



Helga Birna Gunnarsdóttir



Ingunn Björnsdóttir

INTRODUCTION

Prescription databases have increasing usability for monitoring purposes, statistics & research, assuming sufficient data quality

Errors in defined daily doses (DDD)s found in the Icelandic Prescription Registry in 2011, similar to those found in Icelandic Drug Statistics in 1994

Aim to complete mapping of DDD definitions in the Icelandic prescription registry & analyse types of errors .. started in 2011

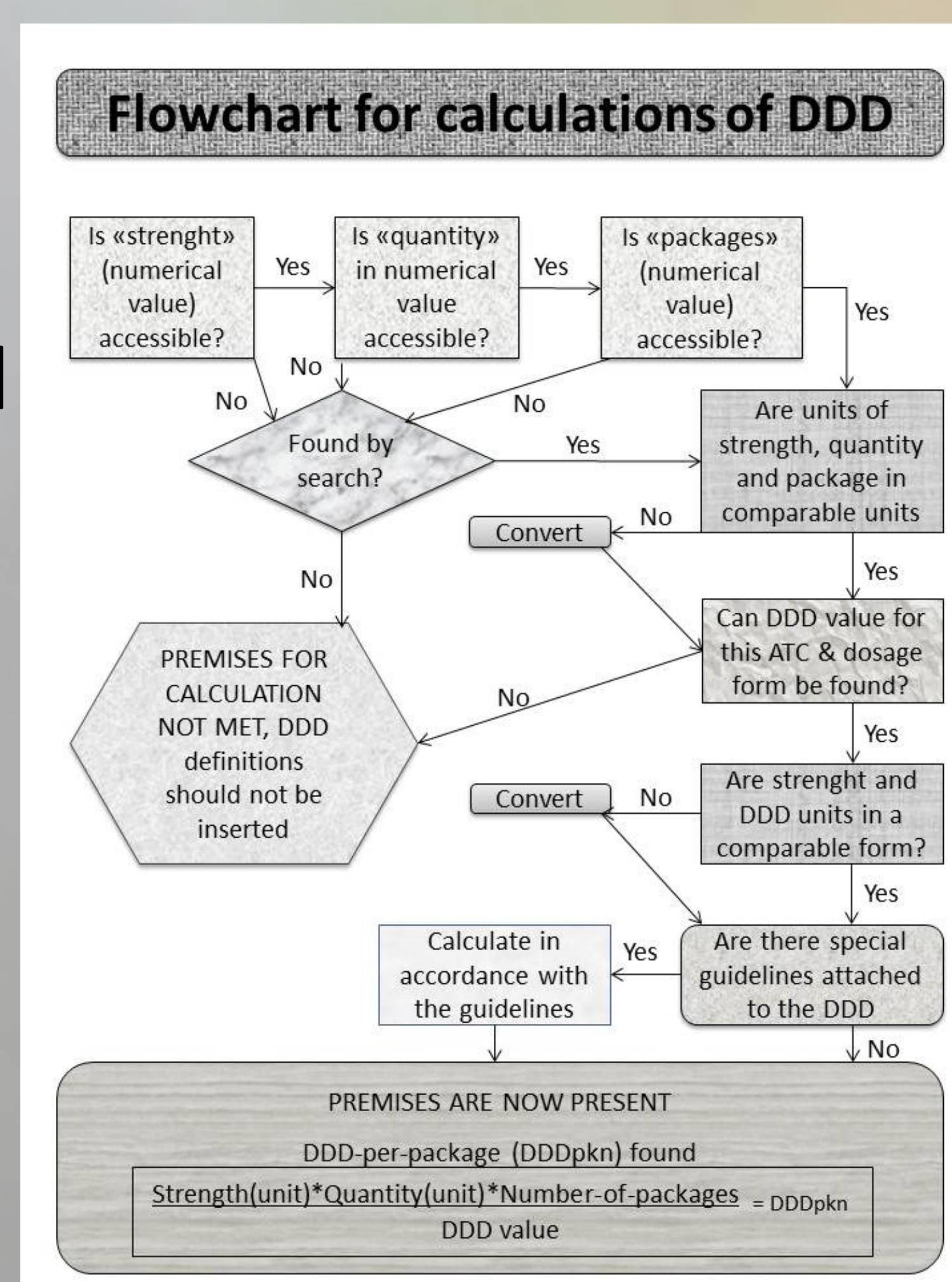
METHODS

Electronic mapping tried

Manual line by line validation, restricted to used in Iceland, based on:

- DDD list
- Guidelines for ATC/DDD methodology
- WHO combinations list
- SPCs, to calculate DDD

Mapping data locked in from 7.1.2013 to



RESULTS

... data delivery 7.8.2015 after requests &
4th Information Committee “deliver” ruling

5.919 checked lines, 1.813 errors found

A T C	Ratio of each ATC in the docu- ment [%]	Discrepancy in total		Discrepancy, most frequent to least frequent type, in the respective ATC							
		ATC's total	[%]	1.	2.	3.	4.	5.	6.	7.	8.
A	11,64	153	2,58	37	37	23	20	16	7	7	6
B	5,12	165	2,79	67	39	34	11	7	4	3	0
C	11,62	148	2,50	41	35	33	18	11	8	1	1
D	6,20	224	3,78	204	19	1	0	0	0	0	0
G	5,44	74	1,25	22	15	9	8	8	6	5	1
H	2,45	71	1,20	29	27	10	4	1	0	0	0
J	9,00	131	2,21	68	24	14	13	9	2	1	0
L	5,12	157	2,65	99	31	9	8	8	2	0	0
M	5,69	55	0,93	17	11	11	9	3	3	1	0
N	24,75	329	5,56	135	56	51	47	23	7	5	5
P	0,96	22	0,37	7	6	4	2	1	1	1	0
R	4,97	49	0,83	13	13	9	4	3	3	3	1
S	3,53	78	1,32	49	13	9	3	2	1	1	0
V	3,41	157	2,65	151	4	1	1	0	0	0	0

Colour codes

	Insufficient basis for calculations
	Sufficient basis for calculations, error found
	No definition of DDD from WHO so DDDpkn is erroneously registered
	DDDpkn not defined in the database, but should be
	Rounding error
	Unexplained discrepancy
	Computer error, DDDpkn defined as 0,000 but should have a value
	Computer error, No DDD definition from WHO, but DDDpkn defined as 0

- | | |
|--|-----|
| 1. DDD set to 0,000 but should be empty: | 526 |
| 2. "Icelandic" DDD definitions, | 346 |
| 3. Inappropriate rounding: | 345 |
| 4. DDD not defined but should be: | 254 |
| 5. Discrepancy, set to a wrong value: | 193 |
| 6. DDD set to 0,000 but should be a value: | 81 |
| 7. calculations reveal discrepancy: | 40 |
| 8. insufficient information to calculate: | 28 |

Electronic validation unsuccessful

Column colour codes

actor in large column, receiver in small column

Directorate of Health while researcher works there
Icelandic Health Insurance
Researcher
Chief Medical Officer / Directorate of Health
Medicines Pricing and Reimbursement Committee
Information Committee
Data Protection Authority
Althing Ombudsman
Ministry of Health
Newspaper
University of Iceland
Icelandic Medicines Agency
University of Iceland

TIMELINE

Background picture: Olgeir Andr sson

CONCLUSION

- Need higher quality & uniform registration
- Development of electronic methods failed
- Measures to facilitate quality control in the future have been pointed out