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2012

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1.1	7
1.2	8
1.3	9
1.4	11
1.5	12
1.6	13
1.7	(HASs).....	13
1.8	, CD44.....	15
1.9	17
1.10	21
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2.1	22
2.2	24
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2.3.3	30
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2.3.5	30
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2.3.7	31
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2.3.9	32
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2.3.11	33
2.3.12	33
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2.4	34
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3.1	37
3.2	38
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4.2	41
4.3	43
4.4	52
	55
5.1	55
	56
6.1	56
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7.1	58
7.2	59

8.1	61
	61
	63
9.1	63
9.2	67
	68
	70
	71

(FDA)

6

30

10

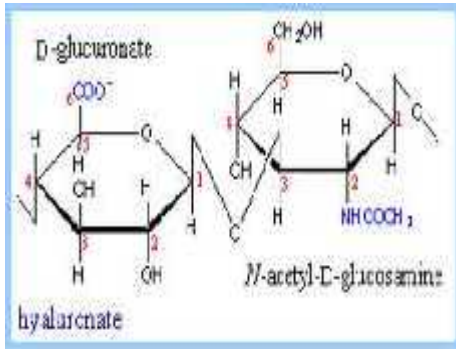
40

18-20

1.000

20

1.3 μ



(-acetylglucosamine)
(D-glucuronicacid).

- 4 -6.
μ (1)

- μ (,)

μ μ μ . μ μ μ (18)

μ μ μ -1,4 -1,3 μ μ (μ 25.000)
μ μ μ 1.500.000 μ 4.000.000 μ μ μ daltons μ μ μ ()

1000

6

0

(6.9 kDalton),
250,000 Daltons)

(1)

(hyaluronan

binding proteins, HABPs).

HABPs, RHAMM CD44,

(20)

(1-2 μ)

1.6

. μ μ μ .
 .
 , μ μ .
 , μ μ , μ μ .
 μ , μ , μ , μ , μ μ , μ μ .
 μ μ , μ μ , μ μ μ , μ μ , μ μ .
 μ μ , μ μ , μ μ .
 μ μ , μ μ , μ μ , μ μ , μ μ .
 250 μ g/ml , μ μ , μ μ , μ μ .
 μ μ , μ μ , μ μ , μ μ , μ μ .
 . μ μ , μ μ , μ μ , μ μ , μ μ , μ μ .
 μ μ , μ μ , μ μ . *in vivo* .
 .
 , μ , μ , μ , μ , μ , μ , μ , μ , μ , μ .
 .
 .
 . (21)

1.7

(HASs).

. μ μ μ μ , μ μ μ , μ μ , μ μ .
 . μ μ μ μ (GAGs) μ μ , μ μ Golgi,
 μ μ μ μ , μ μ .
 μ μ , μ μ , μ μ , μ μ , μ μ .
 μ μ , μ μ , μ μ , μ μ , μ μ , μ μ .
 nodC Rhizobium. Xenopus DG42 μ μ μ .
 μ μ , μ μ , μ μ , μ μ , μ μ .
 . (20)

1.8 , CD44.

CD44 μ , μ , μ , μ μ , μ , μ , μ μ .(26-29)

CD44 (CD44s) 363 μ 37 kDa. μ , μ , μ μ .
 CD44 μ , μ μ μ .
 : μ μ (21 μ) (165 μ), (72
 μ), 85% μ
 (interspecies sequence homology). μ
 μ μ μ (85 μ) 35% μ
 μ μ (variable) (410 μ) 65%

CD44 11p13 μ μ . μ μ
 1-5, 16-18 20, μ μ
 mRNA standard (CD44s). (30)

v1- v10) μ 6-15 (μ μ μ μ
 5 16 standard μ μ μ
 6-15 (v1-v10) CD44v μ μ μ
 μ μ (alternative splicing) μ μ μ
 1000 μ CD44. μ μ μ μ
 standard μ μ μ
 .(31) 18, 19 20. μ μ
 18 100% μ μ

- 1-5 μ μ 85% . μ μ
 μ μ μ

) μ μ μ μ 100 μ (CLP
 (Cartilage Link Protein).
 μ μ μ μ 6-15 (v1-v10), μ
 .(32)
 μ μ CD44 : μ
 2 5.
 μ μ CD44
 μ μ CD44 μ μ , μ μ .
 μ μ μ μ μ μ .
 μ .(33,34)
 - - 5.
 μ . ,
 μ CD44 μ μ μ
 CD44 μ μ , μ μ
 .(35)
 CD44 μ μ () , μ μ μ ,
 CD44 , μ , μ μ μ ,
 v3, μ μ μ
 b-FGF HB-EGF. CD44 μ μ μ
 HER-2 , μ EGF μ
 , μ .(36)
 CD44 μ μ , μ μ , CD44
 μ μ μ μ μ MMP-1
 μ μ CD44 μ μ μ μ
 ERM (ezrin, radixin moesin), μ μ
 μ , CD44s, μ μ , CD44 ,
 μ μ 13-15 (v8-v10).
 μ CD44v,

μ , μ , μ , μ (37)
 μ (v1 - v10), μ μ μ 10 (μ) μ 9 (μ) μ
 μ , μ , μ μ μ CD44 (CD44v)
 μ , μ , μ μ μ 5
 μ 16 (CD44) (μ μ 12) $\mu\mu$ μ μ CD44s,
 μ μ μ μ μ μ
 μ , μ μ μ μ μ
 μ μ μ μ μ μ CD44,
 μ μ μ μ μ μ .(26-29)

1.9 μ μ μ .
 μ ,) :) μ
 μ 10-20% μ μ μ ,
 μ 90%. μ μ μ
 200.000 daltons, μ μ μ 700.000
 daltons . μ μ μ
 μ μ : μ μ ,
 μ , (μ) . μ μ ,
 μ μ μ μ μ ,
 μ μ μ μ μ μ ,
 μ Hylan A, μ μ μ μ ,
 μ Hylan B (μ) . μ μ μ μ μ μ μ
 μ 20% Hylan 80% Hylan A μ μ μ
 μ Hylan GF-20 (SYNVISC
 EUFLEXXA). Chevalier X, Jerosch J, Goupille P et al. μ
 2010 μ -

Hylan G-F 20

μ

. (42)

μ

Hyaluronan, HPH).

(Highly Purified

μ

μ μ

(Silica Gel),

μ

(
)

μ

1800-2000 kDaltons

2400 - 3600 kDaltons. (43)

μ

μ

μ μ

μ μ

μ

μ

μ

μ

. (2)

μ

μ

μ

μ

Streptococcus equi

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

butanediol diglycidyl ether, divinyl sulfone,
diglycidyl ether

bis carbodiimide.

Butanediol

μ

μ

μ

μ

μ

μ

.(39)

μ

μ

μ

μ

μ

μ

μ

μ

spray

μ

μ

μ μ

μ

μ

mg/ml. 2004 FDA

μ

: Hylaform Fine

Line, Hylaform Hylaform Plus.(41)

μ Restylane μ μ

(Nasha Gel). μ μ

(S. Equi S. zooepidemicus).

Q-MED (Upsala, Sweden). FDA 2003.

20 mg/ml. μ

: Restylane Touch (Fine Line), Restylane, Perlane Restylane

SubQ. μ μ μ ml.

Juvederm μ μ

LEA Derm (Paris,France). Juvederm

24mg/ml,

FDA 2006. Juvederm Juvederm 18,

Juvederm 24 Juvederm 30. Juvederm 18 μ

() μ , Juvederm

24 μ μ μ , μ

Juvederm 30 ,

μ .(41)

μ μ μ :

1) Hylaform (5,5 mg/ml) Hylaform Fine Line
Hylaform Plus
Hylaform

2) Restylane (20 mg/ml) Restylane Touch (Fine Line)
Restylane
Perlance
SubQ

3) Juvederm Juvederm 18,24.30

4) AcHyal (μ 1%)

5)Hylan Rofilan Gel (, μ) μ

μ μ)

6) Teosyal 27G, 30G, Meso

7) Surgiderm 18, 30, 24 XP, 30 XP

8) Captique

DERMALIVE.DERMADEEP:

μ
μ :



1. _____ « _____ »: μ , μ μ μ



2. _____ :
μ μ μ μ , μ ,
μ μ . μ μ . μ , μ .
μ μ . μ



3. _____ μ μ μ μ "μ μ":
μ μ μ μ . μ μ μ
"μ " μ μ μ μ μ μ μ μ μ μ

μ μ

.(53)

2.3.2

μ



μ

1 ml.

μ

μ

μ

μ

μ

μ

μ

μ

« μ »

μ

μμ

μ . (4)

μ - μ (serial puncture

)

)) μ

(linear threading) .

μ

100%

μ

μ

μ

60%

4

μ

μ

μ

30 min

150 U/ml.

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

24-48

μ
μ μ

μ make-up.

μ μ

μ , , μ ,

2.3.3

μ

μ

μ . μ μ
μ 6-12 μ .
μ

μ

μ μ , μ μ , μ

μ μ 8-10 μ ,

μ μ 6-8 μ . 12 μ

μ .

μ μ μ

μ μ μ
μ

.(6)

2.3.4

.

μ .

μ

2.3.5

.

μ μ
μ

.

μ μ μ
μ μ

μ

μ .

μ

laser, Goldman
 (IPL)
 laser, 36
 laser, RF, IPL 1320-nm Nd:YAG laser, 1450-nm
 laser, 0, 14 56 28
 laser, 14 laser, RF IPL.(55)

2.3.9

10-12
 1-2

2.3.10

botox, laser
 .(4)



μ

3.1

μ .

μ , μ μ . μ :

μ μ , μ μ :

μ , μ , μ ,

μ , μ , μ ,

μ , μ , μ ,

μ , μ . μ ,

μ , μ . μ ,

μ , μ μ 50% μ , μ μ

μ μ μ . μ μ μ

μ μ μ . : μ 7-8gr

2 μ 4mg/ml. (2) μ 0.5 mg/ml μ

μ . μ μ μ 1/3 μ μ

μ . μ μ μ 40 μ μ 50%

μ . A μ , μ μ 10%

μ , μ μ μ . μ , μ

μ .



4.1

μ

μ (μ).
 μ ,
 μ .
 μ , μ μ μ μ
 μ , μ μ μ μ
 μ , μ μ μ μ , 20%
 μ μ μ μ μ

2,5-3,5 mg/ml.

μ . μ μ ,
 μ . μ μ ,
 μ .

1967

μ 1997 , FDA.

μ , μ 6 μ , 495 μ μ
 μ μ , μ 100 μ .
 μ 68% μ μ

1000 mg

2006

Cochrane Library

μ μ 6 μ .
 μ μ μ

μ μ μ μ
 μ μ μ μ

. (1)

5 2ml μ μ μ , μ
 , Fidia, μ μ .
 μ . , μ , ,
 2008, μ μ μ , ,
 Lundsgaard C., μ , μ 5
 2ml, , (44)
 μ
) , μ (μ
 μ 12 μ
 6 μ μ
 Brookmeier SF Shaffer BS 2006
 μ 6 μ .(45) , μ
 3 , 4 ml, ,
 2ml, , μ Hyalart 3 2ml
 Fidia μ , 12 2ml (46)
 μ μ
 μ μ ()
 , μ , μ ,
 , μ , μ ,
 μ (μ -
).
 μ 6-12 μ
 . (9)
 μ μ
 , μ μ μ μ μ μ μ μ
 μ , μ μ μ , μ
 . μ μ μ μ μ μ μ
 . μ μ μ μ μ μ , μ ,
 μ μ μ μ μ μ μ μ , μ ,
 (μ),
 μ μ μ μ μ μ μ μ μ μ .
 . μ



G23X30mm.(43)

(Chondromalacia Patellae)

12-40

(Plica Syndrome)

5 2ml

.(47)

G23 X 30mm..

3 Amps 2ml

Robert Salk

(2006).

1 cm

2007,

(nvironmental Management Accounting)

«Hylan GF-20»

.(48)

μ (μ 1
 μ , Hallux rigidus):
 μ , μ , μ - .
 1 Amp μ ½ mp μ 3 μ .
 μ μ - , μ μ 1
 μ μ μ (Hallux Rigidus)
 μ μ .
 2ml μ μ μ Amp
 μ μ μ 5 min.
 μ μ μ “, baboo”.(43)



μ (μ): H
 μ μ μ , μ
 μ , μ μ μ , μ μ
 μ μ μ μ μ μ
 3-5 Amps Sodium Hyaluronate 2ml
 G23 X 30mm.
 Silverstein E, Leger R, Shea KP. μ μ μ (49).
 Blaine T, Moskowitz R, Udell J et al. 2008 μ μ
 μ μ μ μ μ (50) , 2010, μ μ
 μ μ μ μ μ .
 : μ 1cm μ μ μ
 μ μ 2cm.(43)
 Syndrome): μ μ μ (Impingement μ

(2005) .(43)
G23 X 30mm
3 Amps Sodium Hyaluronate.

(Frozen Shoulder): **(Adhesive Capsulitis)** -
12-24
1993 Neviaser

3 Amps Sodium Hyaluronate 2ml
15-30
. (43)

26G-30mm
2 Amps 2 ml.(43)

« » .
 ,
 μ
 μ “
 bamboo” μ 1ml
 23G μ 1 2
 ml μ
 , μ .(43)



μ
 (Stenosing
 tendonsynovitis of flexor tendons of
 fingers, trigger finger),
 ,

μ
 μ
 μ « μ » A2 Pulley (μ) μ
 « »
 Trigger Finger (“
 ”).
 μ . μ
 70% μ
 Sodium Hyaluronate μ 23 G-30mm. μ 1-2 ml
 10%.(43)

μ
 (Stenosing tendonsynovitis of Anterior Tibialis tendon)
 μ (« μ ») μ ,
 μ μ , μ «
 » . μ μ ,
 μ μ μ
 μ 30 μ . μ 2005
 2-3 Amps
 2ml μ μ μ

6) : lastex, .

7) : μ μ Lidocaine 2% - Vials 50ml.

Lidocaine μ 2ml, μ 1 ml.

μ μ μ μ Adrenaline Amp ,

Adrenaline Anapen Amp μ Dimetindene (Amp Fenistil)
500mg. μ Solu-Cortef Solu-Medrol 250mg

μ μ μ μ

8) : μ μ , μ 2,5ml.

30mm. μ , μ μ μ 23G-

μ 21G-60mm. μ μ μ
μ 26G-10mm. μ μ 23G-30mm

(Contaminated Sharps Container). μ μ

9) μ : μ μ Acenocoumarol (Sintrom), Aspirin, Salospir,
Clopidogrel (Iscover, Plavix),

μ .

10) : μ μ

μ 1-2 μ « » μ

11) : μ μ 5 Amps μ 2ml,
μ 3 Amps 2ml, μ 2-3 Amps 2ml,
μ 0,5-2 ml.

μ (once per day, OPD use) μ 6-
12 μ μ .

12)

μ μ

:

.

μ

Hansaplast

24

μ .

7.2

μ μ

.

μ μ

Yuzurihara

μ

μ

»,

«

μ

μ

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μ

μ

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μ

μ

μ

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μ

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2000

Dr. Moskowitz

Case Western Reserve

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C.

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μ

μ

μ

.

μ

μ

μ

μ

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μ

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μ

μ

,

μ

μ

μ

. (7)

μ

μ

μ

μ

μ

μ

μ

μ

μ

μ

,

μ

,

μ

μ

μ

μ

μ

.

:

μ

μ

,

.

9.1

μ μ μ μ ,
μ . μ μ μ

μ μ
μ .



μ μ
μ μ μ ,

μ ,

μ :

• μ : 2 μ . 30

• μ μ : μ μ
μ , μ . μ

• μ : μ μ .

• μ μ μ (μ) : μ μ , μ
μ μ μ . μ , μ .
μ μ μ . μ make up.

• μ μ μ : μ μ « μ »
μ μ μ . μ

μ μ μ Hylaform μ μ μ , Hylaform
 μ 8 μ μ μ μ μ
 μ μ μ μ 48 , 1 μ μ 4
 μ μ μ μ μ 1 μ
 μ μ μ μ (57) μ μ ,
 Hylaform IgG IgE Restylane
 μ μ μ μ μ
 (58) μ



2) μ : μ μ μ μ ,
 μ μ μ μ μ μ ,
 μ - μ μ μ μ μ μ μ μ μ μ (59)
 4% .

3) μ : μ μ μ μ μ
 μ μ , μ μ μ μ μ
 2 μ , μ μ μ μ μ μ μ
 (59)

4) μ : μ μ μ μ μ μ (μ μ μ) .
 μ μ μ μ μ μ μ μ μ , μ μ μ μ μ .

μ
μ , , μ μ .
μ μ , μ μ μ . μ μ

9.2

μ
μ μ μ . μ
μ , μ , μ μ μ , μ μ ,
μ μ μ μ μ , μ μ , μ μ μ ,
μ μ μ μ , μ , μ μ μ ,
μ μ μ , μ , μ μ μ , μ μ μ μ μ
μ μ , μ μ μ μ μ μ μ μ μ μ .(8) μ

, μ ,
μ μ , μ μ μ μ μ , μ
μ μ . μ μ

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μ μ , 2011, www.greekorthopaedic.gr. 17
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Symmetria. (31 , 2011). μ μ
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20. μμ
μ - , , 114-116, 117-118, 138-140
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