Fig.1

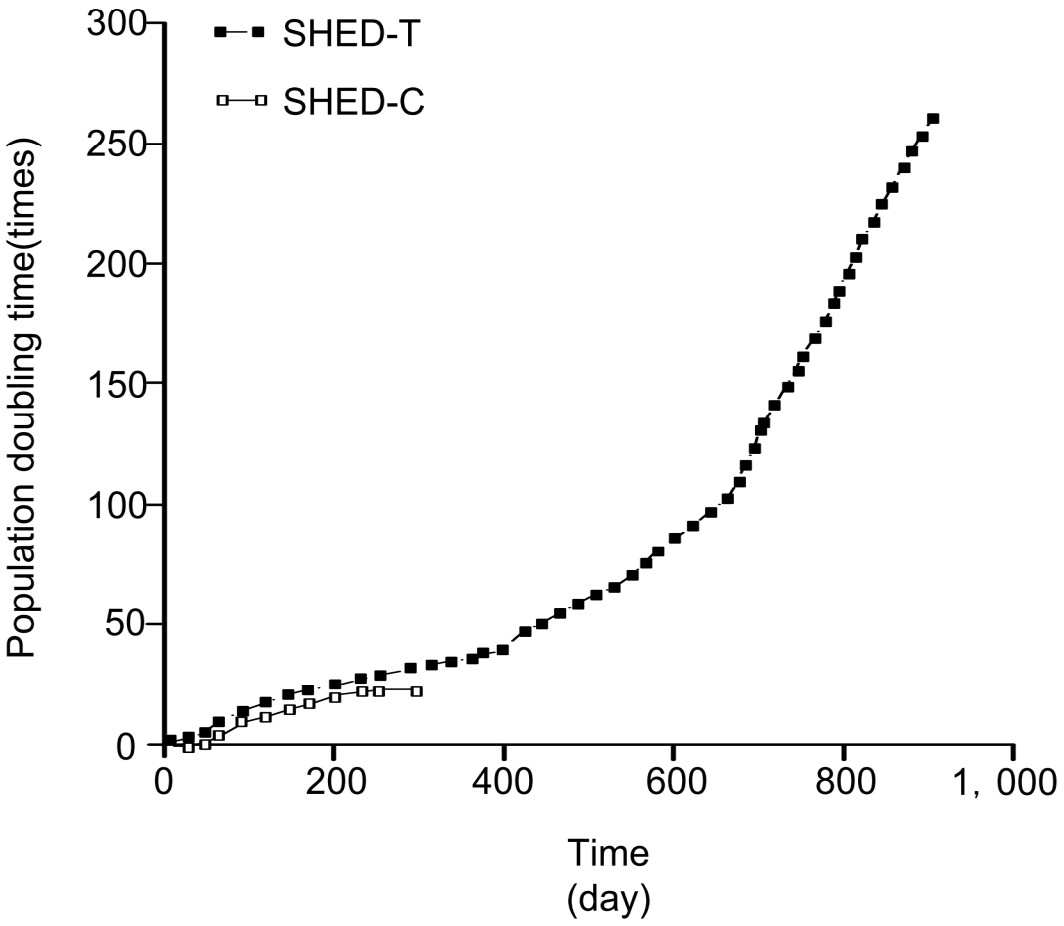

SHED-T
SHED-C
Population doubling time(times)
300
250
200
150
100
50
0
0
200
400
600
800
1, 000
Time
(day)

Fig. 2

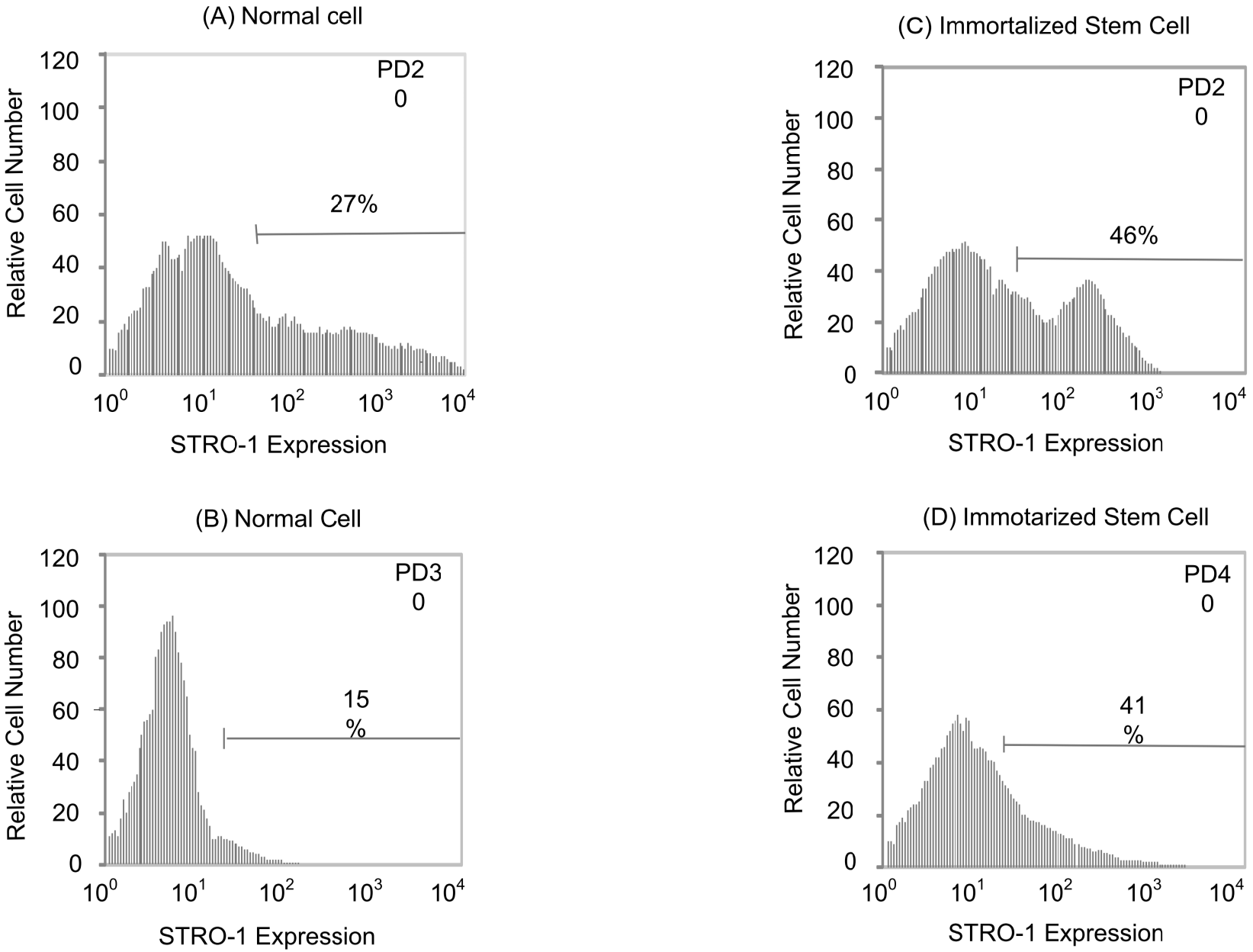

(A) Normal cell
PD2
0
27%
Relative Cell Number
STRO-1 Expression
(C) Immortalized Stem Cell
PD2
0
46%
Relative Cell Number
STRO-1 Expression
(B) Normal Cell
PD3
0
15
%
Relative Cell Number
STRO-1 Expression
(D) Immotarized Stem Cell
PD4
0
41
%
Relative Cell Number
STRO-1 Expression

Fig. 3

(A)



(B)



Fig. 4

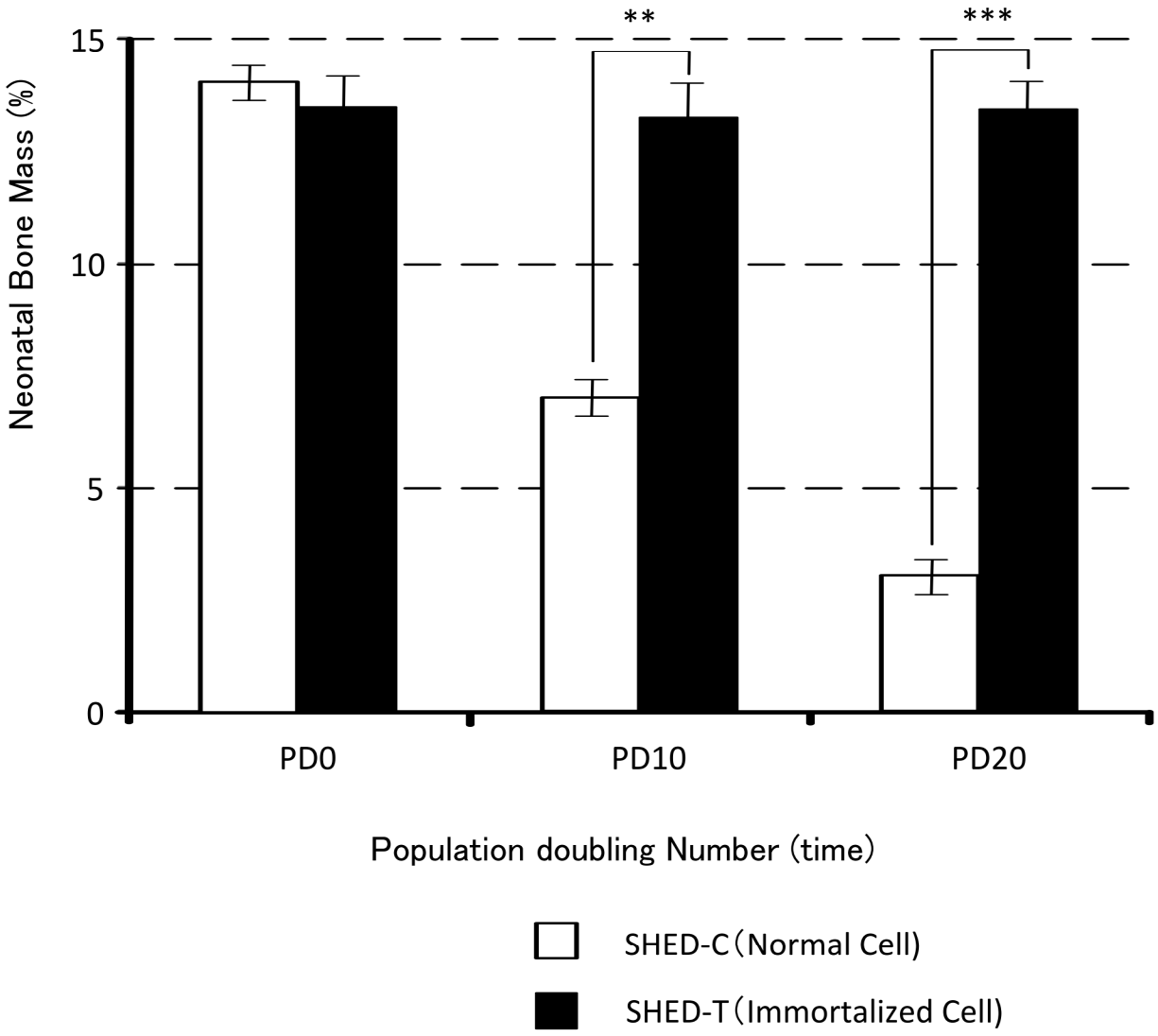
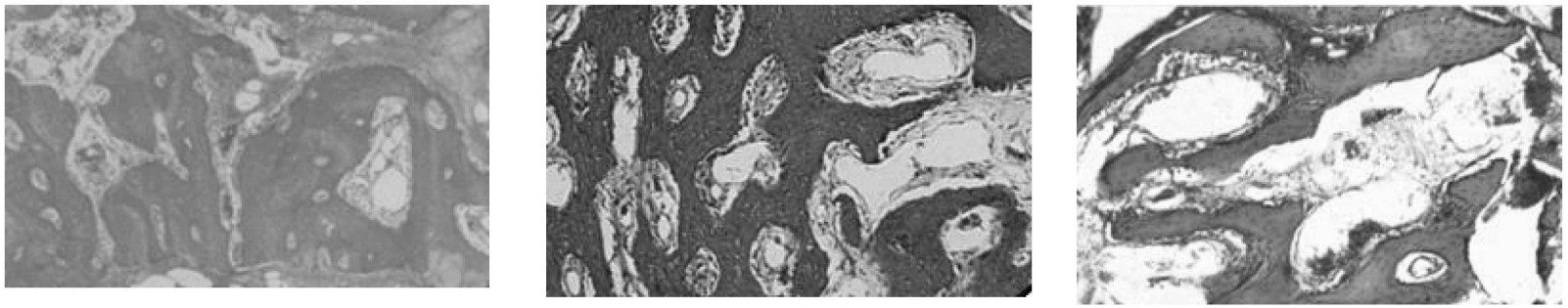

**
***
15
10
5
0
Neonatal Bone Mass (%)
PD0
PD10
PD20
Population doubling Number (time)
SHED-C（Normal Cell)
SHED-T（Immortalized Cell)

Fig. 5

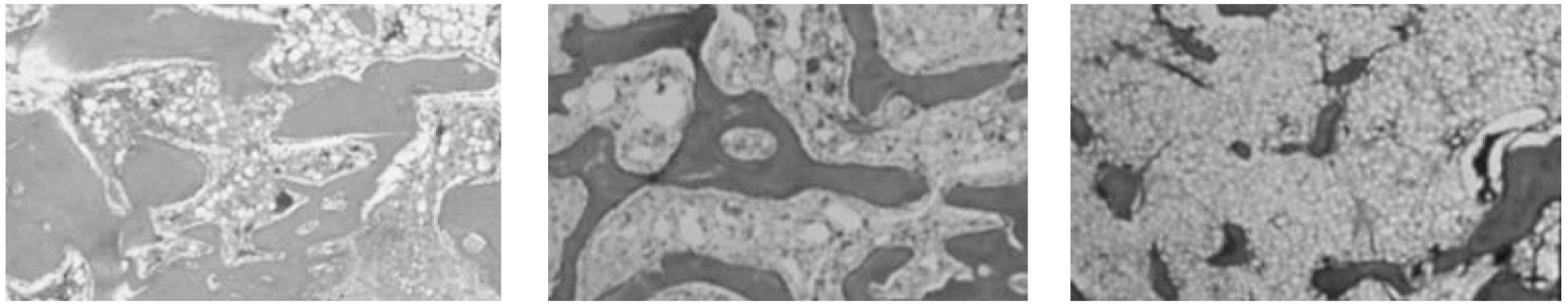
(A)PD0 (B)PD10 (C)PD20

Immortalized Stem Cell



(D)PD0 (E)PD10 (F) PD20

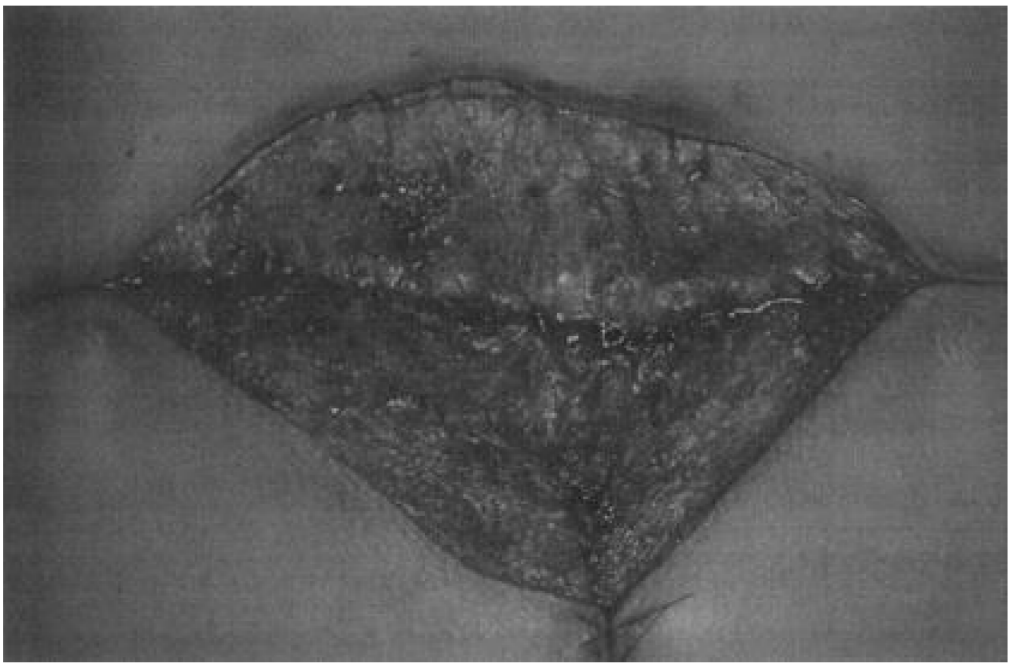
Normal Cell



(HE Staining x 200)

Fig. 6

(A)



(B)

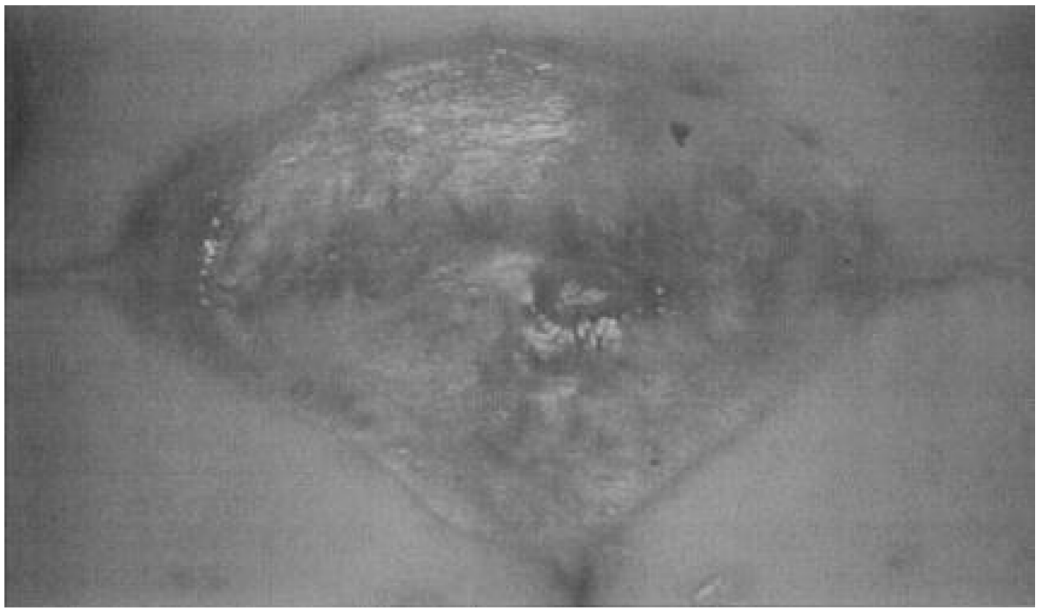


Fig. 7

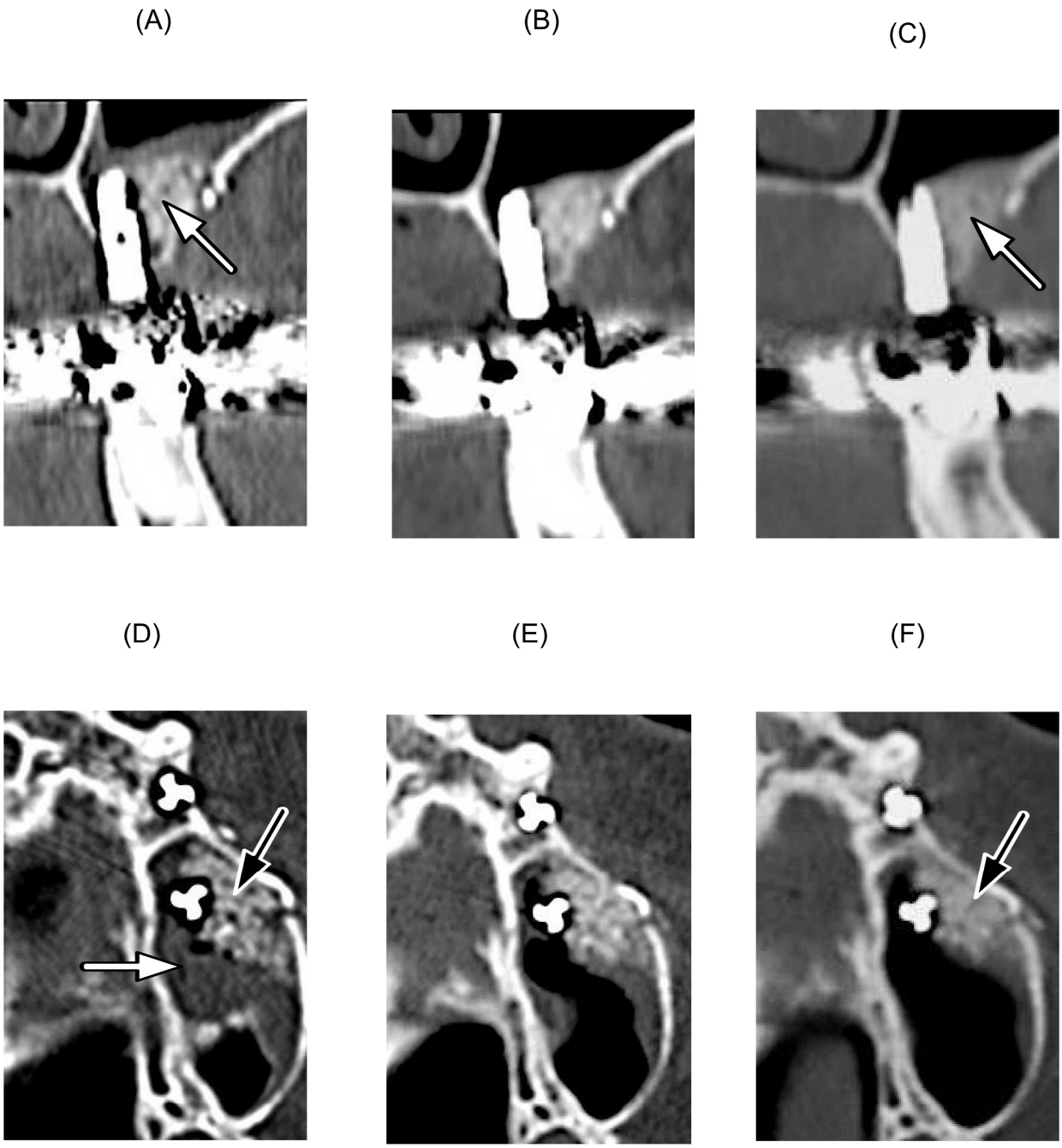
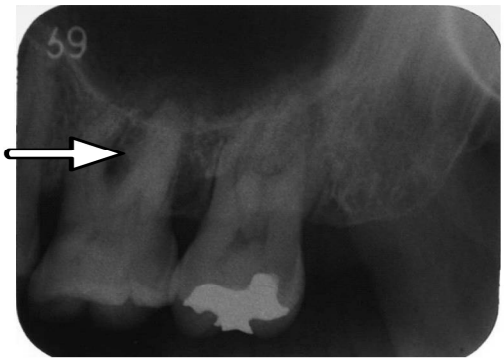


Fig. 8

(A)



(B)

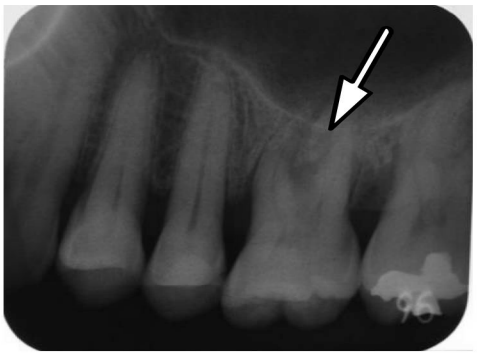


Fig. 9

(A)



(B)

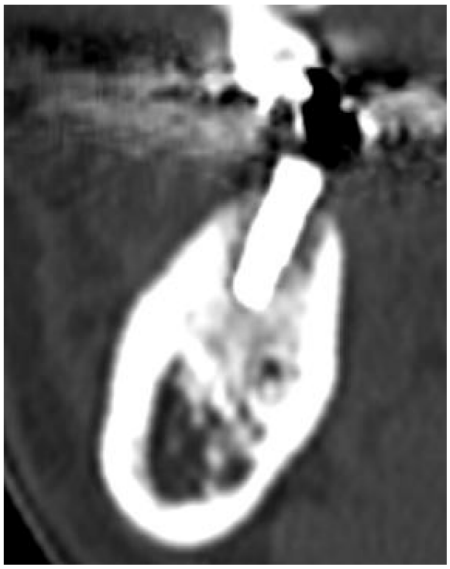


Fig. 10

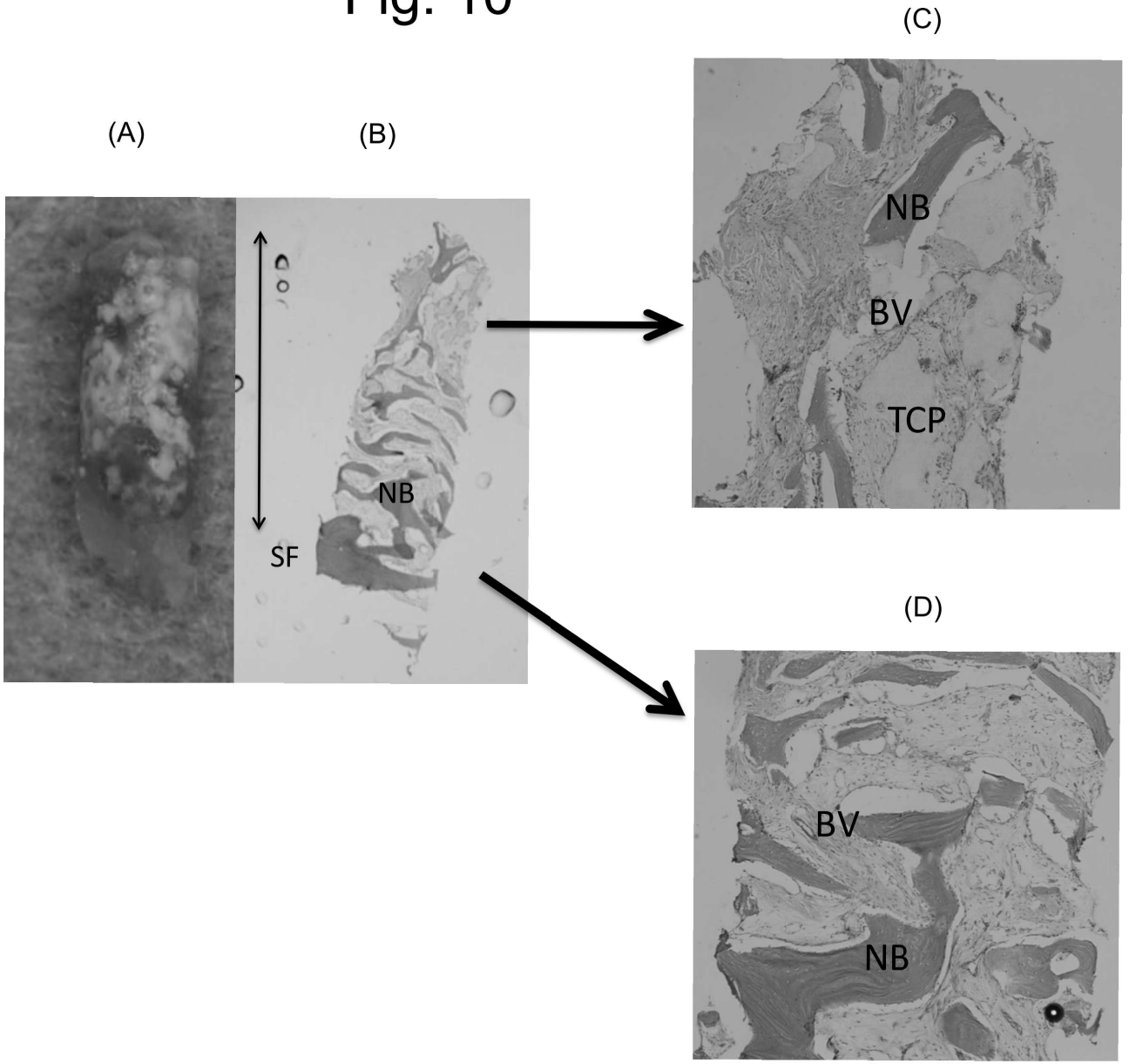


Fig. 11

Transnasal administration of stem cell based growth factors through olfactorius

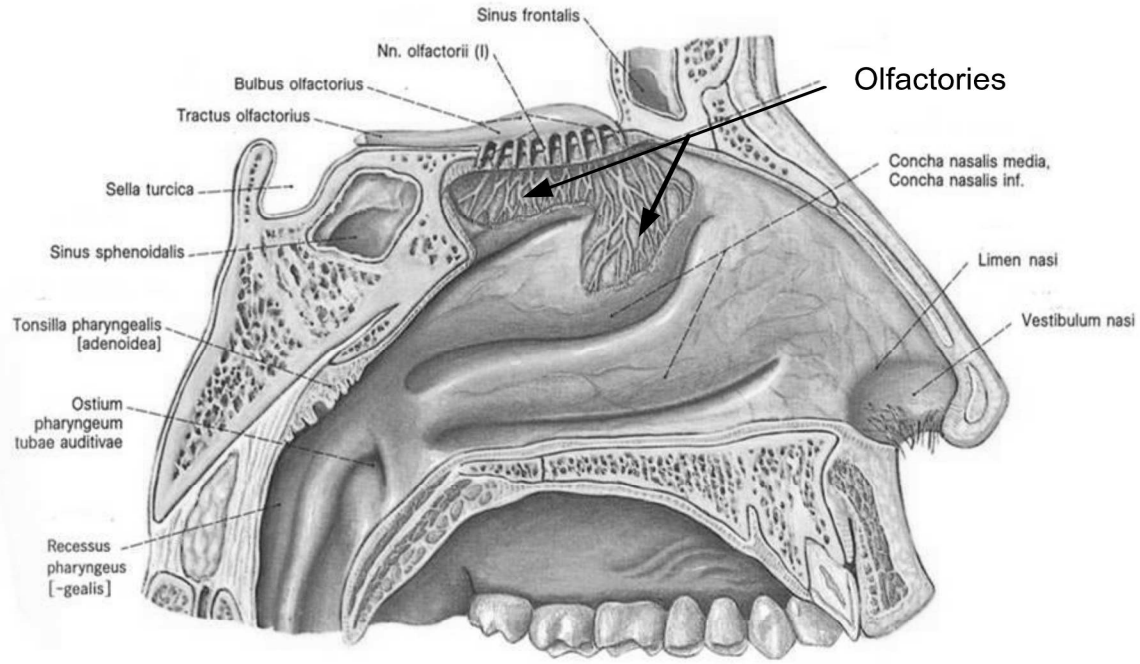


Fig. 12



Fig. 13



Fig. 14

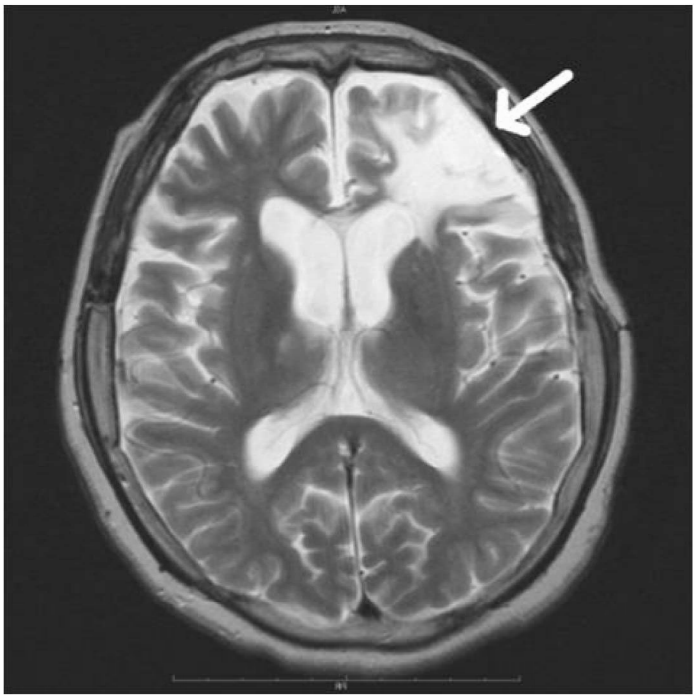
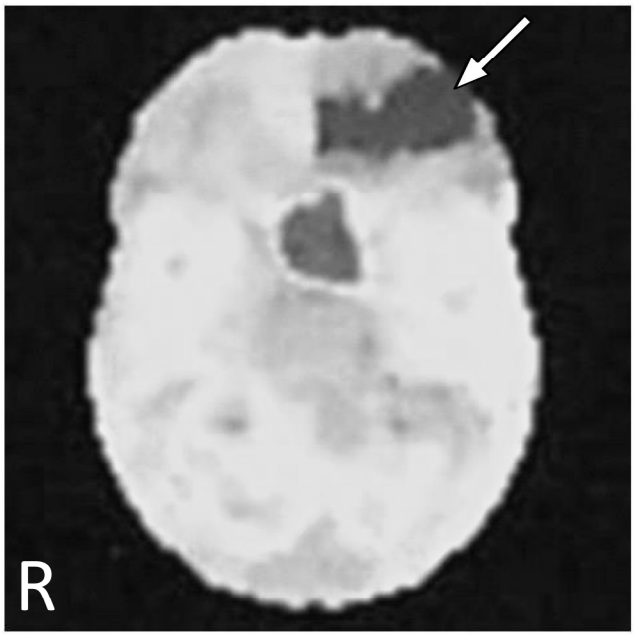


Fig. 15

(A)



(B)

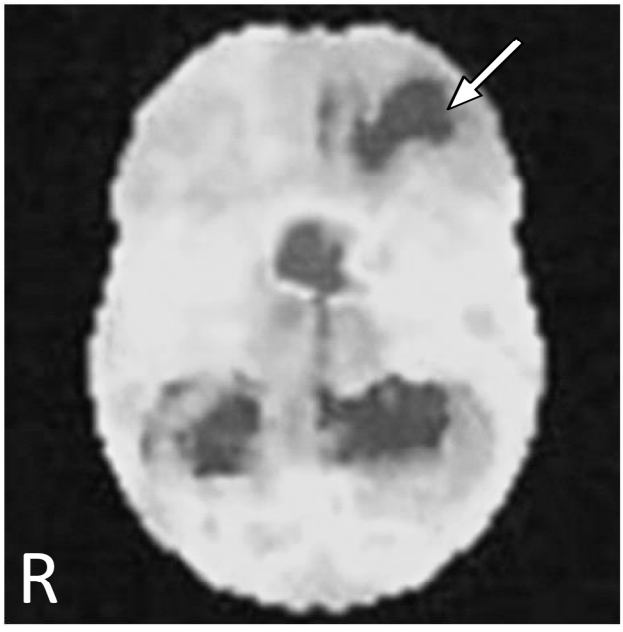


Fig. 16

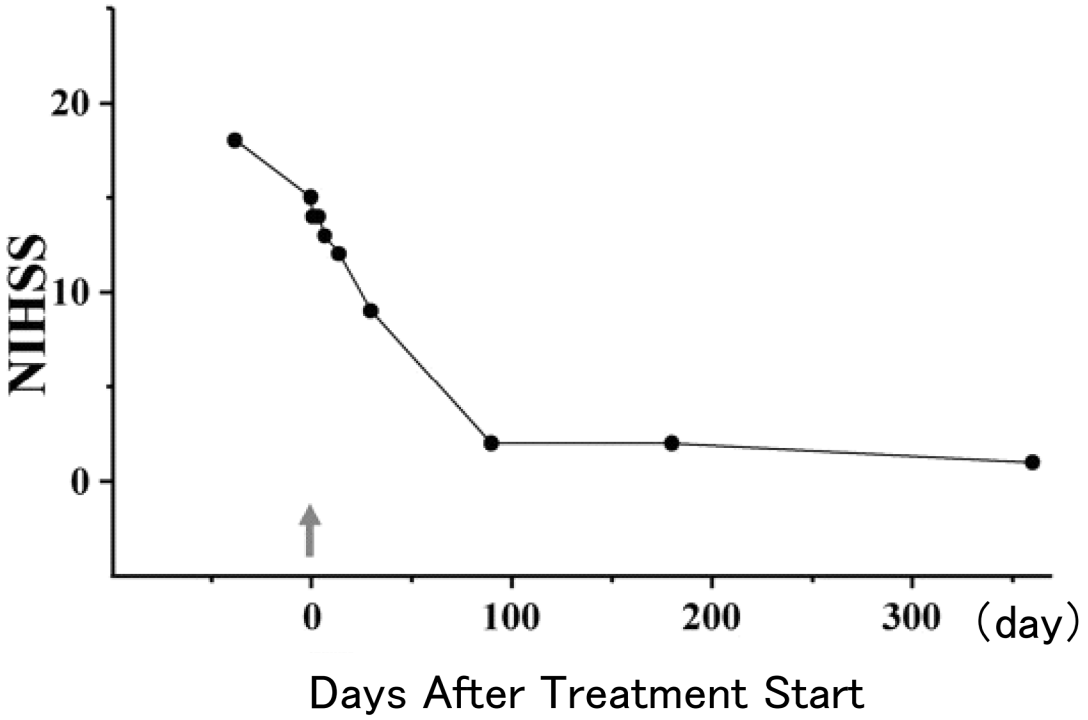


Fig. 17

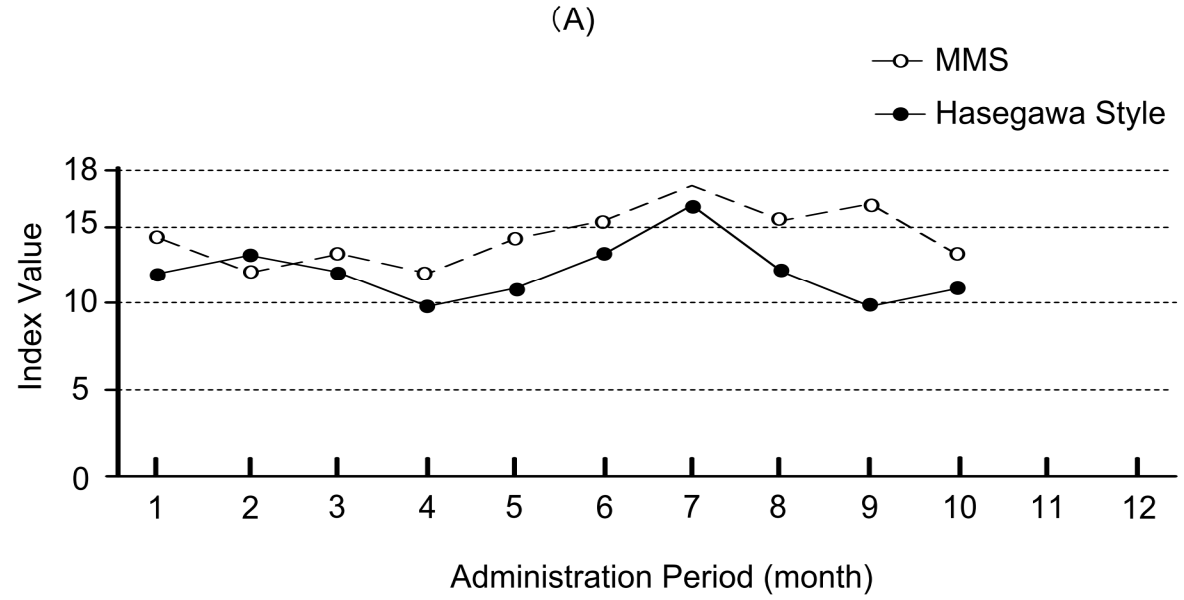
(A)



(B)



Fig. 18


(A)
MMS
Hasegawa Style
Index Value
18
15
10
5
0
1
2
3
4
5
6
7
8
9
10
11
12
Administration Period (month)

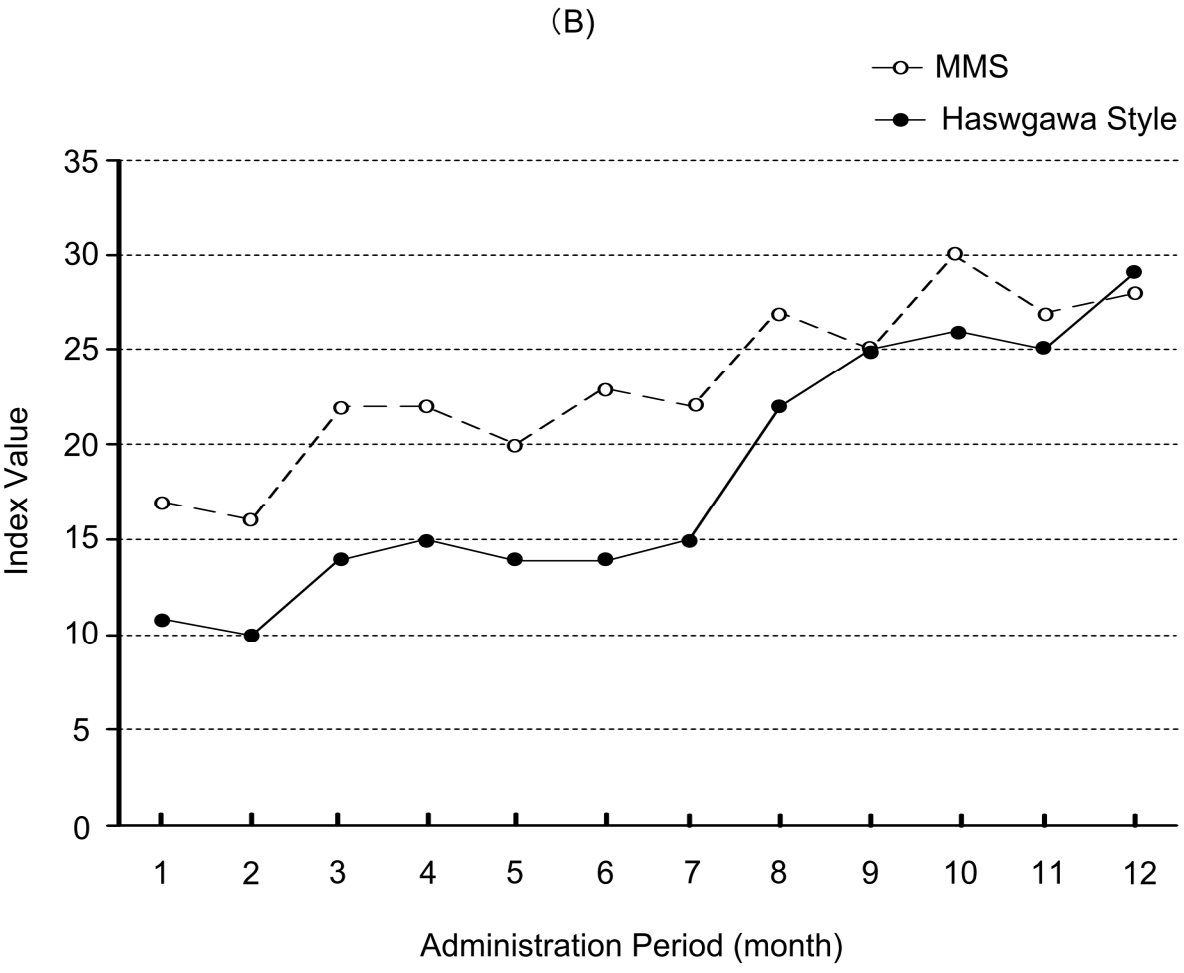

(B)
MMS
Haswgawa Style
Index Value
35
30
25
20
15
10
5
0
1
2
3
4
5
6
7
8
9
10
11
12
Administration Period (month)

Fig. 19

(A)



(B)

