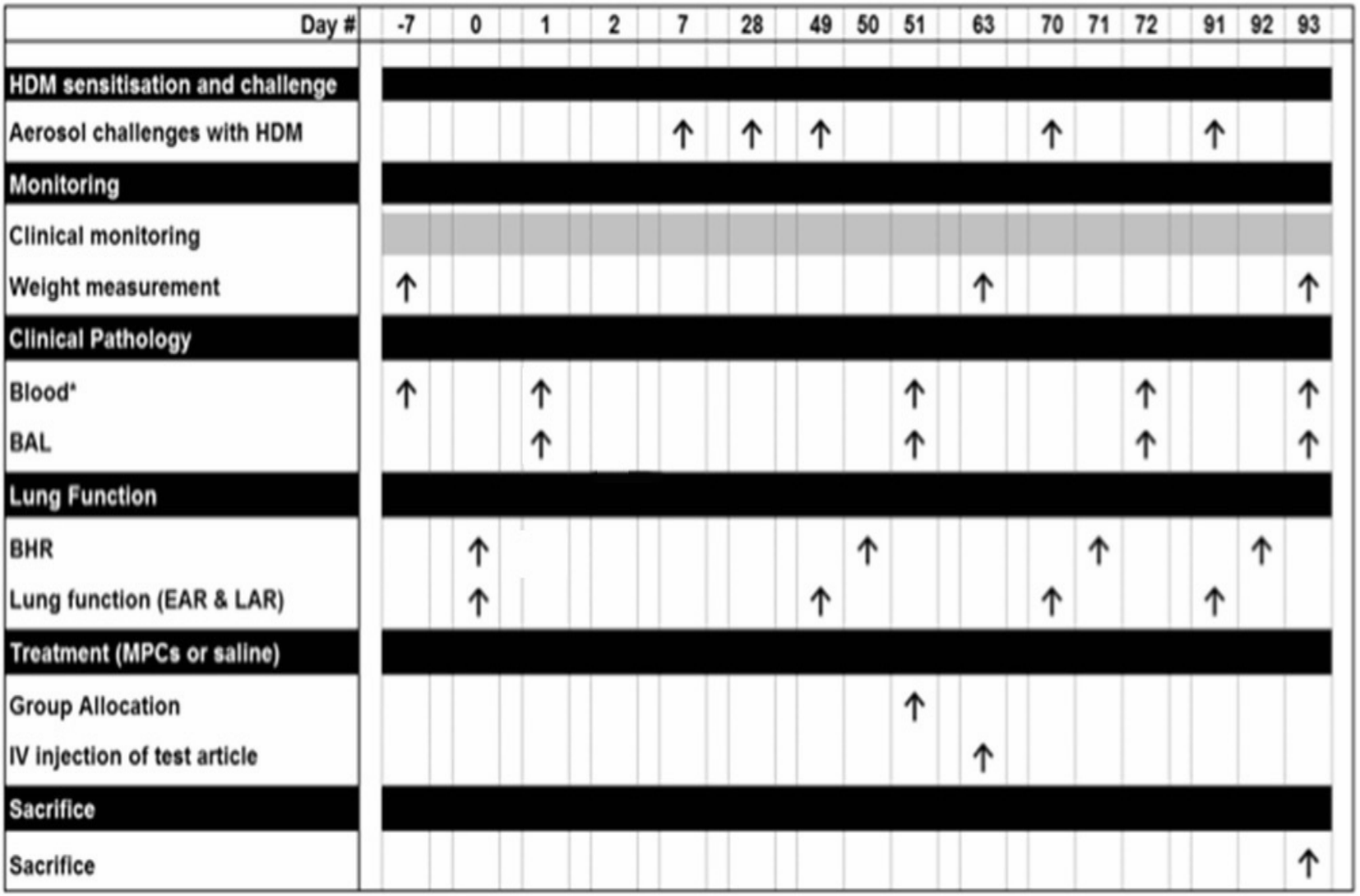
Day # -7 0 1 2 7 28 49 50 51 63 70 71 72 91 92 93
HDM sensitisation and challenge
Aerosol challenges with HDM
Monitoring
Clinical monitoring
Weight measurement
Clinical Pathology
Blood*
BAL
Lung Function
BHR
Lung function (EAR & LAR)
Treatment (MPCs or saline)
Group Allocation
IV injection of test article
Sacrifice
Sacrifice
* Blood collected for haematology, biochemistry, cytokines and IgE assay.

Figure 3

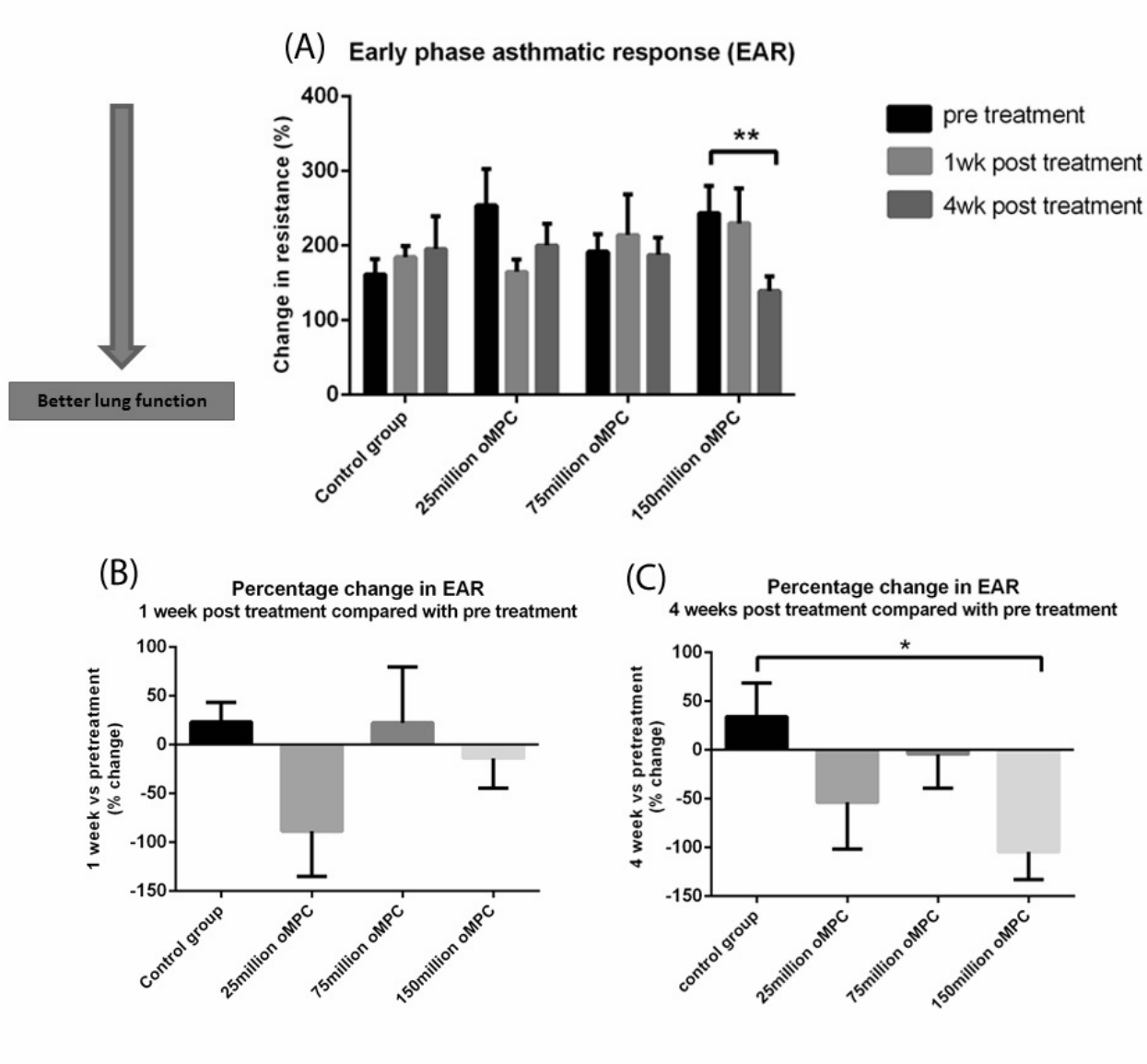
(A) Early phase asthmatic response (EAR)
Better lung function
Change in resistance (%)
400
300
200
100
0
**
pre treatment
1wk post treatment
4wk post treatment
Control group
25million oMPC
75million oMPC
150million oMPC
(B)
Percentage change in EAR
1 week post treatment compared with pre treatment
1 week vs pretreatment (% change)
100
50
0
-50
-100
-150
Control group
25million oMPC
75million oMPC
150million oMPC
(C)
Percentage change in EAR
4 weeks post treatment compared with pre treatment
4 week vs pretreatment (% change)
*
control group
25million oMPC
75million oMPC
150million oMPC

Figure 4

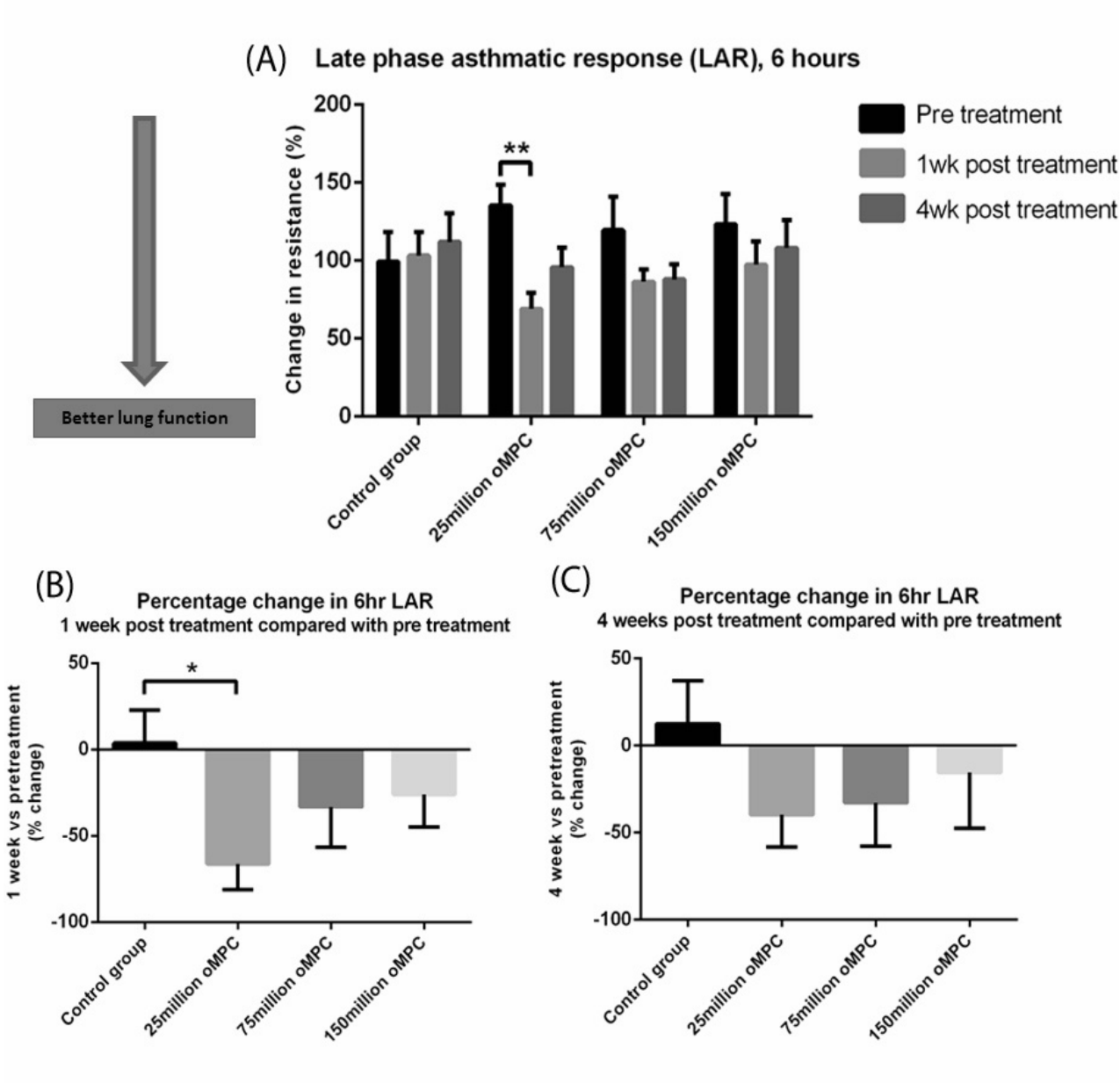
(A)
Late phase asthmatic response (LAR), 6 hours
Better lung function
Change in resistance (%)
200
150
100
50
0
**
Pre treatment
1wk post treatment
4wk post treatment
Control group
25million oMPC
75million oMPC
150million oMPC
(B)
Percentage change in 6hr LAR
1 week post treatment compared with pre treatment
1 week vs pretreatment (% change)
50
0
-50
-100
*
Control group
25million oMPC
75million oMPC
150million oMPC
(C)
Percentage change in 6hr LAR
4 weeks post treatment compared with pre treatment
4 week vs pretreatment (% change)
50
0
-50
-100
Control group
25million oMPC
75million oMPC
150million oMPC

Figure 5

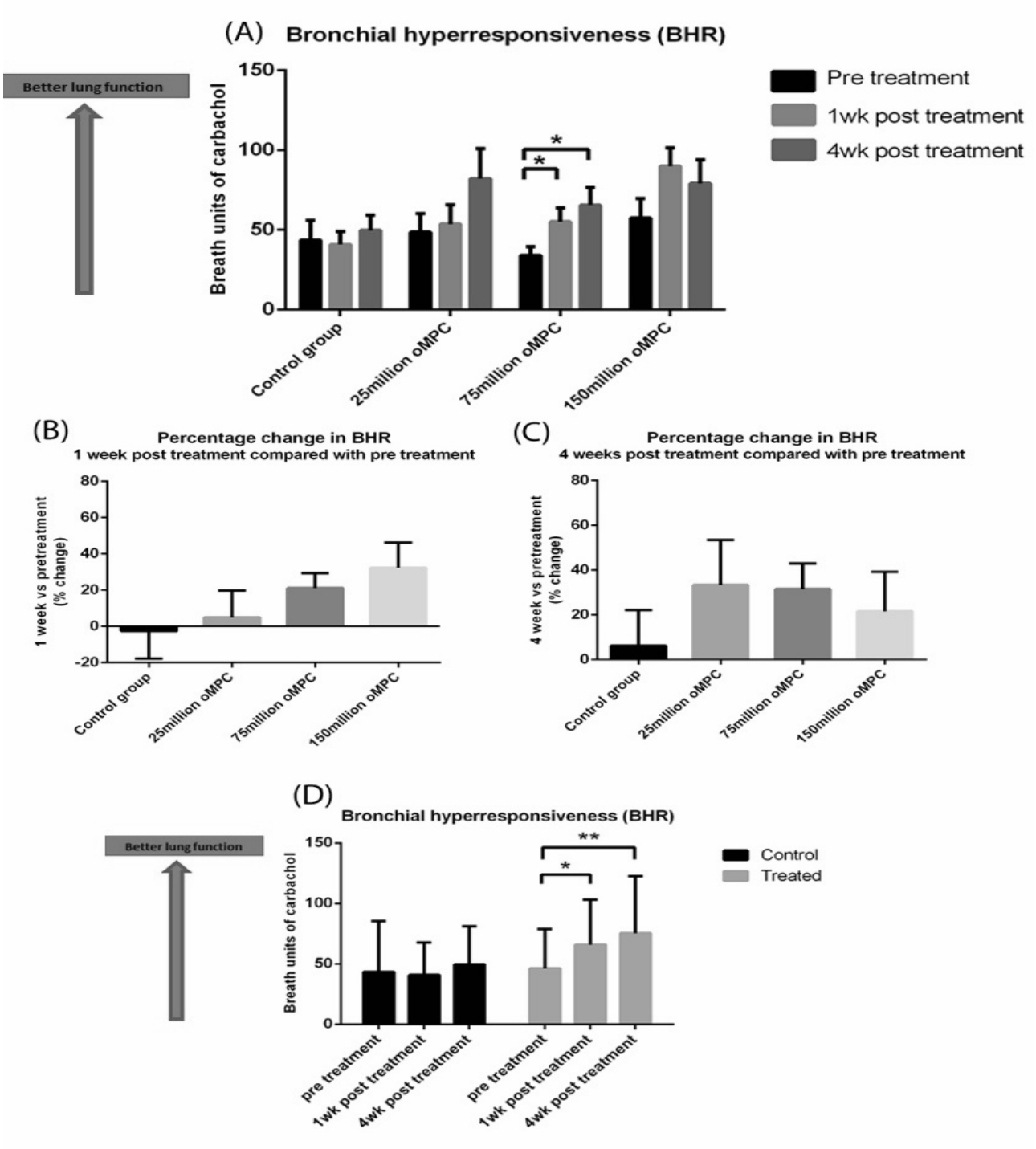
(A) Bronchial hyperresponsiveness (BHR)
Better lung function
Breath units of carbachol
150
100
50
0
Pre treatment
1wk post treatment
4wk post treatment
*
*
Control group
25million oMPC
75million oMPC
150million oMPC
(B)
Percentage change in BHR
1 week post treatment compared with pre treatment
1 week vs pretreatment (% change)
80
60
40
20
0
-20
Control group
25million oMPC
75million oMPC
150million oMPC
(C)
Percentage change in BHR
4 weeks post treatment compared with pre treatment
4 week vs pretreatment (% change)
80
60
40
20
0
Control group
25million oMPC
75million oMPC
150million oMPC
(D)
Bronchial hyperresponsiveness (BHR)
Better lung function
Breath units of carbachol
150
100
50
0
**
*
Control
Treated
pre treatment
1wk post treatment
4wk post treatment
pre treatment
1wk post treatment
4wk post treatment

Figure 6

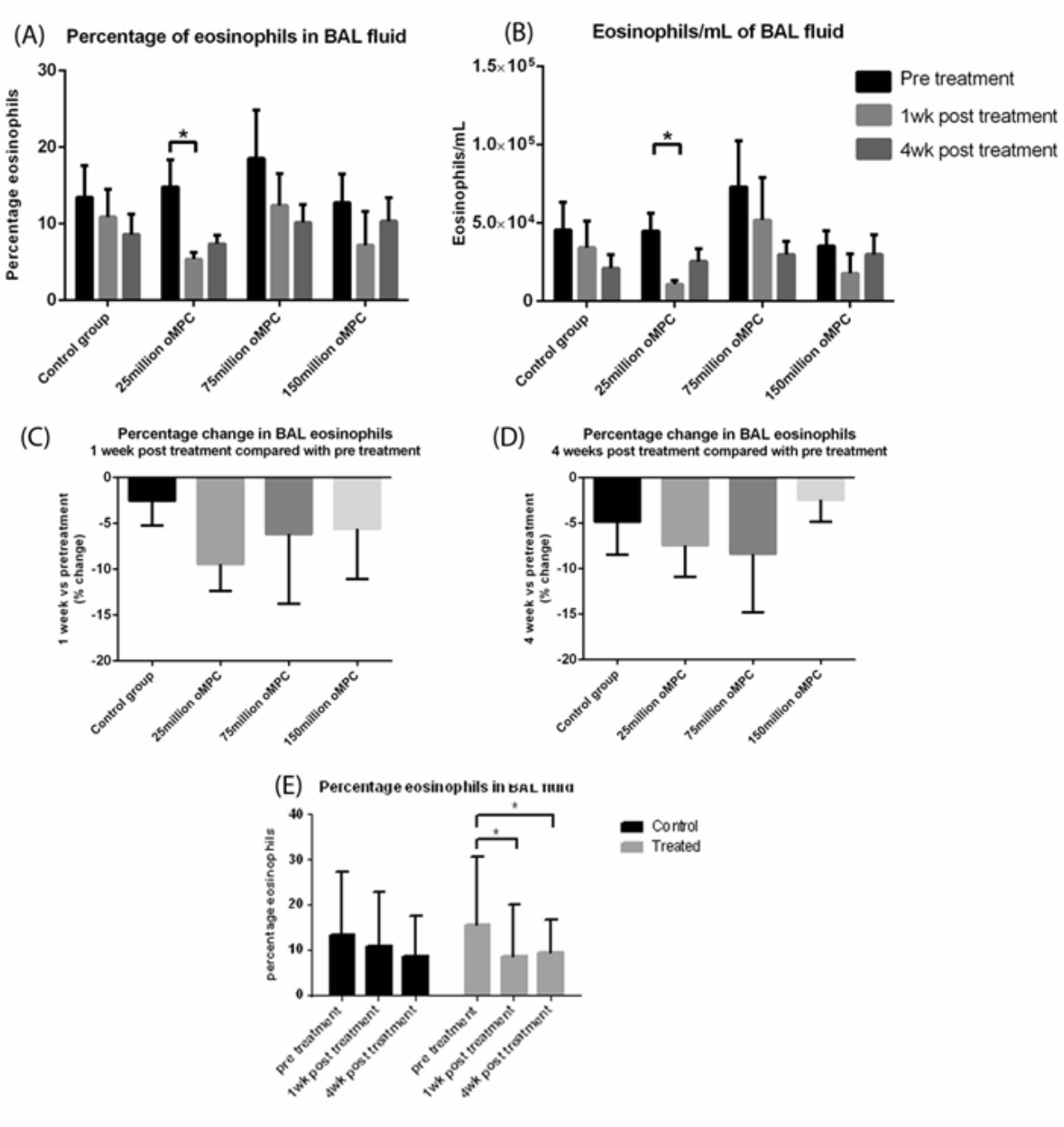
(A)
Percentage of eosinophils in BAL fluid
Percentage eosinophils
30
20
10
0
*
Control group
25million oMPC
75million oMPC
150million oMPC
(B)
Eosinophils/mL of BAL fluid
Eosinophils/mL
1.5×10^5
1.0×10^5
5.0×10^4
0
*
Pre treatment
1wk post treatment
4wk post treatment
Control group
25million oMPC
75million oMPC
150million oMPC
(C)
Percentage change in BAL eosinophils
1 week post treatment compared with pre treatment
1 week vs pretreatment (% change)
0
-5
-10
-15
-20
Control group
25million oMPC
75million oMPC
150million oMPC
(D)
Percentage change in BAL eosinophils
4 weeks post treatment compared with pre treatment
4 week vs pretreatment (% change)
0
-5
-10
-15
-20
Control group
25million oMPC
75million oMPC
150million oMPC
(E)
Percentage eosinophils in BAL fluid
percentage eosinophils
40
30
20
10
0
*
*
Control
Treated
pre treatment
1wk post treatment
4wk post treatment
pre treatment
1wk post treatment
4wk post treatment

Figure 7

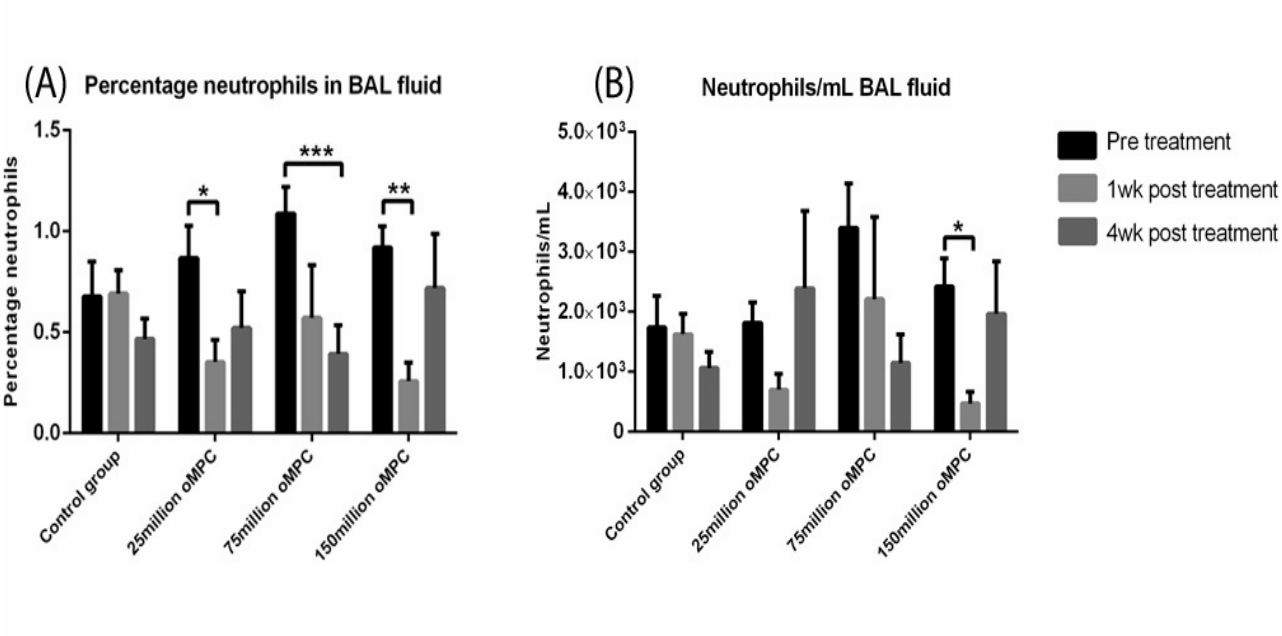

Figure 8

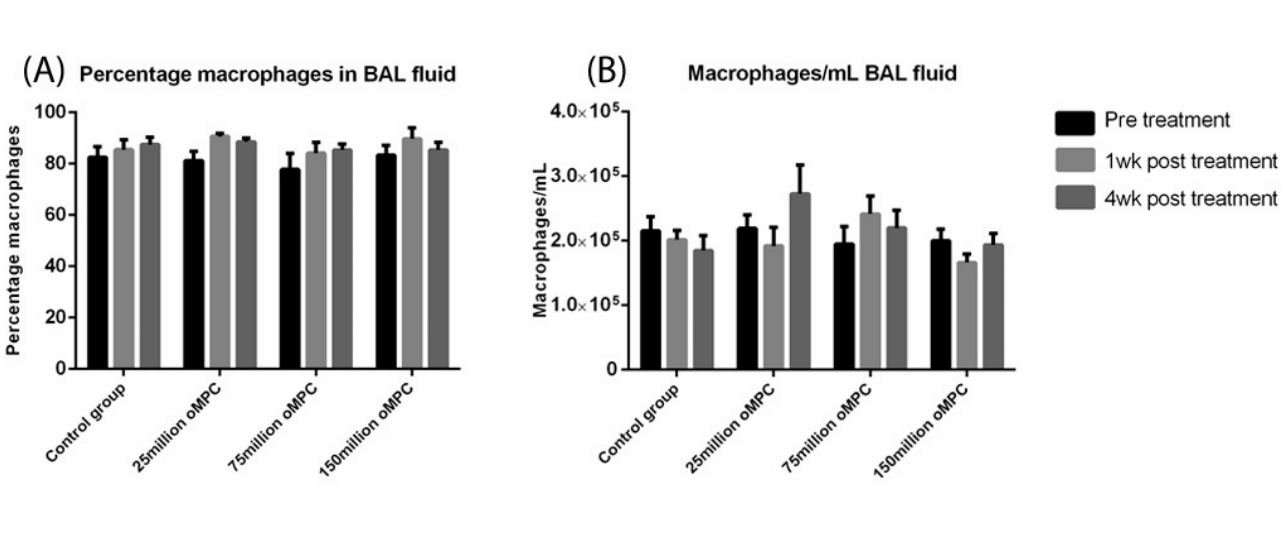

Figure 9

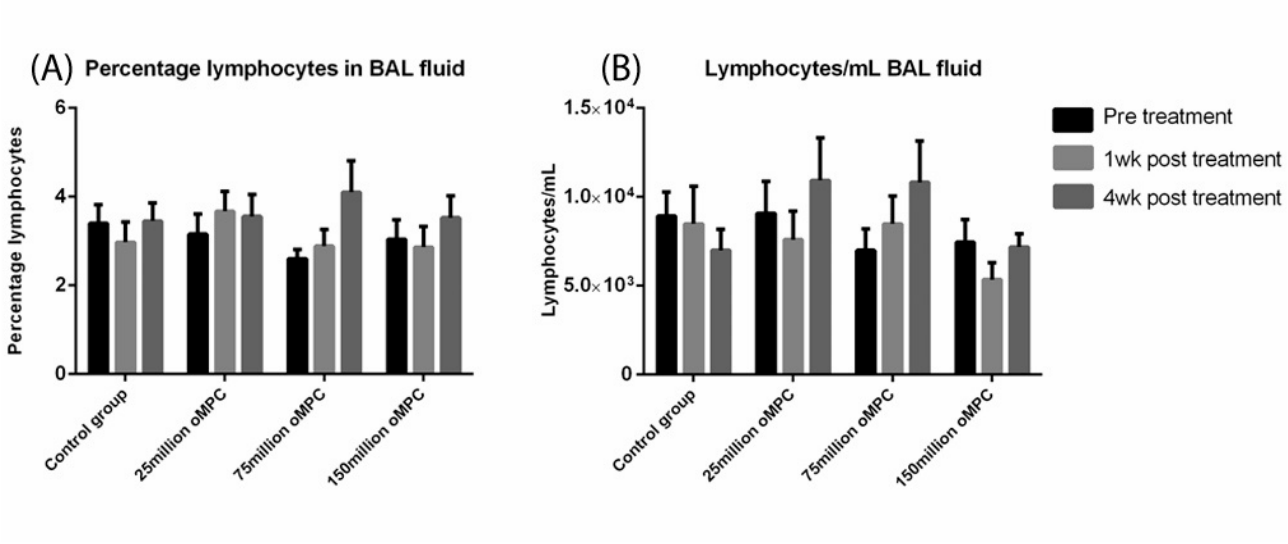
(A) Percentage lymphocytes in BAL fluid
Percentage lymphocytes
6
4
2
0
Control group
25million oMPC
75million oMPC
150million oMPC
(B) Lymphocytes/mL BAL fluid
Lymphocytes/mL
1.5×10⁴
1.0×10⁴
5.0×10³
0
Control group
25million oMPC
75million oMPC
150million oMPC
Pre treatment
1wk post treatment
4wk post treatment

Figure 10

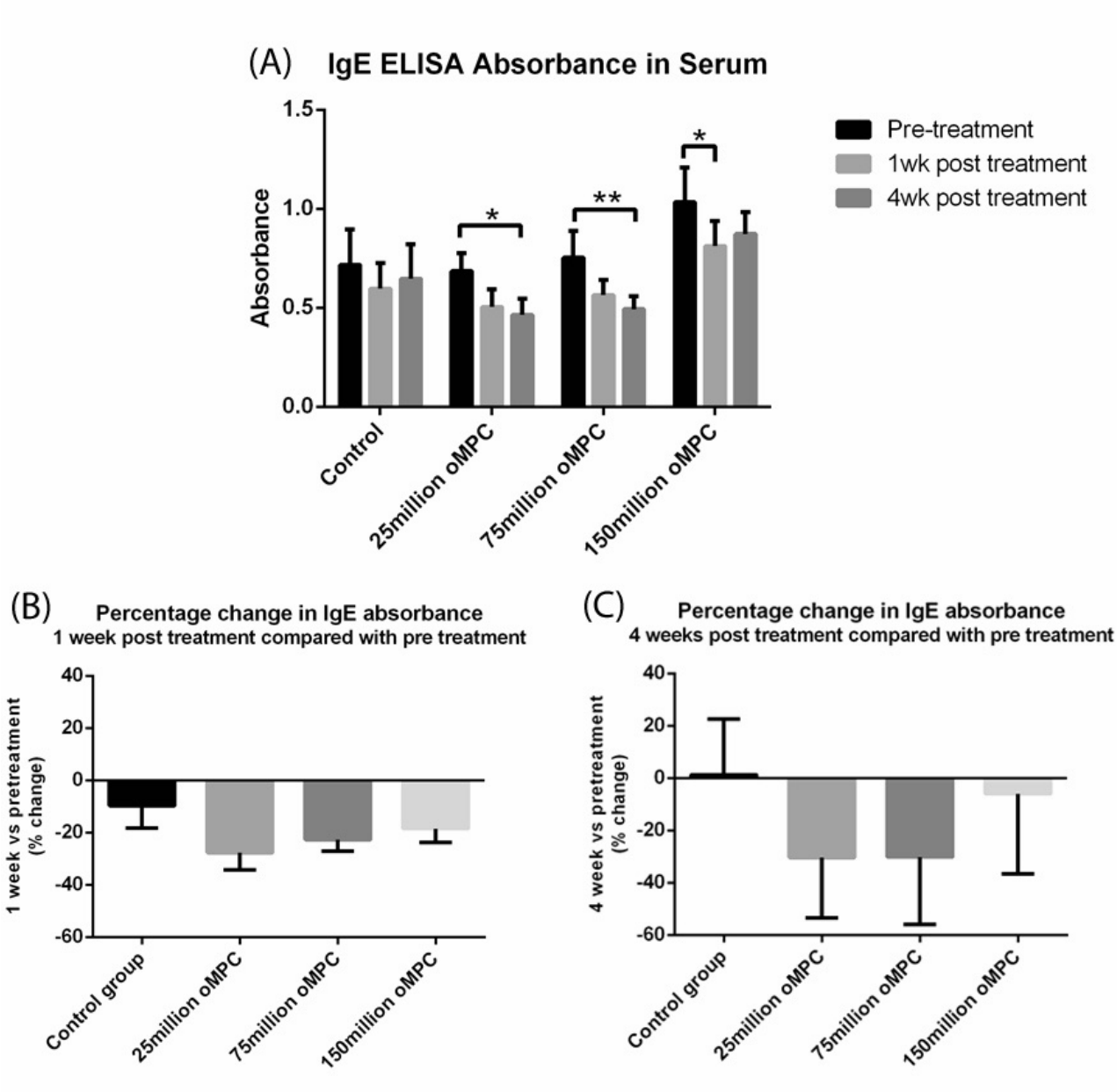
(A) IgE ELISA Absorbance in Serum
Absorbance
1.5
1.0
0.5
0.0
*
**
*
Pre-treatment
1wk post treatment
4wk post treatment
Control
25million oMPC
75million oMPC
150million oMPC
(B) Percentage change in IgE absorbance
1 week post treatment compared with pre treatment
1 week vs pretreatment (% change)
40
20
0
-20
-40
-60
Control group
25million oMPC
75million oMPC
150million oMPC
(C) Percentage change in IgE absorbance
4 weeks post treatment compared with pre treatment
4 week vs pretreatment (% change)
40
20
0
-20
-40
-60
Control group
25million oMPC
75million oMPC
150million oMPC

Figure 11