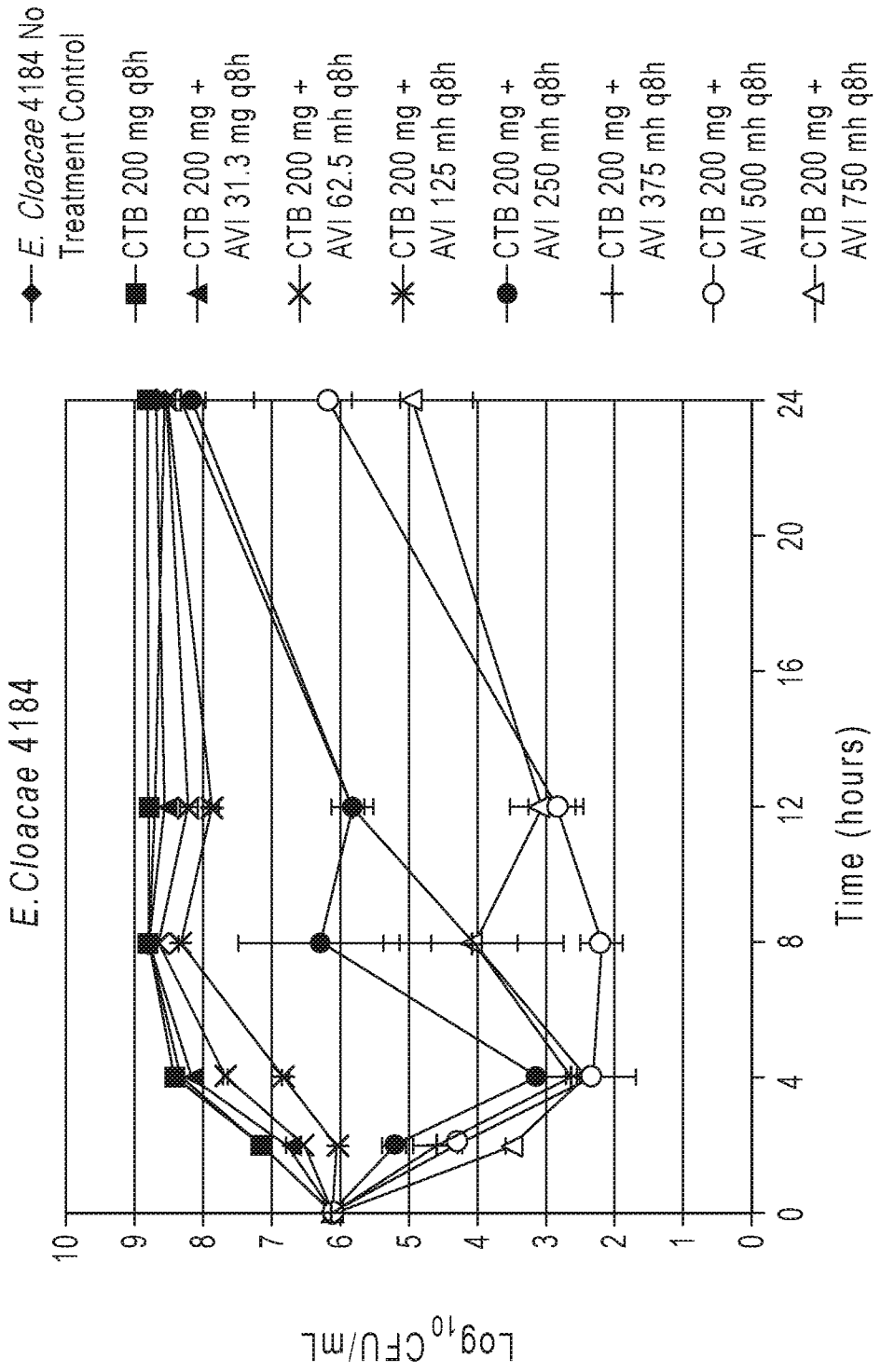

E. Cloacae 4184 No Treatment Control
CTB 200 mg q8h
CTB 200 mg + AVI 31.3 mg q8h
CTB 200 mg + AVI 62.5 mh q8h
CTB 200 mg + AVI 125 mh q8h
CTB 200 mg + AVI 250 mh q8h
CTB 200 mg + AVI 375 mh q8h
CTB 200 mg + AVI 500 mh q8h
CTB 200 mg + AVI 750 mh q8h
E.Cloacae 4184
Log10 CFU/mL
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24

FIG. 5

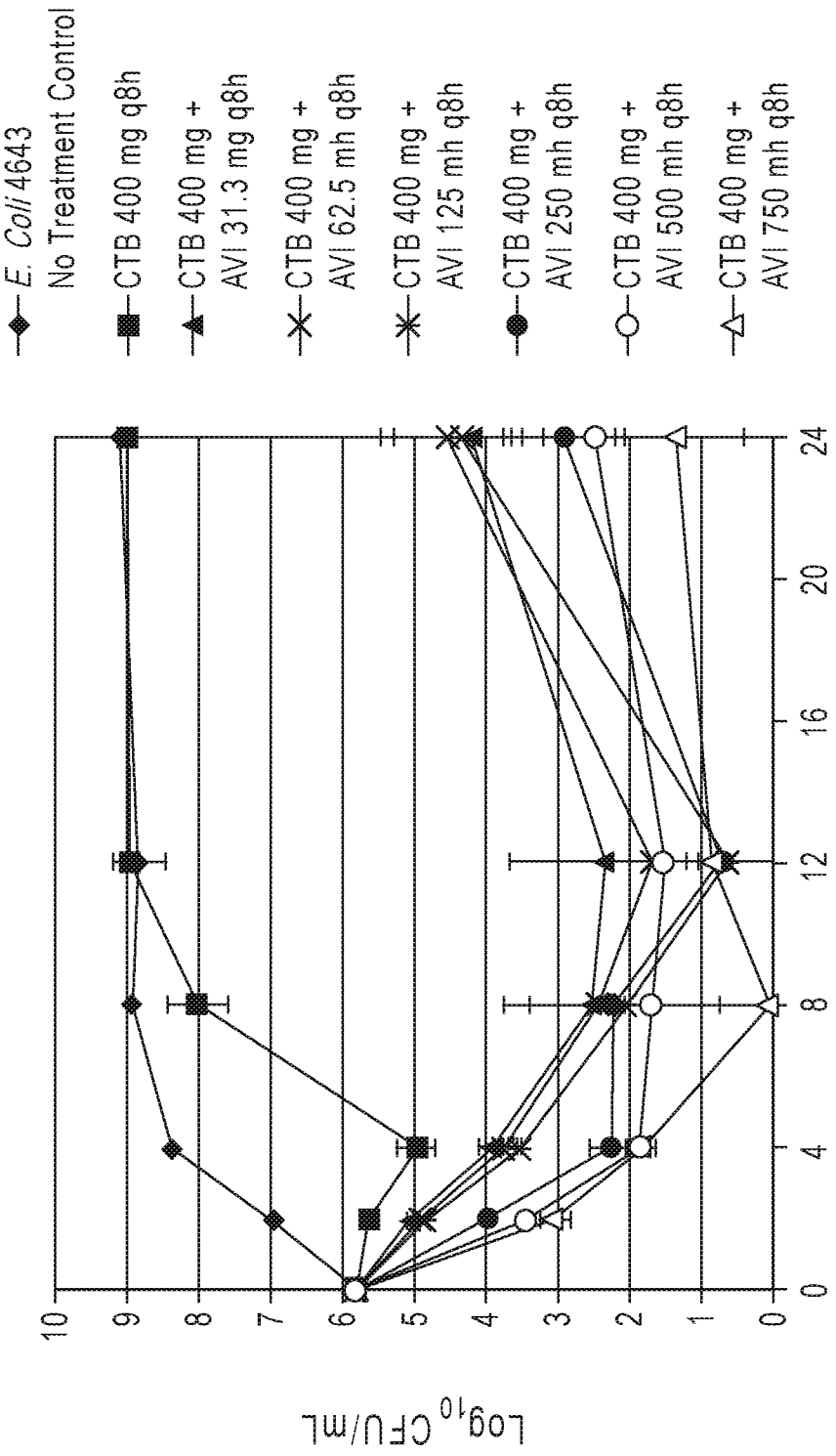

E. Coli 4643
No Treatment Control
CTB 400 mg q8h
CTB 400 mg + AVI 31.3 mg q8h
CTB 400 mg + AVI 62.5 mh q8h
CTB 400 mg + AVI 125 mh q8h
CTB 400 mg + AVI 250 mh q8h
CTB 400 mg + AVI 500 mh q8h
CTB 400 mg + AVI 750 mh q8h
Log10 CFU/mL
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24

FIG. 6

FIG. 7A

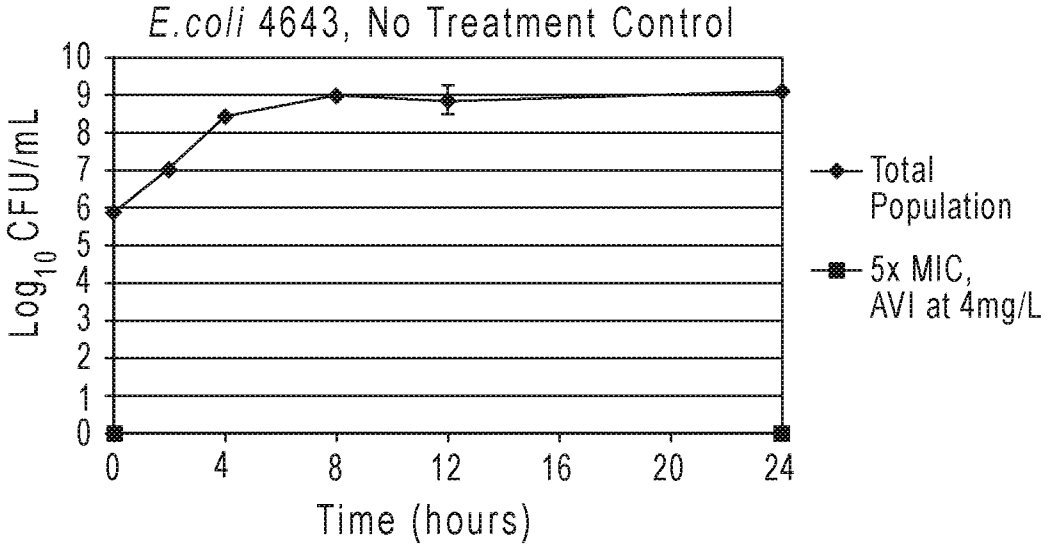


FIG. 7B

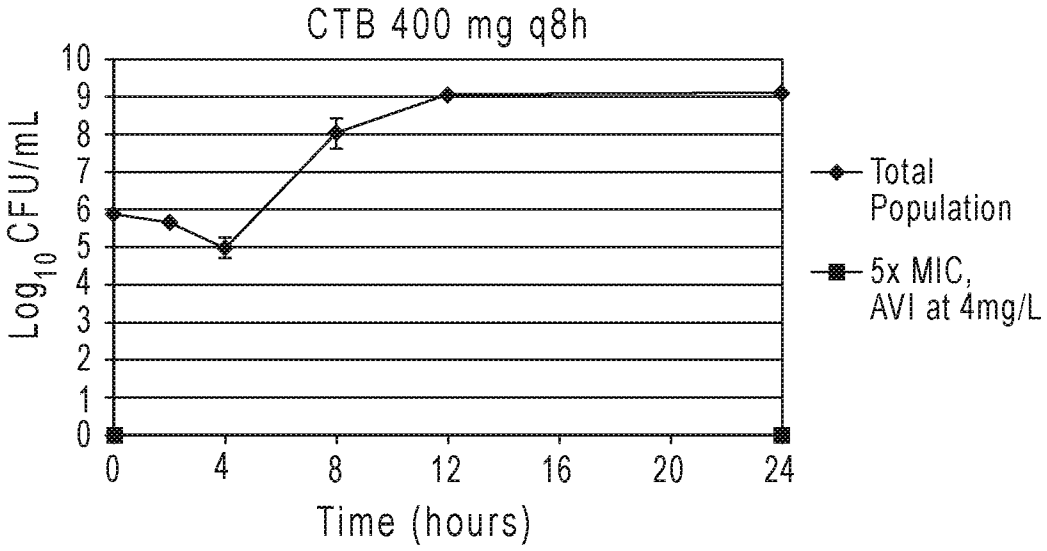


FIG. 7C

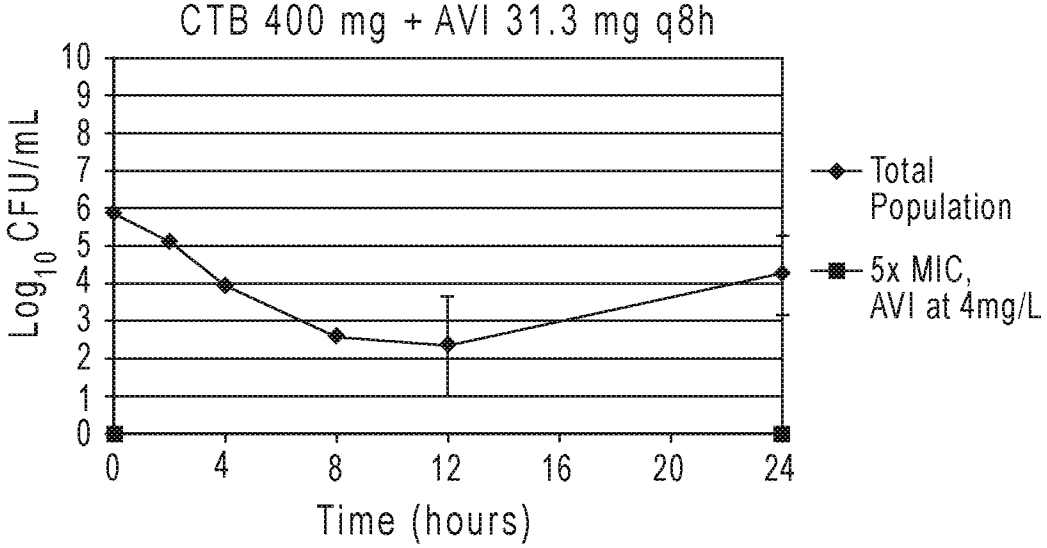


FIG. 7D

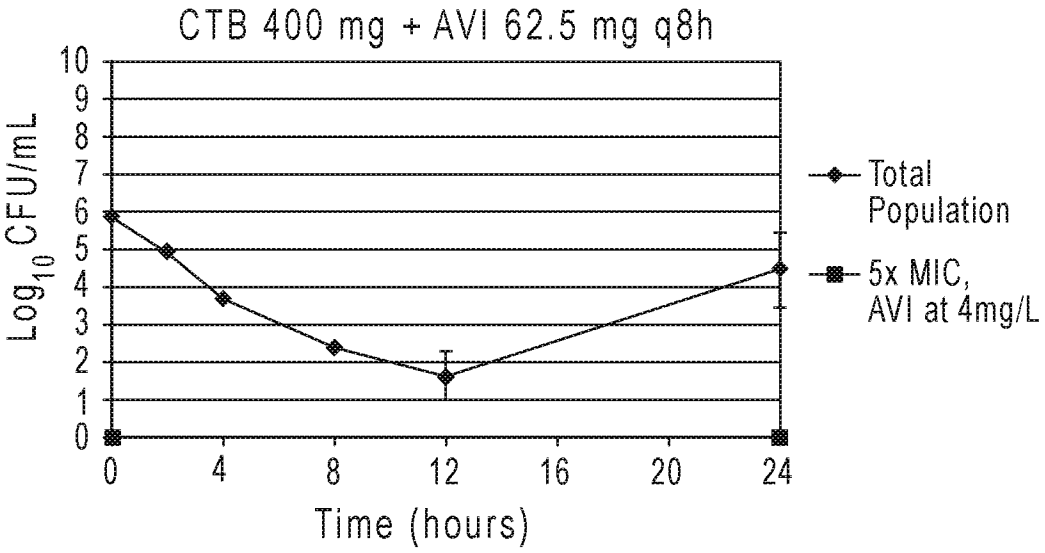


FIG. 7E

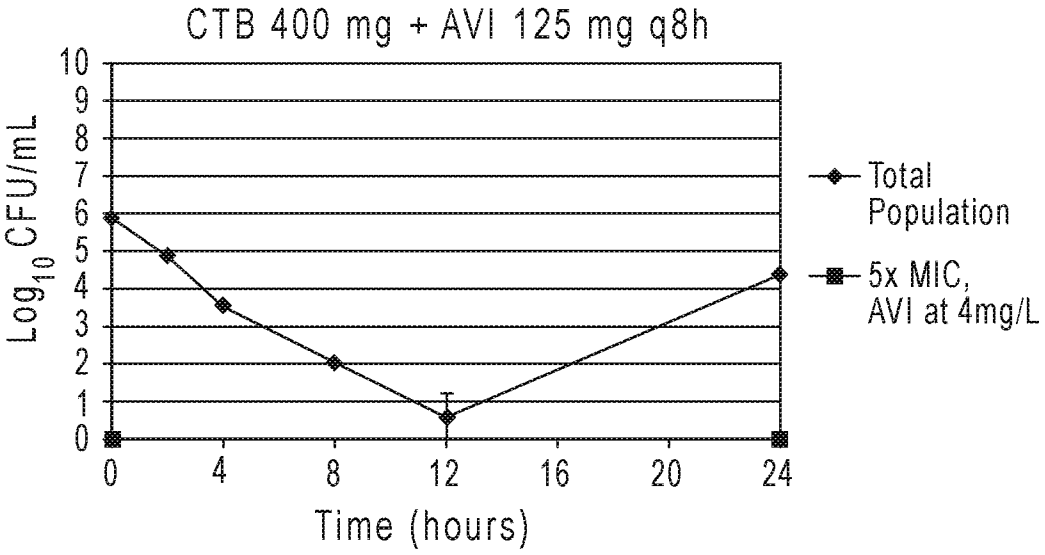


FIG. 7F

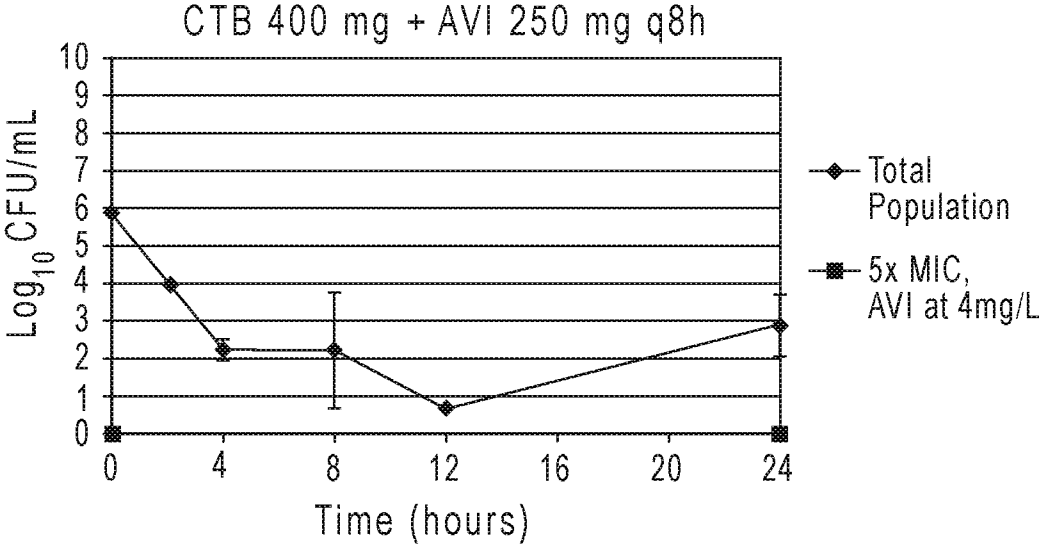


FIG. 7G

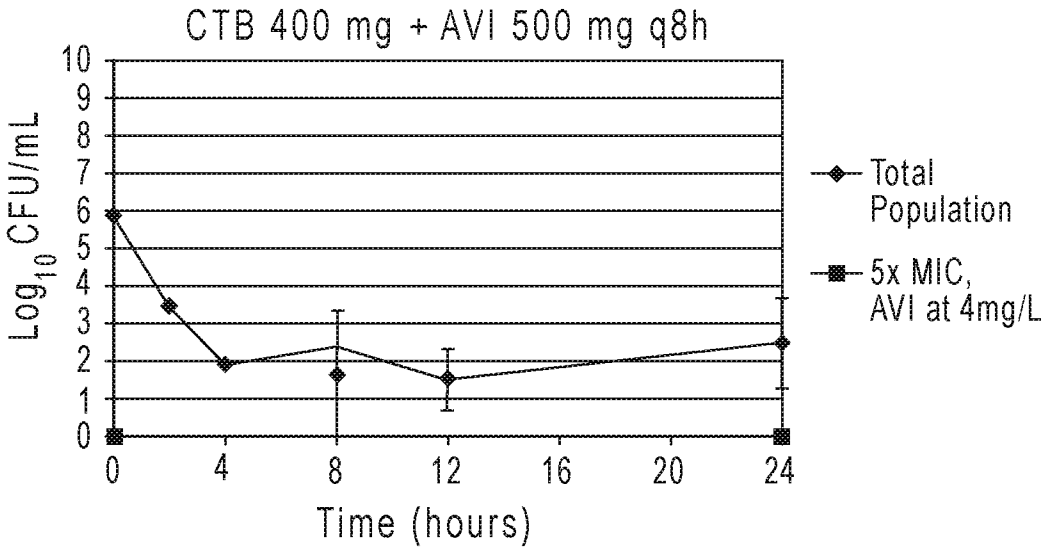
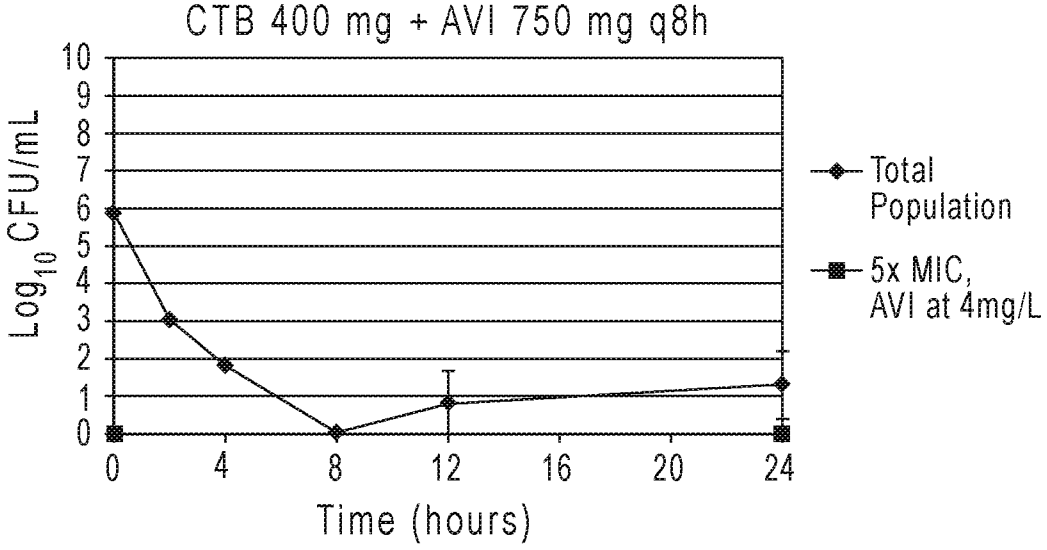

CTB 400 mg + AVI 500 mg q8h
Log10 CFU/mL
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24
Time (hours)
Total Population
5x MIC, AVI at 4mg/L

FIG. 7H


CTB 400 mg + AVI 750 mg q8h
Log10 CFU/mL
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24
Time (hours)
Total Population
5x MIC, AVI at 4mg/L

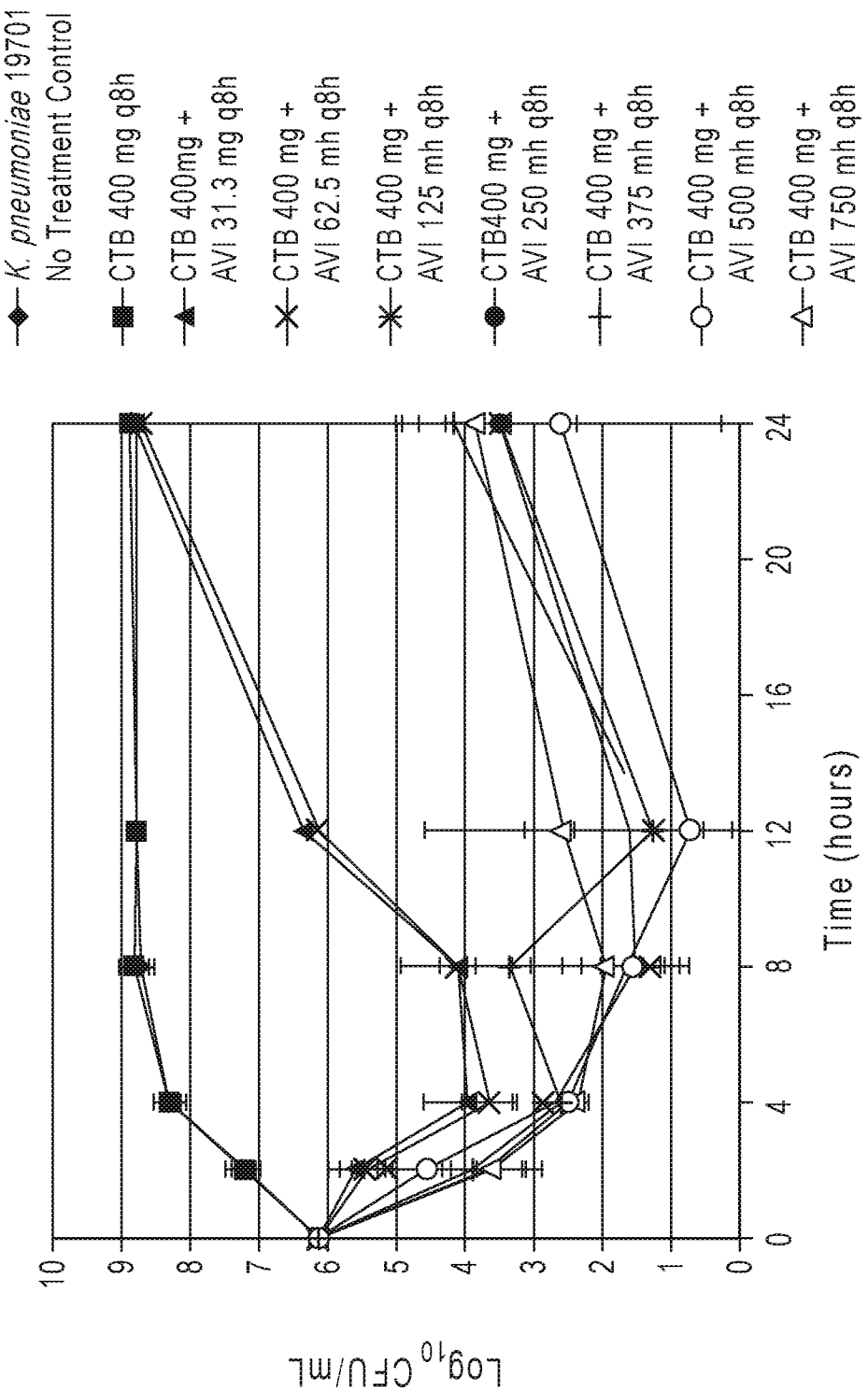

K. pneumoniae 19701 No Treatment Control
CTB 400 mg q8h
CTB 400mg + AVI 31.3 mg q8h
CTB 400 mg + AVI 62.5 mh q8h
CTB 400 mg + AVI 125 mh q8h
CTB400 mg + AVI 250 mh q8h
CTB 400 mg + AVI 375 mh q8h
CTB 400 mg + AVI 500 mh q8h
CTB 400 mg + AVI 750 mh q8h
Log10 CFU/mL
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24

FIG. 8

FIG. 9A

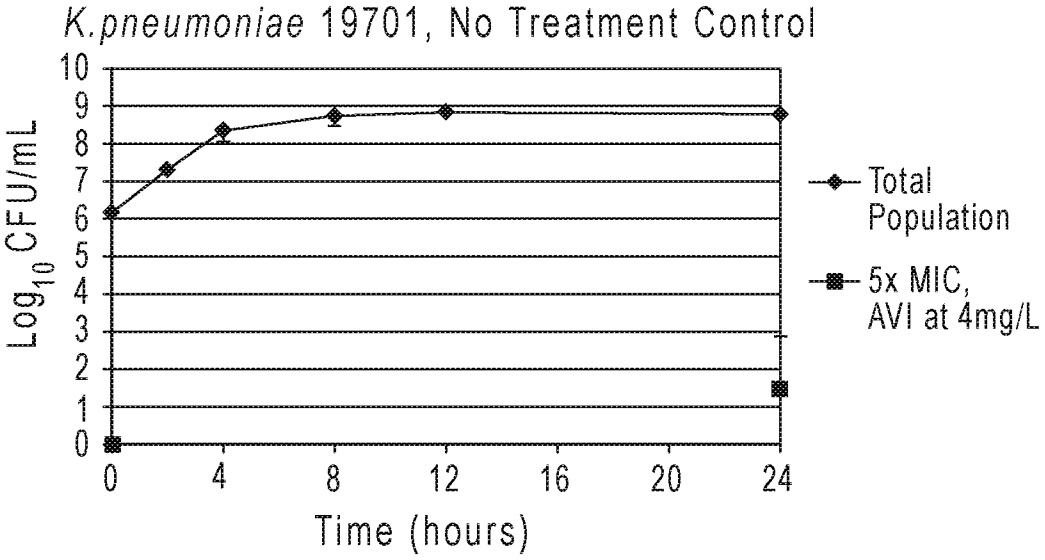


FIG. 9B

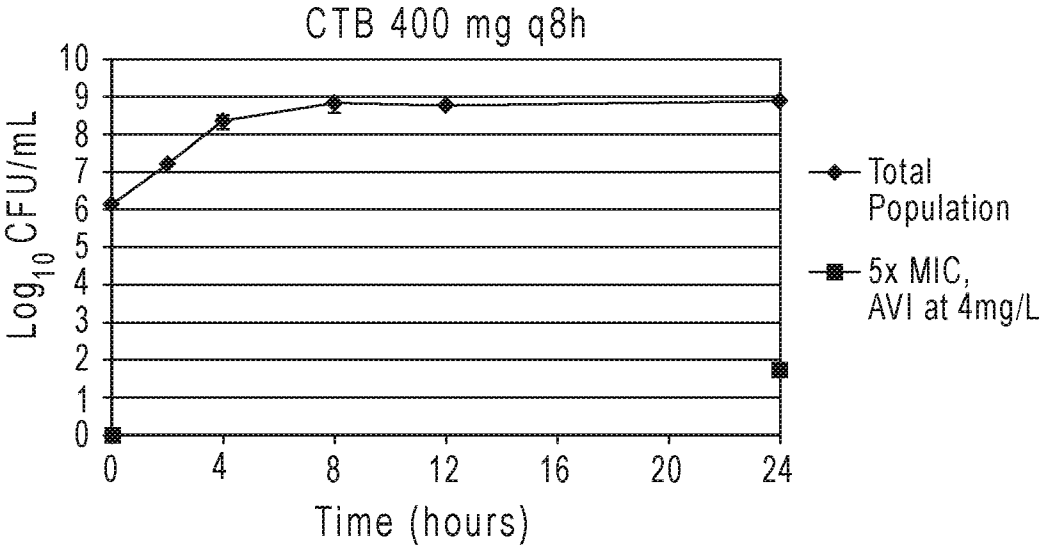


FIG. 9C

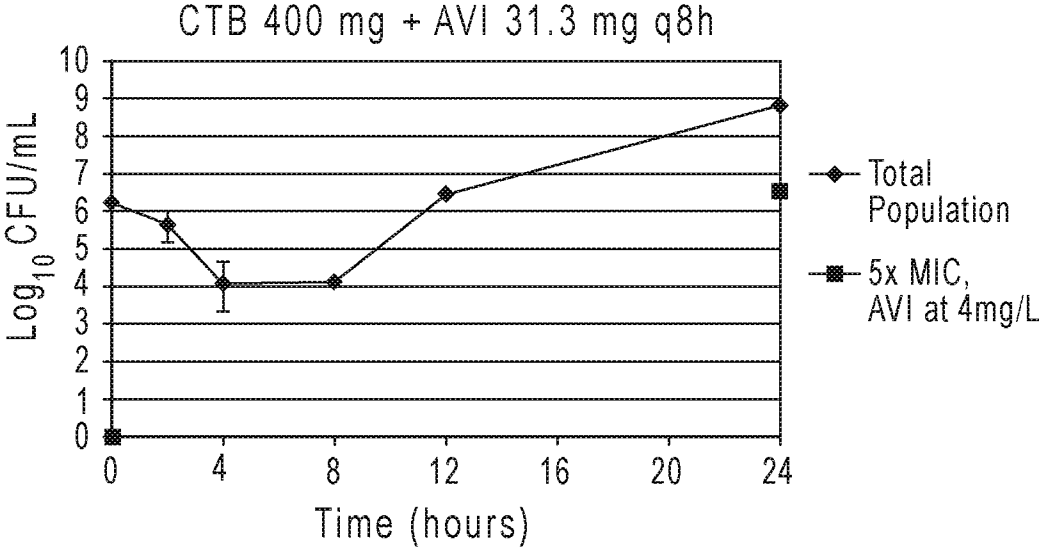


FIG. 9D

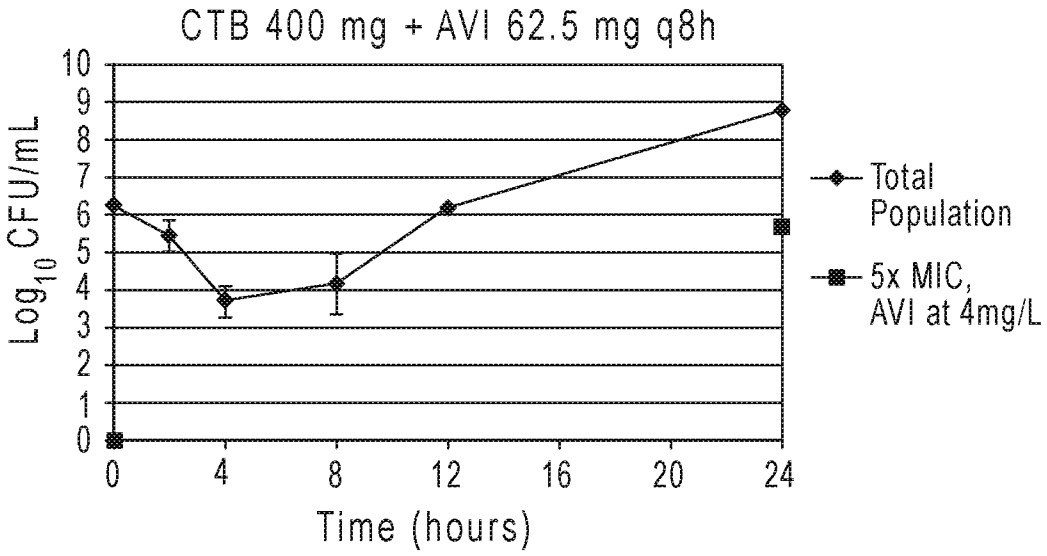


FIG. 9E

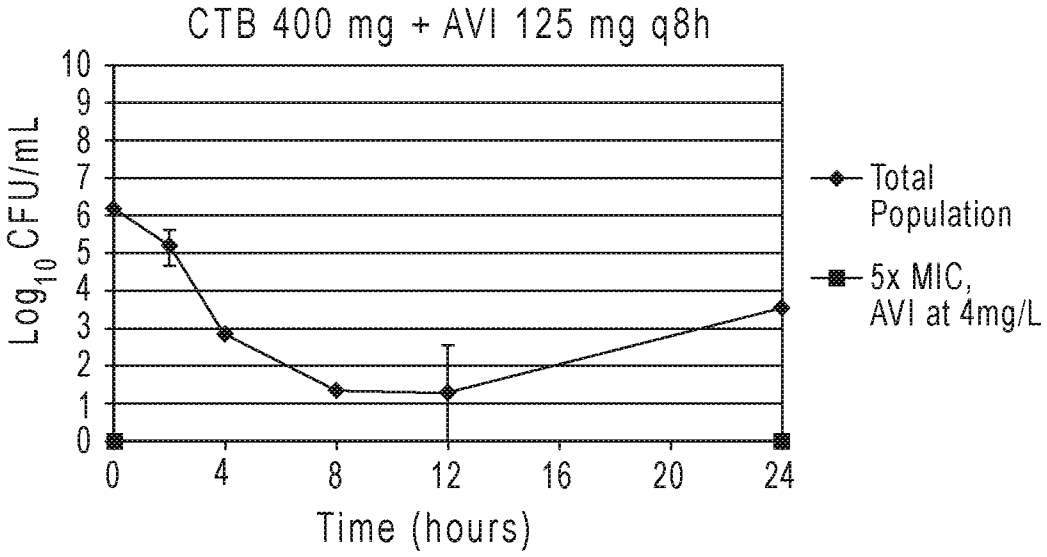


FIG. 9F

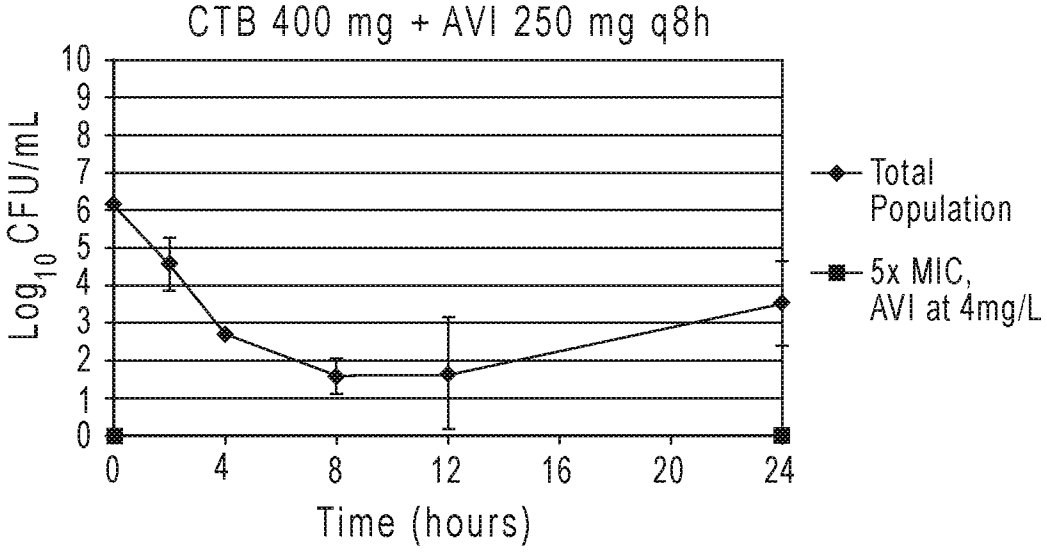


FIG. 9G

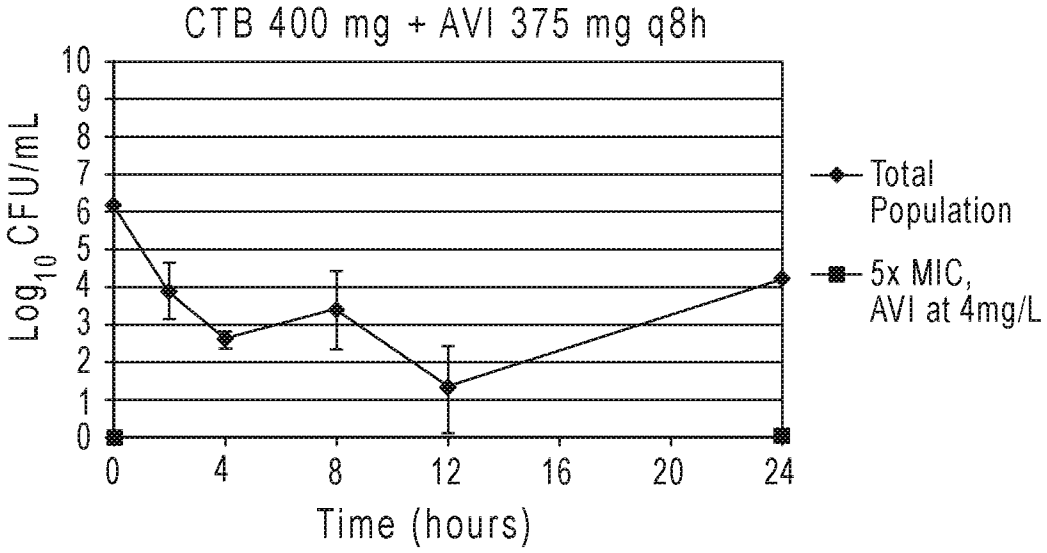


FIG. 9H

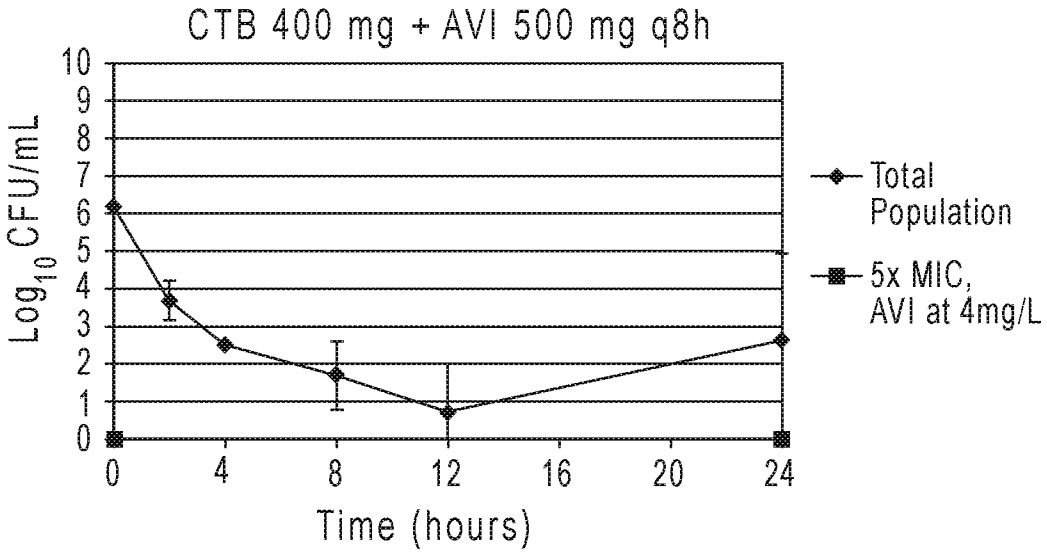
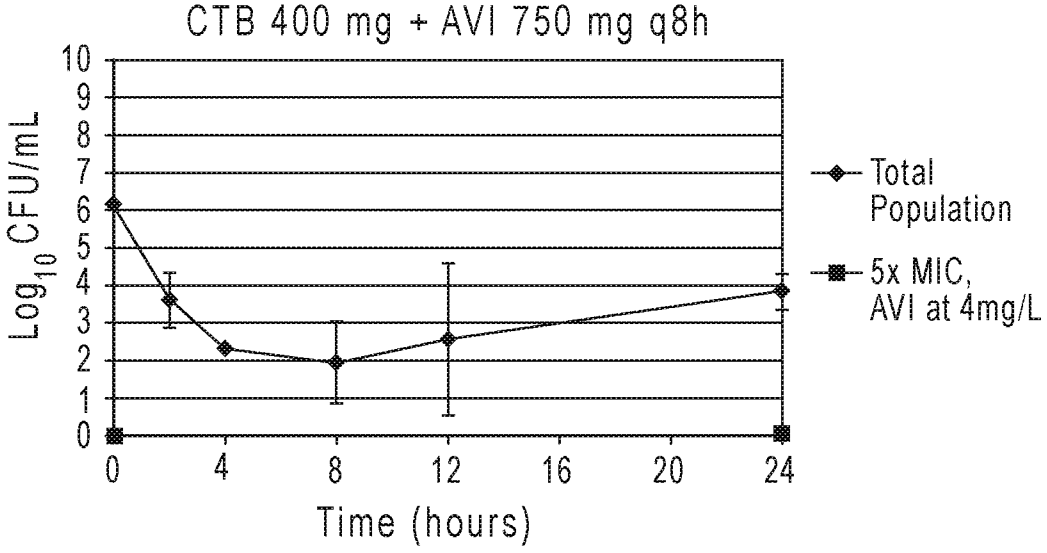


FIG. 9I



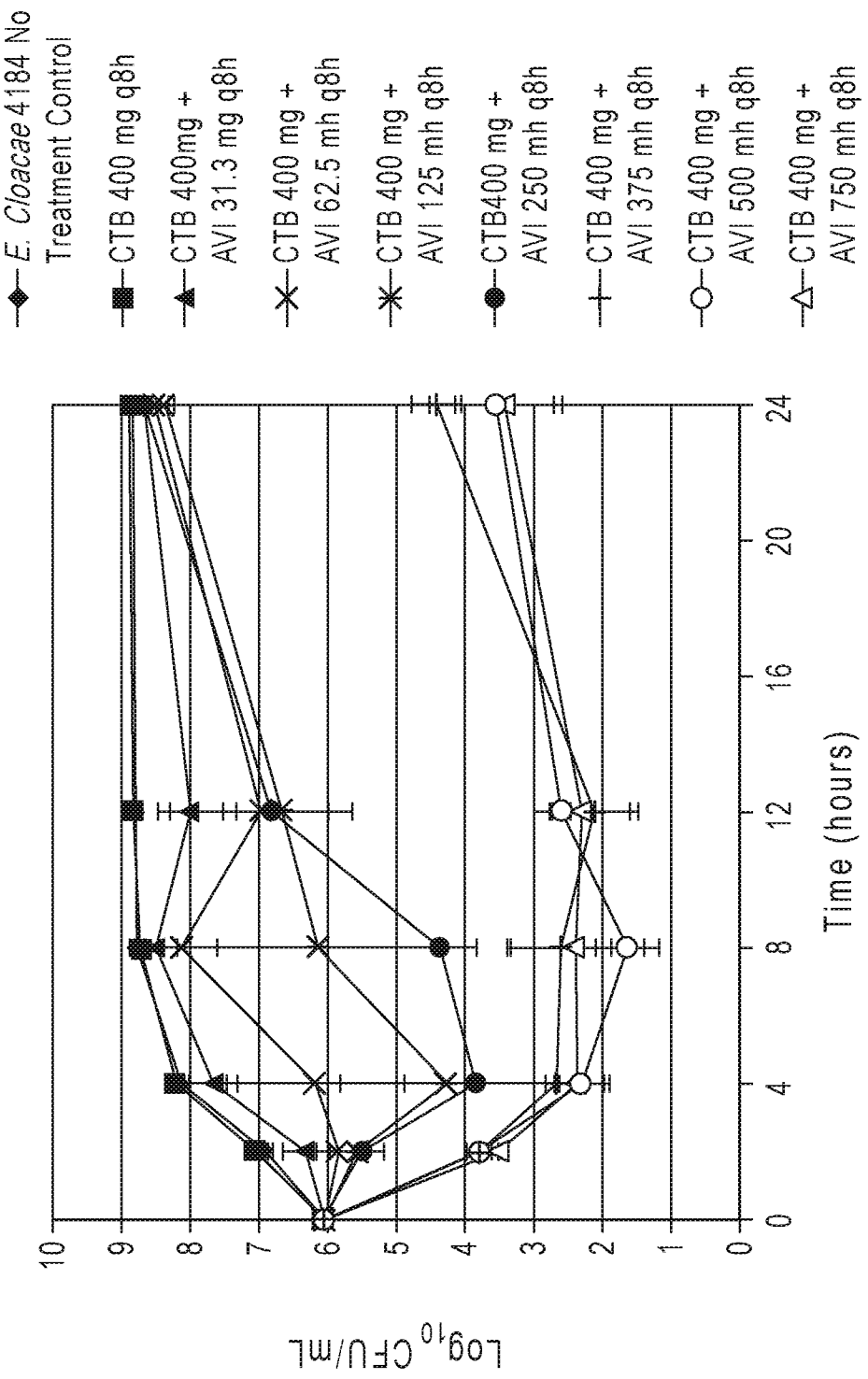

E. Cloacae 4184 No Treatment Control
CTB 400 mg q8h
CTB 400mg + AVI 31.3 mg q8h
CTB 400 mg + AVI 62.5 mh q8h
CTB 400 mg + AVI 125 mh q8h
CTB400 mg + AVI 250 mh q8h
CTB 400 mg + AVI 375 mh q8h
CTB 400 mg + AVI 500 mh q8h
CTB 400 mg + AVI 750 mh q8h
Log10 CFU/mL
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
0
4
8
12
16
20
24

FIG. 10

FIG. 11A

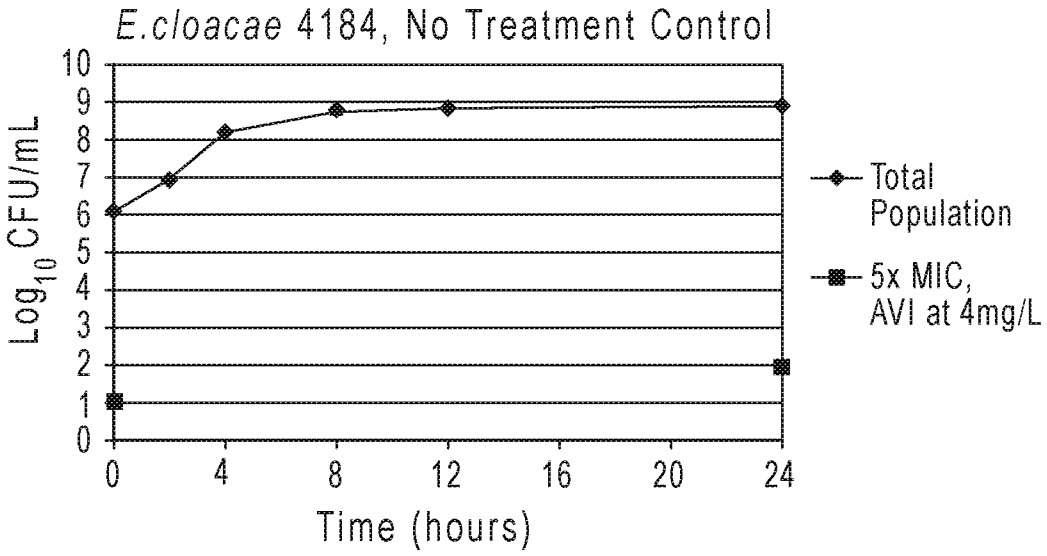


FIG. 11B

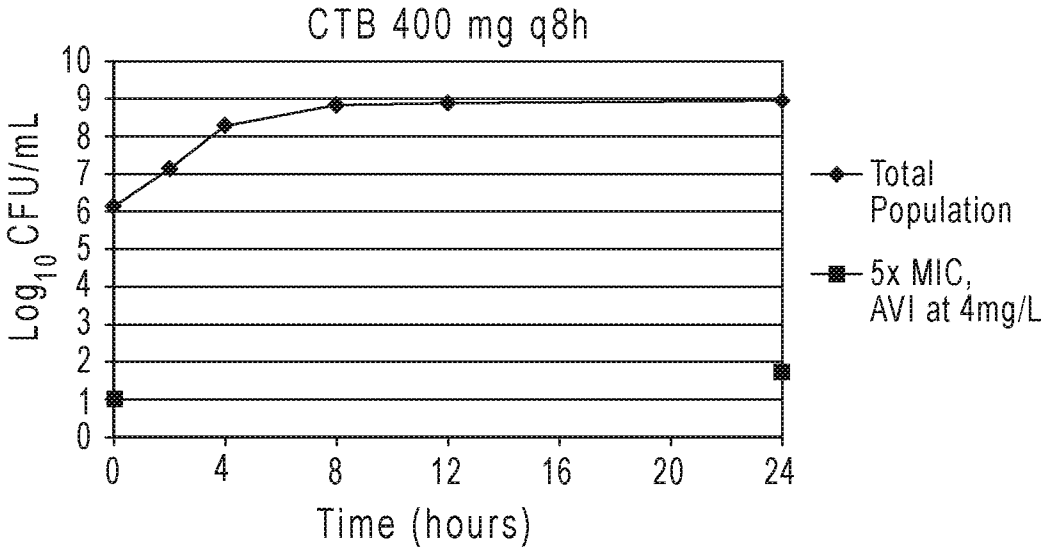


FIG. 11C

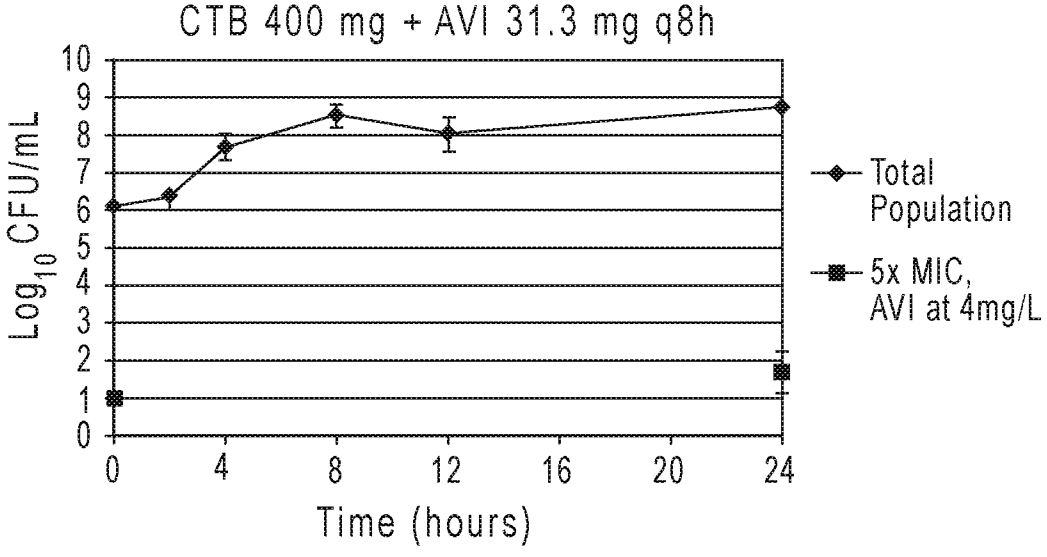


FIG. 11D

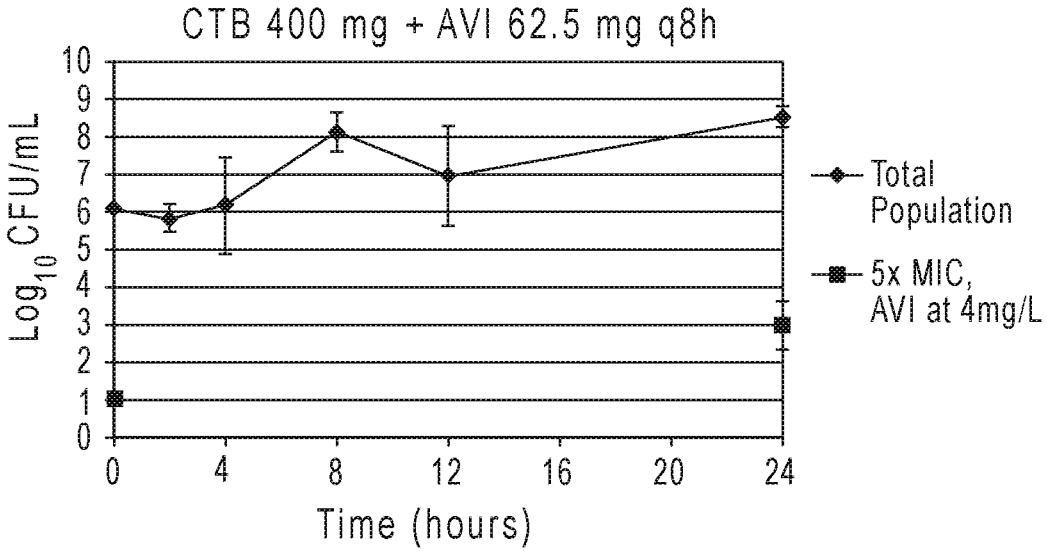


FIG. 11E

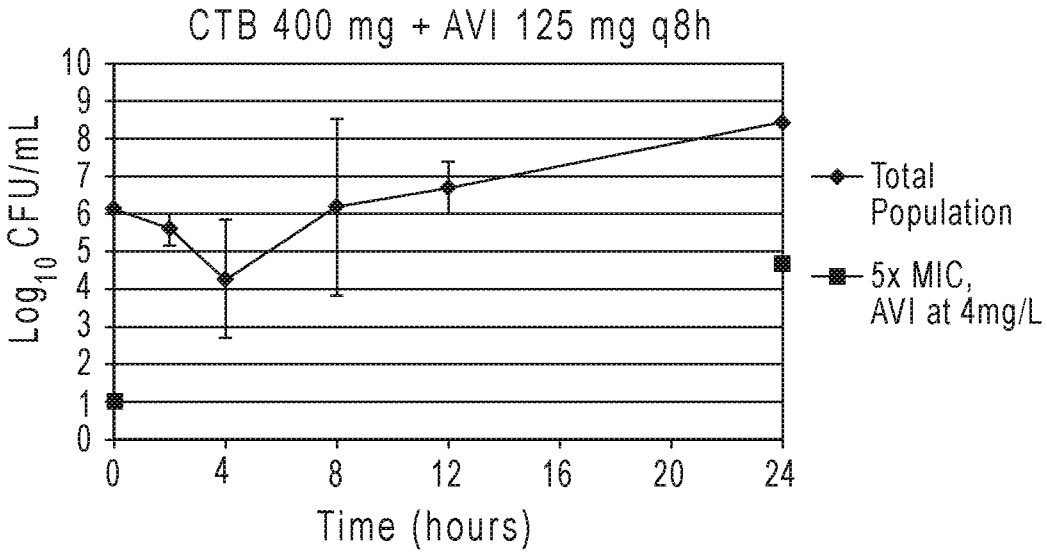


FIG. 11F

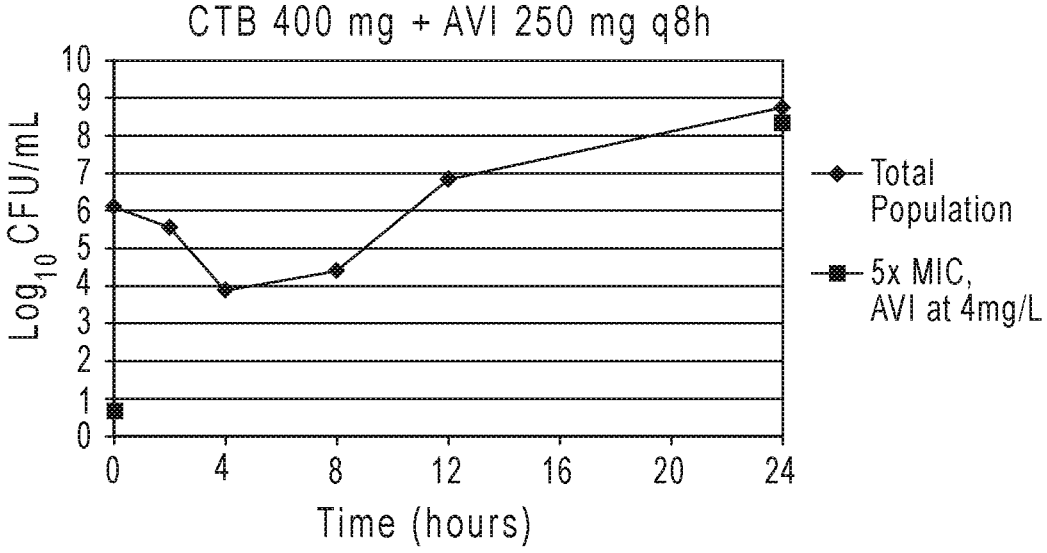


FIG. 11G

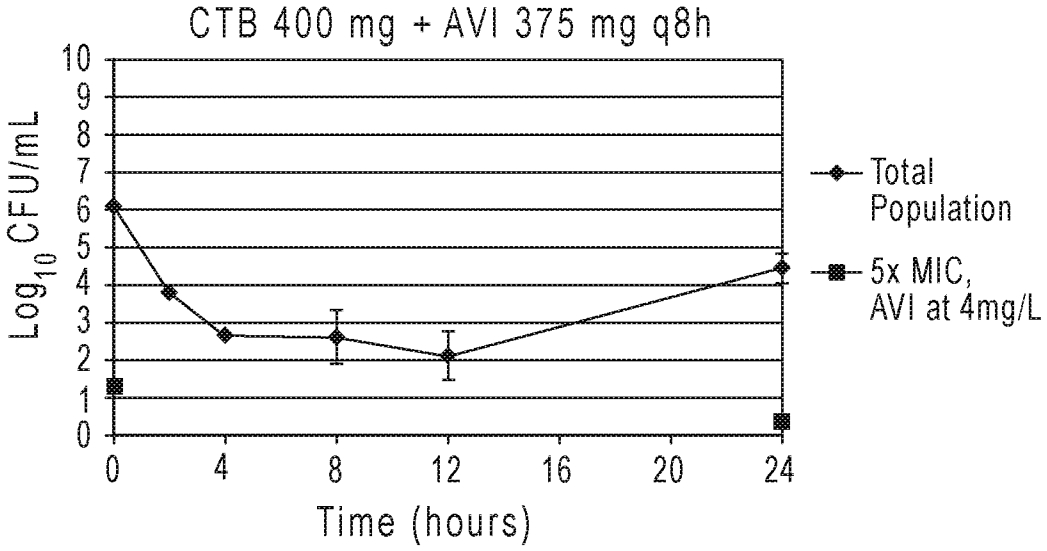


FIG. 11H

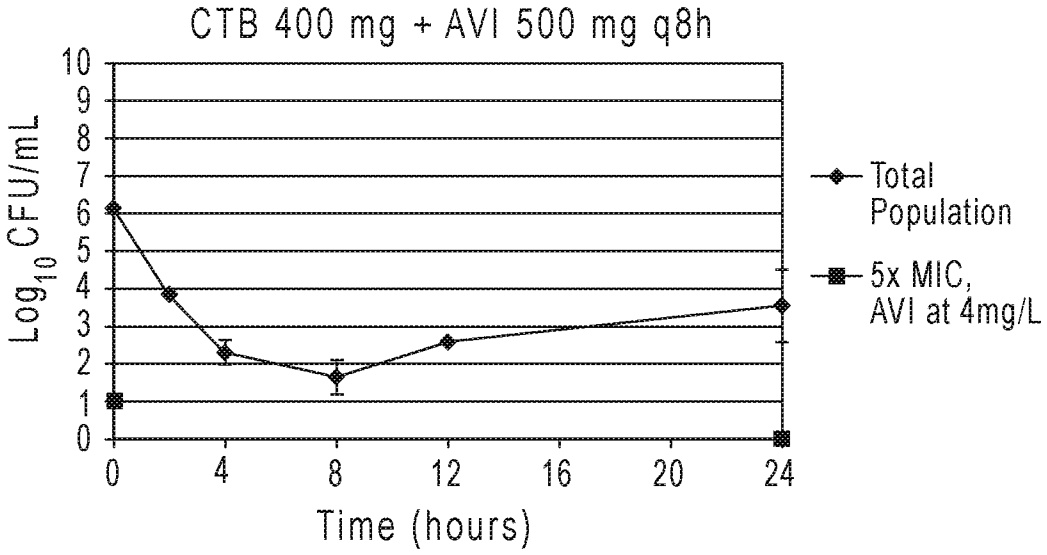
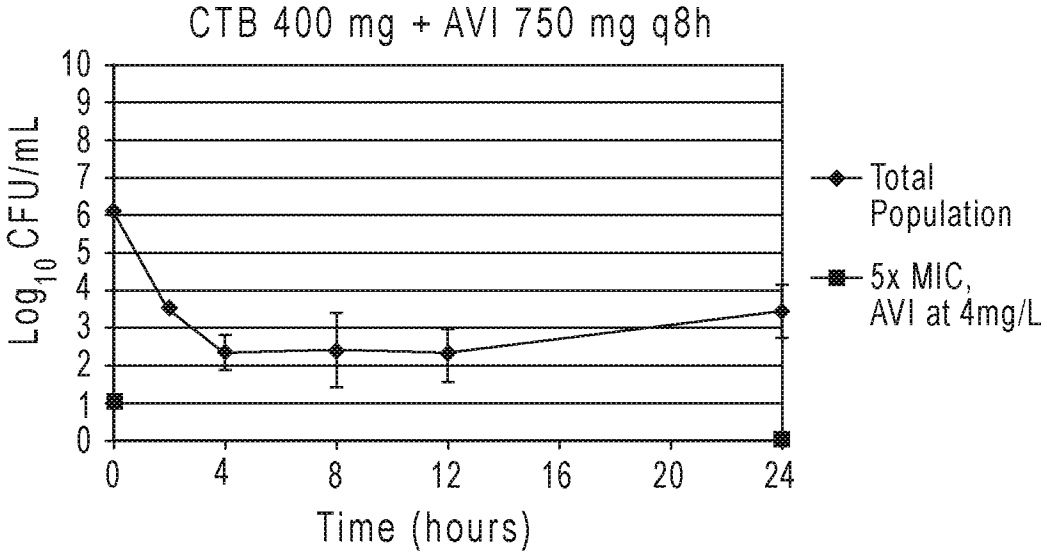


FIG. 11I



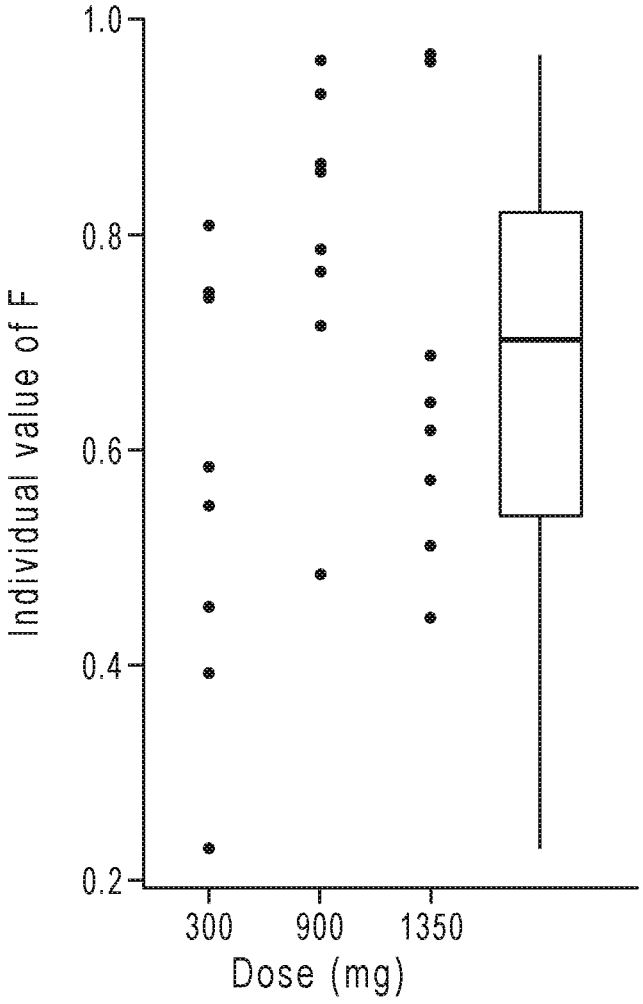


FIG. 12