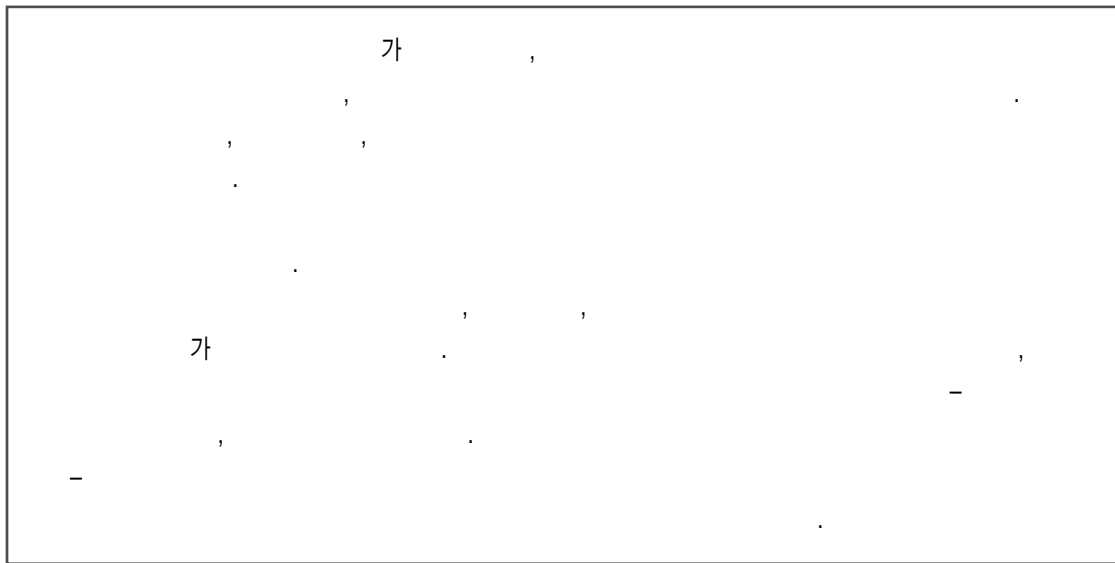


ICT Trends and Implications in Healthcare Sector

柳時菀



1. 가

(ICT: Information and communication technology)

(information intensity)가

가 50
가

2.

9가 , , 2004
 “ (emerging technologies) ”
 12가 (1).
 가 , ,
 가 , , 2004
 가 , ,
 , 1999 2002
 가 가 가
 “ Healthcare Informatics ”
 2 .
 1) 1999
 . 1999 2003 “9가
 (nine tech trends) ” 1999 2000(Y2K)

가
21
9가

3) 2001

2001 1999 2000
, 2000

(Internet), (continuous
speech recognition), (wireless
computing), (security),
(network computing and thin clients),
(components and object
technology), (telemedicine),
(data warehouse),
(enterprisewide computing) 9가

2) 2000

2000 e-
, 1999

4) 2002

2002

(ASPs: Application Service
Providers),
가 (XML:
Extensible Markup Language),
(SCM: Supply Chain Management),
(workflow automation),
(interactive technology), (AI:
Artificial Intelligence), (convergence)

(ASP), (SCM),
(integration),
(disease management), (CRM:
Customer Relationship Management)
가

(collaborative health records),

(CPOE: Computerized
Physician Order Entry), (integration
portals), (interactive
patient services), pervasive
computing)

(semantic web),
가 (smart
bandages), (contamination-
detection technology),
RFID(radio
frequency identification),
(intelligent agents), 가
3
(3-D computer imaging),
GPRS, UMTS,
(personal
monitoring network), (E-
mail protocol), (radiosurgery),
(smart card)

5) 2003

2003 1999 , 2001
, 2002

(national connectivity), (storage),
(transaction processing), (web
service)
가 가

(CPOE) 3. :

가 , 가

6) 2004

2004

. 2000

(IMIA: International Medical Informatics
Association) 1979
(working conference)
1988 , 1991 , 1994 , 2002 IMIA
10(working group 10)
(HIS: Health Information System)

1. (1999~2004)

1	(Internet)	1999
2	(continuous speech recognition)	1999
3	(wireless)	1999, 2000, 2001, 2003
4	(data security & recovery)	1999, 2000, 2001, 2002
5	(network computing)	1999
6	(object technology)	1999
7	(telemedicine), (telehealth)	1999, 2002
8	(data warehouse)	1999
9	(enterprise-wide computing)	1999
10	(ASPs: Application Service Providers)	2000, 2001
11	가 (XML: Extensible Markup Language)	2000
12	(SCM: Supply Chain Management)	2000, 2001
13	(workflow automation)	2000, 2001
14	(interactive technology)	2000
15	(AI: Artificial Intelligence)	2000, 2004
16	(convergence)	2000, 2001
17	(integration)	2001
18	(disease management)	2001, 2002, 2003
19	(CRM: Customer Relationship Management)	2001, 2002
20	(collaborative health records)	2002
21	(CPOE: Computerized Physician Order Entry)	2002, 2003
22	(integration portals)	2002
23	(interactive patient services)	2002
24	pervasive (pervasive computing)	2002
25	(biometrics)	2003
26	(handhelds)	2003
27	가 (national connectivity)	2003
28	(storage), (data storage)	2003, 2004
29	(transaction processing)	2003
30	(web service)	2003
31	(semantic web)	2004
32	(smart bandages)	2004
33	(contamination information)	2004
34	RFID(radio frequency identification)	2004
35	(intelligent agents)	2004
36	3 (3 - D computer imaging)	2004
37	(personal monitoring network)	2004
38	(E - mail protocol)	2004
39	(radiosurgery)	2004
40	(smart card)	2004

가 , 1991 HIS , (CPR: computerized patient records) , CPR

1) : 1979 1994 (regional-scale CPR) CPR

가 가 가 2002

1988 가

(2) .

()

2. "IMIA 10" (1999~2004)

1979	<ul style="list-style-type: none"> 가 가가
1988	<ul style="list-style-type: none">
1991	<ul style="list-style-type: none"> • HIS (CPR) HIS • CPR
1994	<ul style="list-style-type: none"> • (regional - scale CPR) • CPR
2002	<ul style="list-style-type: none"> • HIS • HIS 가 • HIS () HIS

2)

HL7

3)

1979

4가

가

가

HIS

가

가

가

가

가

(ROI)

가

가

가

가

2002

가

가

HIS

가 4)

가

가

가

25

HL7

(vertical

stovepipe model)

(

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가

가

가

가

(

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가

(PDAs),

(

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가

가

가

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4.

가

가

