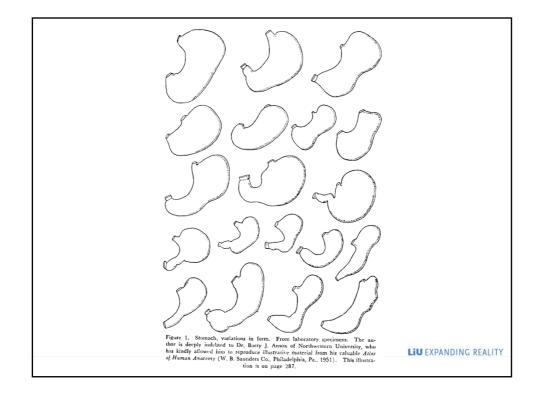
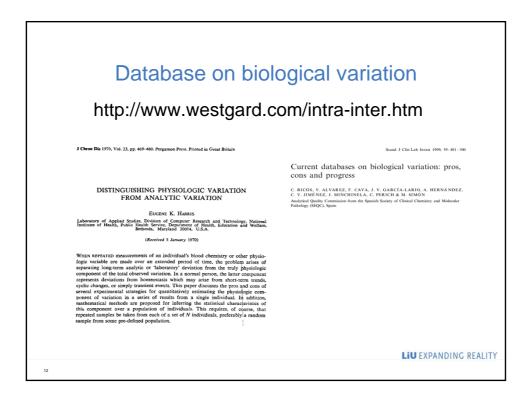
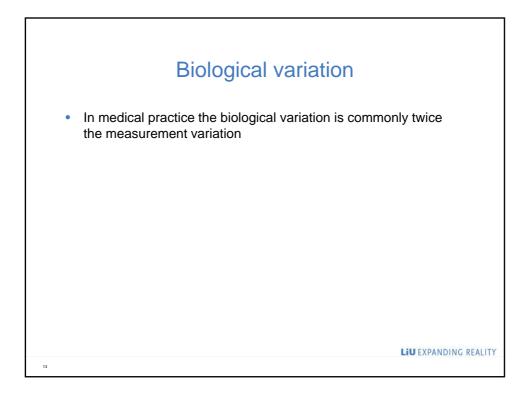
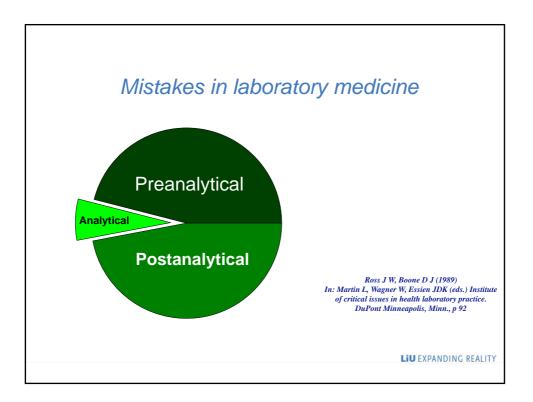


D' I	
Biolo	gical variation
ROGER J. WILLIAMS	1956
Professor of Chemistry Director, Biochemical Institute	
University of Texas	
Piochamical Individuality	
Biochemical Individuality	
THE BASIS FOR THE GENETOTROPHIC CONCEPT	
New York · John Wiley & Sons, Inc.	
London · Chapman & Hall Limited	





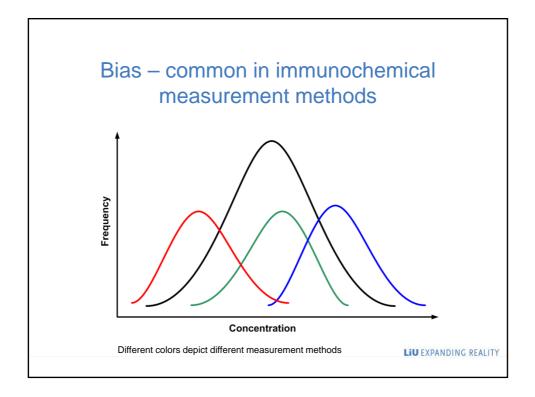


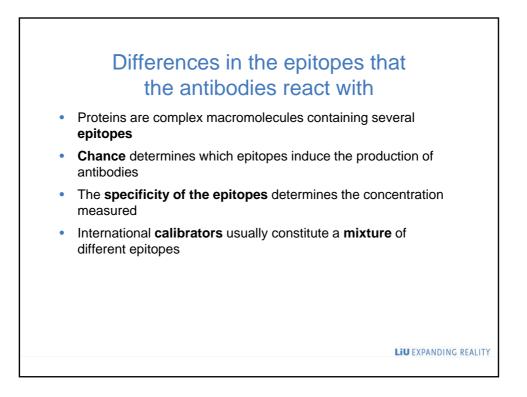


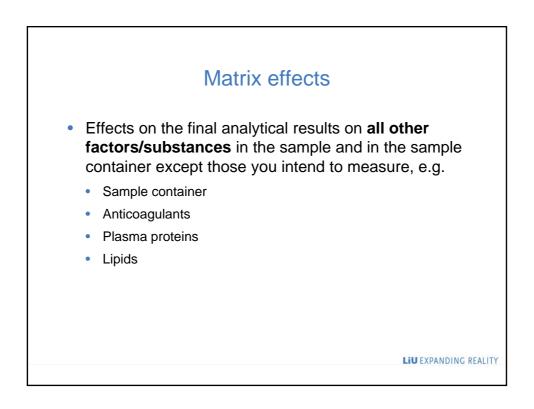


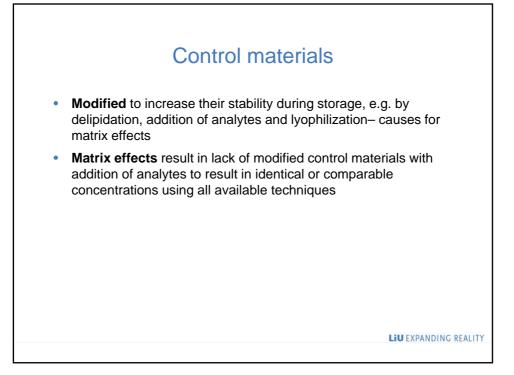
- Biological variation
- Sampling variation
- Variation caused by sample transport
- Measurement variation
- Effects of therapeutic drugs
- · Effects of substances of abuse

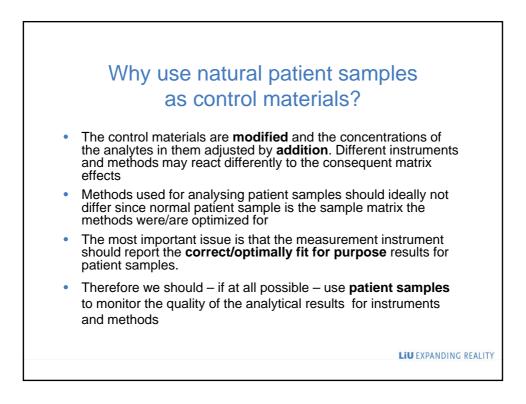
LIU EXPANDING REALITY







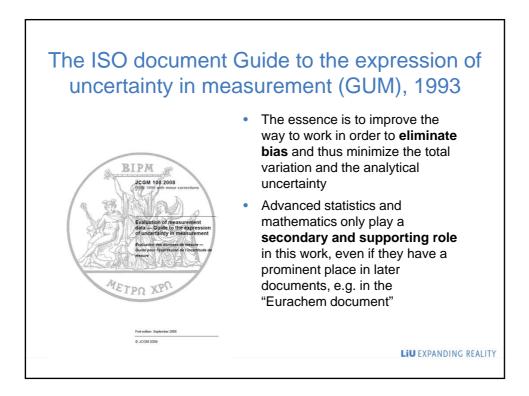


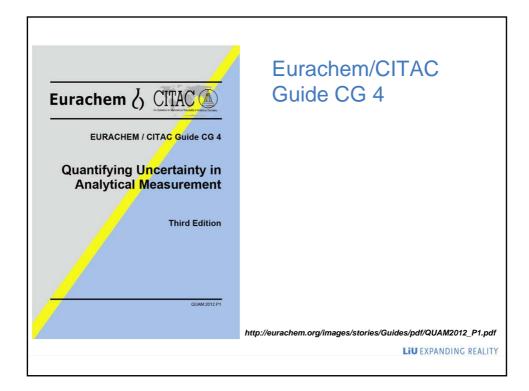


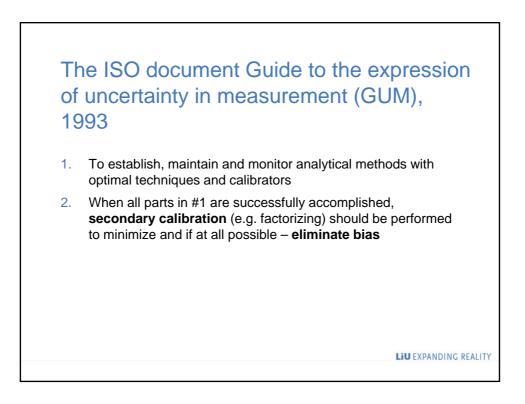


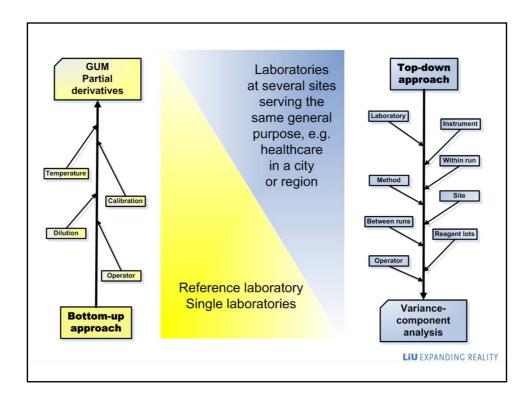
- **Matrix effects** are of major importance for the calibration and quality control of analytical methods
- To minimize bias and measurement uncertainty it is imperative to establish routines for secondary calibration of analytical methods by means of natural patient samples
- Diagnoses are base on measurements in natural patient samples and measurement methods should therefore show identical results using this sample matrix

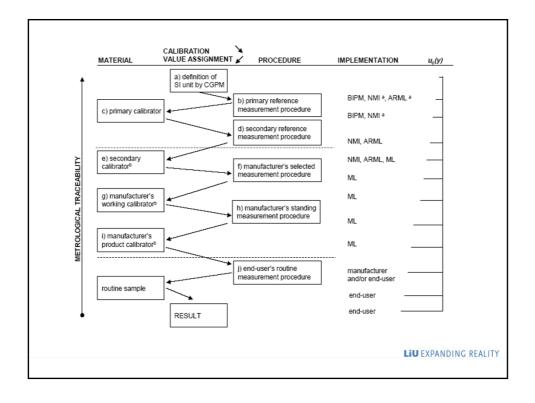
LIU EXPANDING REALITY

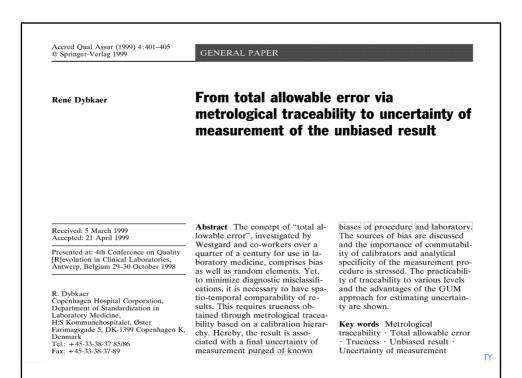


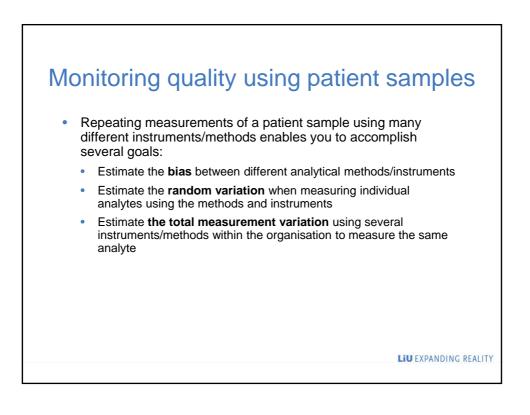


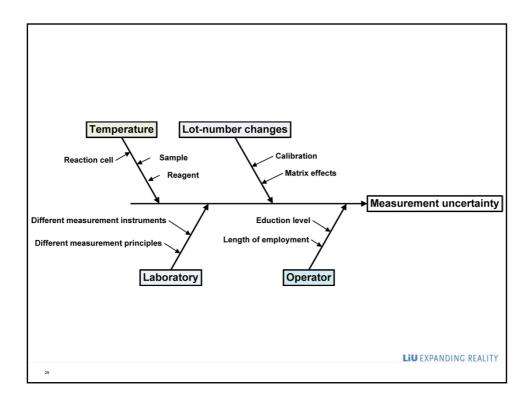


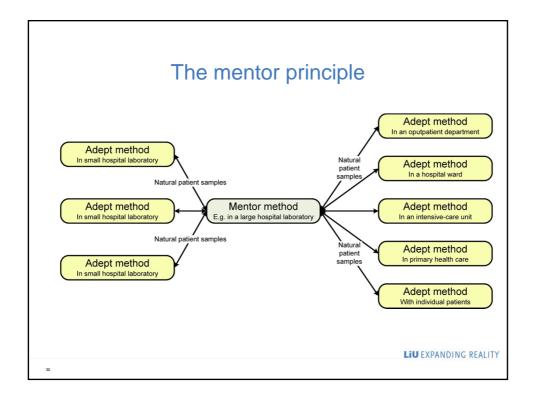






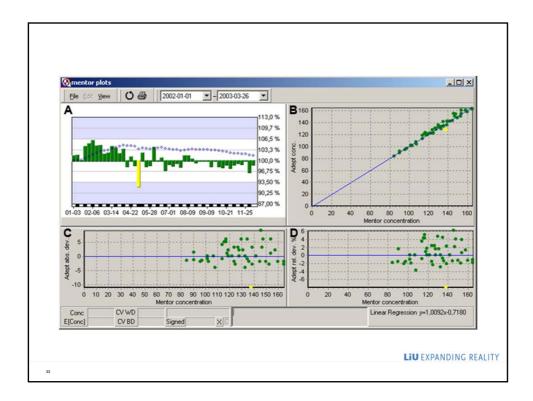


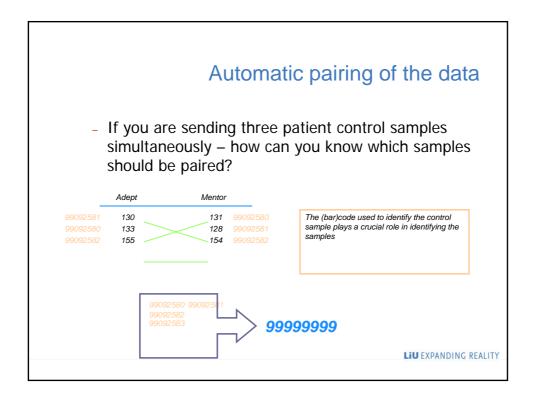


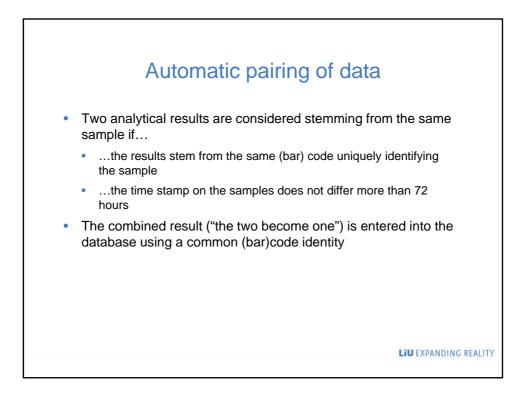


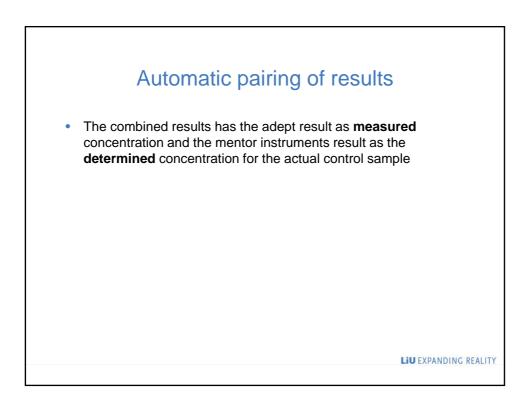
rama											
e many 🛸 Show Details 🔎				-							
s O Patient Samples Ayois, Instrument											
1 - to 2011-11-16 -	In the secondary bargerer	201 PR	Sen Mi	101 Miles Constanting Particulations	Sen Per	234 AH	Sen He	198 199	Alter Mil	ETW (2005 dedaysourper, particulant)	and Mi
ded o						and the second second					ca
a kontroller	EN (NE) & Colvegator, particulares	EN (103 B-Estrogen, participat	ON 1908 In Coprosport, particulose:	EN (100 B-Grynneyne, particilizat	(In 188 B Concepts, participan	(EN 1905 & Conseque participate	(IN 1903 D Gyrapha patholicae	ETA (TES B-Corrupto, patholicos,)	EN (103 B-Entropic, participat	EX (10) B-Coprogram participate	EPK (2008 & Crymonyton, particultures (
											[Transmission of the local division of the
97 V	distant in the local dist		1	and the second second		Annual Residence of the second second					
50 - SLA, Control Protein 1	CPE (2013 B-Exploriples, particulares, 5216 PM	EPH (2005 B-Exploration, purificilities, 6,07 PM	EN 2010 D-Dynospot, published.	EPR (2010 &-Coproscieus, purchailtoise, 6210 PRI	CPA (1923 B-Dynocytor, purchakana, 1958 PM	En Int States	EPK (1005 B-Crystorgen, parthabine: 6211 PR	Dis (103 B-Environter, pathakon)	EN (203 B-Estropus, particulum,	EPH (103 D-Erymourne, particulant,) SER PH	(PR2989 8-Oyrocyter, participant (
76 - SL/H Control Protein							_				and Address of the owner of the
34 - SL/H Control Protein 42 - LC Control Protein U		_	_								
13 - Iohexol nivě 1 27 - Iohexol, nivě 2	EPA (1913 & Copyranglus, publishing) EPA (1913 B)	2454 PR	EVY 2000 B-Erytracytor, rolpalrainia 2405 191	200 per	328 PH	Sen en	EVF (H) E-Gymagna, salashakina 200 HB	Sen Pri	Star 1961 B-Estrophy, solution	EVF (H) B Expression, subpatriation SET PR	Eve (167 & Expression, substantian 290 Mil
18 - MNA, nivă 1									and a design of the local distance of the lo		
09 - 13C Unea kontroll 54 - CD 29 Hog	EVERITE Destroyer, submitted	EVF (10) B-Extraction, volume attion	Ever 2001 B-Erymanytes, volgestration	EVELTET & Coperation, subject states	CVT 1707 B-Coproceptor, subject united	EVE (10) D-Gymanyna, wigestratio	EVE ITEL D. Coperation, which which	Ext (10) B.Cytrophe, submittation	Ever 1981 & Experimental and all in	Evil 2001 B-Crymonyton, redpending	EVF (NET B-Expression, submitteline
62 - CD29 Låg 70 - CD29 Norval					-	[-	-		
18 - HenoTrol, låg		and the second s	Canadia de Parte	an elisate the section		1	and the second re-			Cof (Not & Gyroups, substation	
16 - HemoTroit, Nog 24 - Extern kontroit, Seronx	EVF (163 8-Extragelar, submittation 82/0 FR	EVF [10] 2 & Extraction, submittation 6218 PD	EVF (2007 & Exprosprot, solpatration 625 (191	EVF (NET & Exprospher, subjective) 6216 Pd1	EVELOGE & Expression, subpairable 620 PM	Ever 2007 di-Grytocytor, subjectuation 6215 BH	EVF DEF E-Gypto-gray, spipelt-block	Full Dill B-Entrophy, subsidiation	EV# (362 8-Entrophe, volpairairies 900 EE	EVF (NUT B-Exprospher, subpatriation 627 291	EVF (INF &-Entrophe, rulphinistion 8210 (10)
12 - Extern kontruit.Seroni 999 - Patientikonitoli, LMC											
nun - Inimuncessay, prog											
kan1 - Läkenedel kan2 - Läkenedel	ESE PRI	Ever Delly B-Expression, reduced allow	an we	an M	1225 Peri	States and	Fib IP-Fibringeril 200 HR	Th (F f h-hopps) 301 PH	007 DELA P-1 Oprandrastrast	007 DELK P-T-Gluranyfinaufunal 2000 PM	2017/2014 P-1 (Decembranity)
International - Lakemedel				-					-	_	
amit - Lakenedel onl - Koagulation	907(10)# P-Y Geneultranform	OUT DESK P-Y-Onrashtracture]	SST NOK P.Y Generation for all	907/924 P.Y (benefitive/inc)	907 (1924 P.Y. Geneylmanica)	OCT (224 P.Y. Geneylmanicul)	907 (1016 P.Y. Geneytrauturu)	9071916 P.Y Generational	907 (1924 P-1: Geneybractional	GGT (N2)K P-Y-Oncomptroactional	977 (N2)4 P-Y-Oknaufmanfirm)
os - Koagulation	ms m	maile II		50% PF		Contra Print					
iiix Koagulation creen Koagulation											
iton - Biodgaser ends1 - Endokrinologi	GGT (1024 P-Y-Generatives) fpin Pre	GOT (1924 P-1 Get-entron) HIS PR	1044/1033 /P-GMAn(Patrick)) 2500 /Ht	PGta (USS P-Gtakes (furnade)) 254 PH	POLA (033 P-Galaccificmeda)) 1211 PM	POLA (1033 P-Outor (Pumade)) 1208 PM	Glub-dE [-d-Glub-c] 8902 PH	Quint (- Quint - Quin	Alt Interplate	1.0% (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	m (10) D-m(haupite) (4) Pri
ends2 - Endskrinologi		Contraction of the local division of the loc	COLUMN STATES		-		And the state of t	Transport States and			
lak - Alipholer log - CD-Transferin	10.1000 £-10.10.40.00.00.0	16 [109 6-86(harden)]			10-7101 - 0-10-(0.ac-pickis)] 200 - pm	No. Colling B. High and place (1	William Waterwaters		re (mo e-re(n-rphi))	m (100 & m(haupidas)	mprov Contractions
Icov - Proteinanaljoer i spi Bores1 - Elfores	245 20	200 Martines	a los subradiant	The second second	355 14	Said and	214 M	Water Stationerstated	280 Mit	The second second second	all on the second second
Bores2 - Ellores	11					will de antest	and the second s	and the state of t	L., d bitandt "thomal	-Belled, Summary.	
Rores3 - Elfores Ihem4000 - Hematologi	the proce in state processing	No. (103 B-Ho/Longisting)	Wa (100 B-He(Namophile)	in pass president	No. (TALL & Holdson picking)	Harrison Britter (Sumaple Stall	the [1000 distriction of the line of the l	10 [000 8-16/4-m-philis]	He (1000 B-He)Nanopicka)	He (105 B-He/Lanopicka)	No (100 D-Me(Numopleting)
hgc - Henocue Ioh - Iohevol				· ·					my farmen		
kani - Rutekani A		Lineal Linear			added is builded and	1					a dia tang
koak - Kogulaton koall - Kogulaton	No. 2000 Problem picker (1 No. 100	No. (100 B-Halphanghiles) No. (100 B-Halphanghiles)	apa mi	at 100 patraspins;	No. (1910 Bolly barginite)	Highlin Britishaughsteil Net	He (100 B-He)manylate(2 100 He)	NO PR	No. (1998) B Halphan - picker (2 berth - Her	No. (100 Brits/Langester)	10 (100 D-96(Nanghiles)) 210 Det
lip1 - Lipoprotein							1				
llip2 - Lipoprotein Inia - Abunin i uin, liignn	allow presidents	16 [708 8-16/6.0+piths]	a [tot 5-b(naufrica)]	m pos projeka piskaj	OBAN PROVINCE More 13	(Only Thirth Ball May 18	deals page and Mar 13	CHARLE PROFESSION AND ADDRESS TO	deale terminate Marchi	r (Hanke (Hanke (Hanke E))	Once the Party May 11
prot - Piprotein let - Retikulocyter	ald be compared	HAT HA	and see	AM PR	2818 /01	355 AH	SIN PK	110 AK	SEG AK	2325 Wei	405 Avi
kpr - U-Photein				_							
etho - MMA + Homocyste AKGA1 - Koagulation, spe	100.43 (0) 10.12 (March 1)	100-11 [0(2)-0.11 [Max 1]	UNDAY DRITH RAY MARK 15	AND AN DRUG PREASE MANN TH	(DRAS DR(E)-RAS (Mass 22	(00.45 (00.0) -0.45 (Mass 1)	JORAS DE(D)-RAIS Man 13	AND AD DRIES - PEAN MAN 13	108-15 29(2)-96-53 (Mass 1)	108AN 28/82-8AN (Mass 12)	Others page of the star places 13
AKDA2 - Koagulation, spe em1 - Läkemedel											
xm2 · Liikemedel											
Mentokontral	-Sec.43, 56(8) (6.45, (6.44) (1)) (12) (41)	1046-010 (PE(8) PE-010 (PA-02 12) 9470 (PE	1048.4.1. (146.15) 16.4.1. (14444 12) 8770 891	Alexan page prices for the set	Aberta per(8) reats (Mass 12) 8305 Feb	Sets and second processes	HOLDER (BARAN (PCC)) 1-1	PRACE (BOBAL (FCC))	artik Kal (1948 Pretty, Kaluford) 2565 Pm	PERSONAL PROPERTY AND A PARTY	MEXALIFUES PHEX. Balances
DwN1 - Downs screening		_		-							
7w%2 - Downs screening 7w%3 - Downs screening	HELE AND THE PART CALMANNE	ACCULATED FACLEALAND	ACTUAL TOTAL FORL COLORADO	ACTENTION PACEAUMANT	HOLE COLD FIRE Ashered	ACCRETED FACLED	ACCURATE DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTIÓN DE LA CONTRACTICACTIÓN DE LA CONTRACTIC	-ACLE AND THE PART AND AND THE	HELKIN [1228 Fridd, Kalantural]	(Catal (22) FHC. Colored	ADDIVINE THE PART Advanced
isub - Piolein	4405 147	6400 PM	and any	6625	6636 PH	6631 24	6628 PM	GALS PAT	1218 HK	DR M	1605 PH
art / Use land trop	es mon 🖉 visio - Fiere		nLiketowa	The second second	111116.doc-M	1.0		0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			8 850

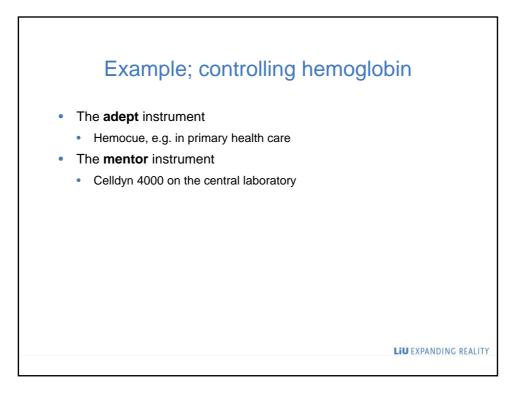
455 PPI 335,1 3,126 0,7115 3,180 4,963 13 111 PPI 350,8 4,719 2,319 4,222 4,214 20	3,180 4,963 4,222 4,214	2,319 4,22	2,658 3,126 4,719	350,8	4 PPI 5 PPI 1 PPI	Mtd Inst M1 2454 M1 2455 M1 3111 M1 3311	
			Office Office Office 2014 1.00 2.01 2.01 2014 1.00 2.01 2.01 2014 1.00 2.01 2.01 2014 1.00 2.01 2.01 2014 1.00 2.01 2.01 2014 1.00 2.01 2.01 2014 1.00 2.00 2.01 2014 1.00 2.00 2.01 2014 1.00 2.00 2.01 2014 1.00 2.00 2.01 2014 1.00 2.00 2.01 2014 1.00 2.00 2.01 2014 1.00 2.00 2.01 2014 2.00 2.01 2.01 2014 2.00 2.01 2.01 2014 2.00 2.01 2.01 2014 2.00 2.01 2.01 2014 2.00 2.01 2.01 2014 </td <td></td> <td></td> <td>Control of the second sec</td> <td></td>			Control of the second sec	

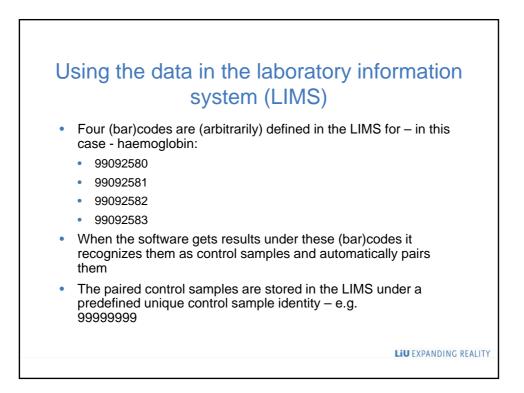




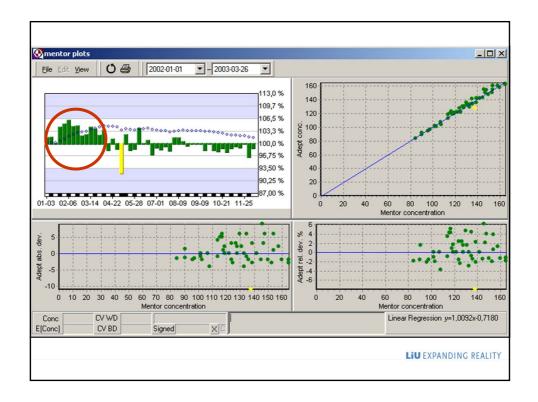


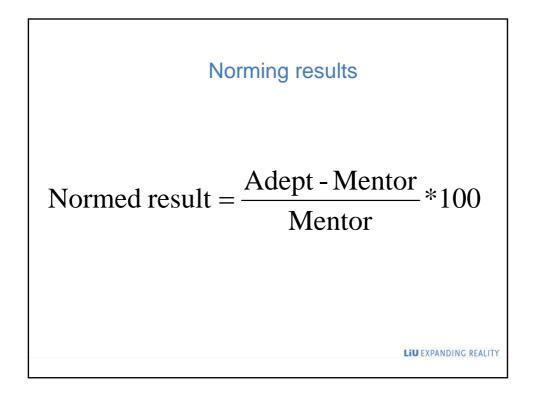




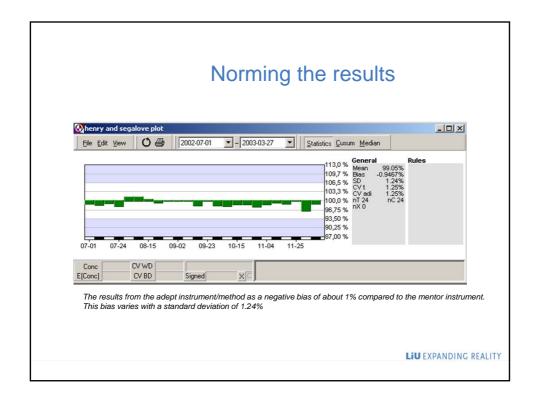


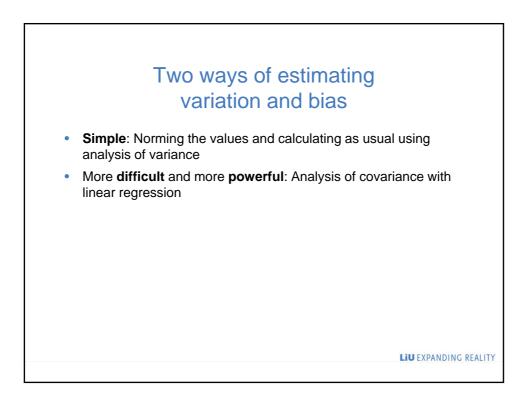
HB				
Tidsstämpel	Instrument	Adept	Mentor	
2002-07-01 12:00	925	163,0	165,0	
2002-07-09 09:40	925	96,0	97,6	
2002-07-15 07:30	925	101,0	102,0	
2002-07-24 10:00	925	94,0	96,0	
2002-07-29 09:40	925	130,0	128,0	
2002-08-09 10:00	925	133,0	131,0	
2002-08-15 09:29	925	155,0	154,0	
2002-08-21 10:09	925	134,0	135,0	
2002-08-30 10:30	925	119,0	119,0	
2002-09-02 12:49	925	102,0	102,0	
2002-09-09 11:10	925	122,0	122,0	
2002-09-16 07:59	925	150,0	153,0	
2002-09-23 10:50	925	128,0	128,0	
2002-10-02 09:00	925	83,0	84,6	
2002-10-08 10:00	925	136,0	139,0	
2002-10-15 09:35	925	143,0	145,0	
2002-10-21 10:02	925	143,0	145,0	
2002-10-28 10:30	925	122,0	125,0	
2002-11-04 11:39	925	134,0	136,0	
2002-11-12 14:35	925	113,0	114,0	
2002-11-19 08:50	925	158,0	160,0	
2002-11-25 10:20	925	142,0	142,0	
2002-12-02 10:50	925	104,0	108,0	LIU EXPANDING RI
2002-12-09 11:10	925	148,0	150,0	

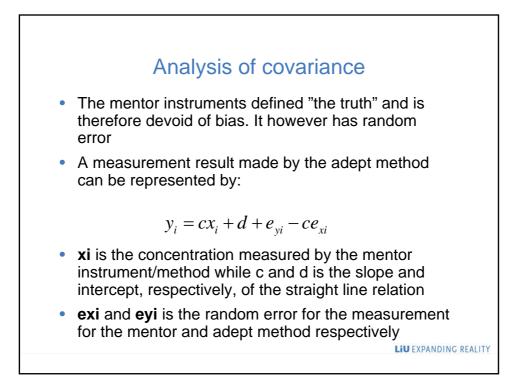


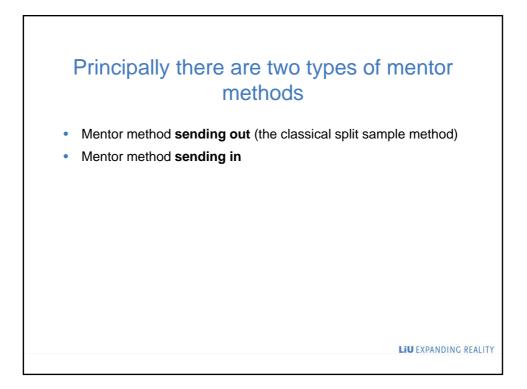


NU DE AL		1. 10			
Norming the	concen	tratio	ns		
J					
-	Tidsstämpel	Instrument	Adept	Mentor	Normerat värd
Express each of the adept values	2002-07-01 12:00	925	163,0	165,0	98,79%
• •	2002-07-09 09:40	925	96,0	97,6	98,36%
s a percent of the corresponding	2002-07-15 07:30	925	101,0	102,0	99,02%
	2002-07-24 10:00	925	94,0	96,0	97,92%
entor value.	2002-07-29 09:40	925	130,0	128,0	101,56%
	2002-08-09 10:00	925	133,0	131,0	101,53%
	2002-08-15 09:29	925	155,0	154,0	100,65%
ne results of the adept method in this case is about	2002-08-21 10:09	925	134,0	135,0	99,26%
lower than the measurements performed on the	2002-08-30 10:30	925	119,0	119,0	100,00%
ept instrument. This relative deviation varies with a	2002-09-02 12:49	925	102,0	102,0	100,00%
ndard deviation of 1.24%	2002-09-09 11:10	925	122,0	122,0	100,00%
	2002-09-16 07:59	925	150,0	153,0	98,04%
	2002-09-23 10:50	925	128,0	128,0	100,00%
	2002-10-02 09:00	925	83,0	84,6	98,11%
	2002-10-08 10:00	925	136,0	139,0	97,84%
	2002-10-15 09:35	925	143,0	145,0	98,62%
	2002-10-21 10:02	925	143,0	145,0	98,62%
	2002-10-28 10:30	925	122,0	125,0	97,60%
	2002-11-04 11:39	925	134,0	136,0	98,53%
	2002-11-12 14:35	925	113,0	114,0	99,12%
	2002-11-19 08:50	925	158,0	160,0	98,75%
	2002-11-25 10:20	925	142,0		100,00%
	2002-12-02 10:50	925	104,0		96,30%
	2002-12-09 11:10	925	148,0	150,0	98,67%
				Medelvärde	99,05%
				SD	1,24%





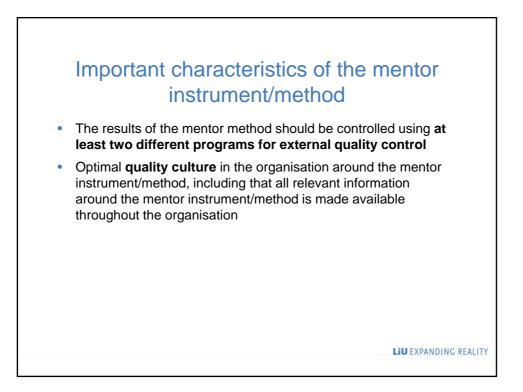


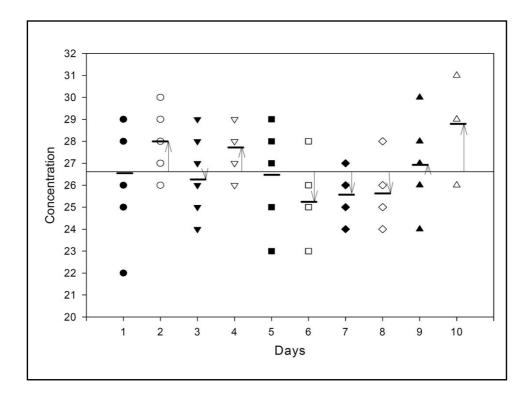




- The mentor method should have clear relation to Internationally accepted **calibrators** or
 - · Widely accepted reference method or
 - Absolute method
- Those practically responsible for the mentor method must have special knowledge and interest in quality control
- All **fundamental characteristics** (volyme, temperature, absorbance etc.) concerning the mentor method must be regularly **controlled**

LIU EXPANDING REALITY





Source of variation	squares	Degrees of free- dom	Mean square	sd	Cv%
Within da <u>y</u> s	$ss_{wd} = \sum_{i=1}^{d} \sum_{j=1}^{n} \left(x_{ij} - \overline{x}_i \right)^2$	d(n-1)	$ms_{wd} = \frac{ss_{wd}}{d(n-1)}$	$sd_{wd} = \sqrt{ms_{wd}}$	$\overline{d} cv_{wd} \% = \frac{sd_{wd}}{\overline{\overline{x}}} *100$
Between davs	$ss_{bd} = \sum_{i=1}^{k} n \left(\overline{x}_i - \overline{\overline{x}}\right)^2$	d-1	$ms_{bd} = \frac{ss_{bd}}{(d-1)}$	$sd_{bd} = \sqrt{ms_{bd}}$	$cv_{bd}\% = \frac{sd_{bd}}{\overline{\overline{x}}} *100$
Total	$ss_{tot} = \sum_{i=1}^{d} \sum_{j=1}^{n} (x_{ij} - \overline{\overline{x}})^2$	dn-1	$ms_{tot} = \frac{ss_{tot}}{dn-1}$	$sd_{tot} = \sqrt{ms_{tot}}$	$cv_{tot}\% = \frac{sd_{tot}}{\overline{\overline{x}}}*100$

		Unbalan	ced AN	AVC	
Source of variation	Sum of squares	Degrees of free- dom	Variance	sd	Cv%
Within davs	$ss_{wd} = \sum_{i=1}^{d} \sum_{j=1}^{n_i} x_{ij}^2$		$\operatorname{var}_{wd} = \frac{ss_{wd}}{N-d}$	$sd_{wd} = \sqrt{\mathrm{var}}$	$v^{wd} cv_{wd} \% = \frac{sd_{wd}}{\overline{\overline{x}}} *100$
Between davs	$ss_{bd} = \sum_{i=1}^{d} \left(\frac{s_i^2}{n_i} \right)^2$	$-\frac{s^2}{N}$ d-1	$\operatorname{var}_{bd} = \frac{ss_{bd}}{(d-1)}$	$sd_{bd} = \sqrt{\mathrm{var}_{bd}}$	$cv_{bd} \% = \frac{sd_{bd}}{\overline{\overline{x}}} *100$
Total	$ss_{tot} = \sum_{i=1}^{d} \sum_{j=1}^{n_i} x_{ij}^2$	$-\frac{S^2}{N}$ N-1	$\operatorname{var}_{tot} = \frac{ss_{tot}}{N-1}$	$sd_{tot} = \sqrt{\mathrm{var}_{tot}}$	$cv_{tot} \% = \frac{sd_{tot}}{\overline{\overline{x}}} * 100$
d=number	of days/runs	N=total number of c samples	ontrol		
n _i =number	r of controls/day	S=total sum of obse	rvations		
\overline{x} =mean of	f all observations	S _i =the sum of obser- each day	vations		
					LIU EXPANDING REALIT

Bit International Construction Image: Construct on the image: Construction of the image:										
Construction Construction<	<u> </u>				4					
Ibit Method Mean CV			isaì	kos írem			kemi (KSKK)	emi\KS Klin I	KL\Klinisk ke	2000-01-01 - 2001-08-11 -
Use Ub bandation Giouo by method Formation of Sequence adjusted information of sequence adjusted information of Sequence adjusted informatio S						cv	Mean	Method	N Lid	
Bit Converting KL Killinisk kernif (KSKN): 61720, S-GT KL Killinisk kernif (KSKN): CV CV N FirstDay LastDay First Human Motion Mona CV CV N FirstDay LastDay First Human Motion Mona CV CV CV N LastDay First Human Motion Mona CV		2001-06-07	2001-01-10	95	26,6	26,6	2,116	2093	9999680	Use LID translation
Image: stress in state in the stress in the stre					т	CT20 S			KL\Klinick ko	
□ Funct Immunolog Funct 9999110 2002 1,162 2,66 572 2001-01-10 2001-06-88 □ Funct Kinsk termanolog 999130 2002 5,442 6,15 6,17 15 2001-01-10 2001-06-88 □ Funct Kinsk termanolog 999130 2001 5,422 6,86 513 2001-01-10 2001-06-88 □ FUnct Kinsk termanolog 999150 2001 5,422 6,86 513 2001-01-10 2001-06-07 □ FUnct Ministatem 999160 2007 1,200 1 2001-05-01 2001-06-07 □ FUnct Statistic 999160 2007 5,469 6,55 5,51 11 2001-06-10 2001-06-88 □ FUnct Statistic 999160 2007 5,469 6,55 5,51 11 2001-06-10 2001-06-88 □ FUnct Statistic Statistic Statistic Statistic 7,64 7,64 2001-06-51 2001-06-01 Unct Minis		LastDay	FirstDay	N						
Image: Second										
Image: Stank server 9999170 2001 6,522 6,88 137 2001-09-10 2001-06-07 B: DS Kank server 9999150 2003 1,180 3,01 3,01 2,01 2,01 6,667 B: SS Kank server 9999150 2007 1,200 1 2001-06-07 201-06-07 B: SS Kank server 9999160 2007 1,200 1 2001-06-07 201-06-07 B: SS Kank server 999160 2007 5,450 6,55 1 2001-06-10 2001-06-07 B: SS Kank server 999190 2007 5,450 7,64 101 2001-06-10 2001-06-07 B: SS Kank server 999190 2007 5,450 7,64 101 2001-06-10 2001-06-07 B: SS Kank server 999194 2007 5,450 7,64 101 2001-06-10 2001-06-07 B: B: SY Kank server B: B: Memory KSK Ki H. Lit Method Method 3,45 3,45 3,45 2001-06-07 201-06-07										
[]] □: Kinkiket (DSK); 9999100 2003 1,180 3,01 287 2001-01-10 2001-06-07 []] □: SK inkiket (DSK); []] □: SK inkiket (DSK); 9999100 2007 1,200 1 2001-05-01 2001-06-01 []] □: SK inkiket (DSK); []] □: SK inkiket (DSK); 999910 2007 1,67 2,77 181 2001-06-10 2001-06-01 []] □: SK inkiket (DSK); 999910 2007 5,68 6,55 6,55 111 2001-06-10 2001-06-01 []] □: SK inkiket (DSK); 999910 2007 5,58 7,64 7,64 101 2001-06-10 2010-06-01 []] - Aftenukt Method Meon CV N Freizhow LastDay []] - Aftenukt Method Meon CV N Freizhow LastDay []] - Aftenukt Method Meon CV CV N Freizhow LastDay []] - Aftenukt Method Meon CV CV N Freizhow LastDay										 Klinisk farmakologi
B Edem (Velsam)ret (B): Stankern(DSK) 999910 2007 1, 200 - 1 2001-06-01 2001-06-01 (B): Stankern(DSK) 999910 2007 1, 200 - 7, 181 2001-06-10 2001-06-08 (B): Stankern(DSK) 999910 2007 5, 450 6, 55 111 2001-06-10 2001-06-08 (B): Stankern(DSK) 999910 2007 5, 450 7, 64 7, 84 101 2001-06-08 (B): Stankern(DSK) Method Method Method 7, 64 7, 84 101 2001-06-01 2001-06-01 (B): Stankern(DSK) Method Method Method Method 1, 120 2001-06-07 9999710 2146 0, 2409 3, 33 3, 33 3 2001-06-07 9999702 2146 1, 581 2, 452 3 2001-06-07 999970 9999702 2147 1, 581 2, 42 2, 42 2001-06-07 999970 9999702 2147 1, 581 2, 42										
Image: Startic New ICSSKI 9999190 2003 5,489 6,55 11 2001-01-02 2001-06-08 IB: KS Kin kew ICSSKI 9999190 2007 5,430 7,64 7,64 101 2001-05-01 2001-06-08 KL VKlinisk kew ICSSKI 9999190 2007 5,430 7,64 7,64 101 2001-06-10 2001-06-08 KL VKlinisk kew ICSSKI 9999101 2140 0,7763 3,45 3 2001-06-10 2001-06-07 9999701 2147 0,8409 3,31 3,31 4 2001-06-07 9999702 2147 1,681 2,42 2,42 010-06-07 9999702 2147 1,681 2,42 2,42 010-06-07 9999702 9999702 2147 1,681 2,42 2,42 010-06-07 9999702 9999702 147 1,681 2,42 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24 1,24							1,200			
Image: Instruction Image:										
Bit NS Kin keesi (NSKK) 9999194 2007 5,638 7,64 7,64 101 2001-01-0 2001-08-08 KL VRIInisk kemi/KS Klin kemi (KSKK) HAPT020, P-Haptoglobin (mass) H H Lid Method Maan CV CV N FirstDay LastDay 9999701 2146 0,7763 3,45 3 2001-06-10 2001-06-07 9999701 2147 0,840 3,31 3,31 3 2001-06-10 2001-06-07 9999702 2147 1,681 2,42 2,42 01 2001-06-07 9999702 2147 1,681 2,42 2,42 01 2001-06-07 9999702 2147 1,681 2,42 2,42 01 2001-06-07 9999702 2147 1,680 CY CY N ErstDay LastDay NL Minisk kemi/KS Klin kemi (KSKK) : HB, D-Hemoglobin (mass) H Lid CY 2,06 2,06 2,06 2,06 2,06 2,06 2,06 2,06					6,55	6,55				
KL:Klinisk cemi/KS:Klin.kemi (KS:Kl): 1HAP1020; P-Haptoglobin (mass) N Lite Method Mass 9999701 2146 0,7763 3,45 3 2001-05-31 2001-06-07 9999701 2147 0,8409 3,31 3,31 3,31 3,2001-05-31 2001-06-07 9999702 2146 1,583 3,83 3,83 3 2001-06-07 9999702 2147 1,581 2,42 2,42 12 0101-06-07 9999702 2147 1,581 2,42 2,42 12 0101-06-07 9999702 2147 1,581 2,42 2,42 12 0101-06-07 9999702 2147 1,581 2,42 2,491 2001-06-07 2001-06-07 KL/Klinisk kemi/KS-Klin kemi (KS:Kk): HB, D-Hemoglobin (mass) Method Means CV C N 201-06-07 9999100 2015 58,95 2,13 2,90 2,00 2,00 2,00 2,00 2,01 2,01-04-07 9999400					7,64	7,64				
N. Lid Method Mean CV CV C FreiDay LastDay 9999701 2146 0.7763 3.45 3.45 3.2001-06-07 9999701 2147 0.8409 3.31 3.31 9.4 2001-06-07 9999702 2146 1.681 3.233 3.33 2001-06-07 9999702 2147 0.8409 3.31 3.33 2001-06-07 9999702 2147 1.681 2.422 2.42 9 2001-06-07 9999702 2147 1.681 A 2.422 2.42 9 2001-06-07 9999702 2147 1.681 A 2.422 2.42 9 2001-06-07 9999702 2146 5.95 5.07 5.07 367 2001-06-07 9999100 2015 5.08 2.06 2.00 2001-06-07 9999100 2015 5.08 2.08 2.09 2001-06-07 99999100 2015 5.98 2.									I	- All results
9999701 2146 0.7763 2,45 3 2001-05-31 2001-06-07 9999701 2147 0,8409 3,31<		LastDay								
9999701 2147 (0,4409 3.31 3.31 9.4 2001-01-07 2001-06-07 9999702 2146 1,593 3.83 3.83 3.33 32001-06-07 9999702 2147 1,681 2,42 2,42 91 2001-06-07 9999702 2147 1,681 2,42 2,42 91 2001-06-07 NLid Method Mean CV CV C FirstDay LastDay 999910 2014 59,59 5,07 5,07 387 2001-01-10 2001-06-07 999910 2015 58,85 2,06 2,06 2,06 2,06 2,00 2,01 0.01-06-07 999910 2015 58,85 2,16 2,06 2,00 2,010-01-10 2001-06-07 999910 2015 58,52 2,13 399 2001-01-10 2001-06-07 9999400 2015 12,0,4 1,78 1,88 389 2001-01-10 2001-06-08 99										
9999702 2147 1,681 2,42 2,42 91 2001-01-10 2001-06-07 KL:Klinisk emir/KS Kills, keni (KS:Kil), 1H8, B-Hemoglobin (mass) N Lid Method Mass Kills										
KL:Klinisk kemi/KS Klin Kin Method Mean CV CV C FirstDay LastDay 9999100 2014 59,55 5,07 5,07 367 2001-01-10 2001-06-07 9999100 2014 59,56 2,06 2,06 200 2001-06-07 9999100 2015 50,85 2,06 2,06 200 2001-06-07 9999400 2015 12,04 1,78 1,89 399 2001-06-08 99994000 2015 12,0,4 1,78 1,78 244 2001-06-08 99999400 2015 12,0,4 1,78 1,78 244 2001-06-08 99999400 2015 12,0,4 1,78 1,84 10 2001-06-08										-
N. Lid Method Mean CV ČV C N. FrstDay LastDay 9999100 214 59,59 5,07		2001-06-07	2001-01-10	91	2,42	2,42	1,681	2147	9999702	
N List Method Mean CV CV C N FredDay Labbay 9999100 2014 59,59 5,07				(mass)	moalobin	: HB. BHe	kemi (KSKK)	emi\KS Klin [KL\Klinisk ke	
9999100 2015 58,85 2,06 240 2001-01-10 2001-06-07 9999100 2015 58,52 2,13 2,13 389 2001-01-10 2001-06-08 9999400 2014 119,6 1,88 1,89 399 2001-01-10 2001-06-08 9999400 2015 120,4 1,78 1,78 245 2001-01-10 2001-06-07 9999400 2015 120,4 1,78 1,78 245 2001-01-10 2001-06-07				N	CV C	CV	Mean	Method	N Lid	
9999100 2016 56,52 2,13 2,9 2,01 389 2001-01-01 2001-06-08 9999400 2014 119,6 1,88 1,88 389 2001-01-10 2001-06-08 9999400 2015 120,4 1,78 1,78 2,45 2001-01-10 2001-06-07 9999400 2015 118,0 1,98 1,98 410 2001-01-10 2001-06-08										
9999400 2014 119,6 1,88 1,88 399 2001-01-0 2001-06-0 9999400 2015 120,4 1,78 1,78 245 2001-01-10 2001-06-0 9999400 2016 119,0 1,98 1,09 410 2001-01-10 2001-06-08										
9999400 2016 118,0 1,98 1,98 410 2001-01-10 2001-06-08										
		2001-06-07	2001-01-10		1,78	1,78	120,4	2015	9999400	
9999500 2014 59,70 1,53 1,53 27 2001-02-23 2001-04-23 9999500 2015 59,00 1,23 1,23 20 2001-02-23 2001-04-23										
9999500 2015 59,00 1,23 1,23 20010223 20010423 9999500 2016 58,82 1,54 1,54 28 2001-02-23 2001-04-24										
9999600 2014 120,3 0,930 0,930 30 2001-02-23 2001-04-23		3 2001-04-23	2001-02-23	30						
9999600 2015 120,9 0,802 0,802 19 2001-02-23 2001-04-23										
9999600 2016 119,3 1,42 1,42 31 2001-02-23 2001-04-24		3 2001-04-24	2001-02-23	31	1,42	1,42	119,3	2016	888800	
KL\Klinisk kemi\KS Klin kemi (KSKK) : HCG24, FLX00366					X00366	: HCG24, F	kemi (KSKK)	emi\KS Klin I	KL\Klinisk ke	
N Lid Method Mean CV CV C N FirstDay LastDay					CV C	CV				
9999370 2006 2,840 1 2001-04-30 2001-04-30 9999380 2004 4,580 37,2 37,2 218 2001-01-09 2001-06-07					27.2	27.2				
9999380 2006 5,145 30,2 30,2 191 2001-01-10 2001-06-08										
9999390 2004 24,42 8,16 8,16 228 2001-01-09 2001-06-07				228						

