

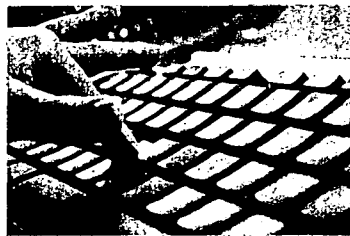


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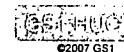
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HUG Standards Development Strategy

Version 1.1
13 Nov 06

Milestones	A1	26 Jul 06	Adopt existing GS1 Application Standards in Healthcare	B1	28 Feb 07	HUG Business Case for Packaging/Marking AIDC
	A2	31 Dec 07	GSMP: Prioritized AIDC Application Standards			
	S1	31 Oct 06	GSMP: GTIN Allocation Rules for Healthcare			
	S2	31 Mar 07	GSMP: Healthcare Business Data AutoID Standard			
	S3	30 Jun 07	GSMP: Healthcare Product Serialization Standard			
S4	30 Sep 07	GSMP: Healthcare Data Carrier/Scanning Standard				

2006

A1

2007

S1

B1

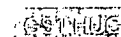
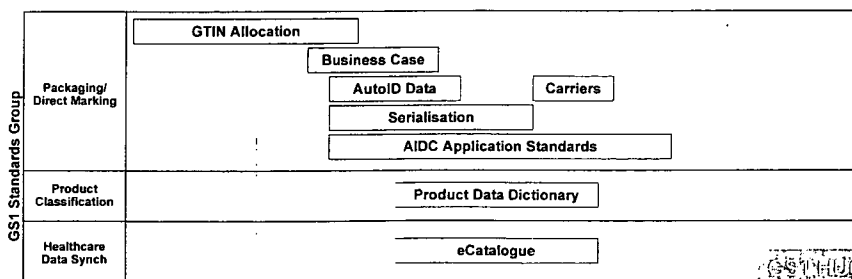
S2

S3

S4

A2

2008



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GS1ヘルスケアユーザーグループ(HUG)について

2007.3.23 訂正版
 流通システム開発センター

1. 経緯

1) 2005年5月、大手グローバルヘルスケア企業がボランティアでGS1の中にヘルスケアユーザーグループを結成

ミッション：患者の安全確保を目的としてヘルスケア業界で使用するための自動認識のグローバル標準を開発して普及させる

ビジョン：各国の関係官庁や業界団体が流通標準化について検討する際に頼られる唯一の相談窓口となる

目的：ヘルスケア分野の流通標準の開発、eビジネスの新技术の業界への啓蒙、GS1に対する助言、GS1標準の普及促進

2) 開催動向

2005年9月第1回HUG会議開催、以後2006年9月まで4回開催。年3回開催が基本。

	開催時期	開催場所	日本の参加企業
1	2005年9月	ブリュッセル	オリンパスメディカル、テルモ
2	2005年11月	プリンストン(米)	オリンパスメディカル、テルモ
3	2006年3月	ローマ	
4	2006年6月	ミネアポリス(米)	オリンパスメディカル
5	2006年9月	パリ	オリンパスメディカル
6	2007年2月	ベルリン	オリンパスメディカル
7	2007年6月	オランダ(米)	

2. 現在の組織・活動

4つのワーキングチーム(略称WT)が活動中

- ① オートIDデータWT……製品識別のためのビジネス要件、データ要件をまとめる
- ② GTIN付番ルールWT……商品識別コードGTINの付番ルール作成。原案が完了。
- ③ シリアライゼーションWT……医療機器や人体埋め込み器具自体の識別マーキングの検討
- ④ ビジネスケースWT……利用事例の収集・アウトプット(ミシガン州立大学協力)

現在のメンバーは、約40社、64名。

医薬品メーカー、医療機器メーカー、GS1各国組織が中心。各会議開催ごとにメンバーの変動あり。

医薬品メーカー	15	ファイザー、ジョンソン&ジョンソン・ファーマ、メルク、バクスター、アストラゼネカ、サノフィ・アベンティス、ノバルティス、ブリミール、セレシオ、ウエイ・バーマスケジュール、ユーテカル、GEODIS、セファロン、アムゲン、アンジオ・ダイナミックス、BVメッド、
医療機器メーカー	14	エースクラップ、ビー・ブラウン、スミス・メディカル、ボストン・サイエンティフィック、クック、メトロニック、タイコ・ヘルスケア、ポール・メディカル、アルコン・ラボラトリーズ、エドワーズ・ライフサイエンス、ホスピラ、ジョンソン&ジョンソン、テルモ、オリンパス・メディカル、
ITベンダー	3	IBM、SAP、オラクル
政府系機関	7	米国FDA、英国NHS、カナダPHSC(パーソナル・ヘルス・セーフティ・コンサルタンツ)、ニュージーランド厚生省、ドイツ厚生省、フランス厚生省、スペイン州政府
卸業者	2	米マッケソン、仏クラディ・メッド、
病院	2	仏ボンボドール総合病院、ジュネーブ大学病院
運送	1	DHL

団体	1	欧州ジェネリック医薬品協会、
合計	40	

GS1組織	15	本邦、米、英、仏、独、伊、スイス、日、スペイン、オーストリア、オーストラリア、カナダ、ハンガリー、アイルランド、オランダ、
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- 上記GS1の各国組織は希望すればNon-votingメンバーとして参加可能である。
 役割：上記ワーキングチームに参加してHUGの活動をサポート

3. HUGの活動と国内業界のGS1標準化の動向比較

WT	活動概要	国内業界の対応動向
オートIDデータWT	現在、医薬品へのバーコードによる製品識別に必要なデータ項目と必要理由について、日米欧からアンケート調査し、記入内容を精査中。国際電話会議に流通センターが参加。5月にデータ要件をまとめる予定。	医療機器業界(別紙参照) 1999年 医療機器業界GS1採用宣言 2000年 UCC/EAN-128 ガイドラインでGS1データ項目標準化。 2005年日本医療器材工業会GS1採用 2006年日本歯科商工協会GS1採用 2006年日本医用機器工業会GS1採用(鋼製用具への二次元シンボル採用)
GTIN付番ルールWT	医療用医薬品、医療機器、大衆薬についての付番ルールの原案作成済。 4月開催のGSMPで検討予定	① 医療用医薬品、医療機器ともにGS1付番ルールに対応可能 ② 大衆薬工業会での付番ルールの普及推進(流通SCM事業との連携必要)
シリアライゼーションWT	現在、医療機器や人体埋め込み器具自体の識別に必要なデータ項目と必要理由について、日米欧からアンケート調査し、記入内容を精査中。	日本からオリンパスメディカルシステムズ(株)が医療機器業界の代表として参加。
ビジネスケースWT	現行の医療業界でのGS1標準による事例を収集、編集中。	HUG会議で流通センターが進捗フォロー

30 January 2007

From 8:30 onwards: Registration

GS1 HUG™ Primer

9:00 – 11:30 Training Session on GS1 Standards – BarCodes, eCom, GDSN and EPCglobal, GS1 HUG™ Basics – Mission & Vision

BarCodes and eCom – David Buckley, GS1 Global Office

David Buckley is a 10 year veteran of GS1. In that time he has occupied various roles in the development and implementation support of GS1 standards. In his current role, Mr. Buckley's main responsibilities are focused on assisting GS1 Member Organisations with tools that support the consistent implementation of standards with particular emphasis on the GTIN Allocation Rules and Helpdesk web systems. Mr. Buckley also provides the secretariat to the ISO working group in the area of Bar Code data content.



Upon completion of his degree in Economics from the University of Loughborough, Mr. Buckley joined the graduate programme of the Xerox Corporation in the name of England. During this time he worked primarily on quality and product absorption. Xerox further supported his MBA studies which were awarded in 1994.

Within the HUG work programme, Mr. Buckley has provided GS1 Staff support to the Work Team on GTN Allocation Rules for Healthcare led by Mark Walchak (Pfizer) and Mark Hoyte (Tycos Healthcare) and the Bar Code Implementation in Healthcare Baseline survey.

GDSN – Rolf Stark, Sinfos

Rolf Stark holds a Diploma as Master of Business Administration at the University of Trier. After his studies, he was project manager for development and implementation of a computer aided sales information system for the Chamber of Commerce, Germany. In 1992 he joined Madatom, a joint venture of GS1 Germany (formerly Central für Co-Operation GmbH) as Project manager and G3. Panel Service, a world leading market research institute. Madatom provided scanner based P.D.S. data for market research purposes.



From 1997 to 2002 he was the Division Manager and Executive Board Member at GS1 Germany responsible for the SINFOS, the standard based master data pool. Since 2002 Rolf is Chief Executive Officer of SINFOS GmbH, a joint venture of GS1 Germany and Proinet NDM AG, a leading supply chain management service provider.

Since 1997 Rolf Stark attends to the interests of the German consumer goods industry in miscellaneous national and international standardisation bodies of GS1-UCC, ECR Europe and Global Commerce Initiative (GCI).

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Work Teams

Auto ID Data - Mark Walchak, Pfizer & Mark Hoyte, Tycos Healthcare (see HUG Work Team feedback session)

Serialisation - Stephen Hess, Merck (see HUG Work Team feedback session)

Regulatory - Jackie Elkin, Medtronic

Jackie has been working in the medical device sector for more than 18 years. Currently, Jackie holds the position of Regulatory Compliance Manager for Medtronic, Inc. Corporate Regulatory Compliance. Her responsibilities include the development and implementation of global policy and standards around Standard Product Identification for Medtronic products and services. In this role, she is also responsible for managing product identification applications and associated governance teams to ensure Medtronic distributed products are in compliance with established Corporate Quality and Regulatory Affairs Policy.



Jackie's responsibilities also include providing regulatory compliance leadership and consultation to project teams from various functional groups within the corporation in order to establish regulatory, quality and validation compliance for global business solutions and enterprise systems.

Prior to joining Medtronic, Jackie worked as a Sr. Paralegal in the Hospital Products Group of Pfizer, Inc. Her background includes managing product liability and patent litigation cases as Sr. Paralegal and then as a Litigation Support Manager.

Jackie has a Paralegal Degree and an IT Management Degree from Concordia University, St. Paul, Minnesota.

Support Team

Communication & Coordination - Jim Willmott, Smiths Medical

Jim Willmott is the Group Labeling Manager for Smiths Medical, a part of Smiths Group plc. His responsibilities include the development of, and ensuring compliance with, corporate identity guidelines for packaging, labeling and instructions for use, used by the manufacturing sites worldwide. This encompasses regulatory, legal and language requirements for all medical devices sold in all markets. In addition, Jim is also responsible for the labeling artwork creation, for key products lines sold in Japan, using primarily MAC computers and applications.



Jim joined Smiths Medical in June 2002, having previously worked for other leading medical device manufacturers in both Regulatory Affairs and Marketing positions. He was based in Germany and Japan before returning to the UK to join Smiths Medical. He is also a member of several committees and task forces within trade associations and standards authorities (e.g. ADNI, Eucomed, BSI & GSI).

11:30 – 12:00 Registration and Lunch

12:00 – 13:00 Lunch

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Ministry of Health Germany - Dr. Klaus Theo Schröder, State Secretary

Professional career:

Dr. Schröder's studies were followed by research, investigating issues relating to the use and effects of modern technologies, structural, research and innovation policies at the Comprehensive University of Duisburg, the Vienna University of Economics and Business Administration, the University of Trier and the Fraunhofer-Institut für Systemtechnik und Innovationsforschung in Karlsruhe.



Political career:
In November 1988 Dr. Schröder entered into (what was then) the Ministry for Labour, Health and Social Affairs of the region of Northrhine-Westphalia in Düsseldorf, various executive functions in the fields of, inter alia, labour market and structural change, children, youth, family affairs as well as basic and cross-cutting issues of social and health policy.

In December 1994 he became State Secretary at the Thuringian Ministry for Social Affairs and Health in Erfurt, a function in which he was successful in elaborating, inter alia, a new hospital plan and restructuring the Thuringian hospital landscape.

In December 1999 he became State Secretary at the Berlin Senate Administration for Labour, Social Affairs and Women, where he took on responsibility particularly for health policy, the stabilisation of health insurance funds and the reorganisation of the cities hospitals.

In December 2000 Dr. Schröder became a top executive at the Rhön-Klinikum AG, Bad Neuaufbold am der Saale, in charge of the management regions of Baden-Wuerttemberg, Hesse, Northrhine-Westphalia, in January 2001, State Secretary at the Federal Ministry of Health, in October 2002, State Secretary at the Federal Ministry of Health and Social Security and in November 2005, State Secretary at the Federal Ministry of Health.

GIRP (European Association of Pharmaceutical Full-Line Wholesaler) - Lothar Jenne, Chairman Technical Committee

In 1970 Lothar Jenne entered into the family business 'Max Jenne Arzneimittel-Großhandlung KG', a family-run medicine wholesale trade company based in Northern Germany, employing approx. 350 staff in 1977 he became Managing Director of the subsidiary Max Jenne GmbH. In 1980 he became a general partner of the Max Jenne Arzneimittel-Großhandlung KG.



From 1980 – 2005 Lothar Jenne was vice-chairman of the WGA (Trade Association for Wholesaler and Export Trades in Schleswig-Holstein), 1997 – 2006, chairman of the PHAIGRO (Federal Association of the Pharmaceutical Wholesaler Trade) and since 1998, chairman of the administrative board of IFA GmbH (Information Centre for Medicine) the nation-wide clearance centre for all national data on medicines and drugs. 2003 a member of the Executive Committee of GIRP - the European Association of Pharmaceutical Wholesalers. 2005 the chairman of the Technical Committee of GIRP, 2006 the chairman of the PHAIGRO Rationalisation member of the executive committee of the North German employers' association AGA.

14:30 – 15:00 Coffee break

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EPCglobal – Craig Alan Repec, GS1 Germany

Craig Alan Repec is Project Manager in the RFID/EPC Solutions division of GS1 Europe. Over the past five years, he has been involved in a range of international standardization projects for both EPC and GS1, with responsibilities including the coordination of German efforts within GS1's Global Standards Management Process (GSMP) and communications for GS1 Europe's European EPC Project (EEP).



Craig studied German at the College of the Holy Cross in Worcester, Massachusetts, including a year abroad at the Humboldt-Universität in Berlin, Germany. Thereafter he was assigned an English language teaching assistantship at a commercial academy in Vienna, Austria, by the Fulbright Commission. Following completion of Kerane Inc's Accelerated Software Development Program (ASDP), Craig worked as a Kerane consultant on diverse application management engagements in Boston and Washington DC for over two years. He then served as project manager with an internet technology start-up in Bonn, Germany, before joining GS1 Germany in 2001.

The HUG – Mission and Vision – Rich Hoflander, Pfizer

Rich Hoflander is Senior Director of Packaging Services for Pfizer Inc's Global Manufacturing group. His responsibilities include package design and development activities supporting the Animal Health, Consumer Healthcare and Human Health businesses as well as the development and implementation of global packaging strategies. Rich received his Bachelor's Degree in Mathematics from Rutgers University in 1985 and his Masters Degree in Industrial Engineering from the Georgia Institute of Technology in 1987. He worked as a consultant with Andersen Consulting from 1988 until 1996 focusing on manufacturing information management systems. He joined Pfizer in 1990 as an Industrial Engineer and in 1992 became Manager of Packaging Engineering. Since then Rich's responsibilities have grown to include all areas of package design and development for Pfizer. Outside of Pfizer Rich has been an active leader on various committees, work groups and task groups aimed at addressing issues within pharmaceutical packaging. Rich currently co-chairs the GS1 Global Healthcare User Group and is the former chair of the Product Quality Research Institute's Packaging Work Group, USP Project Team for Packaging, Storage and Distribution, Institute of Packaging Professional's Drug and Pharmaceutical Packaging Committee and PhRMA's Packaging Work Group. He continues to be an active member on all of these work groups.



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13:00 Opening and Introduction

Welcome by GS1 GO - Miguel Lopera, GS1 Global Office, Belgium

Miguel A. Lopera is President and Chief Executive Officer of GS1 (formerly known as EAN International) since April 2003. To add to his responsibilities, he was appointed Chief Executive Officer on 1st January 2004 of GS1 US (formerly known as the Uniform Code Council - UCC), the US based counterpart and joint owner with EAN International of the global EAN UCC standards system.



Mr. Lopera, a Spanish national, brings to both organizations a wealth of division management, marketing and IT experience gained in every aspect of the FMCG business having spent 24 years with Procter and Gamble. Joining P&G as an IT analyst in 1978, he became IT Director of P&G Spain and later IT Director of P&G UK, Ireland and Scandinavia. In 1992, he changed careers to Marketing, becoming Marketing Director of Laundry Detergents, Europe, in Brussels, Marketing Director of Fabric & Home care in Spain and later responsible for the Fabric & Home Care and Food & Beverages Divisions of P&G Iberia (Spain and Portugal) based in Madrid. His major expertise has been in the areas of new brands introduction and European pricing.

Mr. Lopera is an early developer, strong believer of Collaborative Commerce between Manufacturers and Retailers. He created a Collaboration Program between key retailers such as Mercadona, Carrefour, Auchan and P&G Spain back in 1984, based on multinational teams, something unique at that time.

Miguel is an Engineer, Specialist of Electronics and Telecommunications (E.T.S.I.T. of Madrid) and MBA for the Instituto de Empresa (Madrid).

Welcome GS1 Germany - Jörg Pretzel, GS1 Germany

Jörg Pretzel became CEO of GS1 Germany (formerly CCG) in 2003 and Chairman of GS1 Europe in 2005. Prior to joining GS1 Germany, Jörg Pretzel had a managing position at Herlitz PBS AG and Livex GmbH. Between 1981 and 1996, Jörg Pretzel served as CEO for Central Europe and Vice President of Sales at A.C. Nielsen. Jörg Pretzel graduated in Business Management at the University of Münster.



Greeting - Jürgen Volkopf, B. Braun

Jürgen Volkopf joined B. Braun in 1990 after studying business administration and mechanical engineering at Technical University Darmstadt, Germany. The first years he worked as project engineer on various topics such as customer service reorganization, master production scheduling, early e-commerce projects and also took part in a bar coding working group of EU/COMED.



In 1994 he moved over to controlling and started building up the B. Braun Group management reporting systems. In 1995 he became Senior Vice President Controlling and business administration.

Since 2002 he is the first globally responsible logistic manager of B. Braun as Senior Vice President Logistic and Supply Chain. He is responsible for all logistic operations of the B. Braun Group and coordinates the supply chain activities of all B. Braun Divisions. In dual roles he is responsible for the Supply Chain Management of the largest division, Hospital Care. In this position he takes care of the global master scheduling, inventory, delivery performance and strategic purchasing of Hospital Care.

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ADKA, Association of Hospital Pharmacists Germany - Dr. Werner Kittlaus

Dr. Hans Werner Kittlaus is chairman of the committee for drug packaging of the Bundesverbandes Deutscher Krankenhausapotheker (ADKA) (German Association of Hospital Pharmacists).



After graduating in pharmacy at the University of Munich he obtained his PhD at the Max-Planck-Institute for Biochemistry. He first worked at the Munich University hospital pharmacy before taking on the lead in the central pharmacy of the hospitals in the Munich region.

Dr. Kittlaus received the Loach-Innovation-Prize for his developments in the field of safe cytotoxic-containers and in regularly speaking on the topic of 'Packaging and identification of drugs as well as patient safety, prevention of medical errors and protection of patients and staff'.

SPAIN – Projects of the Regional Healthcare Services Areas of Andalusia, Galicia and Catalonia - Jesus Gavira, Sub Director Purchase and Logistics, Andalusia

Mentvel Serra Sant, Purchase and Distribution Policy Manager and Carme Casanovas Gerill, Purchase Assistant Manager, Catalonia

Mentvel Serra has a degree in Medicine and Surgery and in Economic Sciences. She has over 17 years experience in Financial Management in some of the 8 Hospitals of the Institut Català de la Salut. Moreover, she was Financial Manager of Bellvitge Hospital, as well as Financial Manager of the Research and Investigation Foundation of Bellvitge (IDIBELL) for 9 years.



Currently, Mentvel Serra is Purchase Manager of the Institut Català de la Salut and her responsibilities include investment, purchase for all Catalan Primary Healthcare and the 8 public hospitals of this institution, reducing costs, negotiating of products as well as product identification and providing all services required for Healthcare.

In addition, she is also a Member of the Designing Core Team, mainly in charge of the economic aspects of the SAP project.

Carme Casanovas has a degree in Medicine and Surgery. She has been working for 25 years in the Public Health System, specifically in the economic and medical area. She was Purchase Manager for nine years in the Traumatology and Rehabilitation Hospital in La Vall d'Hebron. At the same time, and from 1994, she became the Chief of the Outpatients Area in this hospital.



In 1989 she was nominated Logistics Assistant Manager and Administrative Contractor at Bellvitge Hospital, being mainly responsible for the purchase and logistics management and budget's control. During this period, she also took part in the Board of Directors among other functions.

Currently, she is Purchase Assistant Manager of the Institut Català de la Salut, coordinating inventory, purchase and logistics. Furthermore, she is a member of the team that is in charge of implementing the SAP project.

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Benjamin Rodriguez has a degree in Industrial Engineering and is the Economic Resources Sub-director of the Ourense Hospital Complex (a hospital with more than a thousand beds) and the Logistics Innovation Project Manager of SERGAS. Benjamin has been working with the Automatic Identification and EDI technologies and has participated in many conferences for Logistics in the Health Field. He has been awarded with the 10th National Prize for Health Administration. He is the Management Innovation in the Supply Chain and is professor for the Public Foundation of Galicia Health Administration in the Purchase and Logistics in Health Area. His previous jobs include: Technical Director of a water packet company, Supply Chain Chief Executive of the care factory Citroen and Purchase Chief Executive of the Ourense Hospital Complex.



CHINA: The New Regulations for Medical Devices – Zexia Huang, GS1 China

Zexia Huang has worked at GS1 China (the Article Numbering Center of China) for 11 years since she graduated in 1995. She did research work on Supply Chain Management and has been involved in developing National Standards on Management and bar coding, based on GS1 and ISO standards. She was Deputy Director of Member Services, she is responsible for designing and maintaining member service system as well as developing training courses and organizing training programs for member companies and the staff of GS1 China. Currently, Zexia is on loan from GS1 China and working and training at the GS1 Global Office in Brussels on Traceability, Healthcare and GPC. With a bachelor degree in International Enterprise Management, she received a Master degree on Project Management before she moved to Brussels in January 2005.



Ed Dzwil is Manager Package Technology for the Global Pharmaceutical Supply Group since March 2006. GPSG provides supply chain management to Johnson & Johnson's Pharmaceutical sales and marketing companies, Ortho-McNeil Pharmaceuticals Inc, Piccola, Ortho Women's Health and Urology, Janssen-Cro-McNeil Primary Care, Ortho-McNeil Neurologics, Alza, Tibolet, Ortho Neurologics, Vialation Pharmaceuticals, and Ortho Biologics. His responsibilities include discovery and evaluation of new package design and development activities as well as involvement in global packaging initiatives in Mass Serialization, RFID, Anti-Counterfeiting, and Digital Printing.



Dr. Hugh Lockhart holds B.S. and M.S. degrees in Packaging, and a PhD in Forestry Products. He has taught packaging courses and conducted research at the School of Packaging since 1977. Prior to 1977, Hugh worked for seven years as Manager of Packaging Technical Services at Parke, Davis and Company in Detroit, Michigan.



Since 1977 Hugh has taught courses in Pharmaceutical and Medical Device Packaging and Packaging Laws and Regulations. He has conducted research in several areas important to medical packaging. Among them are dissolution shelf life of solid oral drugs, refrigerated (cold) shipment of drugs, torque behavior of GCT container-closure systems, legibility of package labels, and tamper evident packages. He has also conducted research in medical device packaging related to the seal strength and seal integrity of sterile packages. In 2002 Hugh was the coordinator of the Drug Master File Workshop sponsored by the School of Packaging in Washington, D.C.

Hugh is a member of national research and testing committees, related to medical packaging. They include: ASTM Committees D-10 on Packaging and F-2 on Flexible Barrier Materials and the Packaging Working Group of the Product Quality Research Institute (PQRI), which is a national group of academic, government and industry experts in packaging of pharmaceuticals. Hugh served from 1995 to 2005 as a member of The USP Expert Committee on Packaging, Storage and Distribution.

10:00 Meeting closure

10:30 Networking Night

31 January 2007

08:00 – 09:30 Coffee

Unit Dose Requirements

Hospital Tilburg, Netherlands – Albert W. Lenderink

Albert Lenderink studied pharmacy at the University of Leiden from 1974 to 1982. He then worked at the Ziekenhuisapothek Midden-Brabant as a hospital pharmacist from 1982 to 1984, hospital pharmacist from 1984 – 1990 and then as the Director of pharmacy from 1990.



The Ziekenhuisapothek Midden-Brabant is responsible for the drug distribution of the following institutions: Integraal Ziekenhuis De Vliet, Oudekerk, St. Elizabeth Ziekenhuis, Tilburg, GGZ Midden-Brabant, Tilburg, Dongen & Waasland, Krasniehoel De Meiboom, Tilburg, Revakade Centrum, Leypark, Tilburg, TweeSteden ziekenhuis, Tilburg, TweeSteden ziekenhuis, Waasland, Verpleeghuis St. Elisabeth, Goirle, Stichting De Runne, Goirle, Verpleeghuis de Volckaert, Dongen, Dr. Bernard Verbeeten Instituut, Tilburg, De vier vingers, a Heterogenoosch and Bergland Klink, Tilburg.

Hospital Forli, Italy – Martina Minguzzi and Sitena Sistu

Martina Minguzzi is Director of the Inter-Health Board Project of Oncological Pharmacy and Radiopharmacy for Forli Health Board and IRSI (Istituto Scientifico Romagna per lo Studio e la Cura dei Tumori), Meldola, also co-ordinating the same sector for the entire area of Romagna.



After having graduated in Pharmacy from the University of Bologna she obtained a PhD in Oncological Pharmacy from the University of Milan in 2002. She first worked as a Pharmacist in Santa Maria delle Croci Hospital in Ravenna and, up to 1989, chief of the Pharmacy Department of Ravenna Health Board. From 2002 to 2004, Ms Minguzzi was the Co-ordinator of the Pharmacy Programme of Forli Health Board.

Sitena Sistu is Head of the Information and Communications Technology Unit of Forli Health and Social Services (Azienda USL di Forli).



Ms Sistu holds a Degree in Electrical Engineering from the University of Bologna and a Post-graduate course in Information Systems Analysis organized by the Region of Emilia Romagna. She previously worked as Head of the Data Processing Unit of the Urban Water Consortium for the provinces of Forli and Ravenna (now Romagna Acque S.p.A.) and Programme Analyst in the Information Systems Department of Rimini Borough Council.

Ms Sistu was co-author for the theses "Principles and innovative applications in hospital logistics: unitary drug doses" (2004) and "Computerized management of sensitive personal information in the public health sector" (2006), Bologna University.

University Hospital Geneva, Switzerland – Dr. Pascal Bonnabry

Since 2000, Dr Pascal Bonnabry is chief pharmacist of the Geneva University hospitals (Switzerland). He is head of the information systems resort of the Swiss Society of Public Health Administration and Hospital Pharmacists (GSASB). Dr Bonnabry studied at the Geneva University and obtained his pharmacist diploma in 1992. He specialised in clinical pharmacology and obtained a PhD in 1996. Since 1996, he is active in hospital pharmacy. He teaches hospital pharmacy at the Geneva-Lausanne school of pharmacy and has the function of a chargé de cours. He organizes a three year post-graduate education in hospital pharmacy, in collaboration with the University and the Lausanne University hospital, since 1999. He has specialization titles in clinical pharmacology and hospital pharmacy.



Hospital Bruges, Belgium – Franke Meuleman

Franke Meuleman has over 30 years experience in the hospital pharmacy of Sint-Jan, Bruges and is responsible for automation. He is project leader pharmacy software (1996 – 2006) for Infos-INC – the Belgian standard for hospital pharmacy software (more than 70 hospitals). He is also responsible for the general product database, Infos-INC. Franke is supporting the use of bar codes at the VZA (Flemish organisation of hospital pharmacists) and an active user of e-commerce in collaboration with EDI-Health – the association of Belgian healthcare suppliers.



10:00 – 11:00 Coffee break

Hospital Wiener Krankenanstaltenverbundes (KAV), Austria – Dr. Wolfgang Gerold

Dr. Gerold is leading the pharmacy division of the Directorate General of the Wiener Krankenanstaltenverbund, Vienna, since 1990 and is also responsible for medical economics and pharmacy since 2007. Having studied pharmacy at the University of Vienna, he obtained his PhD at the same university at Prof. Dr. Heesach in 1986. He worked in hospital pharmacies and graduated additionally in Hospital Management.



Dr. Gerold is teaching at the University of Vienna and in the framework of the professional training of the Austrian Pharmaceutical Chamber and the Medical Chamber in Vienna. He was the founder and chief-editor of the trade magazine "Österreichische Krankenhauspharmazie" from 1987 – 1990 and member of the advisory board of the "European Hospital Pharmacy" until 2002. Dr. Gerold holds several positions at the Austrian Pharmaceutical Chamber and is author of the "Agreement-Schnellkennung" (a guide to quality and safety identity drug) since 1983.

RFID in Hospitals

University Hospital Jena, Germany - Dr. Michael Hartmann

Dr. Michael Hartmann has served as the Head of the Pharmacy Department at the Hospital of the Friedrich-Schiller-University, Jena, Germany, since 1995. Prior to this appointment, he held positions including Senior Staff Member in the Pharmacy Department at the Hospital of the Barmherzigen Brüder, Paderborn, Germany, and Research Fellow at the Harvard Medical School, Malman Research Center, Belmont, USA.



In addition to holding a degree in Pharmacy, Dr Hartmann has specialized in clinical and educational pharmacy and he has been awarded a Master Business and a Doctoral Degree. His areas of study and interest also include public health, economy for medical practice, and cost-effectiveness analysis for medical technologies and pharmaceuticals. He holds the vena legend for Health Economics and is teaching Health Economics, Public Health and Companion of Health Care Systems for medical student at the University of Jena.

Chelsea and Westminster Hospital London, UK – India Hardy

India Hardy is a pharmacist Project Manager within the UK's National Health Service. Responsibilities include the implementation of equivalent electronic prescribing and charting of medication using GE Healthcare's Lasword application. This projects pilot aims to incorporate the use of RFID by nursing staff for positive patient identification, at the patient's bedside, at the time of medication administration.



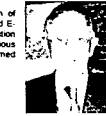
India studied a Bachelor of Pharmacy at the University of Sydney and holds an MRPharmS for practicing in the UK.

12:00 – 13:30 Lunch

HUG Cooperation Partner

Eucomed (The Voice of the Medical Technology Industry in Europe) - Mke Kreuzer, Chairman ETF

Michael Kreuzer is the Technical and Regulatory director of ABHI (Association of British Healthcare Industries). In addition, he is also the chairman of the Eucomed E-Health and Supply Chain Management Task Force (ETF) as well as the Association Secretaries Council, a role which brings him into close contact with the various National medical technology associations in Europe. The current focus of the Eucomed ETF group is bar coding and auto identification capture technologies.



e-Catalogue, Classification, GDSN

Comparatio Health (Purchasing Organisation of University Hospitals in Germany) – Dr. Frank Brüggenmann

Frank Brüggenmann has over 20 years experience in the healthcare industry. His complete hospital background reaches from his experience at the ward department and he work as a physician in surgery and orthopaedics as well as in IT and process optimization, consulting in various areas. Frank is currently working as the Managing Director of GSD and as a senior consultant for Comparatio Health GmbH. In addition to being a member of the GS1 Global Healthcare User Group, Frank is working with the University of Applied Sciences Faculty of Business Management and Social Sciences Healthcare Computing and Quantitative Methods in Osnabrück, Germany. His main focus is the standardization and optimization of logistics processes in hospitals.



His knowledge in informatics and healthcare processes is an ideal prerequisite to work on global standards regarding product identification and communication for the healthcare industry.

14:00 – 15:00 Coffee break

Global Data Synchronisation Network (GDSN) – Tom Werthwene, Johnson & Johnson Medical Devices

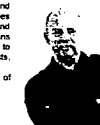
Tom Werthwene has over 25 years experience in the medical device industry. His background includes regulatory affairs, research & development and marketing.



Tom is currently with the Johnson & Johnson Global Supply Chain Group in addition to being a member of the GS1 Global Healthcare User Group. Tom is an active member of the AIM Global Healthcare Action Group, the EMPG Global Healthcare and Life Science Action Group, and the Health Industry Business Communications Council. Tom holds a B.A. from Penn State University.

Classification Systems In GS1 – Zoltan Patkai, GS1 Global Office

Zoltan Patkai has over twenty years experience in various fields of supply chain and information management with excellent references gained from Blue Chip companies such as Dow Chemical and Unilever, in a global market based in Belgium, UK and Hungary. He negotiated agreements, owned business processes, delivered solutions to complex problems ranging from strategy formulation to implementation helping to re-engineer processes and run companies to meet the new business requirements, with huge volume growth and changing customer needs. Zoltan joined GS1 in July 2003 and is responsible for leading the development of Global Product Classification methodology.



19:00 Evening event

1 February 2007

09:20 - 9:00 Coffee

HUG Work Team Feedback Session

Auto-ID Data – Mark Walschak, Pfizer and Mark Hoyte, Tyco Healthcare

Mark Walschak is Senior Manager of Global Packaging Technology at Pfizer. His areas of responsibilities includes areas of consumer health, human health and animal health. Mark is active in the bar coding, and anti-counterfeiting areas. Mark is also a member of the International Federation of Animal Health's Global Traceability Core Team.

Mark received his bachelors degree in Packaging Technology from Michigan State University in 1970, a Masters of Business Administration from Xavier University in 1976, and is currently completing course work for a Masters in Packaging Technology from Michigan State University.

Mark joined Pfizer in 2004 after having worked for 30 years in the healthcare and consumer goods area.



Mark Hoyte has a broad and varied experience across a number of industries but has concentrated within pharmaceutical and medical device manufacturing for the last 12 years. He is today focused with Tyco Healthcare as the leader for European Packaging.

Mark's growth in the industry follows an engineering path, especially in the area of new product and process introduction. In his present role he is responsible for global strategy development and implementation for product identification, complemented with a background in automation and controls.

Prior to joining Tyco Healthcare, at the beginning of 2005, Mark has worked as Process Development Group Manager for Ocular Sciences Inc., with key responsibilities for product launch of their daily disposable contact lens range. Prior to his six years with OSI he has worked as a Systems Validation Engineer for Glaxo, staying very involved with developing technologies and their introduction to the healthcare industry.



Serialization – Stephen Hess, Merck

Stephen Hess joined Merck in 1987 supporting the animal health packaging business. Since then he has worked in various Human health and vaccine packaging related positions including International and Domestic responsibilities. He is currently the Executive Director of packaging technology for Merck and Co., Inc.

Prior to joining Merck, Stephen worked at Purdue Pharma and Olin Chemical in packaging related functions. He graduated from Michigan State University with a BS in Packaging in 1980.



11:00 – 11:30 Coffee break

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HUGLITs (HUG Local Interest Teams):

Switzerland – Christian Hay, GS1 Switzerland

Christian was born in Zurich, Switzerland in 1954 and is married with 2 children. Christian has a track record of over 15 years in Healthcare and played a leading role in the implementation of the EAN UCC System (now GS1 System) in narcotics control in Switzerland, logistics between pharmaceutical companies and wholesalers and aspects of the new billing rule for Health insurance providers (TARMED). He worked for over 3 years for GS1 Europe, Switzerland and France - to address the specific standardization needs of the healthcare sector. Traceability and product pedigree are the key issues for patient safety. He is further involved in several hospital projects with bar codes and RFID, as support to enhance accuracy and reduce risks. He coaches some of these hospitals in the development of new process management.



Chile – Jose Luis San Juan, GS1 Chile

Jose Luis San Juan has taken responsibility in GS1 Chile for the identification Area, and from a few months ago he is involved in the preparation of work groups related to codification standards in different areas from the Chilean National market (Health [public and private], Retail, Export, etc.)

Jose has 8 years experience in SONDA S.A. (the largest IT company in South America), where he has designed and participated in the implementation and installation of technological solutions in more than 35 warehouses and more important centres of distribution in the country. From establishing client requirements, designing solutions, technical and economic proposals, he then provides detailed implementation.

Jose has previously worked in new technologies in 'Foundation Chile', through the sale and distribution of South American technological products of different types and origins. He was born in Spain and moved to Chile in 1994. He developed, for more than 10 years, substantial work in the School of Engineers of Mines of Madrid, through the investigation and development of technological products associated to the mining and other industries in general.



Australia-New Zealand – Ulrike Kreysa, GS1 Global Office on behalf of Mark Fuller, GS1 Australia



12:45 – 13:00 Discussion – Summary – Next steps – Date of Next Conference

13:00 Closure of meeting

13:00 – 14:00 Lunch

14:00 – 17:00 Visit to the Warehouse of Phoenix – a German Wholesaler LIMITED TO 50 PARTICIPANTS (currently all spaces taken)

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GS1 Activities

EPCglobal HLS BAG (Health Life Science Business Action Group) – Michael Rose, J&J and Ron Bone, McKesson

Mike Rose has worked for Johnson & Johnson for over 30 years. Mike was appointed Vice President, RFIDEPC Global Value Chain with responsibility for Johnson & Johnson's RFIDEPC strategy. Mike's key responsibilities include working with Johnson & Johnson's operating units and their customers to assess the impact of RFID on business processes, information and existing technology, overseeing J&J's RFID Incubator Fund to stimulate innovation through RFID, and Collaborating with industry associations, regulatory agencies and external standard setting organizations to establish the future direction of RFIDEPC.

Mike is a member of EPCglobal's Board of Governors. Mike is a tri-chair of EPCglobal's Healthcare and Life Sciences Business Action Group, and is member of EPCglobal's Business Steering Committee.

Prior to his current assignment, Mike was most recently the Chief Information Officer for Ortho Biotech. In his career, Mike has held various positions of responsibility across Information Management and Discovery Research.

Mike graduated from La Salle University with a BA in Biology, and received an MSE in Computer Science from the University of Pennsylvania.



EHI (European Healthcare Initiative) – Nicolas Florin, Chairman

Nicolas Florin is CEO of GS1 Switzerland since 1st July 2006. Prior to his current role he worked for over 10 years for the Galenica Group, a diversified Group active throughout the healthcare market, from manufacturer to retailer. Nicolas first worked as financial controller of the Wholesale subsidiary Galenica and after that as Business Development Manager and later on as General Manager of the Alltop Group, a European, Pre-wholesale company providing broad range of specialized logistics services to pharmaceutical manufacturers. In addition to his CEO role for GS1 Switzerland, Nicolas has become Chairman of EHI (European Healthcare Initiative) as of 1st January 2007.



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Component	ASSETS										LIABILITIES		NET POSITION		Notes
	Land	Buildings	Equipment	Other	Accounts Receivable	Prepaid Expenses	Other Assets	Accounts Payable	Other Liabilities	Other Liabilities	Total Assets	Total Liabilities	Total Net Position	Total Net Position	
...

Component	ASSETS										LIABILITIES		NET POSITION		Notes
	Land	Buildings	Equipment	Other	Accounts Receivable	Prepaid Expenses	Other Assets	Accounts Payable	Other Liabilities	Other Liabilities	Total Assets	Total Liabilities	Total Net Position	Total Net Position	
...

Component	ASSETS										LIABILITIES		NET POSITION		Notes
	Land	Buildings	Equipment	Other	Accounts Receivable	Prepaid Expenses	Other Assets	Accounts Payable	Other Liabilities	Other Liabilities	Total Assets	Total Liabilities	Total Net Position	Total Net Position	
...

Component	ASSETS										LIABILITIES		NET POSITION		Notes
	Land	Buildings	Equipment	Other	Accounts Receivable	Prepaid Expenses	Other Assets	Accounts Payable	Other Liabilities	Other Liabilities	Total Assets	Total Liabilities	Total Net Position	Total Net Position	
...

Term	Definition
Adverse events	Any event that happens along the pharmaceutical supply chain which is not desired or is a non-standard process.
AHA	American Hospital Association
Approved Healthcare Trade Item	Trade item identification at all level of packaging approved by the manufacturer/regulator for transport from the manufacturers releasing site to the end-user.
Authentication	
Chain of custody	
Cold Chain	
Container	Hard pack for trays
Control Number	Control Number (as defined by FDA) means any distinctive symbols, such as a distinctive combination of letters or numbers, or both, form which the history of the manufacturing, packaging, labeling, and distribution of a unit, lot, or batch of finished dev Control Numbers are used during the entire product lifecycle from manufacturing through distribution for purposes of identification, traceability and to facilitate corrective actions both internally and in the field (recall). Control Numbers are used during the entire product lifecycle from manufacturing through distribution for purposes of identification, traceability and to facilitate corrective actions both internally and in the field (recall).
COHH	Control of substances hazardous to health
Device Traceability	Trace = Quickly identify the technical source (e.g. which packaging line, time and date of packaging or release, etc.) and also identify the affected sublot (= time range) within packaging in order to find out about the "neighboring" instances (serial numbers)
Device Tracking	Track = Locate the "neighboring" instances within the supply chain to quickly withdraw them from the supply chain if necessary
EAHP	
EFPIA	European Federation of Pharmaceutical Industries and Associations
EPR	Electronic Patient Record
GIRP	
IFU	Instructions for use
Instrument	the item itself (means item No)
Kit (also see Set)	Combination of different regulated products.
Loan	Focus area : Processes regarding products which are loaned from supplier side
Macro	Focus area : Ordering, delivery, goods receipt, stock/asset management
Mandatory	Means that minimum one user described this as mandatory (could be a legal regulation). As a consequence this may not be considered as mandatory by all users.
Micro	Focus area : CSSD processes, operating theatre processes
Optional	Means that minimum one user described this as "nice to have", to optimise patient safety, process managements, quality, etc.
Pedigree	Record of the movement and change of control for an entity
Peel pack	one or a few instruments packed in a soft packs
Reagent	Substance used for test reference or calibration of equipment; solutions for invitro diagnostics
Recommended for process management	Not directly linked to patient safety, but necessary for appropriate process management
Re-processable	scalpe, hammer, endoscopes
Repair	Focus area : External repair processes
Reprocessed Single-Use Device	A reprocessed single use device is an original device that has previously been used on a patient and has been subjected to additional processing and manufacturing for the purpose of an additional single use on a patient.
Re-usable	wheel chair, cane
Set (also see Kit)	Combination of different regulated products.
Single-Use Device (SUD)	A device that is intended for one use or on a single patient during a single procedure.
Sterilization Event	
Trace	Quickly identify the technical source (e.g. which packaging line, time and date of packaging or release, etc.) and also identify the affected sublot (= time range) within packaging in order to find out about the "neighboring" instances (serial numbers)
Track	Locate the "neighboring" instances within the supply chain to quickly withdraw them from the supply chain if necessary
Tracked Device	It seems that there is not a single definition of tracked devices - rather it is defined both by what it means to be a tracked device and what devices are currently required to be tracked. More specifically, from FDA's standpoint, a tracked device is one could be packed in a soft or container way (equivalent : basket, corb)
Tray	
Unit level	The single implant (means lot number controlled)
vCJD	variant Creutzfeldt-Jakob disease
Vigilance	the person in charge of the product in the country or region has the ability to monitor performance or record complaints to determine if adverse affects are due to the product and to make decisions related to this study http://www.fda.gov/cdrh/comp/guidance/169.html

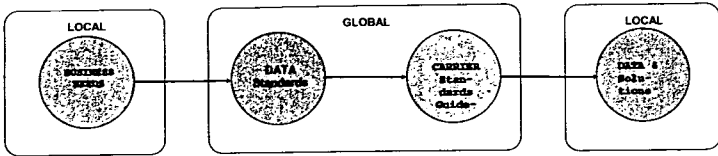
AS OF 21 March 2007

	closed	parking	delete		closed	parking	delete		closed	parking	delete					
1	X			34	X			64a	X			100	X			
2	X			35				65				X	101	X		
3	X			36	X			66				X	102		X	
4		X		37		X		67		X			103			X
5	X			38	X			68	X				104			X
6	X			39	X			69			X		104a	X		
7	X			40			X	70			X		104b	X		
8	X			41	X			71			X		105			X
9			X	42			X	72			X		106			X
10			X	43			X	73					107			X
11			X	44	X			74			X		108			X
12	X			45			X	75			X		109		X	X
13			X	46			X	76					110	X		
13a	X			47	X			77					111	X		
13b	X			48			X	78					112			X
13c	X			49	X			79					112A	X		
14		X		50	X			80			X		112B		X	
15	X			51		X		81			X		113		X	
16	X			52		X		82					114			
17	X			53		X		83			X		115			
18	X			54			X	84				X				
19	X			54a	X			85			X					
20		X		54b	X			86								
21		X		55			X	87								
22		X		56			X	88				X				
23				56a	X			89				X				
24				56b	X			90				X				
25			X	56c	X			91			X					
26			X	57	X			92	X							
27			X	58			X	93				X				
28	X			59			X	94				X				
29			X	60		X		95				X				
30			X	61		X		96				X				
31			X	62		X		97				X				
32	X			63		X		98				X				
33	X			64			X	99	X							

GS1 Healthcare Roadmaps

- Part 1. Data Standards
- Part 2. Carrier Standards & Guidelines
- Part 3. Data
- Part 4. Enabled Solutions

Conceptual Overview



Part 1. Data Standards

	From	To	GS1 Resource	User Resource	GS1 Participation	User Leaders	Deliverable
A I D C	4Q 06	1Q 07	0.75 FTE		GS1 MOs Scott Gray Tom Herst Ulrike Kreysa	Mark Hoyle (Tycos Healthcare) Mark Walchak (Pfizer)	Define data required for automatic identification, i.e. GTIN, serial number, lot number, expiration date
	4Q 06	2Q 07	0.75 FTE		GS1 MOs Scott Gray Tom Herst Ulrike Kreysa	Stephen Hies (Merck) Massimiliano Molinari (Johnson & Johnson)	Define serialization schema for healthcare products, with product traceability for patient safety as highest priority (how and where to use mass serialization for traceability)
	3Q 07	3Q 07	2 x 0.2 FTE	All Stakeholders asked to participate	BarCode EPCGlobal MOs	TBD	Identify the data carriers for healthcare product packaging and direct marking. Establish standards for carrier printing/marking/encoding, scanning/verifying/decoding and quality (where and when to use which barcode type like EAN-13, GS1-128, RSS, Data Matrix or RFID tags)

	From	To	GS1 Resource	User Resource	GS1 Participation	User Leaders	Deliverable
A I D C	2Q 07	4Q 07	0.25 FTE	2 x 0.2 FTE	GS1 (Business Unes and MOs)	TBD	Construct packaging/direct marking AIDC application standard(s) specific to appropriate product group or sub-industry requirements, with patient safety as the highest priority
T R A C H & A	1Q 06	1Q 06	0.5 FTE			John Howells (IDMA) Chuck Schenkel (EPCGlobal) HLS Co-Lead	Create the business requirements essential to delivering (a data carrier independent) track and trace forward and reverse logistics
T R A C	1Q 06	4Q 06			Traceability EPCGlobal	Dirk Rodgers (Carson's Health) Eli Perlman	Create a pedigree document specification and usage guidelines that provide a platform for the pharmaceutical supply chain to comply with the various state and federal pedigree laws

	From	To	GS1 Resource	User Resource	GS1 Participation	User Leaders	Deliverable
E	2Q 07	4Q 07	0.5 FTE	US team member to assist Global effort	e-Com Traceability	TBD	Create a pedigree document specification and usage guidelines that provide a platform for the healthcare supply chain to comply with a range of possible pedigree laws
	1Q 08	3Q 08	0.5 FTE	All Stakeholders	Traceability MOs	TBD	Standard for authentication of individual items, cases or pallets using a GS1 data structure
G S I	1Q 08	2Q 08	0.5 FTE	All Stakeholders	BarCode e-Com MOs	TBD	Definition of GLN usage in Healthcare Evaluate global GLN registry
K E Y	1Q 08	2Q 08	0.2 FTE	Participation by Hospitals and National Insurers	TBD	TBD	Assessment of GSRN, GLN or other possibilities for Personal ID Decision GLN or GSRN
	3Q 08	4Q 08	0.2 FTE	Hospitals and Instrument Mfg.	BarCode EPCGlobal MOs	TBD	Fixed Asset and Returnable Asset Standards Standards for usage off assets identifiers in healthcare

	From	To	GS1 Resource	User Resource	GS1 Participation	User Leaders	Deliverable
D A T A	1Q 09	4Q 09	1 FTE	All participants in Supply Chain	e-Com MOs	TBD	e-Com messages for healthcare to be used in supply chain processes
	1Q 08	2Q 08	1 FTE		Traceability EPC Global Network	Craig Asher (TBA) Richard Swan (3CI)	
	1Q 08	2Q 08	0.5 FTE	All participants in Supply Chain	Traceability EPC Global	T&T, DE JRG	

- Notes:
- All Standards to go through GSMP after the "TO" due date, approximate time for GSMP is 6 months
 - Each Quarter is 3 months: 1Q - 4Q = 12 months
 - For further information on each deliverable please refer to: Appendix B. Detailed Description of Deliverables

Part 2. Carrier Standards & Guidelines

	From	To	GS1 Resource	User Resource	GS1 Participation	User Leaders	Deliverable
		2Q 08					Final Approval of Application Standard in Healthcare
	2Q 06	3Q 07					EPCGlobal to support both: 100% UHF case/pallet, 80/20 HF/UHF at the item level
	1Q 06	3Q 07	0.5 FTE	ILT JRG	EPCGlobal	Clive Hobbinger (Zebra Technologies), Tom Pizzuto (Nysen), Vivan Underwood (Anderse Merchandisers)	Define a comprehensive set of item-level requirements Examine the interoperability of data carriers
	1Q 06	4Q 07	0.5 FTE	TD JRG	EPCGlobal	Barba Heckman (Intermec) Rick Schuessler (Symbol Tech.)	Create the Use Cases and Business Requirements for User Memory on RFID tags

	From	To	GS1 Resource	User Resource	GS1 Participation	User Leaders	Deliverable
Privacy Standard	10 06	20 07	1.0 FTE	PPSC	EPCglobal	Elizabeth Board (EPCglobal)	
Tag Disposal/ Environmental	10 07	10 08					
New SDOon for HF Gen 2	4Q 07	3Q 09	0.5 FTE	HF AMWG	EPCglobal	Clive Hombarger (Zebra Technologies) Alastair McArthur (TagSys)	Item Level
HF Gen 2 Scale Up	4Q 09	1Q 10	0.5 FTE	HF AMWG	EPCglobal	Clive Hombarger (Zebra Technologies) Alastair McArthur (TagSys)	Item Level
Decommissioning	1Q 07	3Q 07	0.5 FTE	All Stakeholders	Traceability EPCGlobal	TBD	Create the business requirements essential to rendering an RFID tag partially or totally inaccessible to ensure consumer and patient privacy

Notes: 1. RFID Standards follow EPC process and EPC Standards Development Process.

3. Data

	From	To	GS1 Resource	User Resource	GS1 Participation	User Leaders	Deliverable
Product Data Dictionary	1Q 07	3Q 07	0.5 FTE	All Stakeholders	GDSN MOs	TBD	Definition of necessary product data/attributes for healthcare products
e-Capsule/Classification	1Q 07	3Q 07	0.5 FTE	All Stakeholders	GDSN MOs	TBD	Global model for healthcare catalogues including global classification for all healthcare products
e-messaging							
Data Exchange Joint Requirements Group	3Q 06	1Q 07	1.0 FTE	All Stakeholders	EPCglobal	Craig Asher (IBM) Ron Mosier (Wal-Mart) John Howells (HDMA)	Framework and Standard for exchanging data among trading partners within the EPCglobal community

Notes:

1. Data Standards to follow GDSN procedures for GSMP

Part 4. Enabled Solutions (availability, implementation and adoption may take more time)

	2007	2008	2009	2010	2011	2012
Carrier						
BarCodes (1 available now)						
RFID (1 Case/Pallet available now)			1 Item Level			
Patient						
Track & Trace			1	1 with data share & EPC-IS standard		
e-pedigree (USA)	1					
e-pedigree (Global)		?				
Administration Error Reduction			1			
EPR			1	1 e-billing		
Instrument Tracking				1		
Inventory						
Forward & Reverse Logistics						
e-Com						
Asset Management						

Note: Please refer to Appendix A. Solution Requirements

Appendix A. Solution Requirements

- | | |
|--|---|
| <p>1. e-Pedigree (counterfeit, diversion)</p> <ul style="list-style-type: none"> - Auto ID Data - Serialization - e-Pedigree Messaging Standard - for RFID, e-Pedigree RFID technical requirements necessary carriers <p>2. e-Prescription (Administration Error Reduction)</p> <ul style="list-style-type: none"> - Auto ID Data - Carrier Standards at the unit dose/unit of use level - Patient ID - Carriers - Electronic Prescribing software (non GS1 GHI solutions) <p>3. EPR (Patient safety, efficient records management)</p> <ul style="list-style-type: none"> - Auto ID Data - Carrier Standards at the unit dose/unit of use level - Patient ID - Service Staff ID - Carriers (Instrument ID Solution) - e-Com for e-billing procedure codes (non GS1 Standard) | <p>4. Instrument ID (Patient safety, instrument management)</p> <ul style="list-style-type: none"> - Auto ID Data - Serialization - GIA/GRAI - Carriers <p>5. Track and Trace (inventory control, counterfeit, diversion)</p> <ul style="list-style-type: none"> - Auto ID Data - Track & Trace Standards for Healthcare - Data Sharing/Ownership Standard - EPC/IS or Network Standard - Carriers <p>6. e-Commerce (supply chain efficiency, inventory control)</p> <ul style="list-style-type: none"> - GDSN - GLN - e-Com Standard <p>7. Asset ID (Asset management tools)</p> <ul style="list-style-type: none"> - GIA/GRAI - Carriers - option: serialization |
|--|---|

Appendix B. Detailed Description of Deliverables

- Auto ID Data – Define data required for automatic identification, given business requirements and the GS1 mission, with patient safety as highest priority (which data are needed to support business objectives for patient safety – GTIN, serial number, lot number, expiration date)
 - Serialization – Define serialisation schema for healthcare products, with product traceability for patient safety as highest priority (how and where to use mass serialisation for traceability)
 - Carriers – Identify the data carriers for healthcare product packaging and direct marking. Establish standards for carrier printing/marketing/encoding, scanning/verifying/decoding and quality (where and when to use which barcode type like EAN-13, GS1-128, RSS, Data Matrix or RFID tags)
 - AIDC Application Standards: Construct packaging/direct marking AIDC application standard(s) specific to appropriate product group or sub-industry requirements, with patient safety as the highest priority. Content to include:
 - ✓ Impacted product scope by product group or sub-industry
 - ✓ Appropriate portions of relevant standards, including prior HUG driven standards
 - ✓ Relevant location, packaging level, AIDC technologies
 - ✓ Practical timeframe for adoption
 - ✓ Expected stakeholder support and business impacts
- > Minimise the number of different healthcare application standards and associated required AIDC technologies while maintaining practicality and appropriate differentiation.
- > Product groups may be formed through relevant commonality
- Examples: stakeholders, supply chain channels, business/financial models, appropriate AIDC technologies, dosage form, single/multiple use
- > Sub-industries may be derived from regulatory or industry accepted product classification
- Examples: device/pharmaceutical, implants, OTC/Rx



GS1 Healthcare
Governance Charter
- draft -

Version 1.4 Page 1 of 9 4/9/2007

1.0 Mission

To lead the healthcare sector to the effective utilization and contribute to the development of global standards with the primary focus on automatic identification to improve patient safety.

2.0 Vision

To become the single source for regulatory agencies and trade organizations (manufacturer, wholesaler, hospital and pharmacy) seeking input and direction for global standards in the healthcare sector.

3.0 Accountability

To the GS1 Management Board

4.0 Membership

4.1 Voting Membership Criteria

HUG Voting Members must be a member company of a GS1 member organization. Members can be manufacturers, wholesalers/distributors, GPO's, hospitals and pharmacies, logistics provider, doctors and nurses.

Voting members of the HUG contribute to the HUG activities and basic operational costs with an annual fee. The HUG membership fee is Euro 3,500 per year. Conference fees will be different for voting HUG members and non-voting HUG members. GS1 is a not for profit global standard organization. The GS1 global Healthcare User Group (GS1 HUG™) as a GS1 facilitated healthcare members group. GS1 HUG activities are self funded. These fees are collected and dispersed on a revenue neutral basis. The funds collected are to cover the costs of the meetings and activities of the GS1 HUG and other appropriate costs including a surplus account to cover anticipated costs. The fees and activities are determined by the Leadership Team annually and are adjusted based on the forecast activity.

Voting members have voting rights in the development of global standards and password-protected access to all documents. They can be candidates for the Leadership Team and the Co-Chair positions.

If a member misses three or more physical meetings/conferences, membership is considered inactive. That means that the voting rights are waived until the Leadership Team reinstates them.

4.2 Voting Criteria

More than one individual can represent voting member companies, however, each member company has only one (1) vote, even if they have multiple divisions.

Plenary decisions of the HUG, for example ratifying guidelines and Work Team results, will be taken by simple majority of the members that are entitled to vote, a quorum of 50% is necessary. Voting will be done by e-ballet. GS1 supports and manages the decision process but has no voting privileges.

4.3 Non-voting Membership Criteria

Organizations with a keen interest in standards development and patient safety may support the GS1 global Healthcare User Group (GS1 HUG™) by participating in the Work Teams. Non-voting members are eligible to become members of HUG Work Teams, attend HUG events, and have

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- ensure participation in the Global Standard Management Process (GSMP) by representing the HUG in GSMP and by using GSMP and EPCglobal as appropriate for any standards to be developed.

Leadership Team members must be able to act as their organizations representative in key-decisions.

The Leadership Team shall hold regular scheduled teleconferences to monitor progress, discuss issues and meet in person in conjunction with the HUG conferences. Further face-to-face meetings can be organized if necessary.

Limits of Authority

Decision-making is achieved through consensus, which is defined as approval without sustained opposition – a quorum of 50% is necessary.

Leadership Team Selection Process

A candidate to the Leadership Team must be engaged in GS1 Standards development efforts and should be able to promote the implementation of the developed global standards and best practices in their organizations and should therefore be able to provide linkage between their business and the GS1 HUG™. An election committee, consisting of HUG Co-Chairs and the GS1 Global Office, shall nominate candidates. Candidate confirmation is obtained by a ballot of the membership.

Term Limits

Leadership Team members serve a one-year term which is renewable.

5.2 Co-Chair

The Leadership Team shall elect two Co-Chairs. The Co-Chairs should provide adequate representation from all healthcare sectors and an attempt should be made to keep a geographical balance.

Roles and Responsibilities

Co-Chairs shall

- convene and preside at HUG conferences and meetings
- approve agendas proposed by the GS1 Group Manager Healthcare
- facilitate the consensus process
- disseminate and monitor communications with membership
- assign duties as necessary to advance the work of the HUG
- report to the GS1 Management Board

Term Limits

Co-Chairs serve a term of 2 years with the possibility to be re-elected for another two years. Co-chair terms are staggered to ensure continuity. Co-Chairs must be able to act as a representative of their organization in key decisions for the duration of their term. GS1 staff cannot serve as Co-Chairs.

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Version	Date	Changes	Responsible
1.0	18.02.2006	Final version for LT Meeting in Paris	Ulrike Kreysa
1.1	28.09.2006	Feedback from LT discussion in Paris incorporated	Ulrike Kreysa
1.2	08.10.2006	Final document for LT vote with changes after comments from Mark, Peter and Jim	Ulrike Kreysa
1.3	11.10.2006	Inserted background about status of non-for-profit for GS1 and fees are used to cover HUG activities according to work plan. Voted on and approved by HUG Leadership Team.	Ulrike Kreysa
1.4	27.02.2007	Changed title to GS1 Healthcare for clarification purposes, made modifications as requested at January 2007 meeting only. Changed 'industry, to sector'. Feedback from HLS co-Chairs pending. Changes in red.	George Simson

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limited access to documentation and work results. Associations, regulatory bodies and educational institutes can be non-voting members with no voting privileges.

The Leadership Team decides when non-GS1 members can participate at conferences/meetings, non members cannot vote.

4.4 Healthcare Provider

Organizations and / or individuals who deliver healthcare to the patient are considered healthcare providers. Healthcare providers are encouraged to use the GS1 system and participate in the HUG as voting members.

4.5 Technology and Solution Providers

Technology and Solution Providers can participate in HUG Work Teams, only by invitation through the respective Work Team leaders, to provide technical input. Upon invitation of the Leadership Team, they can participate in HUG conferences/meetings as observers, without voting privileges.

5.0 Organizational Leadership

5.1 Leadership Team

The Leadership Team shall comprise of a minimum of seven (7) full members and a maximum of twelve (12) full members. Membership should be geographically balanced. Qualifications to serve as a Leadership Team member include subject matter expertise in the GS1 System and associated technologies. GS1 Member Organization representatives (maximum 3 – adequate to market activities) may also serve as additional non-voting Leadership Team members.

Roles and Responsibilities

The Leadership Team shall

- elect two Co-Chairs through nomination and consensus
- develop and maintain the overall HUG strategy
- manage, finance, conference/meeting planning, public relations, membership and policy
- ensure geographic and supply chain stakeholder balance
- formulate individual positions of the HUG in response to regulatory, customer, and local standards initiatives
- represent HUG membership to external groups and organizations with interests in standards and patient safety. GS1 representatives shall be engaged
- create Work Teams to respond to, or drive, specific initiatives
- ensure that Work Teams are adequately resourced
- appoint Work Team leaders, review progress of the Work Teams on a regular basis and ensure that there is alignment between the Work Teams

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Limits of Authority

Decision-making is achieved through consensus with the Leadership Team, which is defined as approval without sustained opposition.

5.3 Work Team Participation

The HUG develops proposals for global standards through Work Teams.

Work Teams focus on specific business issues.

The working language is English.

HUG membership will review and approve by majority vote, the results of the Work Teams before they enter the Global Standard Management Process (GSMP). The Work Teams champion the proposed standards through the GSMP.

5.4 Work Team Leaders

Work Teams are ideally co-chaired.

Leaders of the Work Teams are responsible for the progress of the team according to the scope and deliverables. They are also responsible for all administration of their team and will be supported in that task by staff from GS1.

5.5 Group Manager Healthcare

Roles and Responsibilities

- Facilitation of the HUG's decisions
- General Communication
- Reporting to GS1 Global Office (GO) Management
- Ensuring that HUG Leadership Team has sufficient support from GS1 staff
- Driving GS1 alignment with HUG goals and objectives

Term Limits

Group Manager Healthcare maintains the position as long as he / she remains in post.

6.0 Conferences and conferences procedures

There will be three conferences per year, the HUG Leadership Team determines time and place, but they should take place in different geographical regions. The agenda of the conferences are drafted by the Group Manager Healthcare and approved by the Leadership Team.

6.1 Conference Fees

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There are fees applicable for conferences, HUG voting members pay a reduced fee. Speakers participate free of charge at the conferences, as well as regulatory bodies, GS1 staff and GS1 Member organizations. The Leadership Team decides if the HUG will reimburse the travel costs for a speaker – there will be no remuneration for speakers.

6.2 Anti-Trust Statement

The GS1 Anti-Trust Statement must be brought to the attention of all participants at the beginning of each conference/meeting and teleconference.

6.3 Quorum

Leadership Team and Work Team decisions are not binding when a quorum is lacking at the time of the decision. GS1 GO shall maintain rosters of HUG, Leadership Team and Work Team membership. A quorum is defined as more than half of the registered roster.

6.4 Minutes

Where a quorum is present, minutes shall be taken and posted on the working area of the GS1 HUG™ website. The recording of minutes is a voluntary, rotating function of the members present.

7.0 Document Development Process

7.1 Document Types

Specific Responses regarding public policy

One or more Leadership Team members draft specific responses with subject matter support from the GS1 GO. The Leadership Team then reviews the proposed response. Substantive and editorial changes are suggested and approved by consensus. Review can be via a physical meeting, e-mail, teleconference or Webex, lead by the Work Team "Public Policy". The HUG will submit the response to the regulatory authorities either via the local GS1 Member Organization or through the Group Manager Healthcare.

Position Papers

Any member of the HUG or a GS1 Member Organization can draft a position paper. Once drafted, the paper can be submitted to the HUG Leadership Team for adoption. Substantive and editorial changes are suggested and approved by consensus. Review and adoption can be via a physical meeting, e-mail, teleconference or Webex. Once the Leadership Team and originator reach agreement the position paper can be posted on and distributed via HUG website.

Press Releases

A press release is a succinct and timely announcement. Agreements among industry/sector groups, regulatory bodies, key customers and companies' adoption of GS1 Standards, or a change in GS1 HUG Leadership are possible press release topics. As topics are presented to the GS1 HUG™ Leadership Team, they shall reach a consensus before forwarding to GS1 GO Marketing to draft and publish.

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8.0 Communications

Communication with associations and regulatory bodies is done through the Group Manager Healthcare at GS1 GO in alignment with the Leadership Team and according to the mission and work plan of the HUG.

GS1 provides the neutral platform for discussions between the healthcare industry and regulatory bodies.

The Support Team 'Communication and Coordination' is responsible for all marketing activities of the HUG, in alignment with the GS1 branding guidelines and the GS1 GO Marketing Team. GS1 GO maintains the HUG website (www.gs1.org/hug). Communication, with regard to HUG global marketing activities, shall be the responsibility of the Leadership Team, in alignment with the GS1 branding guidelines and the GS1 GO Marketing Team. GS1 GO shall maintain the HUG website (www.gs1.org/hug).

For presentations to third parties GS1 HUG™ standard presentation templates shall be used.

Annex:

How to Use This Document – Document Conventions

MUST: This word, or the terms "REQUIRED" or "SHALL", means that the definition is an absolute requirement.

MUST NOT: This phrase, or the phrase "SHALL NOT", means that the definition is an absolute prohibition.

SHOULD: This word, or the adjective "RECOMMENDED", means that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.

SHOULD NOT: This phrase, or the phrase "NOT RECOMMENDED", means that there may exist valid reasons in particular circumstances when the particular behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.

MAY: This word, or the adjective "OPTIONAL", means that an item is truly optional.

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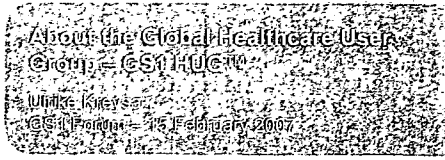
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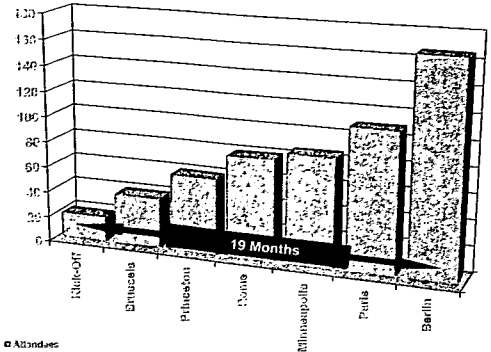


The global language of business
www.gs1.org



GS1 HUG™
Increasing Involvement of Healthcare Groups

HUG Conference Attendees:



2

©2007 GS1



GS1 has embraced the healthcare sector AND the healthcare sector has embraced GS1



The positive impact of business

Global Healthcare User Group chooses GS1 as sole system of standards in healthcare

The GS1 HUG is a voluntary and open group formed by 16 leading pharmaceutical and medical device companies, universities, hospitals and health care providers to work together to address the challenges of the healthcare industry through efficient and standardized common standards.

Program product identification is critical to correct labeling in the supply chain. GS1 HUG is committed to ensuring that the right drug is delivered to the right patient, by providing the full identification group and medical device, allowing the full safety of medical products.

After several years of successful operation, the GS1 HUG is pleased to announce that the GS1 HUG has been chosen as the sole system of standards in healthcare. This decision is a significant milestone for GS1 and the healthcare industry. The GS1 HUG is committed to providing the full identification group and medical device, allowing the full safety of medical products.

The new members of the GS1 HUG represent the backbone of the pharmaceutical, medical device and consumer goods industry. The commitment of the standards and their adoption is clear evidence of the

Global Healthcare User Group Chooses GS1 as Sole System of Standards in Healthcare

3

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GS1 HUG™
Development of Local & Regional HUGs



Switzerland



Chile



Australia



New Zealand



Canada



Germany



Berlin & Mannheim



Brazil - Belo Horizonte



Moscow

And more to follow soon.....

4

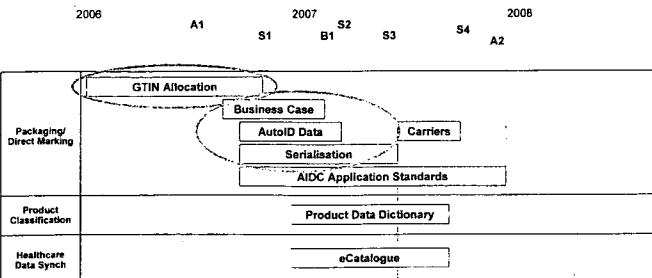
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HUG Standards Development Strategy

Version 1.1
13 Nov 06

Table with 4 columns: Milestones, Date, Description, and Milestones. It lists various standards development milestones from 2006 to 2007.



5

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GS1 Global Healthcare User Group
AHEAD OF TIME

Dedicated to improving patient safety



- Prevention of medical errors
- Product authentication
- Tracking and tracing
- Increased supply chain efficiency

6

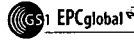
©2007 GS1



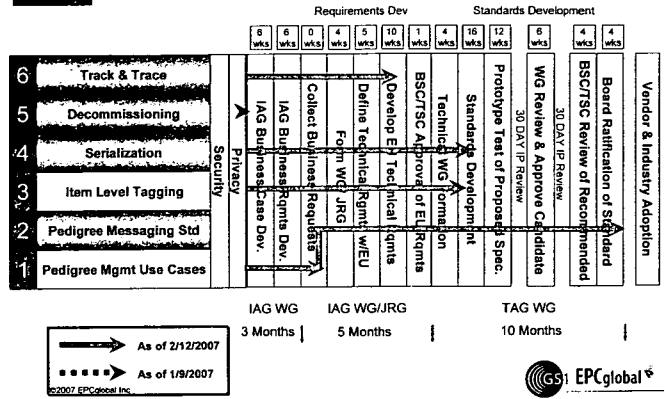
EPCglobal HLS Update State of Pedigree and EPC/RFID Standards

Global GS1 Forum 2007
Brussels, Belgium

February 15, 2007
Chuck Schramek
EPCglobal HLS Facilitator



Standards Update Current Status



Standards Update

Define a standard format for a Pedigree Messaging standard that will meet all current Federal and State Pedigree requirements.

Status:

- All Standards work complete (Certification Requirements due 12/20/2006).
- Prototype event was successful.
- Passed Technical Review
- Intellectual Property Review period satisfied

• **Ratified standard – 01/2007**

6	Track & Trace
5	Decommissioning
4	Serialization
3	Item Level Tagging
2	Pedigree Messaging Std
1	Pedigree Mgmt Use Cases

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Standards Update

Define requirements for the EPC identifier to be encoded on an RFID tag.

Status:

- Requirements complete. Identified 2 GS1 identifiers [Global Trade Item Number (GTIN) and Serialized Shipping Container Number (SSCC)] to be used.
- Collaborating with GS1/HUG -- starting with Serialization.

6	Track & Trace
5	Decommissioning
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Standards Update

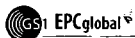
Define requirements and/or guidelines for decommissioning tags consistent with optimizing tag utility and consumer/patient privacy.

Status:

- Work Group to be chartered & initiated February 2007; anticipating 6 month effort
- US Drug Enforcement Agency interest in this capability is extremely high
- Solutions expected to span a mix of hardware, software and process responses
- Potential for this work to expand cross-industry

6	Track & Trace
5	Decommissioning
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1	Pedigree Mgmt Use Cases

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Standards Update

Define supply chain use cases, processes and information needs for sharing EPC related data for forward and reverse logistics.

Status:

- Forward & Reverse Logistics (Returns) processes and data exchanges completed
- Common vocabularies and location identifiers drafted
- Additional use cases to be addressed:
 - 3rd Party Logistics Providers & Repackers
 - Product Recall
- Data Sharing Strategy & Guidelines are currently being addressed
- Pedigree-on-Demand concepts being Investigated
 - IBM/VeriSign – Solution Provider Perspective
 - Cardinal Health – Supply Chain End-User Perspective
- Integrate with GS1 Traceability efforts

6	Track & Trace
5	Decommissioning
4	Serialization
3	Item Level Tagging
2	Pedigree Messaging Std
1	Pedigree Mgmt Use Cases

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研究成果の刊行に関する一覧表

著書

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医療情報管理者

講座

テキスト

【第1版】

<第I部>

「医療情報管理者育成コース」の構成と授業内容

<第II部>

医療情報管理者の基礎知識

平成16年度

「医療情報管理者育成のためのモデルプログラム開発事業」

モデルシステム開発委員会

<第7章> リスクマネジメントのための情報技術

■この章の学習の目標

医療事故を防ぐためには、人間系の運用管理も重要だが、IT（情報技術）を上手く組み合わせることが重要である。この章では、ヒューマンエラーの発生原因、防止方策としてのITの利用を学習する。

【学習のポイント】

1. 米国医学院の報告と国民の意識変化
2. 業務フローとITの活用
3. リアルタイム処理の重要性と実施データの活用

■学習のポイント

ポイント1 米国医学院の報告と国民の意識変化

医療の高度化、専門分化が進む中で、質の高い医療従事者の養成や、質の高い医療提供の環境整備を図っていくとともに、患者・国民の適切な選択によって良質な医療が提供されるよう、情報の積極的な提供を図る必要がある。同時に、医療の質の確保ということでは、近年続発している医療事故について、患者の安全を守るという観点から、行政や医療機関がともに総合的に取り組むことが求められる。

医療過誤の対策として、厚生労働省も医療安全対策会議を設置し、医療安全対策に重点を置いてきた。特に注射事例は約3,500事例と全体の3割を占めており、その多くは与薬業務に関する事例であったと報告されている。従って、医療過誤対策の中心は、与薬業務におくべきと考えられている。

米国には、情報システムを利用した医療過誤対策を行っている病院もある。そして、その後システムの改良を行い、10年前に比較して医療過誤は86%減少したと報告されている。前述したようにわが国における川村班報告においても、与薬業務が医療過誤の最多であった。さらに、BWHによると、コンピュータ化されたオーダーリングシステムにより医療過誤防止の可能性があるとされている。旧厚生省は平成12年8月8日の医療審議会総会に、医療安全対策の推進方策に関する検討議題を提示した。その内容は、前述した医療のリスクマネジメントシステム構築に関する研究班報告によると、医療過誤対策の中心は、与薬業務におくべきと考えられており、注射や服薬時における誤薬投与対策が最も重要と考えられる。

1) 国民意識の変化

今日の社会では工業化、情報化が進み、遺伝子工学や医療技術の高度化により社会も変化してきた。特に、環境権、知る権利、プライバシーの権利などの「新しい人権」が登場した。また、個人の