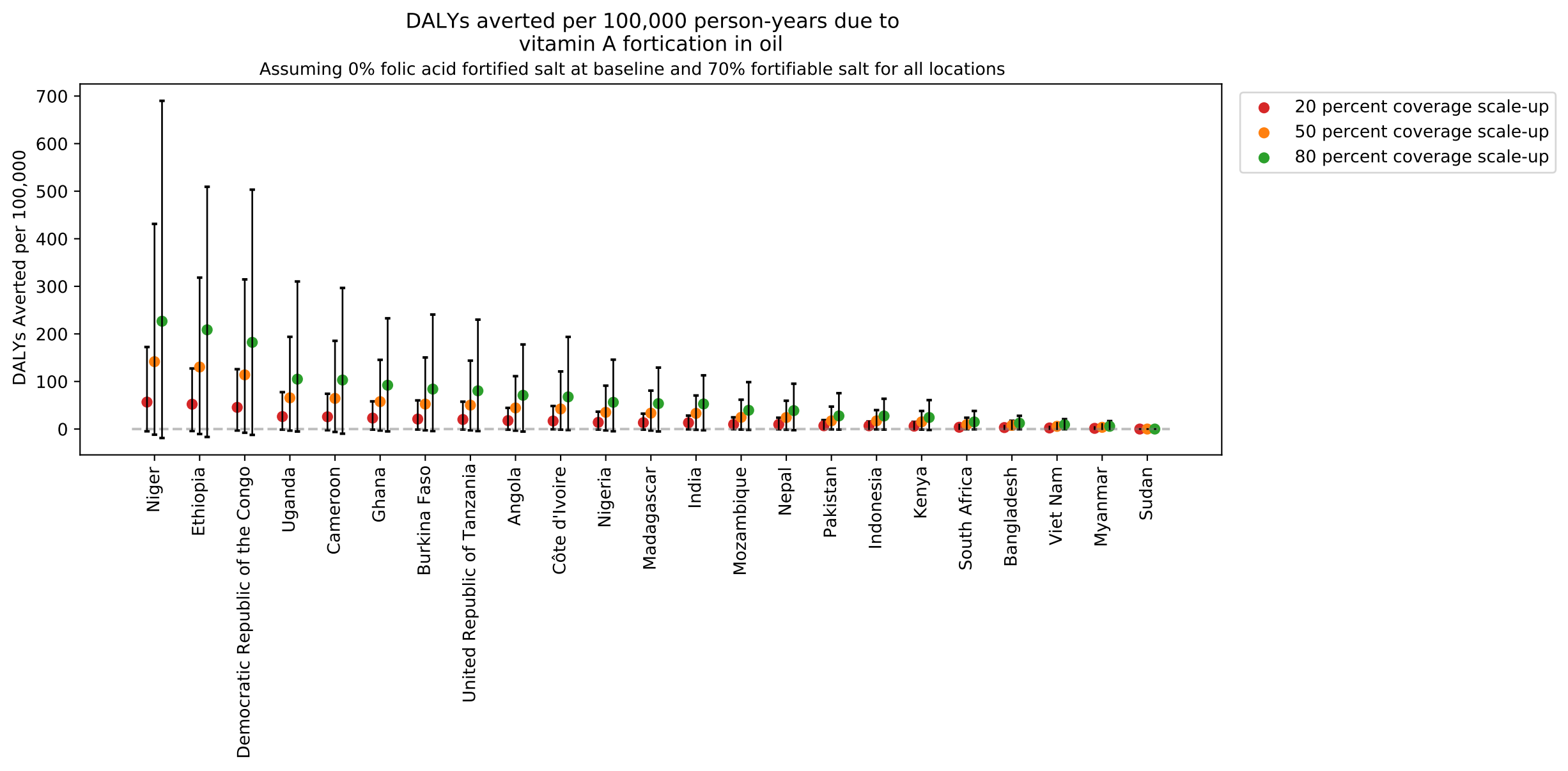
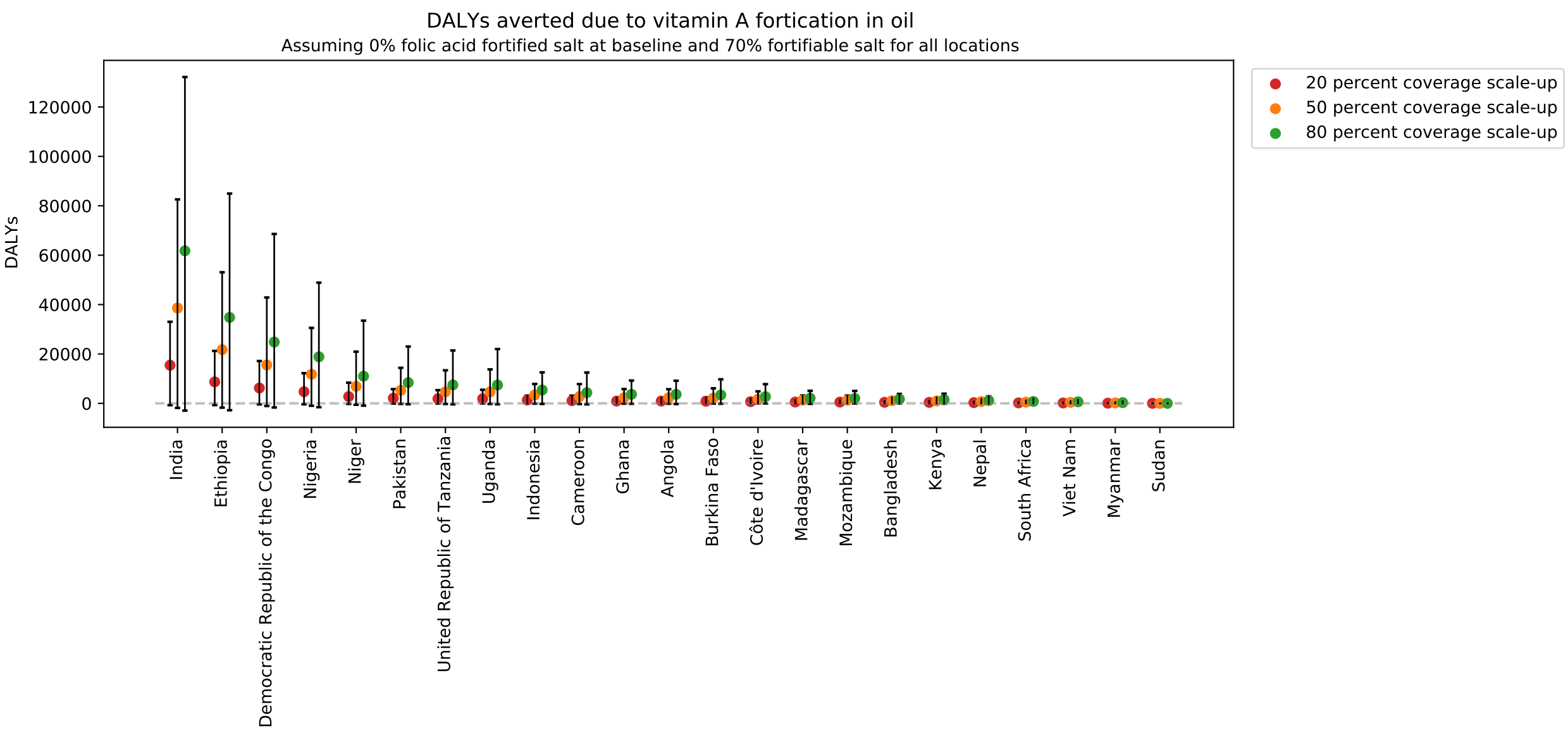
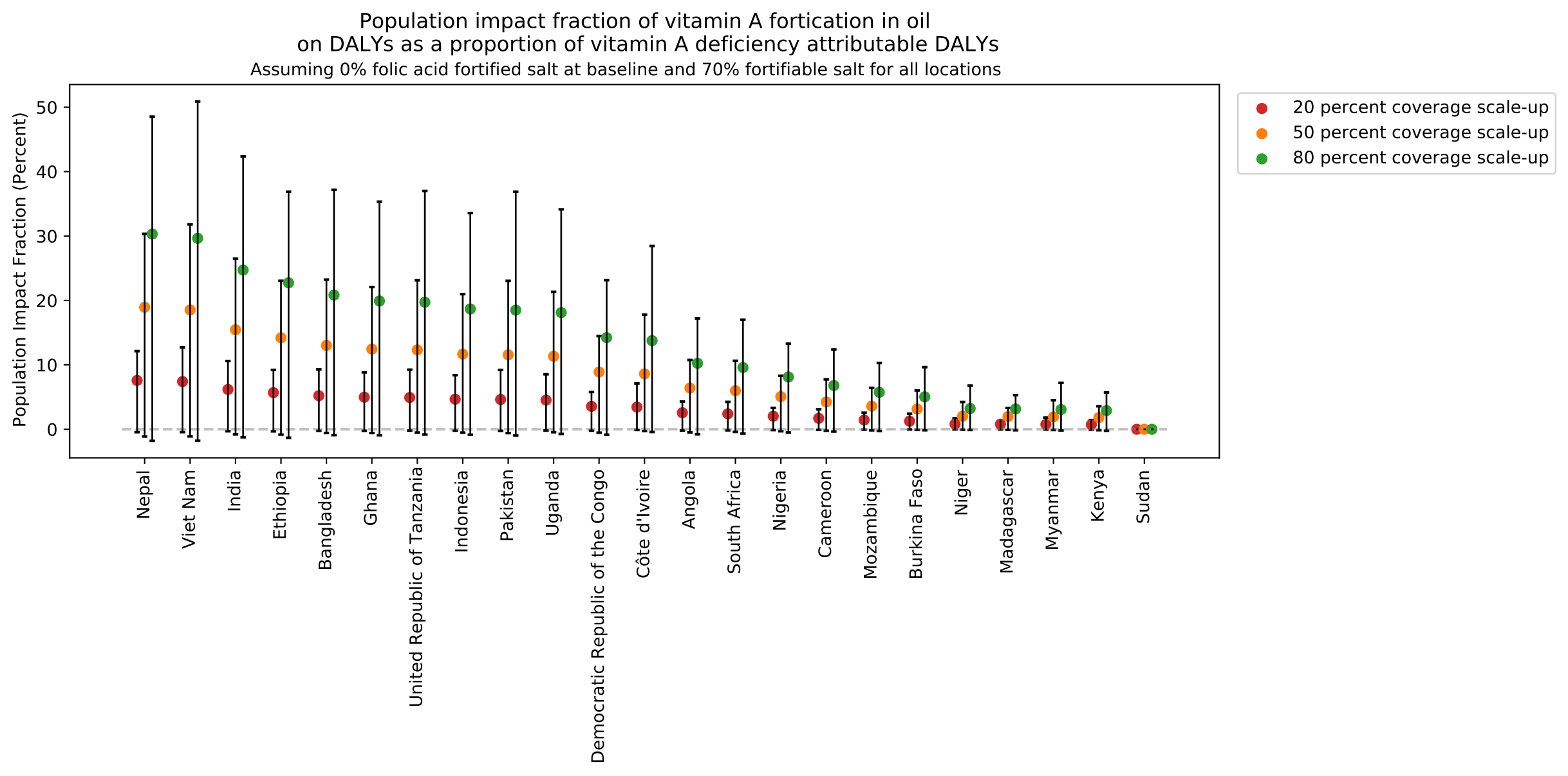
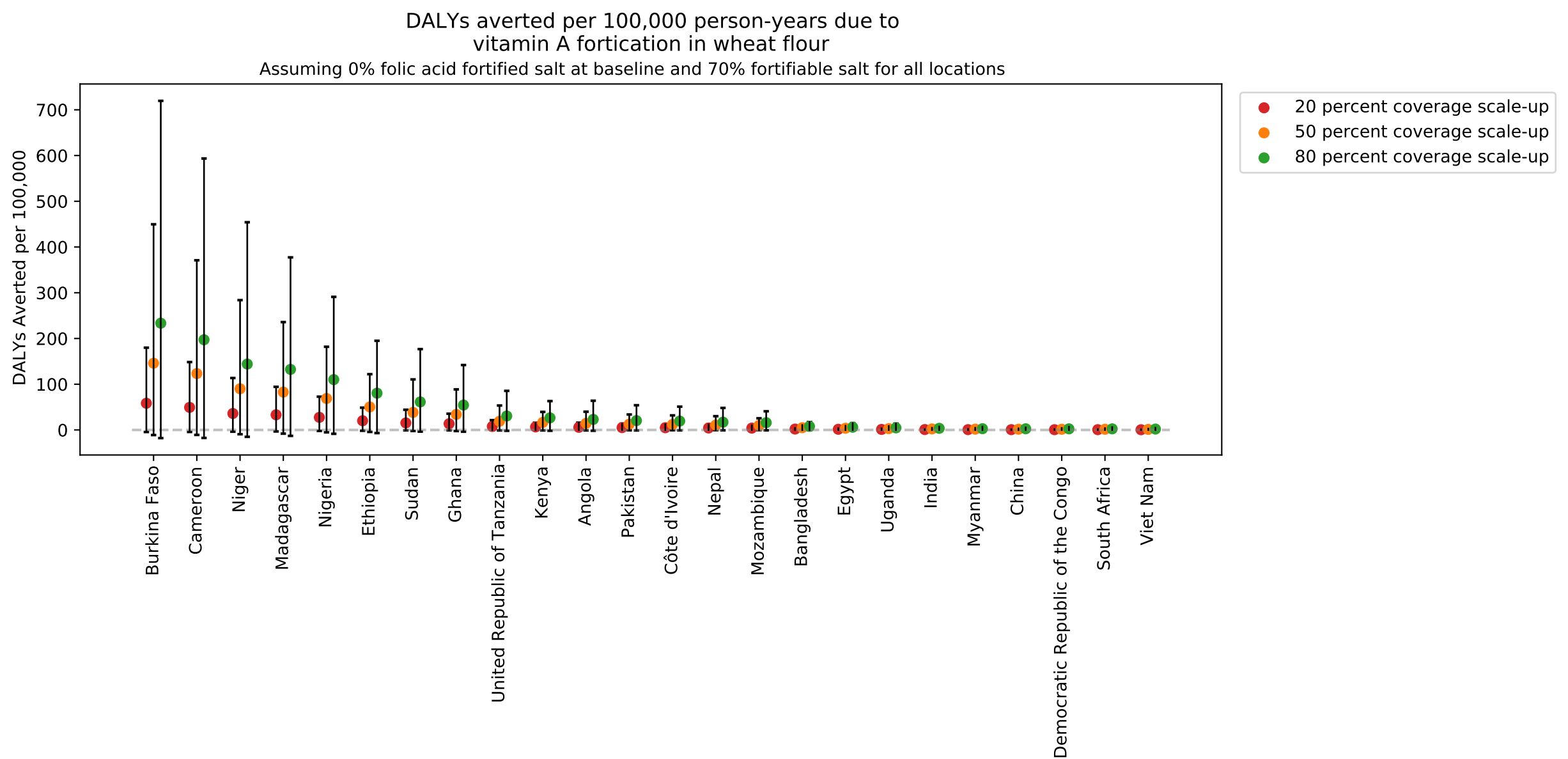
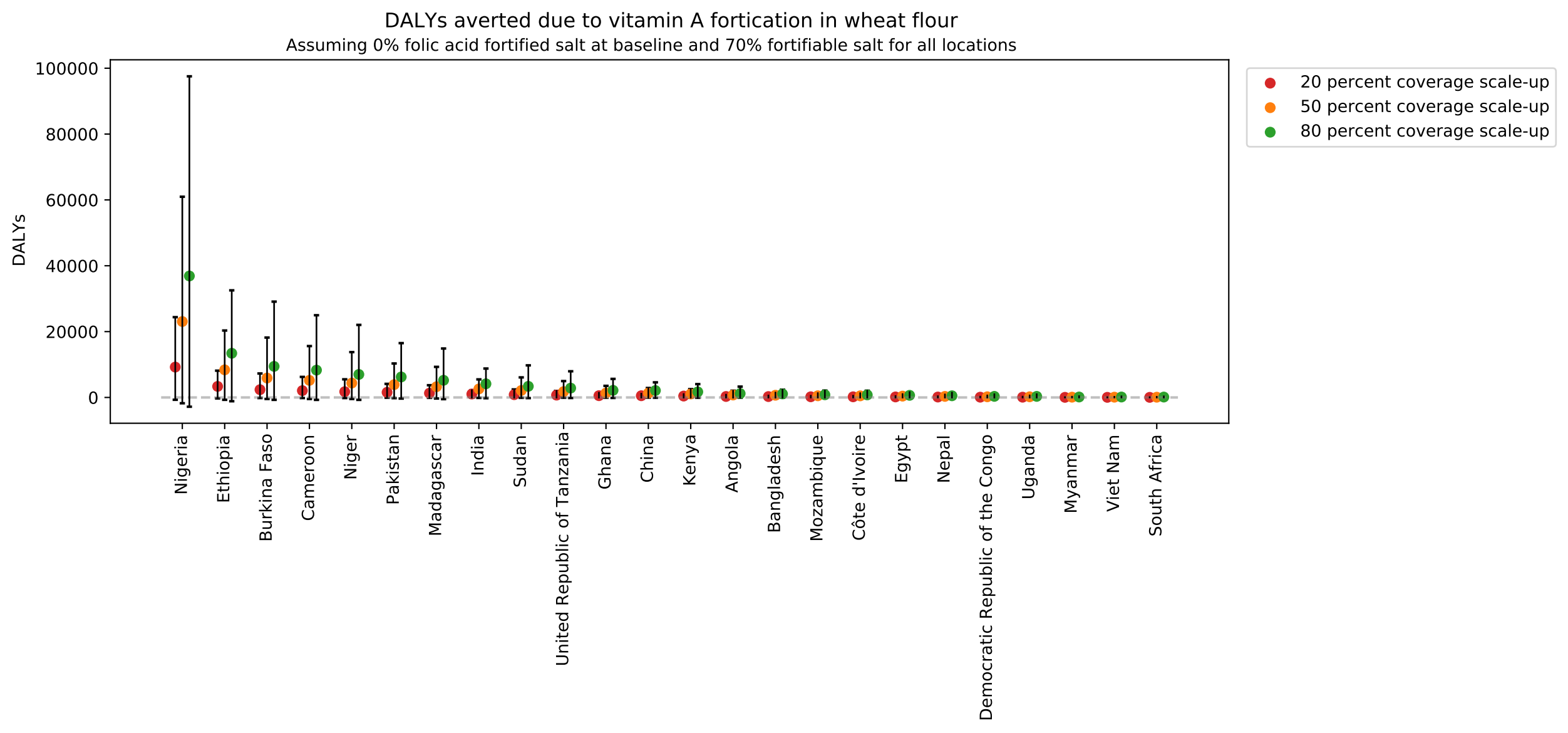
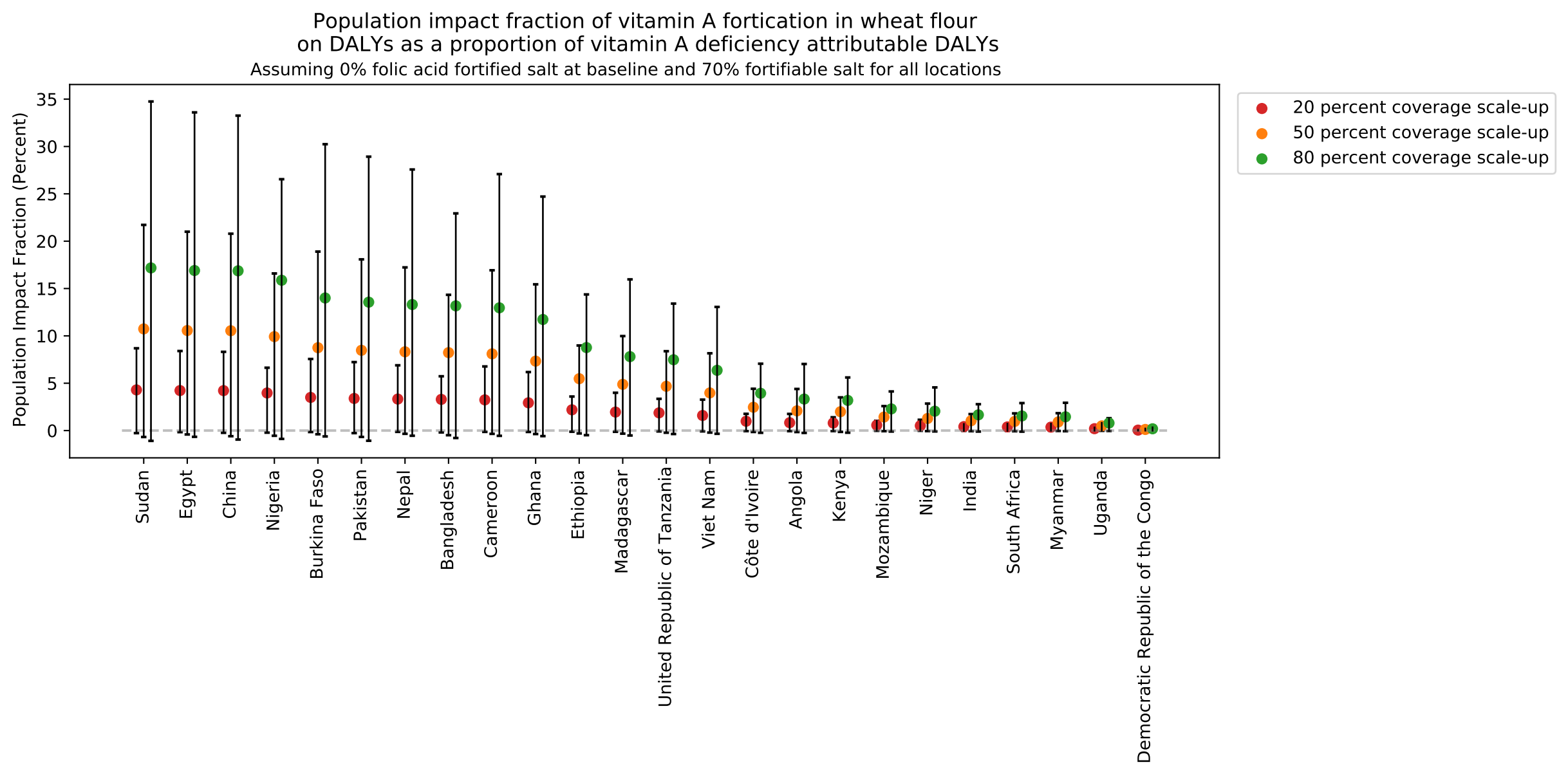

DALYs averted per 100,000 person-years due to
vitamin A fortication in oil
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
700
600
500
400
300
200
100
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Niger
Ethiopia
Democratic Republic of the Congo
Uganda
Cameroon
Ghana
Burkina Faso
United Republic of Tanzania
Angola
Côte d'Ivoire
Nigeria
Madagascar
India
Mozambique
Nepal
Pakistan
Indonesia
Kenya
South Africa
Bangladesh
Viet Nam
Myanmar
Sudan

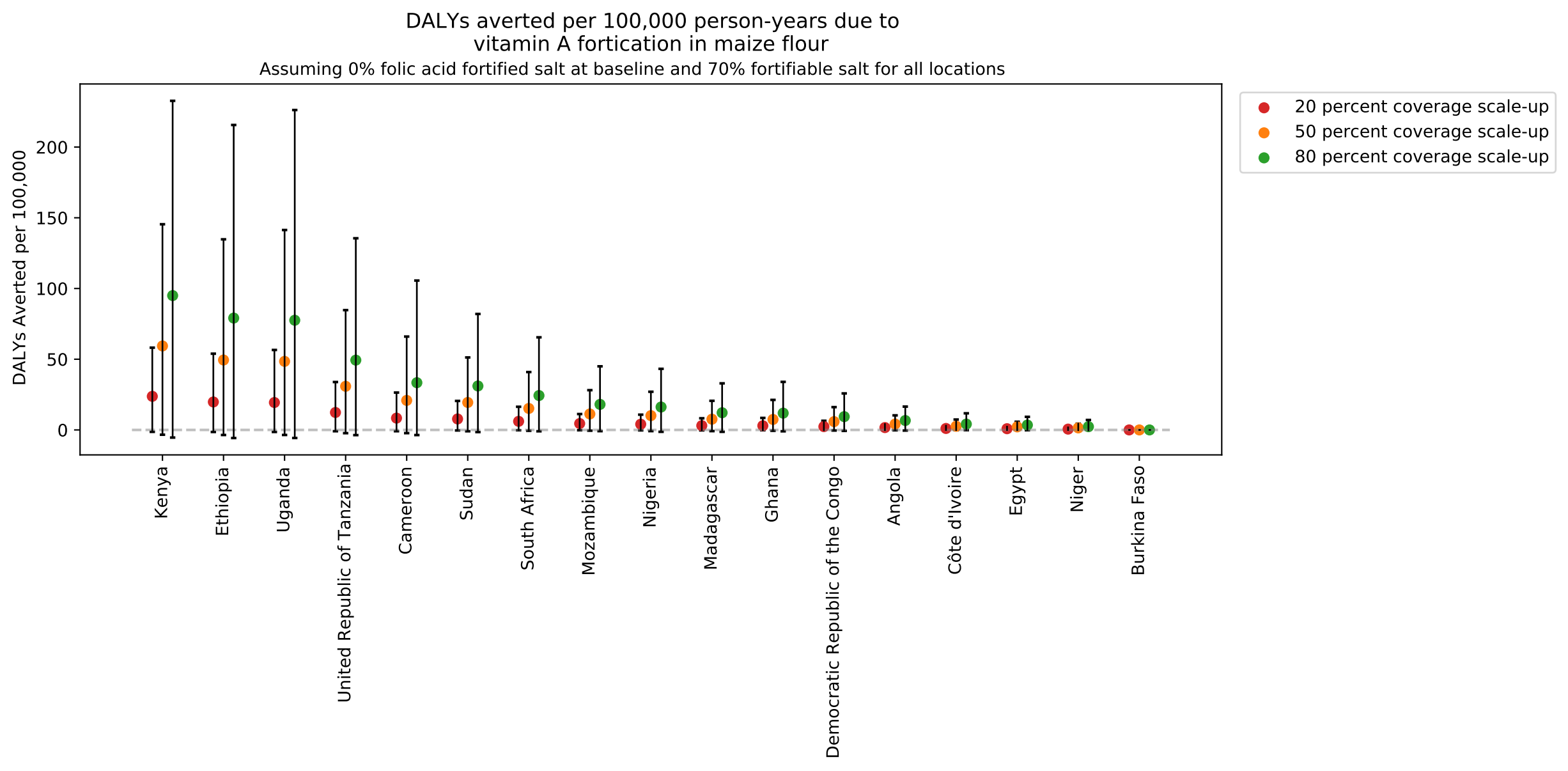

DALYs averted due to vitamin A fortication in oil
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
120000
100000
80000
60000
40000
20000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
India
Ethiopia
Democratic Republic of the Congo
Nigeria
Niger
Pakistan
United Republic of Tanzania
Uganda
Indonesia
Cameroon
Ghana
Angola
Burkina Faso
Côte d'Ivoire
Madagascar
Mozambique
Bangladesh
Kenya
Nepal
South Africa
Viet Nam
Myanmar
Sudan

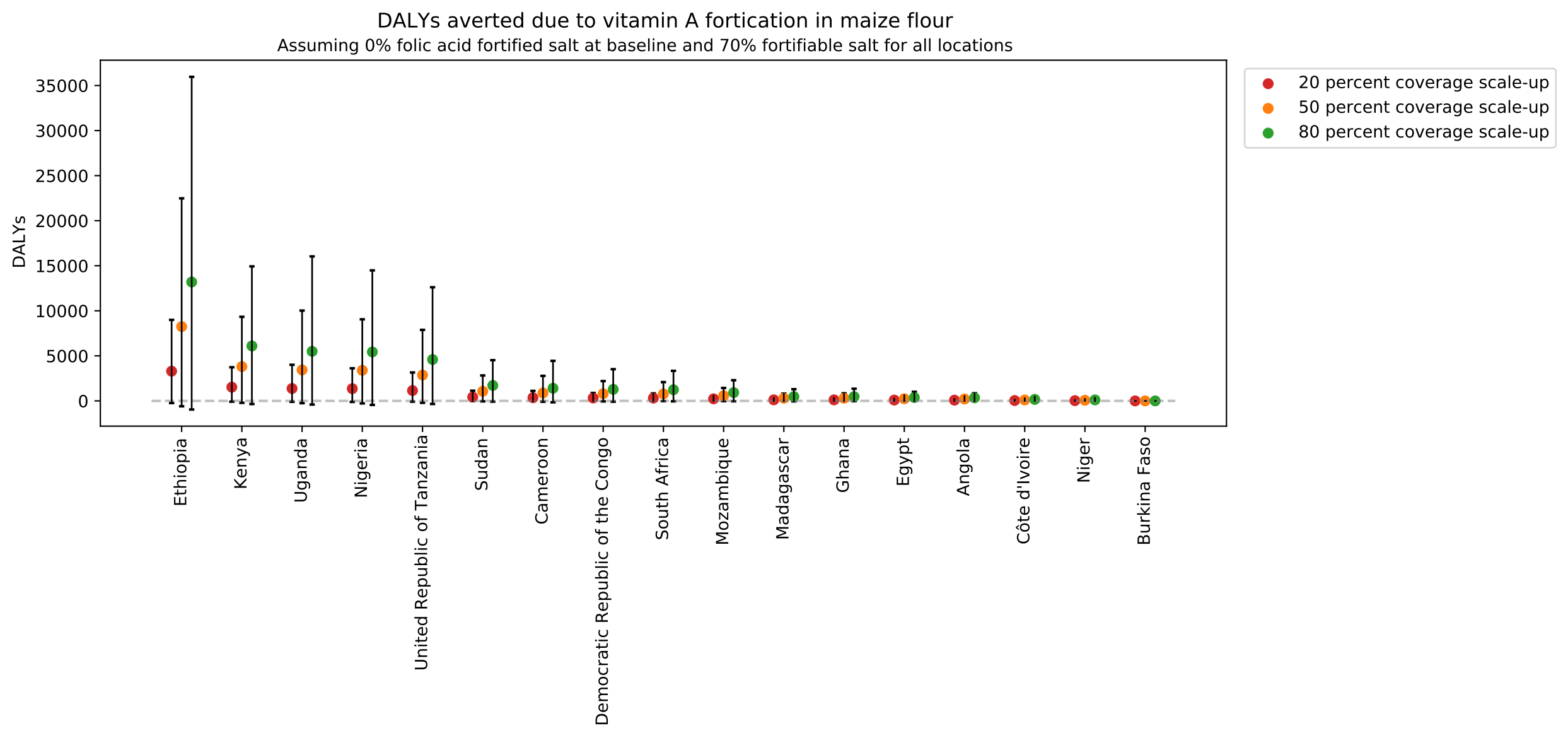

Population impact fraction of vitamin A fortication in oil
on DALYs as a proportion of vitamin A deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
0
10
20
30
40
50
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Nepal
Viet Nam
India
Ethiopia
Bangladesh
Ghana
United Republic of Tanzania
Indonesia
Pakistan
Uganda
Democratic Republic of the Congo
Côte d'Ivoire
Angola
South Africa
Nigeria
Cameroon
Mozambique
Burkina Faso
Niger
Madagascar
Myanmar
Kenya
Sudan

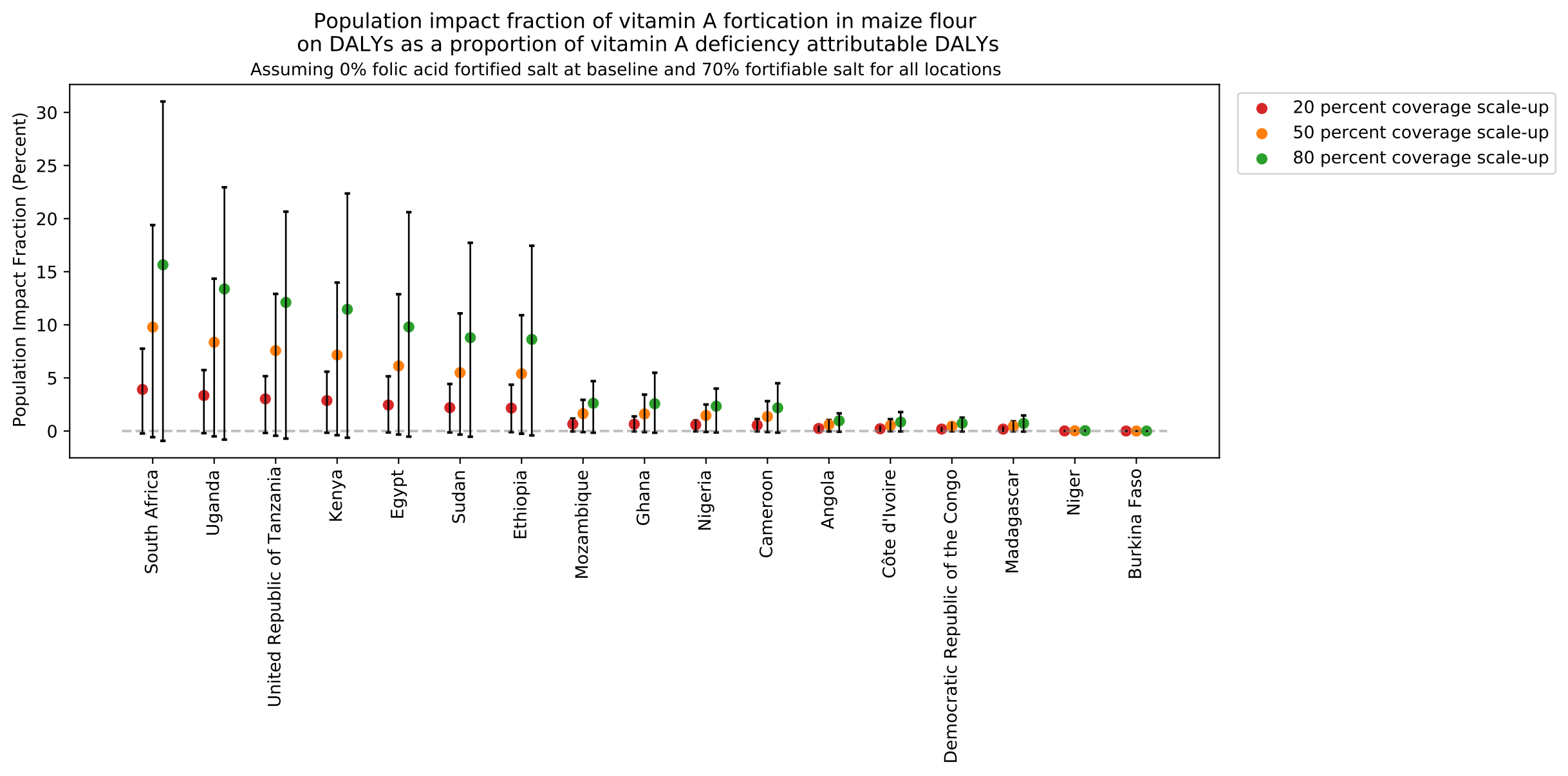

DALYs averted per 100,000 person-years due to
vitamin A fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
700
600
500
400
300
200
100
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Burkina Faso
Cameroon
Niger
Madagascar
Nigeria
Ethiopia
Sudan
Ghana
United Republic of Tanzania
Kenya
Angola
Pakistan
Côte d'Ivoire
Nepal
Mozambique
Bangladesh
Egypt
Uganda
India
Myanmar
China
Democratic Republic of the Congo
South Africa
Viet Nam

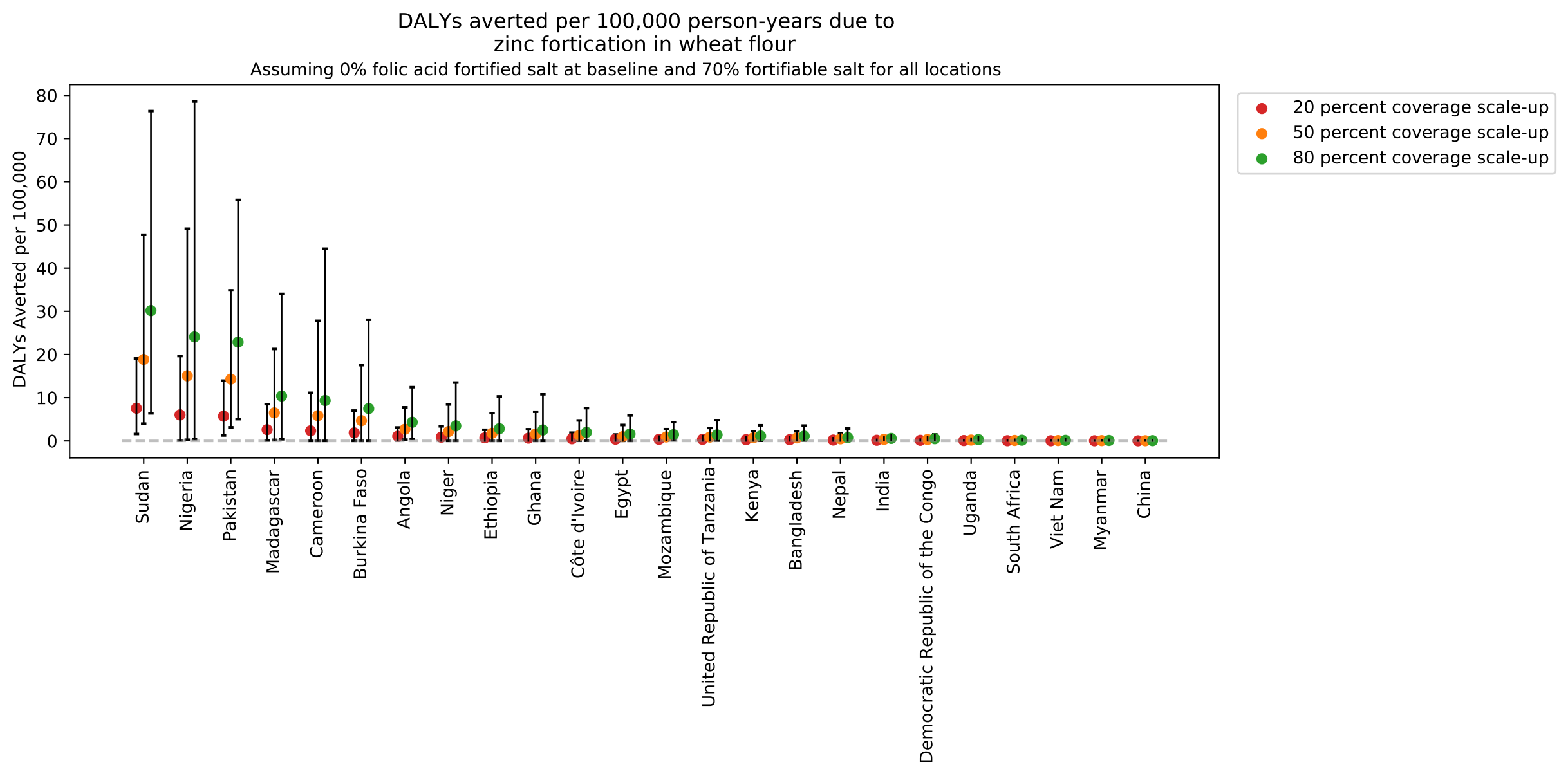

DALYs averted due to vitamin A fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
100000
80000
60000
40000
20000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Nigeria
Ethiopia
Burkina Faso
Cameroon
Niger
Pakistan
Madagascar
India
Sudan
United Republic of Tanzania
Ghana
China
Kenya
Angola
Bangladesh
Mozambique
Côte d'Ivoire
Egypt
Nepal
Democratic Republic of the Congo
Uganda
Myanmar
Viet Nam
South Africa

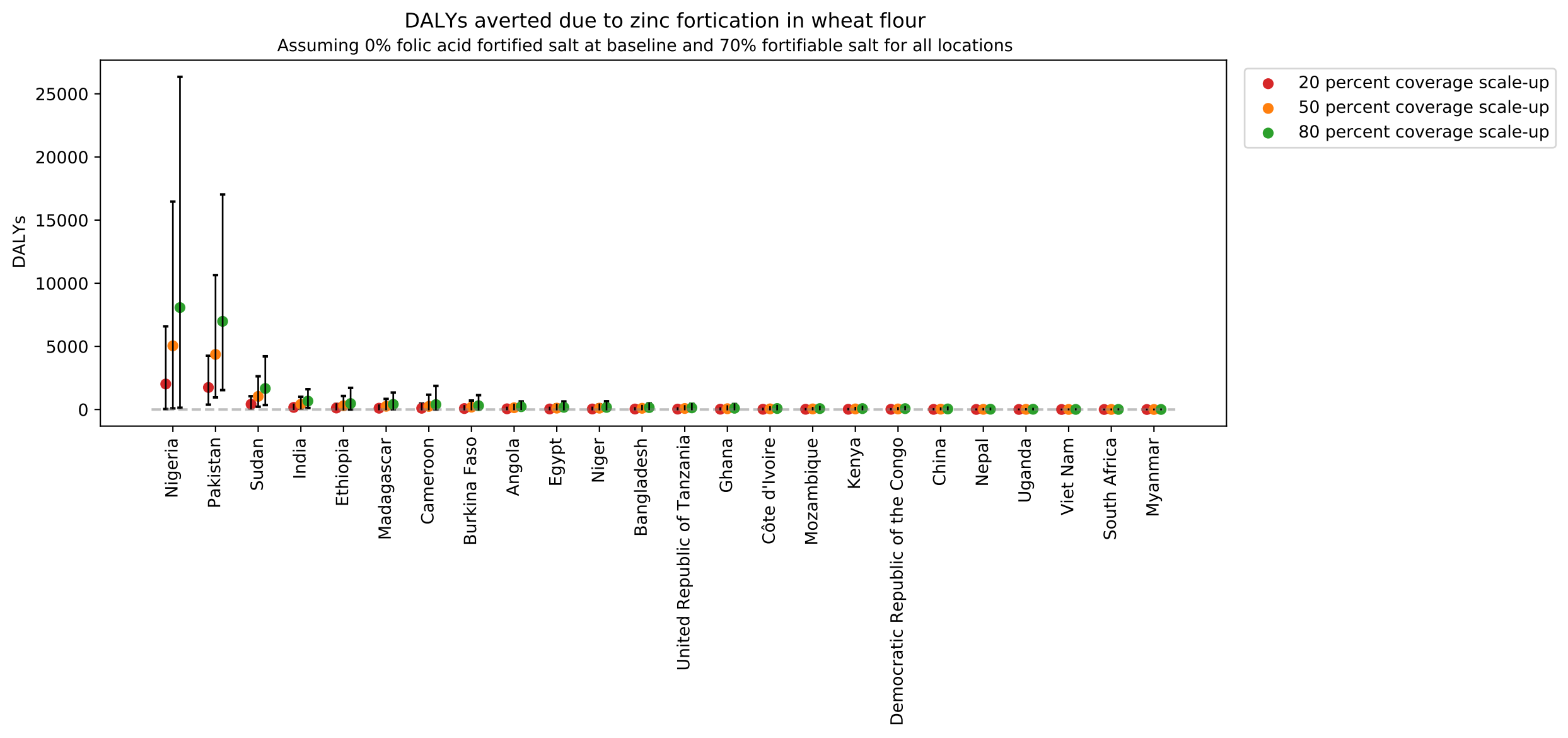

Population impact fraction of vitamin A fortication in wheat flour
on DALYs as a proportion of vitamin A deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
35
30
25
20
15
10
5
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Sudan
Egypt
China
Nigeria
Burkina Faso
Pakistan
Nepal
Bangladesh
Cameroon
Ghana
Ethiopia
Madagascar
United Republic of Tanzania
Viet Nam
Côte d'Ivoire
Angola
Kenya
Mozambique
Niger
India
South Africa
Myanmar
Uganda
Democratic Republic of the Congo

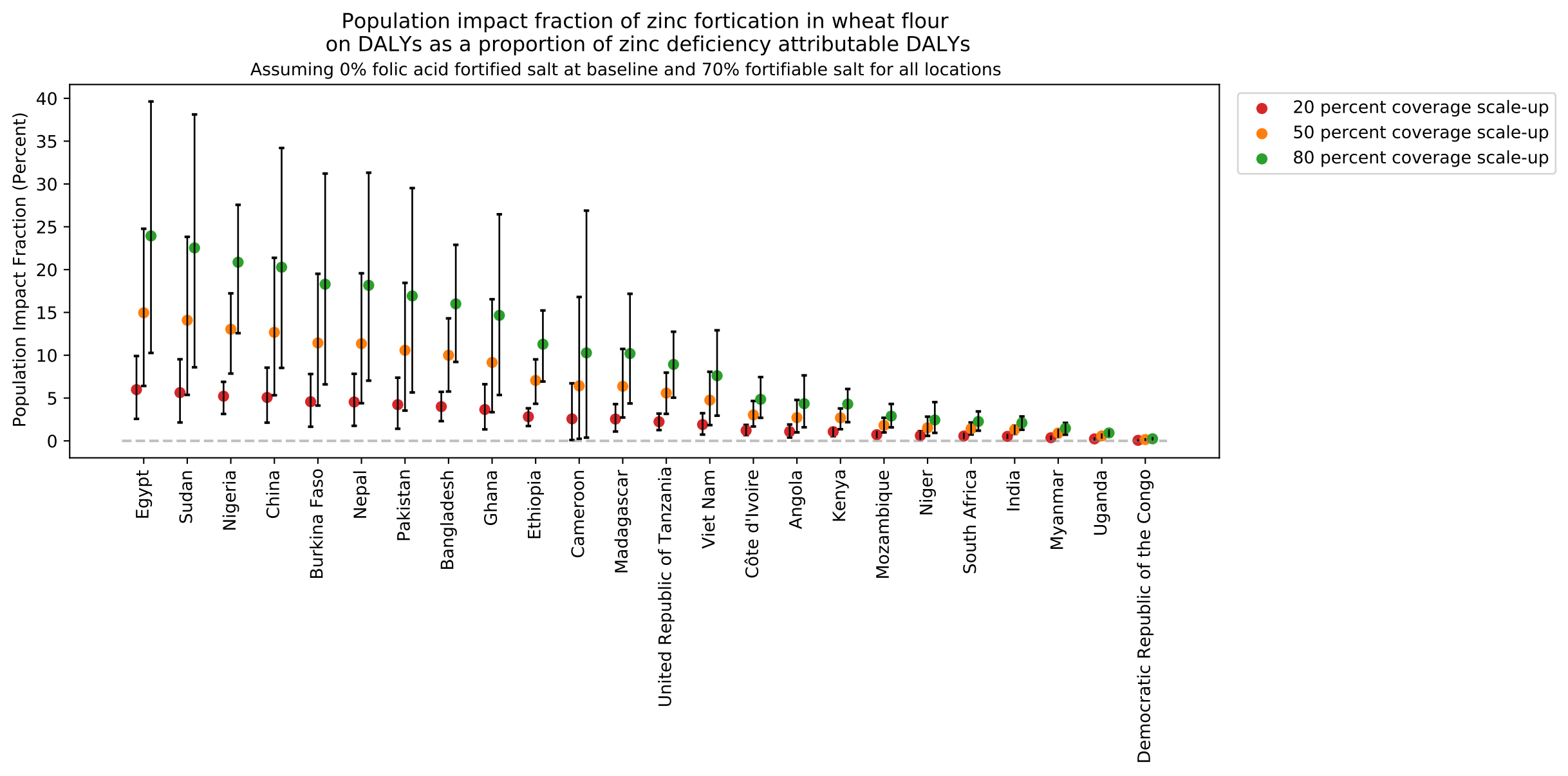

DALYs averted per 100,000 person-years due to
vitamin A fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
200
150
100
50
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Kenya
Ethiopia
Uganda
United Republic of Tanzania
Cameroon
Sudan
South Africa
Mozambique
Nigeria
Madagascar
Ghana
Democratic Republic of the Congo
Angola
Côte d'Ivoire
Egypt
Niger
Burkina Faso

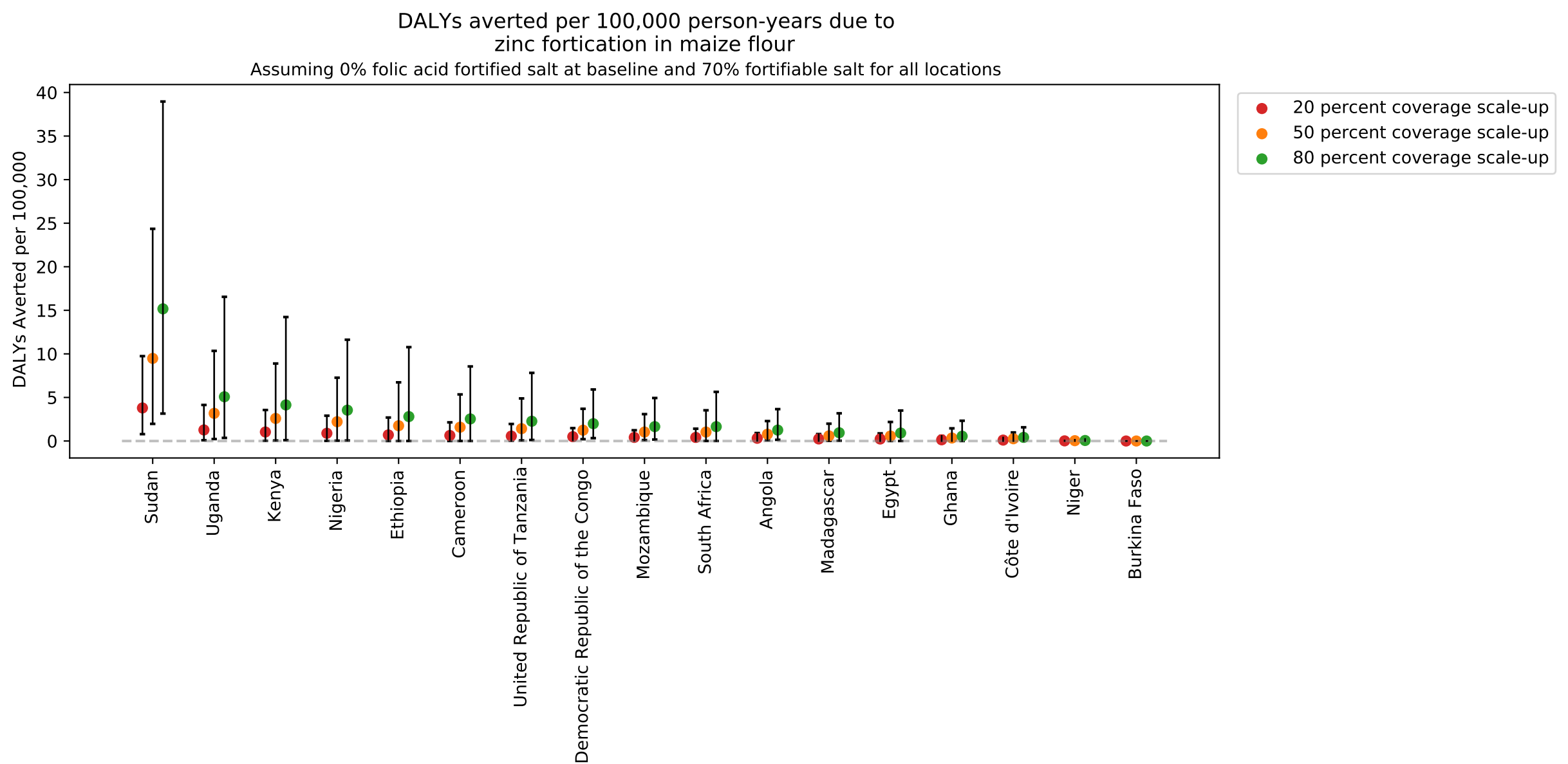

DALYs averted due to vitamin A fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
35000
30000
25000
20000
15000
10000
5000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Ethiopia
Kenya
Uganda
Nigeria
United Republic of Tanzania
Sudan
Cameroon
Democratic Republic of the Congo
South Africa
Mozambique
Madagascar
Ghana
Egypt
Angola
Côte d'Ivoire
Niger
Burkina Faso

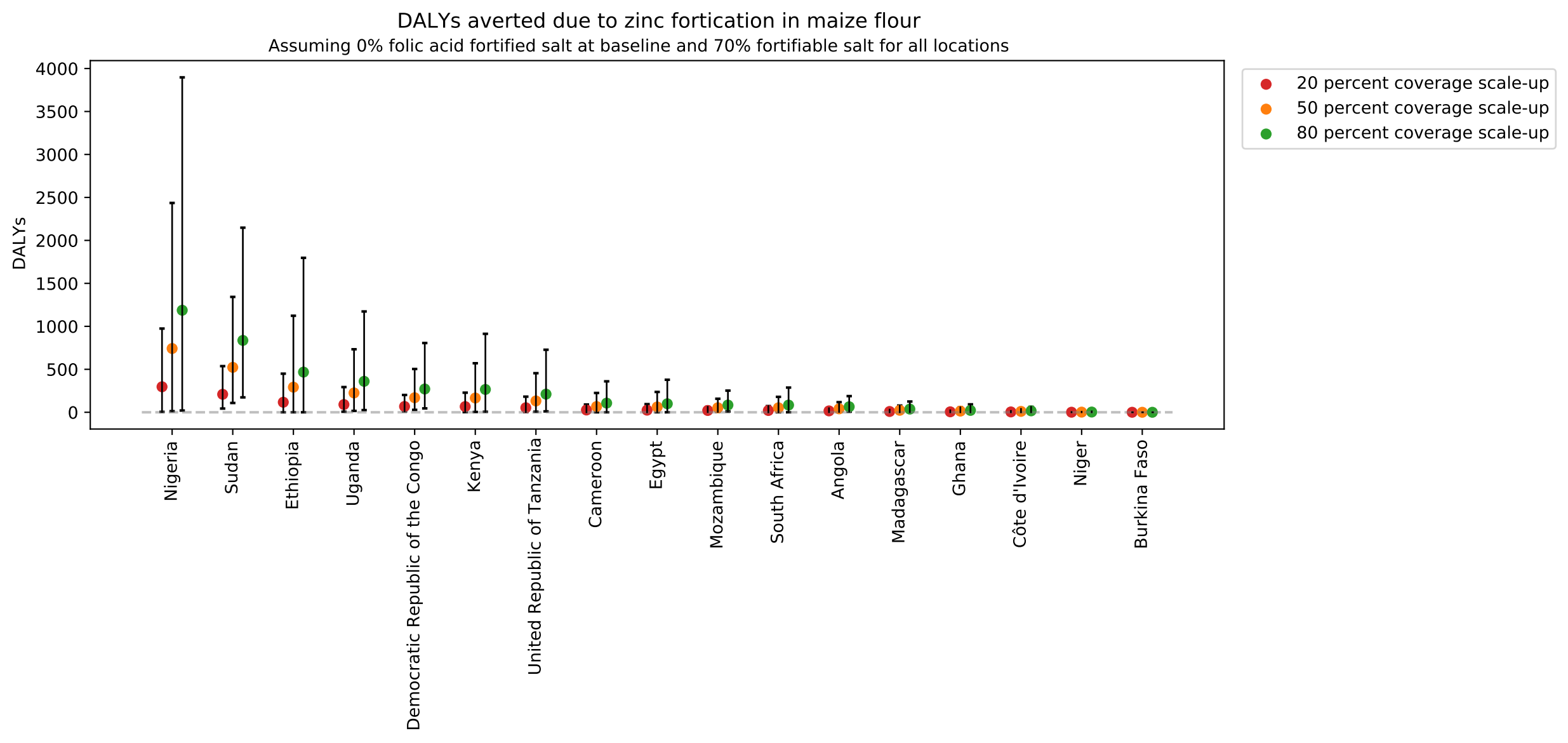

Population impact fraction of vitamin A fortication in maize flour
on DALYs as a proportion of vitamin A deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
30
25
20
15
10
5
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
South Africa
Uganda
United Republic of Tanzania
Kenya
Egypt
Sudan
Ethiopia
Mozambique
Ghana
Nigeria
Cameroon
Angola
Côte d'Ivoire
Democratic Republic of the Congo
Madagascar
Niger
Burkina Faso

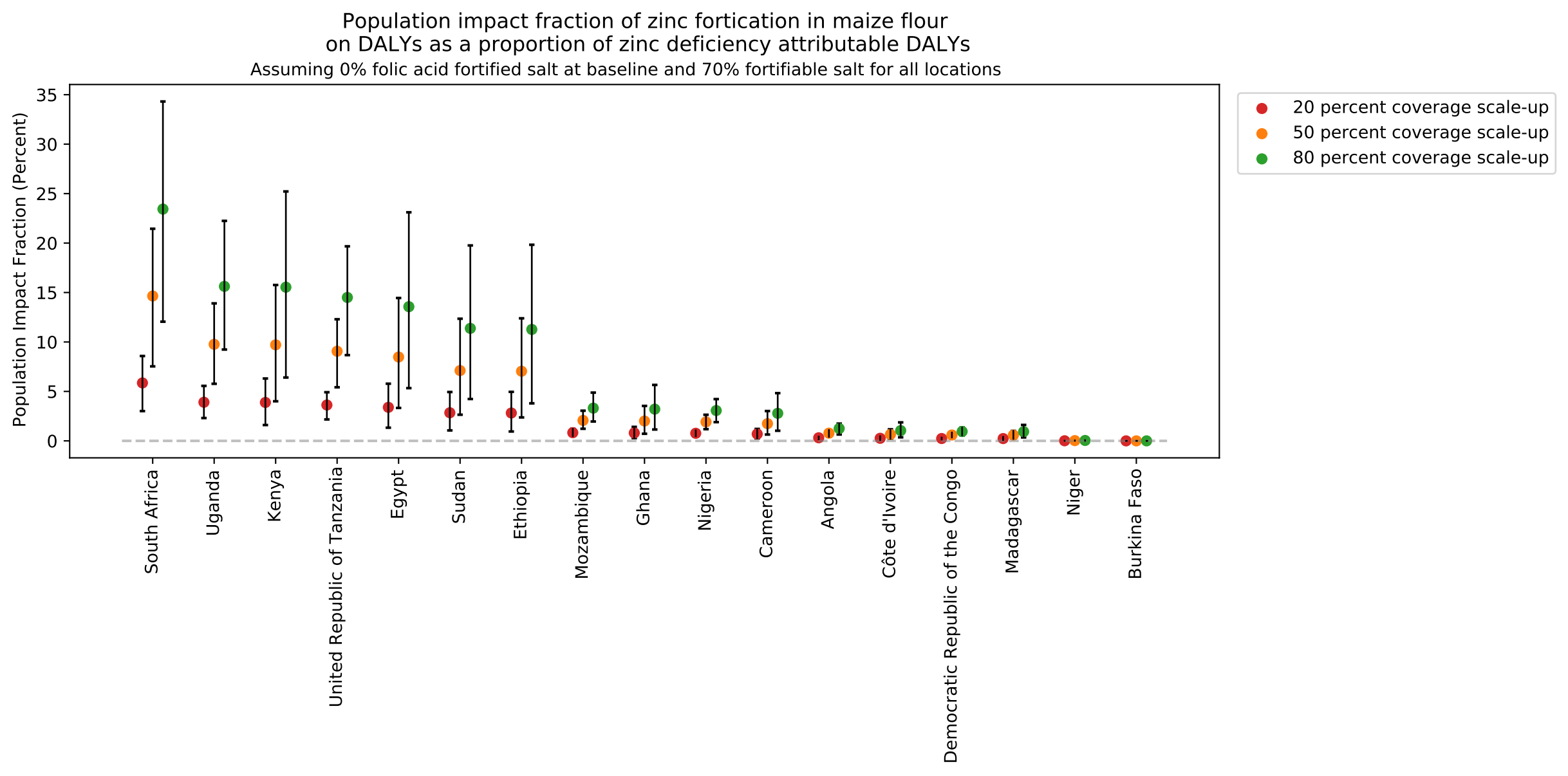

DALYs averted per 100,000 person-years due to
zinc fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
0
10
20
30
40
50
60
70
80
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Sudan
Nigeria
Pakistan
Madagascar
Cameroon
Burkina Faso
Angola
Niger
Ethiopia
Ghana
Côte d'Ivoire
Egypt
Mozambique
United Republic of Tanzania
Kenya
Bangladesh
Nepal
India
Democratic Republic of the Congo
Uganda
South Africa
Viet Nam
Myanmar
China

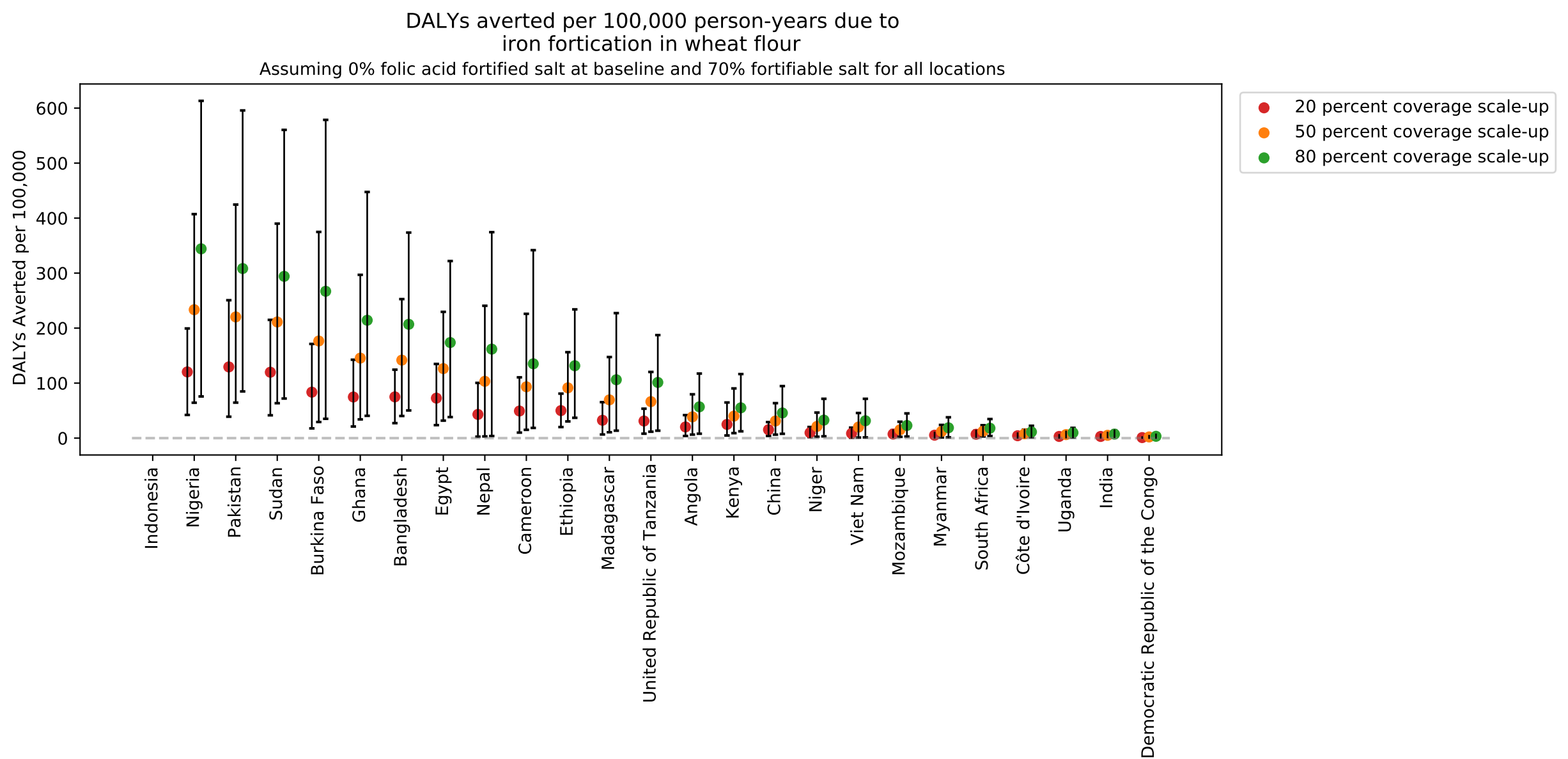

DALYs averted due to zinc fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
25000
20000
15000
10000
5000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Nigeria
Pakistan
Sudan
India
Ethiopia
Madagascar
Cameroon
Burkina Faso
Angola
Egypt
Niger
Bangladesh
United Republic of Tanzania
Ghana
Côte d'Ivoire
Mozambique
Kenya
Democratic Republic of the Congo
China
Nepal
Uganda
Viet Nam
South Africa
Myanmar

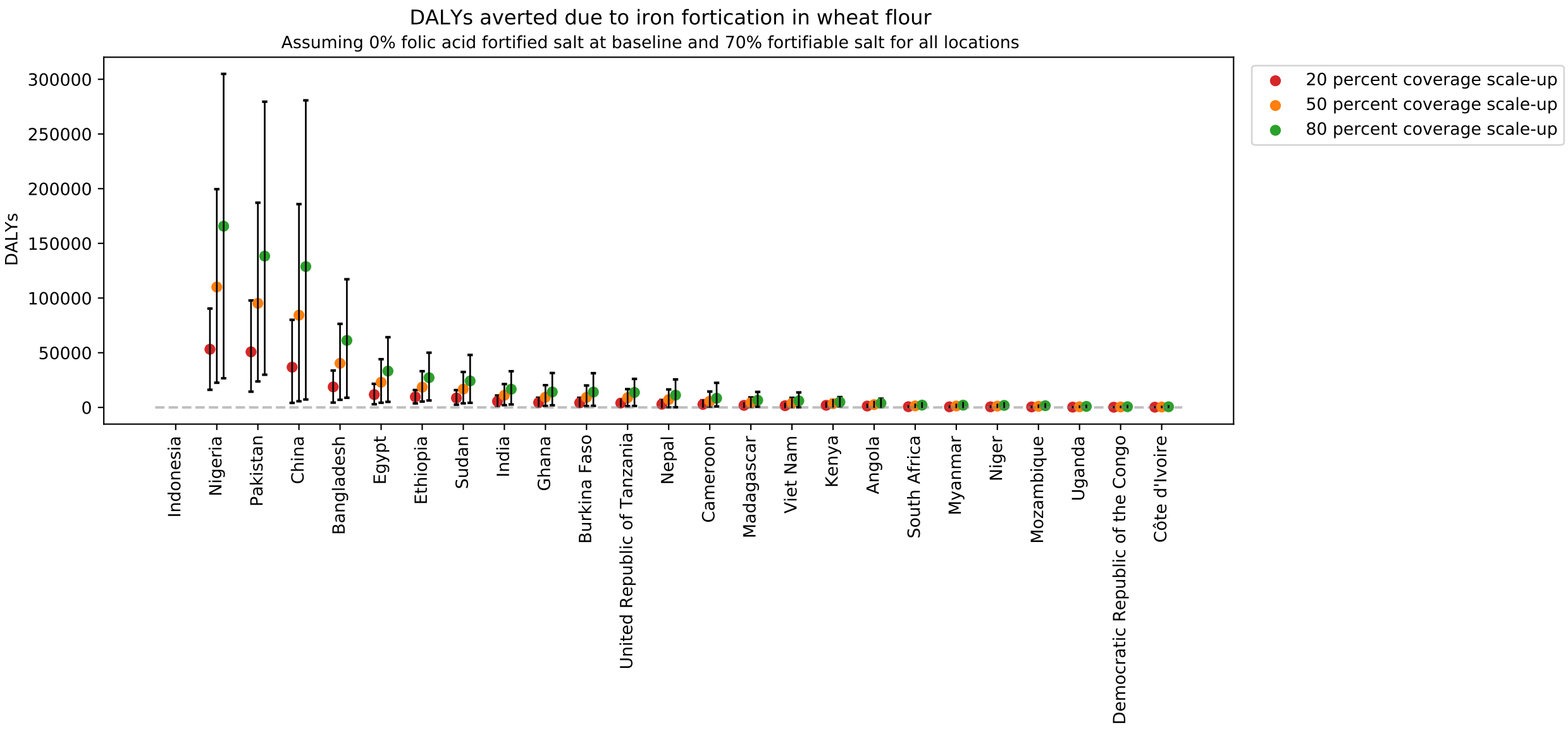

Population impact fraction of zinc fortication in wheat flour
on DALYs as a proportion of zinc deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
0
5
10
15
20
25
30
35
40
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Egypt
Sudan
Nigeria
China
Burkina Faso
Nepal
Pakistan
Bangladesh
Ghana
Ethiopia
Cameroon
Madagascar
United Republic of Tanzania
Viet Nam
Côte d'Ivoire
Angola
Kenya
Mozambique
Niger
South Africa
India
Myanmar
Uganda
Democratic Republic of the Congo

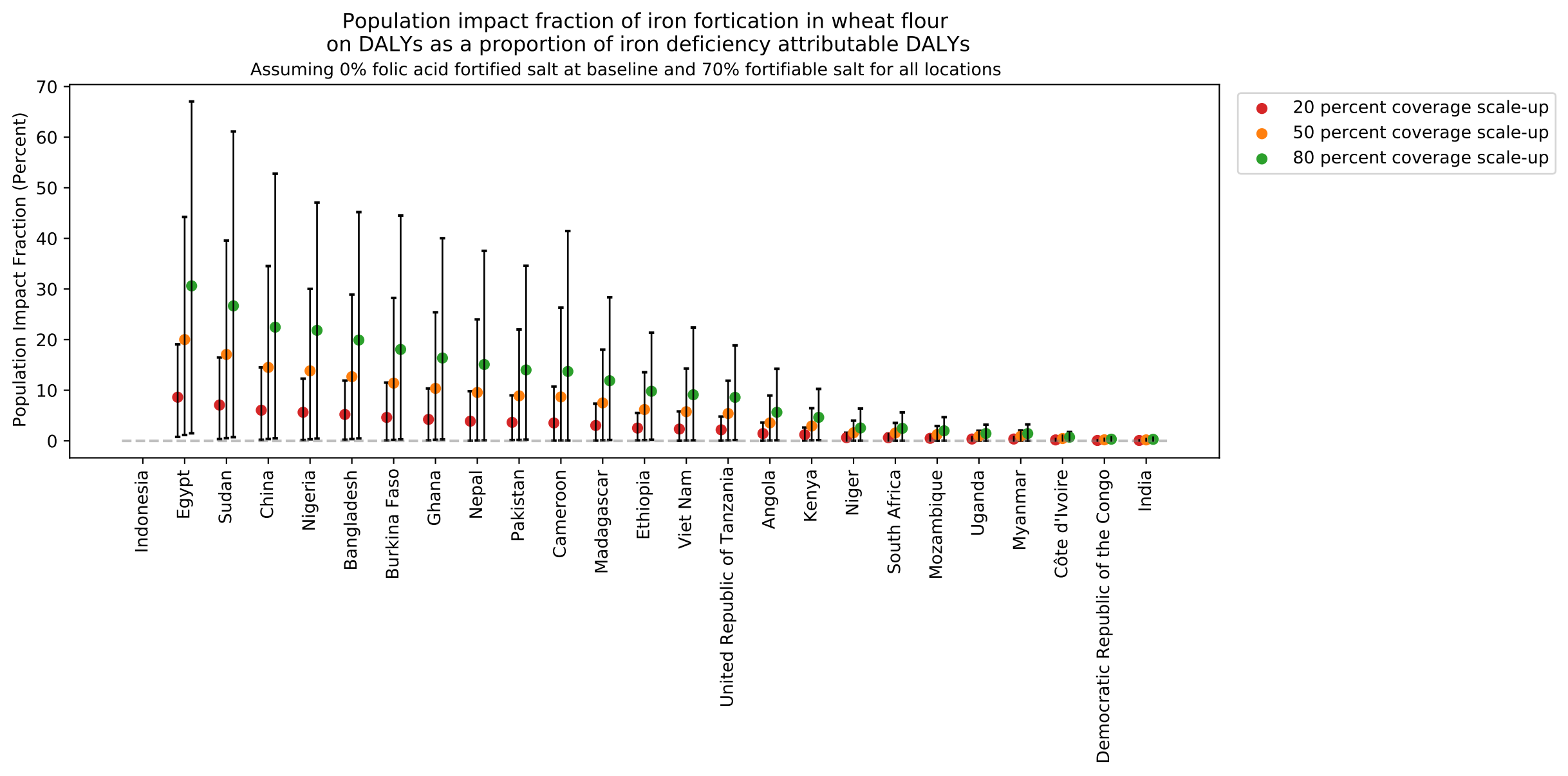

DALYs averted per 100,000 person-years due to
zinc fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
0
5
10
15
20
25
30
35
40
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Sudan
Uganda
Kenya
Nigeria
Ethiopia
Cameroon
United Republic of Tanzania
Democratic Republic of the Congo
Mozambique
South Africa
Angola
Madagascar
Egypt
Ghana
Côte d'Ivoire
Niger
Burkina Faso

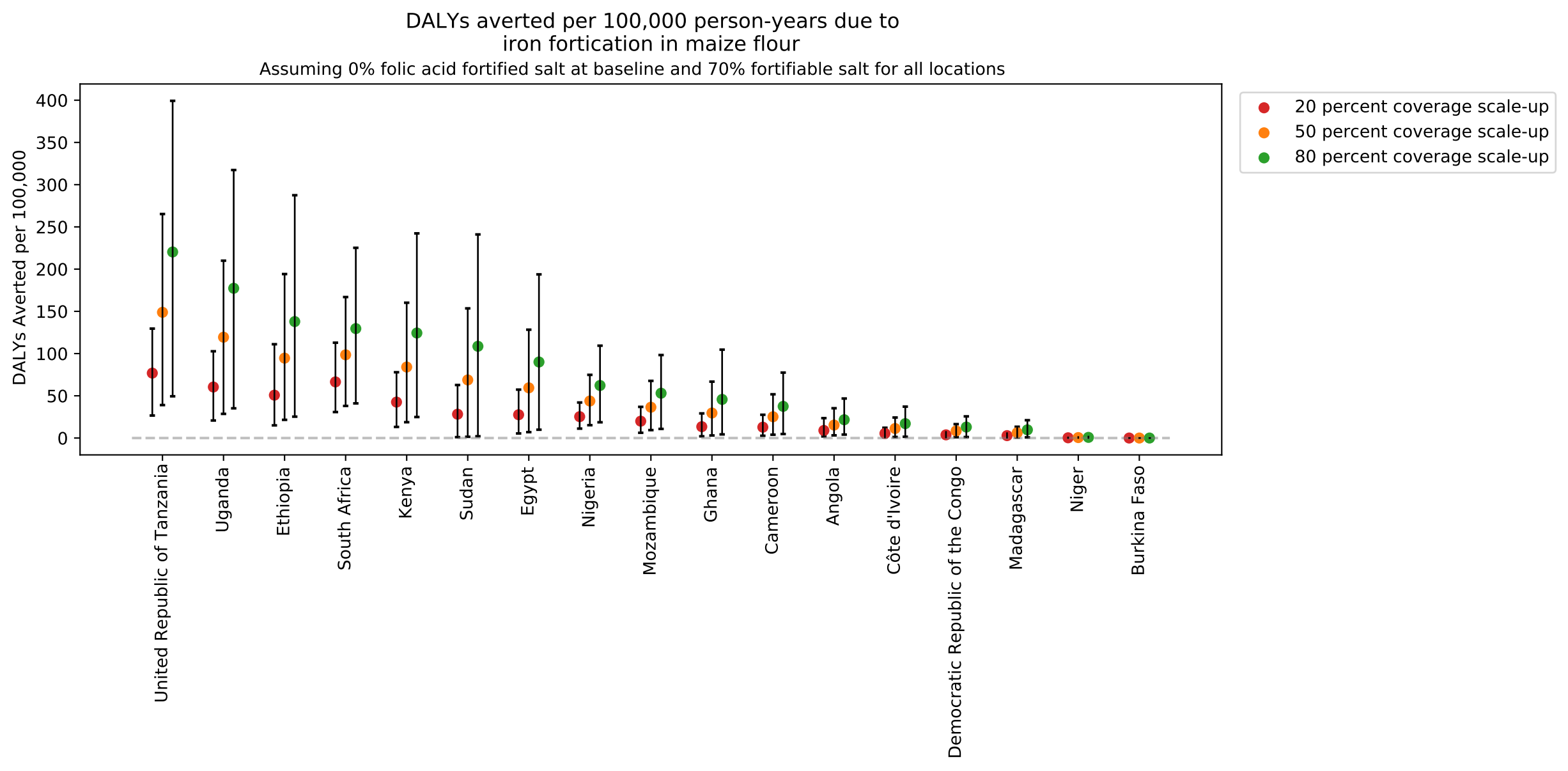

DALYs averted due to zinc fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
4000
3500
3000
2500
2000
1500
1000
500
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Nigeria
Sudan
Ethiopia
Uganda
Democratic Republic of the Congo
Kenya
United Republic of Tanzania
Cameroon
Egypt
Mozambique
South Africa
Angola
Madagascar
Ghana
Côte d'Ivoire
Niger
Burkina Faso

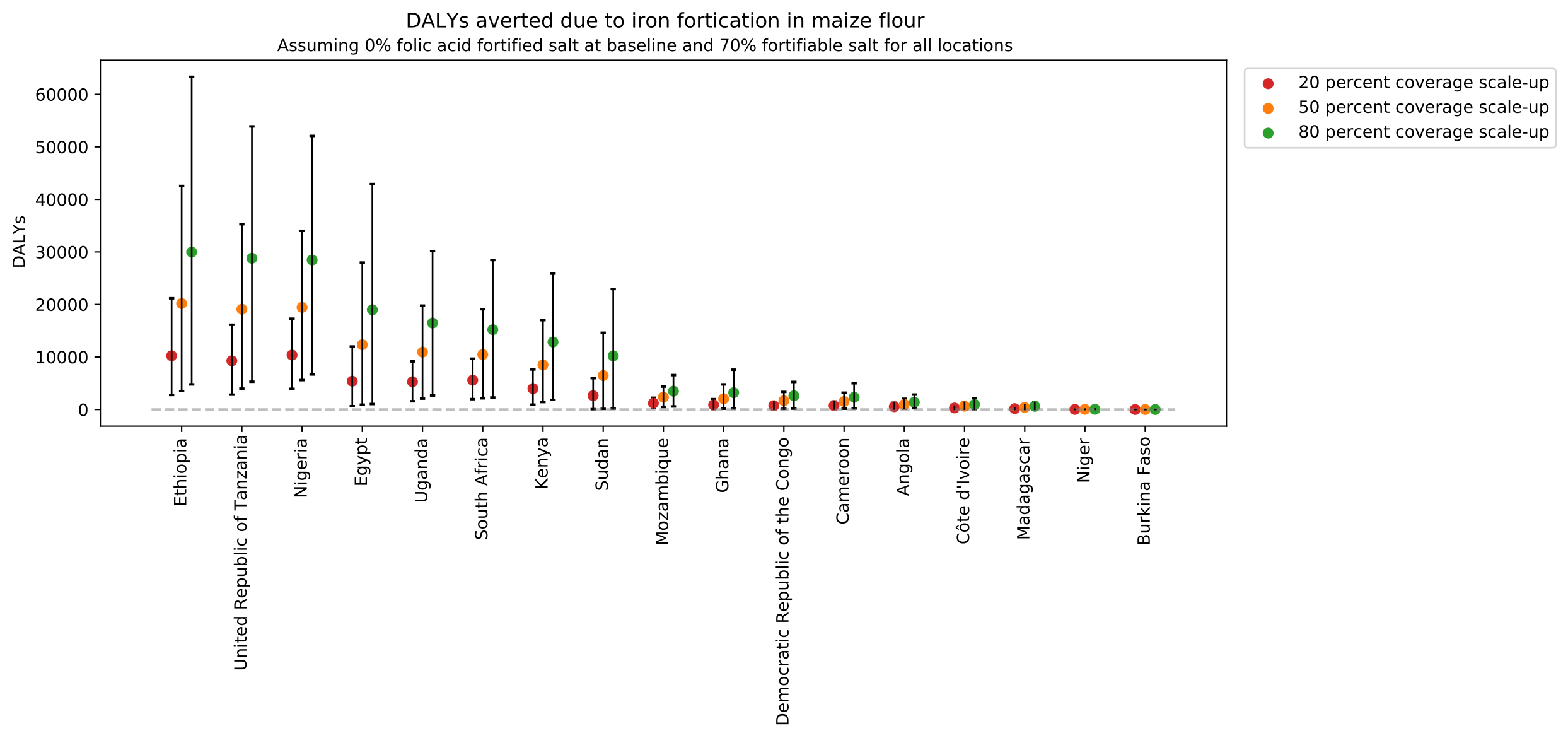

Population impact fraction of zinc fortication in maize flour
on DALYs as a proportion of zinc deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
0
5
10
15
20
25
30
35
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
South Africa
Uganda
Kenya
United Republic of Tanzania
Egypt
Sudan
Ethiopia
Mozambique
Ghana
Nigeria
Cameroon
Angola
Côte d'Ivoire
Democratic Republic of the Congo
Madagascar
Niger
Burkina Faso

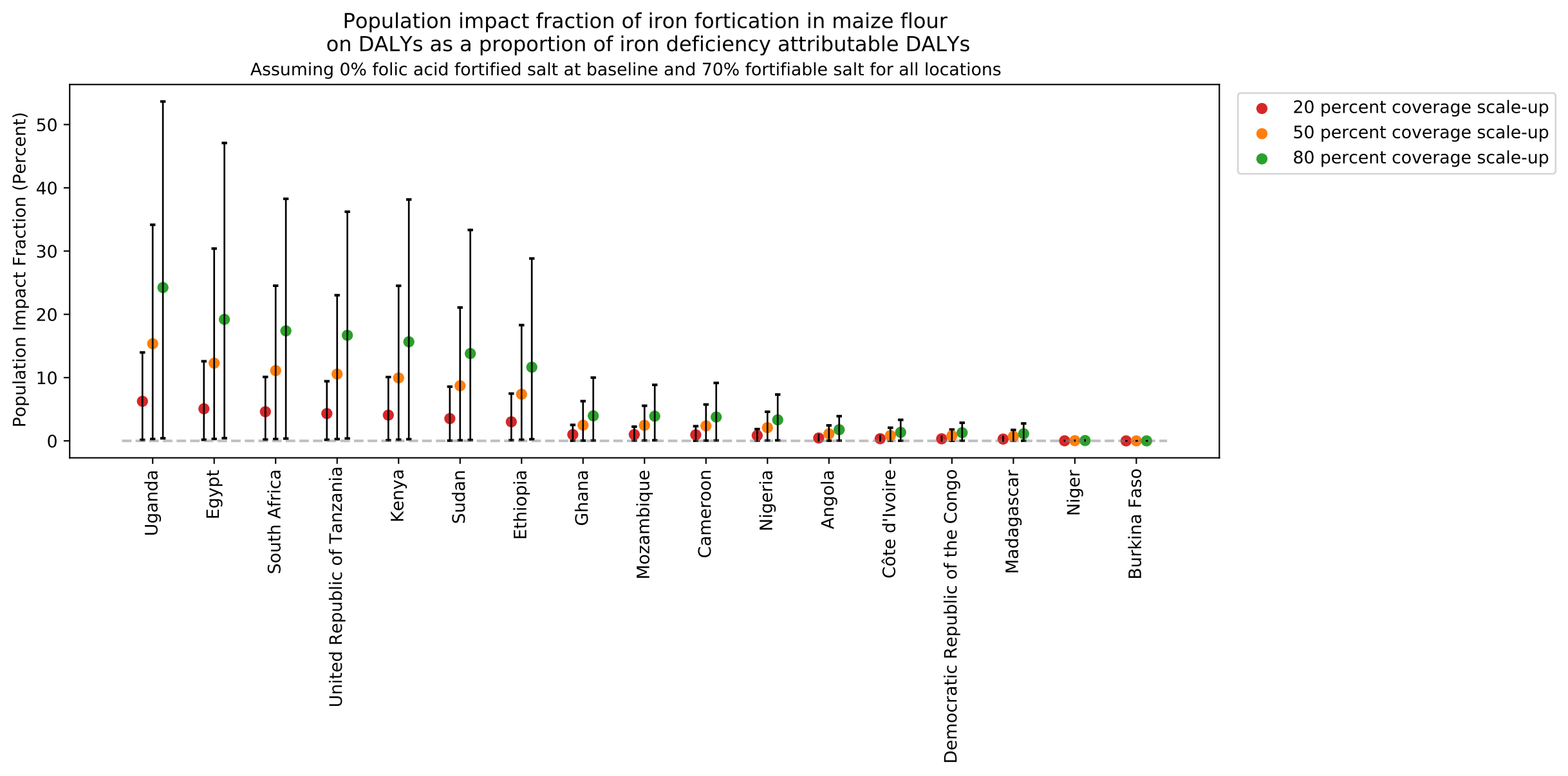

DALYs averted per 100,000 person-years due to
iron fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
0
100
200
300
400
500
600
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Indonesia
Nigeria
Pakistan
Sudan
Burkina Faso
Ghana
Bangladesh
Egypt
Nepal
Cameroon
Ethiopia
Madagascar
United Republic of Tanzania
Angola
Kenya
China
Niger
Viet Nam
Mozambique
Myanmar
South Africa
Côte d'Ivoire
Uganda
India
Democratic Republic of the Congo

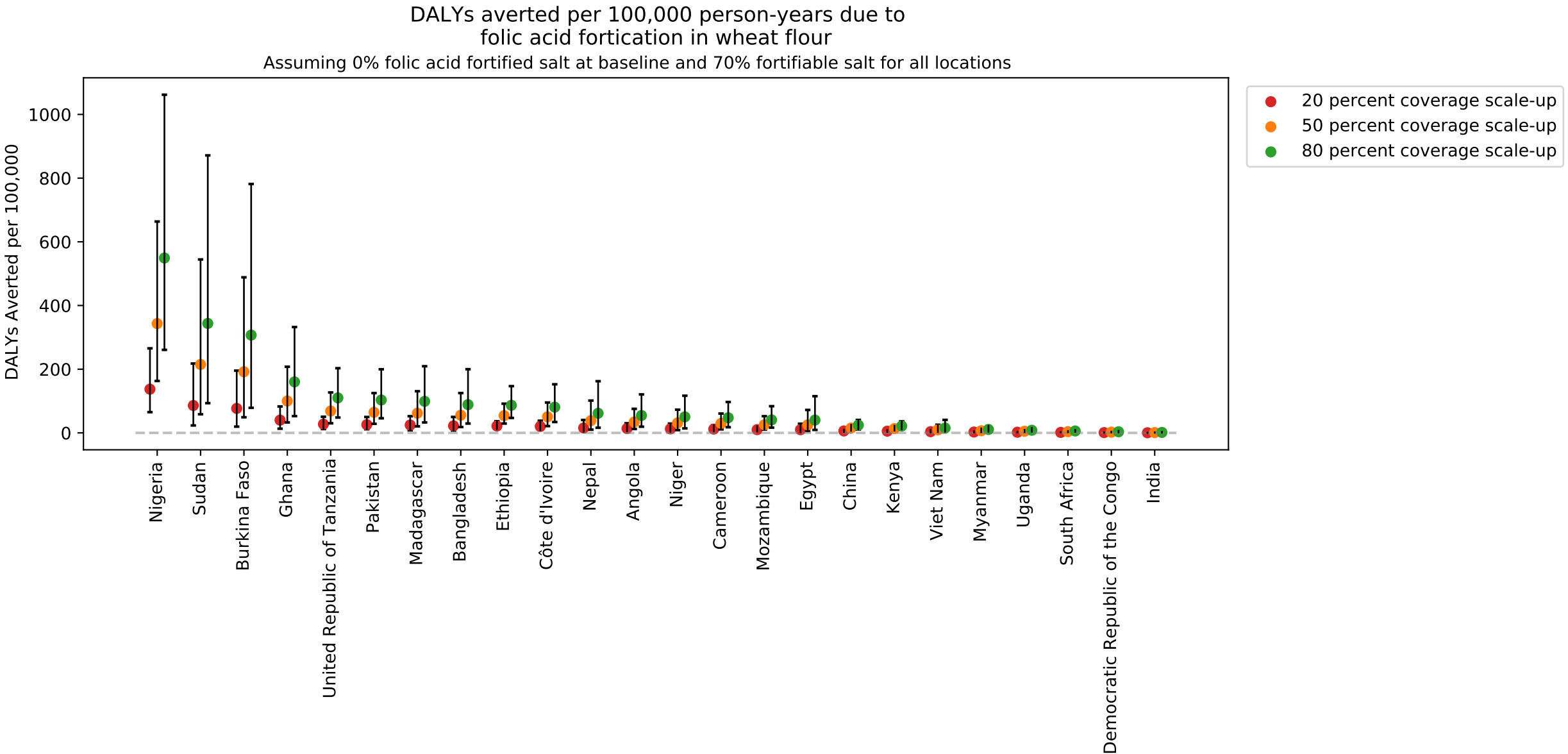

DALYs averted due to iron fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
300000
250000
200000
150000
100000
50000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Indonesia
Nigeria
Pakistan
China
Bangladesh
Egypt
Ethiopia
Sudan
India
Ghana
Burkina Faso
United Republic of Tanzania
Nepal
Cameroon
Madagascar
Viet Nam
Kenya
Angola
South Africa
Myanmar
Niger
Mozambique
Uganda
Democratic Republic of the Congo
Côte d'Ivoire

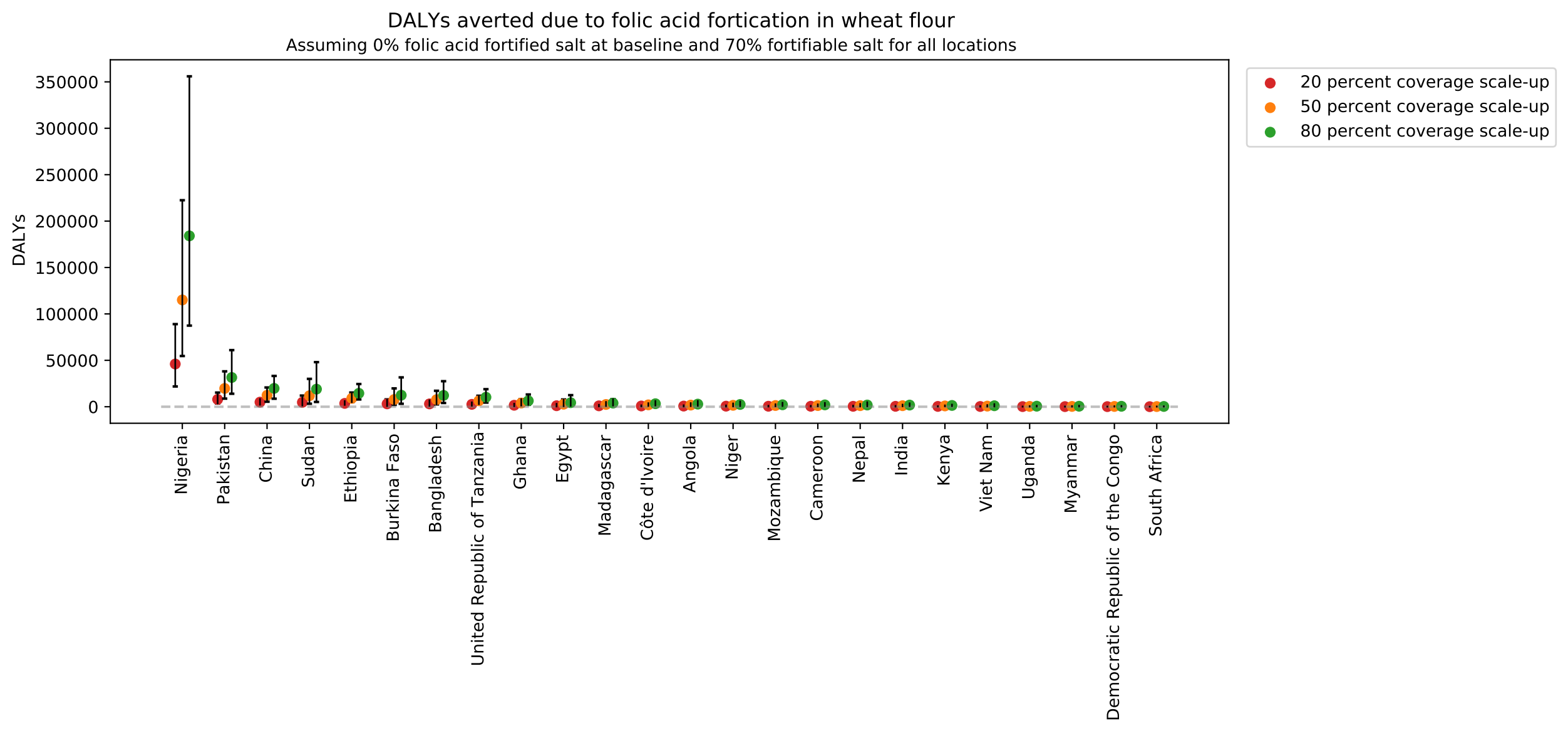

Population impact fraction of iron fortication in wheat flour
on DALYs as a proportion of iron deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
0
10
20
30
40
50
60
70
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Indonesia
Egypt
Sudan
China
Nigeria
Bangladesh
Burkina Faso
Ghana
Nepal
Pakistan
Cameroon
Madagascar
Ethiopia
Viet Nam
United Republic of Tanzania
Angola
Kenya
Niger
South Africa
Mozambique
Uganda
Myanmar
Côte d'Ivoire
Democratic Republic of the Congo
India

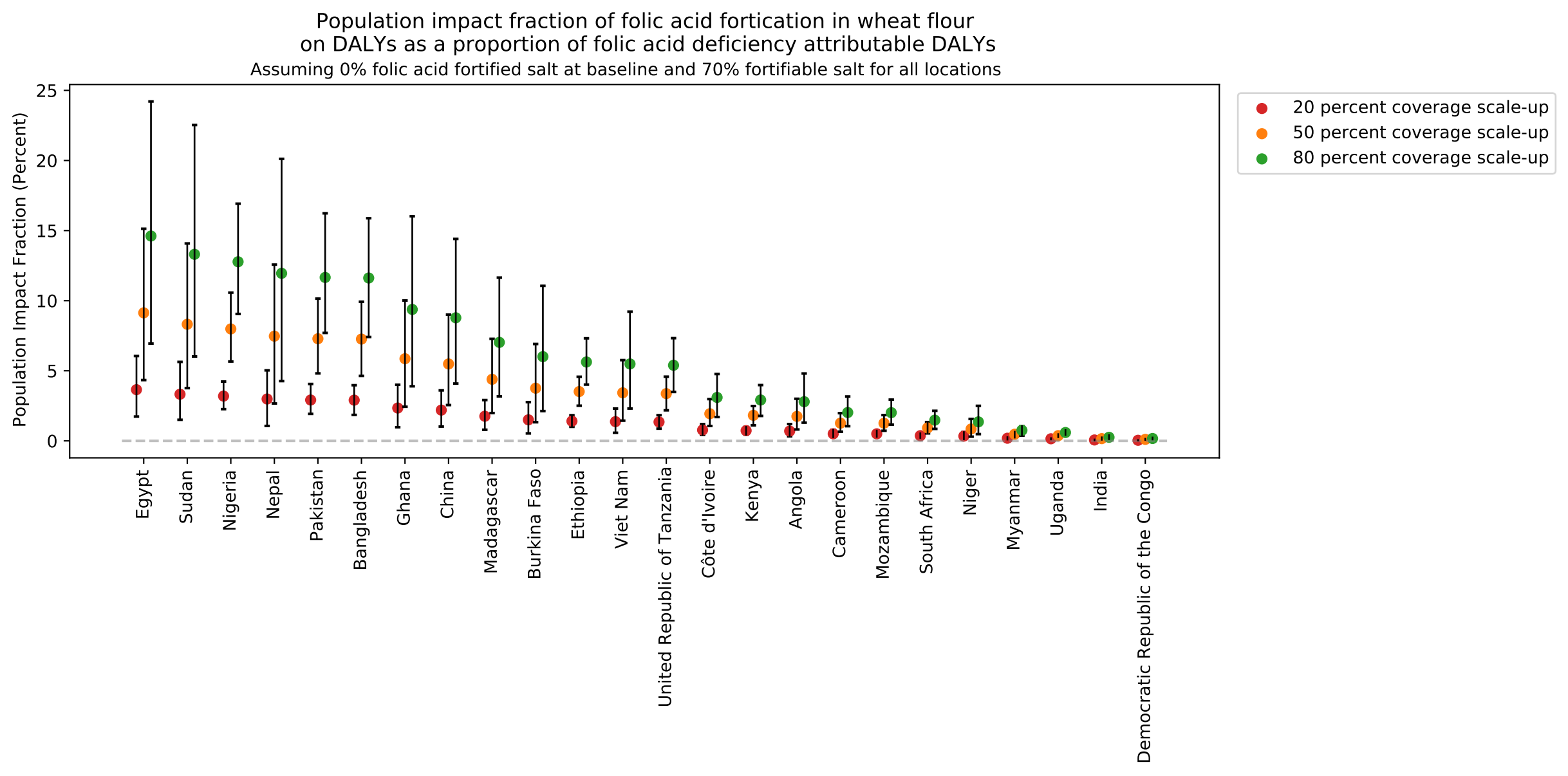

DALYs averted per 100,000 person-years due to iron fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
0
50
100
150
200
250
300
350
400
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
United Republic of Tanzania
Uganda
Ethiopia
South Africa
Kenya
Sudan
Egypt
Nigeria
Mozambique
Ghana
Cameroon
Angola
Côte d'Ivoire
Democratic Republic of the Congo
Madagascar
Niger
Burkina Faso

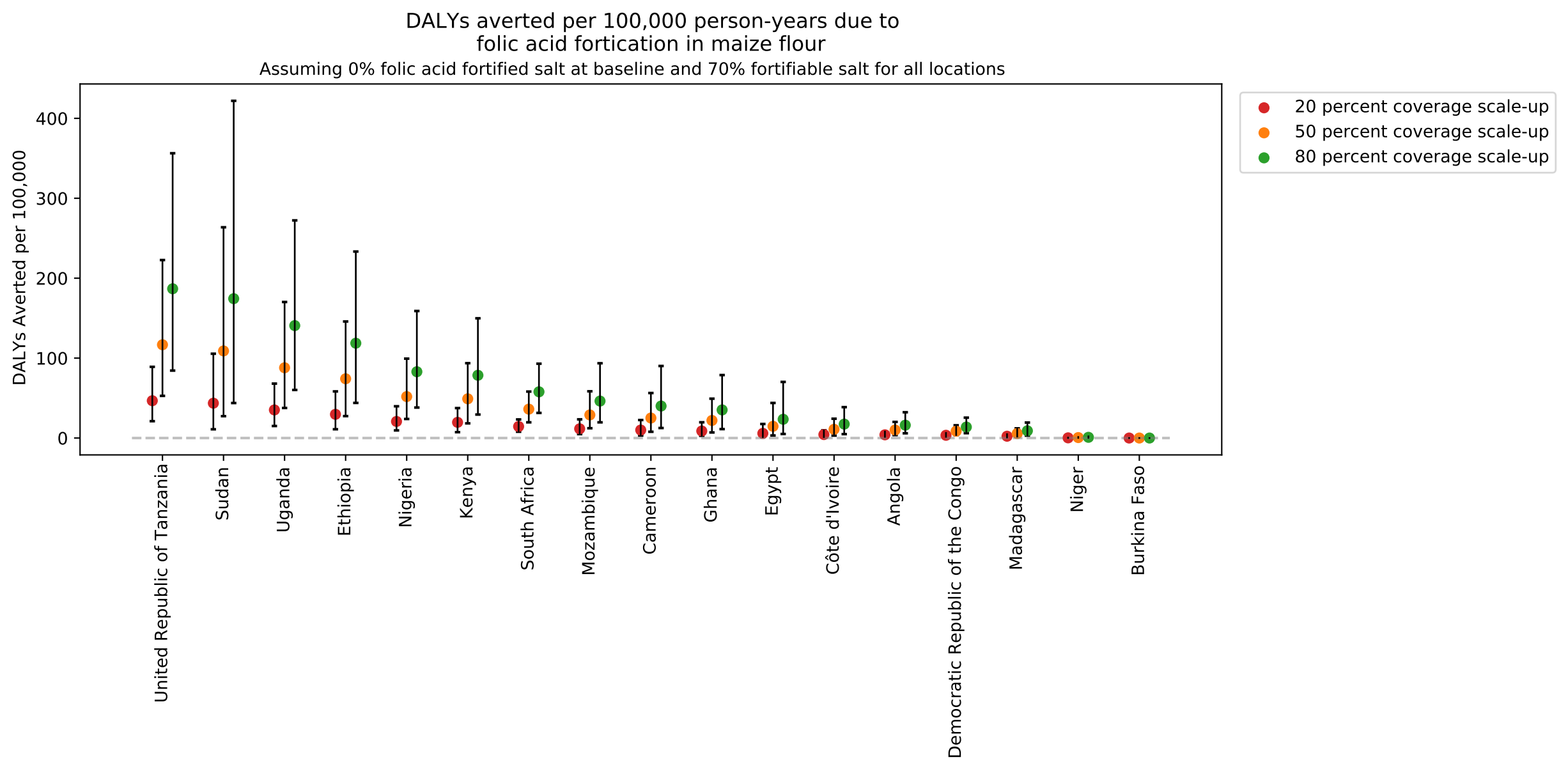

DALYs averted due to iron fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
60000
50000
40000
30000
20000
10000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Ethiopia
United Republic of Tanzania
Nigeria
Egypt
Uganda
South Africa
Kenya
Sudan
Mozambique
Ghana
Democratic Republic of the Congo
Cameroon
Angola
Côte d'Ivoire
Madagascar
Niger
Burkina Faso

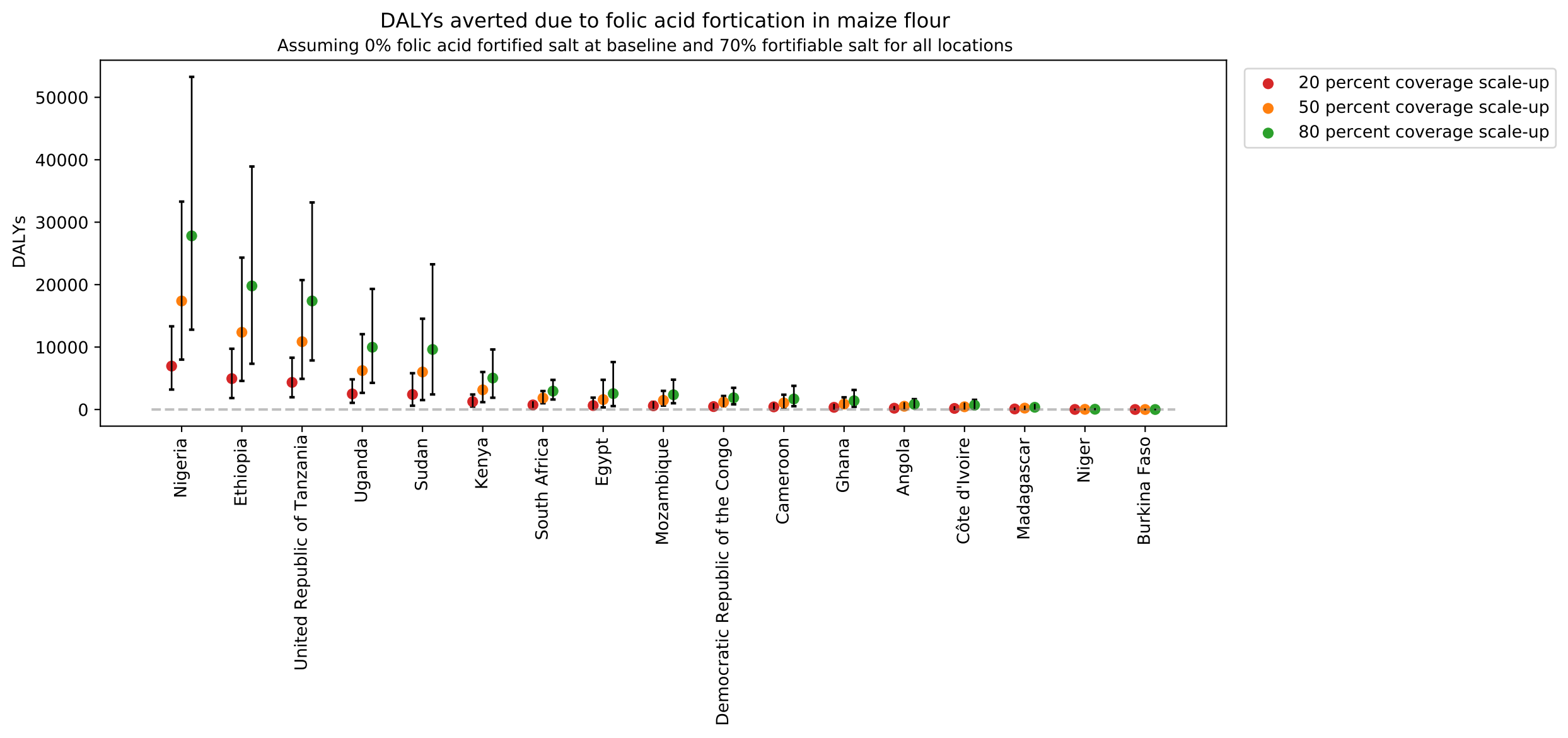

Population impact fraction of iron fortication in maize flour
on DALYs as a proportion of iron deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
0
10
20
30
40
50
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Uganda
Egypt
South Africa
United Republic of Tanzania
Kenya
Sudan
Ethiopia
Ghana
Mozambique
Cameroon
Nigeria
Angola
Côte d'Ivoire
Democratic Republic of the Congo
Madagascar
Niger
Burkina Faso

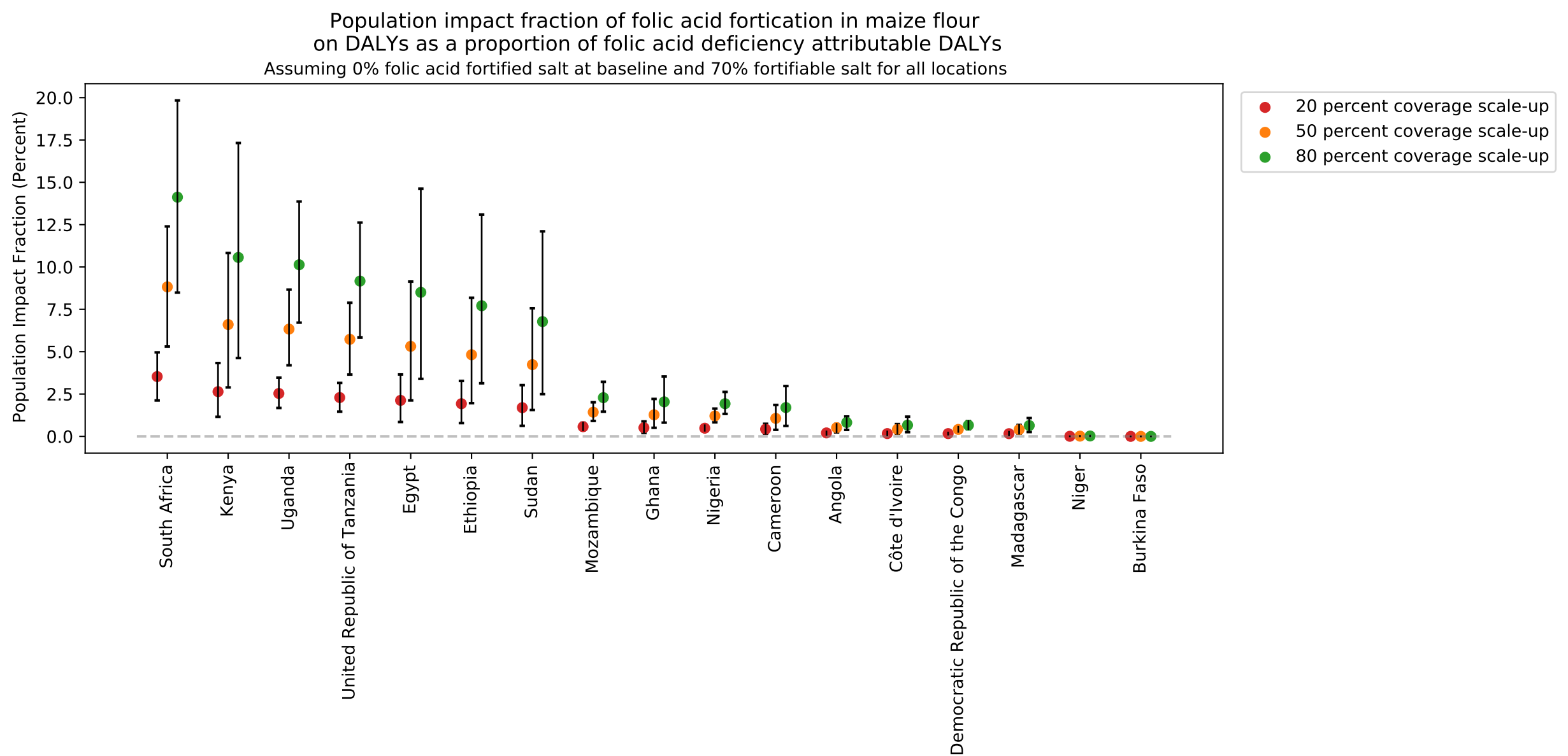

DALYs averted per 100,000 person-years due to
folic acid fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
0
200
400
600
800
1000
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Nigeria
Sudan
Burkina Faso
Ghana
United Republic of Tanzania
Pakistan
Madagascar
Bangladesh
Ethiopia
Côte d'Ivoire
Nepal
Angola
Niger
Cameroon
Mozambique
Egypt
China
Kenya
Viet Nam
Myanmar
Uganda
South Africa
Democratic Republic of the Congo
India


DALYs averted due to folic acid fortication in wheat flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
350000
300000
250000
200000
150000
100000
50000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Nigeria
Pakistan
China
Sudan
Ethiopia
Burkina Faso
Bangladesh
United Republic of Tanzania
Ghana
Egypt
Madagascar
Côte d'Ivoire
Angola
Niger
Mozambique
Cameroon
Nepal
India
Kenya
Viet Nam
Uganda
Myanmar
Democratic Republic of the Congo
South Africa


Population impact fraction of folic acid fortication in wheat flour
on DALYs as a proportion of folic acid deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
0
5
10
15
20
25
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Egypt
Sudan
Nigeria
Nepal
Pakistan
Bangladesh
Ghana
China
Madagascar
Burkina Faso
Ethiopia
Viet Nam
United Republic of Tanzania
Côte d'Ivoire
Kenya
Angola
Cameroon
Mozambique
South Africa
Niger
Myanmar
Uganda
India
Democratic Republic of the Congo


DALYs averted per 100,000 person-years due to
folic acid fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs Averted per 100,000
0
100
200
300
400
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
United Republic of Tanzania
Sudan
Uganda
Ethiopia
Nigeria
Kenya
South Africa
Mozambique
Cameroon
Ghana
Egypt
Côte d'Ivoire
Angola
Democratic Republic of the Congo
Madagascar
Niger
Burkina Faso


DALYs averted due to folic acid fortication in maize flour
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
DALYs
50000
40000
30000
20000
10000
0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
Nigeria
Ethiopia
United Republic of Tanzania
Uganda
Sudan
Kenya
South Africa
Egypt
Mozambique
Democratic Republic of the Congo
Cameroon
Ghana
Angola
Côte d'Ivoire
Madagascar
Niger
Burkina Faso


Population impact fraction of folic acid fortication in maize flour
on DALYs as a proportion of folic acid deficiency attributable DALYs
Assuming 0% folic acid fortified salt at baseline and 70% fortifiable salt for all locations
Population Impact Fraction (Percent)
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
20 percent coverage scale-up
50 percent coverage scale-up
80 percent coverage scale-up
South Africa
Kenya
Uganda
United Republic of Tanzania
Egypt
Ethiopia
Sudan
Mozambique
Ghana
Nigeria
Cameroon
Angola
Côte d'Ivoire
Democratic Republic of the Congo
Madagascar
Niger
Burkina Faso