



Stjórnarráð Íslands  
Heilbrigðisráðuneytið



35TH ANNUAL CONFERENCE PCSI  
REYKJAVÍK, 27-30. SEPTEMBER 2022

**Tuesday (27<sup>th</sup> September 2022)**

	<b>Room 1</b>	<b>Room 2</b>	<b>Room 3</b>	<b>Room 4</b>
8:30	Registration			
09:30–12:30	<b>Workshop 1</b> Introduction to Casemix Costing  <i>Kevin Ratcliffe</i>	<b>Workshop 2</b> A smooth introduction to casemix for newcomers  <i>Jean Marie Rodrigues and faculty of PCSI Summer School</i>	<b>Workshop 3</b> Health care data governance: Meeting the skills needs of information quality advocates in the health sector  <i>Mary Black, Paul O'Connor and Lee Ridoutt</i>	
12:30–13:30	Lunch			
13:30–16:30	<b>Workshop 4</b> From casemix to clinics  <i>Michael Wilke et al.</i>	<b>Workshop 5</b> Towards a sustainable person centered health system, digitally empowered  <i>Jacob Hofdjik et al.</i>	<b>Workshop 6</b> An introduction to patient level costing and data analytics  <i>Christian Pepin et al</i>	<b>Workshop 7</b> The systems, process and people underlying a patient activity data collection system  <i>Marie Glynn, Mark O'Connor et al</i>
17:00	Welcome reception			



Wednesday (28 <sup>th</sup> September 2022)				
	Room 1	Room 2	Room 3	Room 4
08:00	Registration			
09:00–10:00	Welcome to Conference presentation <span style="float: right;">Chair: D Burduja</span>			
10:00–11:00	Keynote Presentation: Dr Maria Heimisdóttir <span style="float: right;">Chair: D Burduja</span>			
11:00–11.30	Breaks/Poster viewing			
11:30–13:00	<b>NORDIC TRACK</b> <b>Sustainable health care</b> Chair: P Rosling	<b>Funding 1</b> Chair: A D'Amato	<b>Classification development 1</b> Chair: M Wilke	<b>Casemix and clinical coding</b> Chair: O Steinum
	Technology as a door opener – working together for better patient care  <i>Eva Wensaas</i>	Using case mix adjustment to devise a fairer resource allocation formula in UK primary care  <i>David Shepherd, Alan Thompson, James Barrett and Stephen Sutch</i>	Casemix in aged care: creating the foundations for much-needed reform  <i>Kathy Eagar, Rob Gordon, Milena Snoek, Conrad Kobel and Carol Loggie</i>	An ontology for ICD11 Chapter 1: Certain infectious or parasitic diseases  <i>Jean Marie Rodrigues, Constant Joseph Kone, Théophile Tiffet, Béatrice Trombert-Paviot and Michel Babri</i>
	Sustainable health services and integrated care: From activity to casemix and activity based funding  <i>Sissel Husøy and Kristin Dahlen</i>	Activity Based Funding Implementation Plan 2021–2023: Progress in a COVID environment  <i>Brian Donovan</i>	Development of oral health casemix system: An innovation for quality and efficiency of oral health care services in Malaysia  <i>Rosminah Mohamed and Syed Mohamed Aljunid Syed Junid</i>	Developing 'facility tools' to improve clinical correct coding and settlements at Aarhus University Hospital  <i>Susanne Øllgaard and Niklas Munksgaard Berg</i>
	Collaboration activities and digital health care – challenges for cost analysis  <i>Ann Lisbeth Sandvik and Jostein Bandlien</i>	New features for the French hospital Financial Incentive for Quality Improvement Program (IFAQ)  <i>Marie-Caroline Clement, Florent Monier, Clément Rallet, Joëlle Dubois and Véronique Sauvadet-Chouvy</i>	A casemix classification for ambulance services  <i>Deniza Mazevska, Jim Pearse, Matthew Bell, Joe Sakhaei Sakhaei, Susan Dunn and Peter Payne</i>	Medical coding error: Will it affect the budgeting of the hospital?  <i>Mohamad Helmi Mohamad Yasim, Amirah Azzeri, Muhammad Khairul Asraf Shah Nizamuddin, Mohd Hafiz Jaafar and Maznah Dahlui</i>



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<b>Wednesday</b> 11:30–13:00	<b>NORDIC TRACK</b> <b>Sustainable health care</b> <i>Chair: P Rosling</i>	<b>Funding 1</b> <i>Chair: A D'Amato</i>	<b>Classification development 1</b> <i>Chair: M Wilke</i>	<b>Casemix and clinical coding</b> <i>Chair: O Steinum</i>
	DRG and the use of digital health care in the Zealand Region  <i>Kristin Hultgren</i>	The extension of the hospital Financial Incentive for Quality Improvement program (IFAQ) to psychiatric hospitals in France  <i>Steve Briand, Marie-Caroline Clement, Anis Ellini, Robin Louvel, Florent Monier, Clément Rallet, Pauline Renaud, Véronique Sauvadet-Chouvy and Joëlle Dubois</i>	Enhancements to the Emergency Visits component of Comprehensive Ambulatory Classification System (CACS) methodology  <i>Koffi Kpelitse, Tina Li and Yvonne Rosehart</i>	The disease burden of cardiac inpatient cases in 2020 according to My-DRG code at a teaching hospital  <i>Muhammad Khairul Asraf Shah Nizamuddin, Amirah Azzeri, Mohamad Helmi Mohamad Yasim, Imran Zainal Abidin and Maznah Dahlui</i>
13:00–14:00	Lunch			
14:00–15:30	<b>NORDIC TRACK</b> <b>Costing and development</b> <i>Chair: A Nemlander</i>	<b>Funding 2</b> <i>Chair: P Monteith</i>	<b>Classification development 2</b> <i>Chair: Guðmann Ólafsson</i>	<b>Casemix within countries</b> <i>Chair: JM Rodrigues</i>
	Defining the nursing cost per patient's care day price  <i>Sanna Kautto</i>	A framework for considering hospital payment options  <i>Stephen Duckett, Andrew Street and Chris Walters</i>	Introducing Diagnosis Related Groups in countries with smaller populations: Path towards implementation and typical challenges  <i>Natascha Andres and Philipp Wacker</i>	Another step forward in the Slovenian DRG System  <i>Martina Zorko Kodelja</i>



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<b>Wednesday</b> 14:00–15:30	<b>NORDIC TRACK</b> <b>Costing and development</b> <i>Chair: A Nemlander</i>	<b>Funding 2</b> <i>Chair: P Monteith</i>	<b>Classification development 2</b> <i>Chair: G Ólafsson</i>	<b>Casemix within countries</b> <i>Chair: JM Rodrigues</i>
	DRG and case costing model for primary care <i>Jan Sölch, Mikael Havasi, Ralph Dahlgren</i>	How have COVID-19 and the policy objective of access to care altered the cost-volume-profit relationships of U.S. hospitals? <i>Dana Forgione, Arpita Shroff, Benedikt Quosigk and Rabih Zeidan</i>	Casemix classification for Dutch homecare payment: Developing a casemix model <i>Maud de Korte, Anne van den Bulck, Gertjan Verhoeven, Lieuwe van der Weij, Arianne Elissen, Silke Metzelthin, Teanne de Witte, Dirk Ruwaard and Misja Mikkers</i>	Implementation of a patient level costing system and ancillary services in the Province of Quebec <i>Christian Pepin, André Loiselle, Marc Hyndman, Charles Cockburn and Serge Boulard</i>
	Development of the payment model <i>Malle Avarsoo</i>	ST Reha: New tariff structure for the remuneration of inpatient rehabilitation in Switzerland <i>Rémi Guidon, Johannes Kofler and Simon Hölzer</i>	Casemix classification for Dutch homecare payment: Developing an instrument to collect data on relevant predictors <i>Anne O.E. van den Bulck, Maud H. de Korte, Arianne M.J. Elissen, Silke F. Metzelthin, Gertjan S. Verhoeven, Teuntje A.T. de Witte-Breure, Lieuwe C. van der Weij, Misja C. Mikkers and Dirk Ruwaard</i>	COVID-19 and Diagnosis Related Group in an Asian middle-income country: Patient classifications and associated hospital costs <i>Amirah Azzeri, Mohamad Helmi Mohamad Yasim, Muhammad Khairul Asraf Shah Nizamuddin, Mohd Hafiz Jaafar, Maznah Dahlui, Awang Bulgiba, Mohmmad Salleh Yahya, Nazirah Hasnan, Nadia Samsudin and Sharifah Faridah Syed Omar</i>
	Developing grouping logic to psychiatric care <i>Lotta Sokka</i>	Funding model design and casemix classification development in aged care <i>Conrad Kobel</i>	Building a new classification for non-acute care <i>Nathalie Raimbaud, Nicolas Dapzol Sophie Baron and Raphael Schwob</i>	The HIPE review: A happy 50 <sup>th</sup> birthday for HIPE <i>Sinead O'Hara, Deirdre Murphy and Brian McCarthy</i>
15:30–16:00	Breaks/Poster viewing			
16:00–17:00	Keynote Presentation: Jeffrey Stensland			<i>Chair: J Pearse</i>
17:00–18:00	Poster demonstration social event			



Thursday (29 <sup>th</sup> September 2022)				
	Room 1	Room 2	Room 3	Room 4
08:00	Registration			
08:15–09:00	PCSI AGM (part 1)			
09:00–10:00	Keynote Presentation: Robert Jacob			Chair: K Kahur
10:00–10:30	Breaks/Poster viewing			
10:30–12:00	<b>NORDIC TRACK</b> <b>Digital technologies</b> Chair: E Wensaas	<b>Analysis of casemix data 1</b> Chair: L Turcotte	<b>Classification development 3</b> Chair: J Hofdijk	<b>Responding to COVID-19 and climate change</b> Chair: M O'Connor
	Transforming healthcare – a description of how Gävleborg created new care forms through patient driven triage  <i>Simon Nilsson</i>	Building a sustainable workforce: Using clinical data to inform workforce planning  <i>Eileen Robertson, Patrick McElduff, Jim Pearse, Susan Mitchell and Owen Cho</i>	Development of a population-based classification system for assessing morbidity-related health care needs in Germany  <i>Karen Kinder, Wilm Dr Quentin, Maria Klemt, Chrissa Tsatsaronis, Benedikt Langenberger and Reinhard Busse</i>	Estimating cost of COVID-19 hospitalizations in Canada using forecasted financial information  <i>Olga Krylova, Stephanie Bonnell, Jun Gao and Pierre Léveill�e</i>
	How telemedicine is handled in the Danish grouping logic  <i>Katarina Bjerg-Holm &amp; Karen Anne Aaskilde</i>	Casemix as a tool to build confidence between partners of newly formed hospital network: Preliminary steps  <i>Peter Heirman</i>	Understanding population health segmentation and stratification through the use of Patient Need Groups (PNGs)  <i>Mandy Kearney, Klaus Lemke, James Barrett and Stephen Sutch</i>	Impact COVID-19 on non-COVID-19 Care at University Hospital Brussels (ICON study): Preliminary results  <i>Karen Pien, Koen Putman, Marie Luka De Deken and Kurt Barb�e</i>





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<b>Thursday</b> 10:30–12:00	<b>NORDIC TRACK</b> <b>Digital technologies</b> <i>Chair: E Wensaas</i>	<b>Analysis of casemix data 1</b> <i>Chair: L Turcotte</i>	<b>Classification development 3</b> <i>Chair: J Hofdijk</i>	<b>Responding to COVID-19 and climate change</b> <i>Chair: M O'Connor</i>
	Primary care reimbursement model: Development of financial models for primary health care in Iceland  <i>Arnar Þór Sveinsson</i>	How to switch a manual record collection with an automatic calculation from medico-administrative databases for quality indicators? Example of the quality indicator « Care project, Life project » in rehabilitation care  <i>Sophie Baron, Marie-Caroline Clement, Robin Louvel, Pauline Renaud and Joëlle Dubois</i>	Optimising severity determination in the French DRGs with the exclusions mechanisms  <i>Raphael Simon, Alexandra Delannoy, Nicolas Dapzol, Vincent Pisetta and Raphael Schwob</i>	Quantifying impact of COVID-19 on hospital costs in a post-pandemic environment  <i>Samuel Webster</i>
	NordDRG Explorer and NordDRG Admin  <i>Ralph Dahlgren</i>	An internationally verified audit methodology to identify opportunities for improvements in casemix data quality and use in the Kingdom of Saudi Arabia (KSA)  <i>Jennifer Nobbs, Manal Al Khalifah, Amani Alobathani, Victoria Hirst and Josh Riley</i>	How to improve severity determination in the French DRGs  <i>Nicolas Dapzol, Vincent Pisetta, Raphael Schwob, Alexandra Delannoy and Raphael Simon</i>	Getting to net zero carbon: The implications for casemix and data  <i>Mary Ethna Black</i>
12:00–13:00	Lunch			
13:00–14:00	Keynote Presentation: Jason Sutherland			<i>Chair: S Sutch</i>
14:00–14:30	Breaks/Poster viewing			



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<b>Thursday</b> 14:30–16:00	<b>NORDIC TRACK</b> <b>Classifications and data analytics</b> <i>Chair: H Harðardóttir</i>	<b>Analysis of casemix data 2</b> <i>Chair: D Yeo</i>	<b>Classification development 4</b> <i>Chair: D Mazevska</i>	<b>Data quality 1</b> <i>Chair: J Pearse</i>
	Three different outlier calculation methods, their impact on DRG homogeneity and hospital funding  <i>Kristīne Putniņa</i>	Identifying peer long-term care homes using RUG-III: a data driven tool  <i>Rachel Zhang and Luke Turcotte</i>	A platform for DRG development with seamless integration of medical decision trees and cost calculation  <i>Lukas Nick, Urs Gerber and Simon Hölzer</i>	The evolution of classifying and grouping COVID-19 In the US and its Impact on quality health data  <i>Kathy Giannangelo</i>
	International Classification of Health Interventions (ICHI)  <i>Ann-Helene Almborg</i>	Predictive models of the risk of hospital admission and future healthcare expenditures: The benefits of recalibration  <i>Stephen Sutch, Klaus Lemke and James Barrett</i>	Refining admitted and acute care classifications in Australia: now and into the future  <i>Anne Elsworthy</i>	COVID 19 ensuring accuracy of coded data  <i>Helen Nolan</i>
	Assessment of disease burden based on realtime national registers on hospital discharges and contacts with primary health care  <i>Sigridur Haraldsdottir</i>	The disease burden of ENT inpatient cases in 2020 according to My-DRG code at a teaching hospital  <i>Muhammad Khairul Asraf Shah Nizamuddin, Amirah Azzeri, Mohamad Helmi Mohamad Yasim, Salawati Sidek, Tengku Ahmad Shahrizal Tengku Omar and Maznah Dahlui</i>	Saudi Billing System: designing a standardized health insurance billing system in Saudi Arabia based on ICD-10 AM/ACHI classification  <i>Husein Reka, Abdullah Almaghrabi, Susan Young and Shabab Alghamdi</i>	Improving cost and activity data quality in acute hospitals in Ireland  <i>Mark O'Connor</i>



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	Education of health care professions: The National University Hospital of Iceland strategy planning and implementation of DRG and integration with the study program of Health Information Management at the University of Iceland, School of Health Sciences  <i>Klara K. Fridriksdottir and Gunnvor S. Karlsdottir</i>	Shaping a value-based healthcare system for Luxembourg based on data <i>Francois Muller</i>	An integrated model for adopting AR-DRG's for publicly funded activity-based health insurance systems  <i>Winston Piddington and Christian Theodor Ulrich</i>	Improving the quality and reliability of hospital acquired complications (HACs) coded data. A sustainable clinical governance approach to reducing HACs for clinicians and clinical coders  <i>Nicole Payne and Jennifer Nobbs</i>
16:00–17.00	Panel : Ensuring health and care sustainability: solutions for a wicked problem			
17:00–17:30	PCSI AGM (part 2)			
19:00	PCSI Gala dinner			





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**Friday (30<sup>th</sup> September 2022)**

	<b>Room 1</b>	<b>Room 2</b>	<b>Room 3</b>	<b>Room 4</b>
09:30–11:00	<b>Patient costing</b> <i>Chair: K Ratcliffe</i>	<b>Analysis of casemix data 3</b> <i>Chair: J Nobbs</i>	<b>Population health</b> <i>Chair: C Kobel</i>	<b>Data quality 2</b> <i>Chair: J Green</i>
	Using new technology to effectively capture residential aged care costs  <i>Patrick Power</i>	Disease and economics burden of five ENT procedures in a teaching hospital  <i>Maznah Dahlui, Amirah Azzeri, Mohamad Helmi Mohamad Yasim, Mohd Hafiz Jaafar, Muhammad Khairul Asraf Shah Nizamuddin, Tengku Ahmad Shahrizal Tengku Omar and Mohd Zulkiflee Abu Bakar</i>	Understanding the risk of poor coordination of care in a UK population  <i>Alan Thompson, Stephen Sutch and Paul Molyneux</i>	The dog bit the man, or was it the other way around? Maintaining the syntax of patient record narrative in coded reporting  <i>Veronica Myrelid, Sølvi B Henriksen, Katriina Perna Bäckman, Bente Nesson, Anders Jacobsson, Maria Svensson-Boreklev and Olafr Steinum</i>
	A review of the initial years of the national tariff structure TARPSY  <i>Samuel Noll, Rémi Guidon and Sarah Haag</i>	Rapid diagnostics in gastrointestinal infections to avoid unnecessary costs for isolation  <i>Luis Stiefenhofer and Michael Wilke</i>	Exploring PHC EMR data and its impact on population clinical profiles  <i>Yiwen Chen, Debra Chen and Yvonne Rosehart</i>	Moving data collection from a “vicious” to a “virtuous” cycle – a cycle of continuous improvement  <i>Paul O’Connor, Beth Reid, Lee Ridoutt, Ric Marshall, Bin Jalaludin, Carla Cowles and Cliona O’Donovan</i>



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**NordCase**  
nordic casemix centre

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<b>Friday</b> 09:30–11:00	<b>Patient costing</b> <i>Chair: K Ratcliffe</i>	<b>Analysis of casemix data 3</b> <i>Chair: J Nobbs</i>	<b>Population health</b> <i>Chair: C Kobel</i>	<b>Data quality 2</b> <i>Chair: J Green</i>
	Patient costing nursing allocation methodologies and its impact on patient cost  <i>Shaileja Rajagopal and Pierre Léveill�</i>	Admission and discharge management and related cost differences of dementia patients in Swiss psychiatric hospitals  <i>Elena Bleibtreu, Irene Salvi and Alexander Geissler</i>	Global approach to the dynamic shift in healthcare: as care shifts from inpatient to outpatient settings, do we have the proper technical solutions in place to capture this accelerated shift in care?  <i>Felisha Bochantin</i>	Improving data quality by conducting systemic changes in the collection process: perspectives from the French Technical Agency for Information on Hospital Care  <i>Sophie Gu�ant, Etienne Joubert, Baptiste Pluvinage and Jo�lle Dubois</i>
		Using casemix system data in estimating economic burden of influenza among the elderly  <i>Syed Mohamed Aljunid, Nur Syazana Mad Tahir, Aniza Ismail, Aznida Firzah Abdul Aziz, Azimatun Noor Aizuddin and Amirah Azzeri</i>		
11:00–11:30	Breaks/Poster viewing			
11:30–12:30	Keynote Presentation: Loraine Hawkins			<i>Chair: D Burduja</i>
12:30–13:00	Closing the conference			<i>Chair: D Burduja</i>