

LIFECYCLE EVALUATION OF MEDICAL DEVICES – SUPPORTING OR JEOPARDIZING PATIENT OUTCOMES? A COMPARATIVE ANALYSIS OF EVALUATION MODELS

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Harkin_Supplemental-8_Model Characteristics

Model Characteristics

<i>Model</i>	Device Type	Process Type	Evaluation Type	Model Type	Data Type	QA Score	Year 1st reference of model
<i>Baldock-NPD</i>	Innovation – Product	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	0	1960
<i>DOI</i>	Innovation	A logic used to explain a causal relationship in a variance theory	Exploratory and/or Explanatory	Theory	Quantitative	2	1962
<i>PLC</i>	Product	A sequence of events that describe how things change over time	Prescriptive	Model	Quantitative	1	1930
<i>Bass</i>	Product	A logic used to explain a causal relationship in a variance theory	Predictive	Model	Quantitative	2	1963
<i>IRP</i>	Innovation – Policy	A sequence of events that describe how things change over time	Exploratory and/or Explanatory	Model	Qualitative	1	1979
<i>7Sm-IC</i>	Innovation – Health Technology	A sequence of events that describe how things change over time	Descriptive	Model	Mixed	1	1981

<i>BAH-NPD</i>	Product	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	0	1982
<i>BLC</i>	Business	Combines both a sequence of events that describe how things change over time and a category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	1	1982
<i>ILC</i>	Industry	A sequence of events that describe how things change over time	Exploratory and/or Explanatory	Model	Quantitative	2	1982
<i>CK-NPD</i>	Innovation – Product	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	2	1980
<i>Norton-Bass</i>	Product	A logic used to explain a causal relationship in a variance theory	Predictive	Model	Quantitative	2	1987
<i>SG-CK-NPD</i>	Product	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	2	1990
<i>G-Bass-M</i>	Product	A logic used to explain a causal relationship in a variance theory	Predictive	Model	Quantitative	2	1994
<i>TRL</i>	Technology	A sequence of events that describe how things change over time	Descriptive	Model	Qualitative	0	1995
<i>MDDP</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	0	1997
<i>4S-IEE</i>	Health Technology	Combines both a sequence of events that describe how things change over time and a category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	0	1997

<i>VA-NPD</i>	Medical Devices – assistive	A category of concepts that refer to actions of individuals or organisations	Descriptive	Model	Qualitative	1	1997
<i>TPLC</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Descriptive	Framework	Qualitative	0	1999
<i>RE-AIM</i>	Health Technology – Public Health intervention	A category of concepts that refer to actions of individuals or organisations	Descriptive	Framework	Mixed	1	1999
<i>TALC</i>	Technology	A sequence of events that describe how things change over time	Prescriptive	Model	Quantitative	1	1991
<i>MDLS</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	1	1999
<i>HCTLC</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Descriptive	Framework	Qualitative	0	2003
<i>SUHCD</i>	Health Technology	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	2	2004
<i>DDDI</i>	Innovation – Health Technology	A logic used to explain a causal relationship in a variance theory	Exploratory and/or Explanatory	Theory	Quantitative	3	2004
<i>TALC-CAHF</i>	Technology	A sequence of events that describe how things change over time	Predictive	Framework	Quantitative	2	2004
<i>SG-MDDP</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Descriptive	Model	Qualitative	1	2009

<i>IEF</i>	Industry	A sequence of events that describe how things change over time	Exploratory and/or Explanatory	Framework	Mixed	2	2009
<i>IRM-TRL</i>	Technology	A sequence of events that describe how things change over time	Descriptive	Model	Qualitative	0	2009
<i>IDEAL</i>	Innovation – Surgery	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	0	2009
<i>EIM-2DA</i>	Innovation – Surgery	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	2	2010
<i>TLC</i>	Health Technology	A sequence of events that describe how things change over time	Descriptive	Model	Mixed	0	2010
<i>IC+</i>	Product	A logic used to explain a causal relationship in a variance theory	Descriptive	Model	Mixed	0	2010
<i>MDLC</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	0	2011
<i>Bhuiyan-NPD</i>	Innovation – Product	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	1	2011
<i>USVP</i>	Business	A sequence of events that describe how things change over time	Exploratory and/or Explanatory	Framework	Qualitative	2	2007
<i>WW-IC</i>	Innovation – Surgery	Combines both a sequence of events that describe how things change over time and a category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	0	2013

<i>IC</i>	Innovation – Product	Combines both a sequence of events that describe how things change over time and a category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	0	2013
<i>HCanada-MDRegLC</i>	Health Technology	A category of concepts that refer to actions of individuals or organisations	Descriptive	Framework	Qualitative	0	2012
<i>TGA-MDRegLC</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	0	2014
<i>RxLCF</i>	Innovation – Surgery	A sequence of events that describe how things change over time	Prescriptive	Framework	Mixed	0	2014
<i>PrLC</i>	Technology	A sequence of events that describe how things change over time	Descriptive	Model	Qualitative	0	2014
<i>ELC</i>	Medical Devices – Equipment	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	0	2005
<i>IDEAL-D</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	1	2016
<i>PILC</i>	Innovation – Product	A category of concepts that refer to actions of individuals or organisations	Descriptive	Framework	Qualitative	0	2016
<i>nHTLC4I</i>	Innovation – Health Technology	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	1	2017
<i>OIM-DA</i>	Medical Devices – Orthopaedic implantables	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	1	2017

<i>HTLC</i>	Health Technology	Combines both a sequence of events that describe how things change over time and a category of concepts that refer to actions of individuals or organisations	Prescriptive	Model	Qualitative	0	2017
<i>NASSS</i>	Innovation – Health Technology	A logic used to explain a causal relationship in a variance theory	Predictive	Theory	Quantitative	3	2017
<i>IRM- SaMDDP</i>	Medical Devices – Software	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	1	2014
<i>EUnetHTA- MDLC</i>	Health Technology	A category of concepts that refer to actions of individuals or organisations	Descriptive	Framework	Qualitative	0	2018
<i>FDA- MDRegLC</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Descriptive	Framework	Qualitative	0	2018
<i>Swissmedic- MDRegLC</i>	Medical Devices	A category of concepts that refer to actions of individuals or organisations	Prescriptive	Framework	Qualitative	0	2017