Data Quality Report

Healthy Baby Prenatal Benefit

June 2001 - July 2019

Administrative data from the Healthy Child Manitoba Healthy Baby Prenatal Benefit program, a program that provides financial benefits to help women meet nutritional needs during pregnancy and acts as a mechanism for connecting women to health and community resources in their area. Data are available for all women who have applied for the benefit as well as the applicant's spouse. Details include income, education, marital status, benefit eligibility, and benefits received.



Say Hong Manitoba Centre for Health Policy

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This report was based on methods and concepts described in:

Smith M, Lix LM, Azimaee M, Enns JE, Orr J, Hong S, Roos LL. <u>Assessing the quality of</u> <u>administrative data for research: a framework from the Manitoba Centre for Health Policy</u>, J Am Med Inform Assoc., September 1, 2017.

Overview of Database

Domain	SPDS Table	Dataset Label	Number of Records	Number of Fields		
SOCIAL		Healthy Baby Prenatal Benefit June 2001 onwards	81954	40		

Summary

- This extract of Healthy Baby Prenatal Benefit data is provided as one table as compared to the previous extract which was provided in multiple tables. Current data years is June 2001 to July 2019.
- The percentage of linkable records is high at 99.75%

Data Model

HCM_HBPNB_2001JUN						
ACQDT	Date	8	1			
ETHNICCODE	Char	2				
REGIONCODE	Char	2				
MARITALSTATUSCODE	Char	2				
APPLICATIONID	Num	8				
BENEFITAMOUNTROLLUP	Num	8				
CREATED_DT	Date	8				
RECEIVED DT	Date	8				
CONFINEMENT_DT	Date	8				
TERMINATION_DT	Date	8				
TERMINATION_NOTIFICATION_DT	Date	8				
ELIGIBILITY_DT	Date	8				
COMPLETION_DT	Date	8				
EDUCATIONCODE	Char	2				
FIRSTPREGNANCYIND	Char	2				
EDDCONFIRMEDIND	Char	2				
INCOMEAMOUNT_APPLICANT	Num	8				
INCOMEAMOUNT_SPOUSE	Num	8				
SOCALLOWTYPEIND	Char	2				
GENDER	Char	2				
BIRTH_DT	Date	8				
MHSCNUM	Num	8				
TREATYSTATUSIND	Char	2				
ONRESERVEIND	Char	2				
FIRSTNATIONCODE	Num	8				
IAFIRSTNATIONCODE	Num	8				
NEWCOMERTOCANADA	Char	2				
AMOUNTPAID	Num	8				
AVG_CHEQUEAMOUNT	Num	8				
NUM_CHEQUES	Num	8				
CITYNAME	Char	41				
PROVINCESTATE	Char	3				
POSTALZIPCODE	Char	9				
PERSONID	Num	8				
RECID	Num	8				
CANCODE	Char	1				
LINK	Char	5	Lege			
SEX	Char	1				
FILEPHIN	Num	8	Primary			
FILEPHINTYPE	Char	1	Foreign			

Accuracy: Completeness and Correctness (VIMO Table)

	Dataset Label: Healthy Baby Prenat	al Benefit June 2001 onwards		Records:	81954	L	.egend (Potentia		y Problems)	:		
	Dataset Name: hcm_hbpnb_2001jun			Period: 20	01-2019		None or Minimal < 5%	Moderate 5-30%	Significant > 30%			
	SUPPRESSED = Variables being sup	opressed in data flie										
	* = All postal codes listed here have	frequency count > 20				L	egend for comm	ment column				
	= No variance or 100 % missing valu	9				E	Blank = variables	shave not be	en tested (n	o formats	have been s	pecified for the variables)
						3	? = Variables hav	ve been teste	ed against th	e associa	ted formats	and no invalid values found
TYPE	Variable Name	Variable Label	VALID	INVALID	MISSING C	UTUER	MIN	MAX	MEAN	MEDIAN	STD	COMMENT
	APPLICATIONID	Application Number	100.00		.00	or elert				in contra	0.0	COMMENT.
	FILEPHIN	MH Scrambled PHIN	100.00		.00							
₽	PERSONID	Person Id Number	100.00		.00							
	RECID	Record ID	100.00		.00							
	AMOUNTPAID	Total Amount Paid to the applicant	91.57		8.43	.00	10.00	732.69	444.68	488.46	134,45	
	AVG CHEQUEAMOUNT	Avg cheque amount	83.08		8.43	8.50	10.00	189.96	78.17	81.41	12.23	
	BENEFITAMOUNTROLLUP	Benefit Amount	83.26		2.39	14.35	0.00	81.41	73.36	81.41	22.22	-
	FIRSTNATIONCODE	First Nation Code	82.29		.00	17.71	0.00	62.00	8.64	.00	16.78	
Ę	IAFIRSTNATIONCODE	First Nation Code	82.17		.00	17.83	0.00	62.00	8.83	.00	16.89	
ž	INCOMEAMOUNT APPLICANT	Applicant income from CRA	53.37		46.46	.17	-3371.00	642460273	22073.25		3067075.35	
	INCOMEAMOUNT SPOUSE	Spousal income from CRA	24.97		74.98	.05	-12274.00	304320.00	13679.66	11401.69	12739.35	
	MHSCNUM	MHSC number	98.60		1.40	.00	0.00	677125361			2396871.77	7
	NUM CHEQUES	Number of cheques received	91.57		8.43	.00	1.00	9.00	5.69	6.00	1.46	
		Hamber of choques received			0.40		1.000		served Value		1.000	
	CANCODE	Cancellation code	99.75		.25). X. 7. 2. H. J. V.					
	CITYNAME	City	94.66		534		Vinnipeg, Brandor		Nonway Hou	ee Portage	La Prairie	
	EDDCONFIRMEDIND	Due date confirmed by doctor - Y/N	100.00		.00		C N	n, orosa care,	Hormay rida	au, r ortuge	Car Harks,	2
	EDUCATIONCODE	Education Code	100.00		.00		S. G. P. E. U					3
	ETHNICCODE	Ethnic code	98.73		1.00 S, G, P, E, U 1.27 SUPPRE \$\$ED						2	
	FILEPHINTYPE	Method to Determine FILEPHIN	100.00		.00). 4					
	FIRSTPREGNANCYIND	First Pregnancy Y/N	100.00		.00	-	NY.U					
	GENDER	BithDate	100.00		.00		5. M					
-	UNK	Link indicator	100.00		.00		ASS1. LINK1. LI	NK2 LINK3 L	INKA NONE			
Char	MARITALSTATUSCODE	Marital Status Code			.00		. 2. 0	initiz, citano, c	INNA, NONE			3
0	NEWCOMERTOCANADA	Newcomer to Canada	100.00		.00		N. Y					1
	ONRESERVEIND	On Reserve Y/N	100.00		.00		N, T					2
	POSTALZIPCODE *	Postal Code	94.66		5.34		R0B0J0, R0B1B0,	DODOTO DOD	100 808110	роното	000310 00	-
	PROVINCESTATE	Province	94.66					NUBUTU, NUB	ICO, NOBISO	, Nono Io,	N00320, N0	
	REGIONCODE	Region Code	99.96			5.34 MB, QC .04 10, 80, 40, 30, 60, 20, 70, 15, 25, 50					2	
	SEX	Sex (MCHP)	100.00								f	
	SOCALLOWTYPEIND	Type of Social Assistance	42.14		57.86	.00 2,1 57.86 P. B. M				3		
	TREATYSTATUSIND	Treaty Status Y/N	99.98		.02		ч, в, м N. Y					F
	ACODT	Date Record was Acquired at MCHP	100.00		.02		2019-11-28	2019-11-28				
	BIRTH DT	Birth date	99,99		.00	_	1947-02-24	2019-11-26				
	COMPLETION DT	Date application completed	94.92	.00	5.08		2001-07-01	2018-03-25				2020-07-08 (1 Invalid Obs. in total)
	CONFINEMENT DT	Expected Due Date	97.87	1.85	.08		2001-07-01	2020-07-08				1513 invalid obs. out of [2001-06-01, 2019-07-31] range
	CREATED_DT	Date applicated entered	100.00	.00		.00 1582-10-14 2019-07-29				1582-10-14 (2 Invalid Obs. in total)		
Date	EUGIBILITY DT	Date eligible for benefits	94,91	.00	5.02		2001-07-01	2019-07-29				54 invalid obs. out of [2001-06-01, 2019-07-31] range
			100.00	.07	.00			2020-07-08				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	RECEIVED_DT	Date applicated entered	100.00		.00		2001-06-14	2019-07-29				: 1000 01 01 0001 01 15 0010 11 10 / 17 hours 11 0ho
	TERMINATION_DT	Date pregnancy terminated - ususally if early	8.81	.02	91.17		1900-01-01	2019-11-19				1900-01-01, 2001-01-15, 2019-11-19 (17 Invalid Obs. in total)
	TERMINATION_NOTIFICATION_DT	Date notified of termination date	8.83	.06	91.11		1900-01-01	2207-07-11				49 invalid obs. out of [2001-06-01, 2019-07-31] range

Linkability

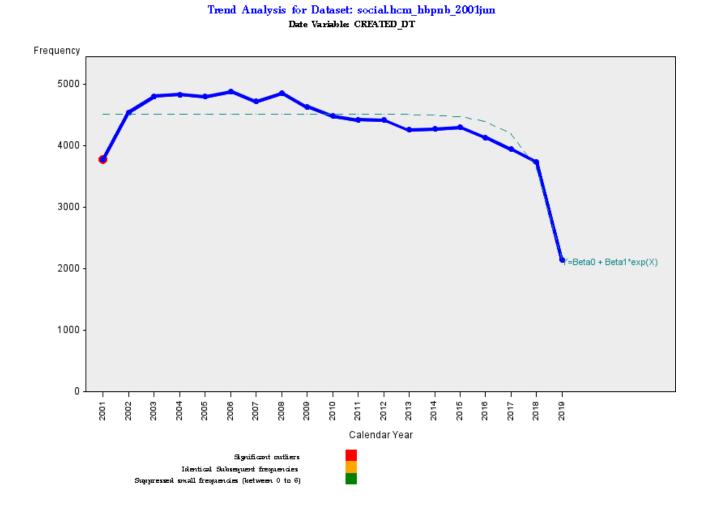
Dataset	Total Number of	Number of Linkable	% Linkable	Number of Linkable
	Records	Records	Records	Individuals
HCM_HBPNB_2001JUN	81954	81749	99.75	48151

PHIN Type

FILEPHIN TYPE	HCM_HBPNB_2001JUN
0 MH verified against concurrent registries	99.75
4 MCHP db specific ScrPHIN - No MH found	0.25

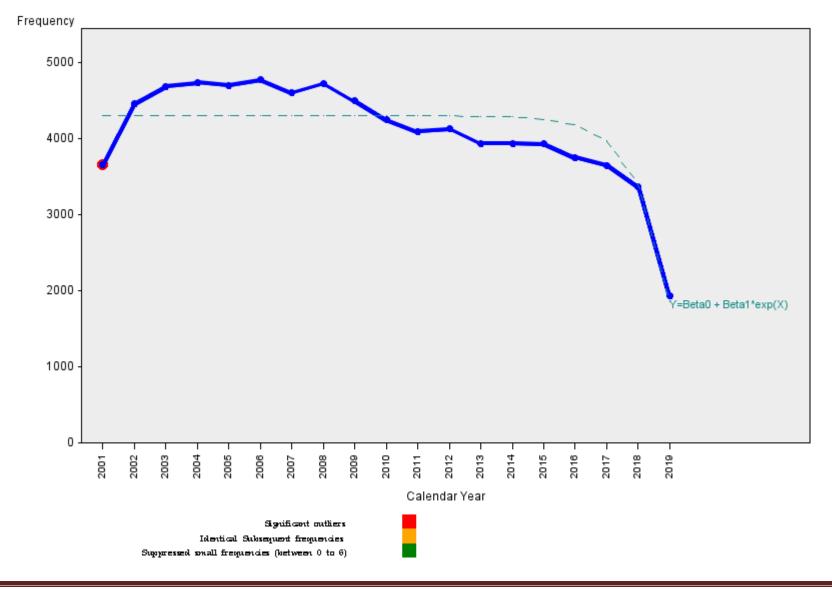
Internal Validity: Trend Analysis

Trend Analysis for Dataset: socialhcm_hbpnb_2001jun Date Variable: CREATED_DT

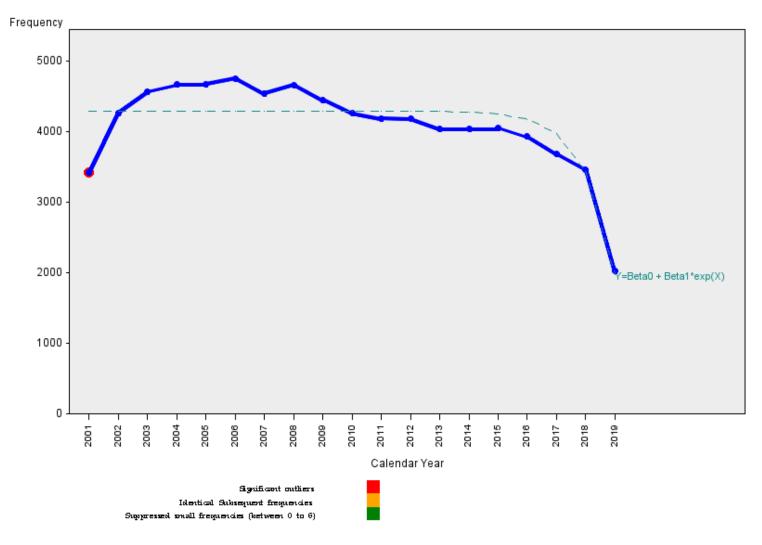


Trend Analysis for Dataset: socialhcm_hbpnb_2001jun Date Variable: COMPLETION_DT





Trend Analysis for Dataset: socialhcm_hbpnb_2001jun Date Variable: ELIGIBILITY_DT



Trend Analysis for Dataset: social.hcm_hbpnb_2001jun Date Variable: ELIGIBILITY_DT

Trend Analysis for Dataset: socialhcm_hbpnb_2001jun Date Variable: RECEIVED DT

Trend Analysis for Dataset: social.hcm_hbpnb_2001jun Date Variable: RECEIVED_DT

