National Home Infusion Foundation

Standard Definitions for Patient Outcome Data Elements

Outcome: **Durable Mechanical Pump Events**

Data Element	Definition	Additional Information/ Examples
Pump Event	An event occurs, requiring intervention to either resolve the event or replace the pump.	Pump events are collected through internal systems (Examples: EMR, equipment monitoring, patient communication, on-call logs, nursing visit logs, safety reporting, and event reporting). Exclusions: implanted infusion pumps, disposable elastomeric pumps
Resolved Pump Event	The pump event is reported to the provider pharmacy and is resolved without replacing the pump.	The following are examples of events that would be considered resolved pump events: • Pump alarms or error codes resolved at the point of service • Occlusion event resolved without replacing the pump or supply. • Programming errors or changes resolved without replacing the pump • Incorrect pump set or supply that is corrected without pump/supply replacement • Education provided to the pump user that resolves the issue without replacing the pump.
Replacement Pump Event	The pump event is reported to the provider pharmacy and requires the replacement of the pump. Pump replacement reasons: • Use Related • Mechanical/Electrical/Damage Related • Other	The following are examples of events that would be considered pump replacement events: • Pump alarms or error codes not resolved over the phone • Occlusion events resolved through pump replacement. • Programming errors or changes requiring pump replacement

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Data Element	Definition	Additional Information/ Examples
Use Related Pump Replacement	For ***"Use Related"*** pump replacement events, select the best, most applicable reason. • User error • Supply use error • Programming event • Unknown Reason • Other: _____	The following are examples of events that would be considered "Use Related" if they resulted in the replacement of the infusion pump: • Example 1: The administration supplies are improperly assembled, resulting in a pump alarm not resolved through interventions at the point of service. • Example 2: The pump is dropped in water and stops working.
Mechanical/Electrical/Damage Related Pump Replacement h	For ***"Mechanical/Electrical/Damage Related"*** pump replacement events, select the best, most applicable reason. • Priming/flow • Error codes • Battery/charging • Over/under infusion • Physical damage to pump • Unknown Reason • Other: _____	The following are examples of events that would be considered if it resulted in the replacement of the pump: • Example 1: A patient calls with a report of their pump not holding an internal battery charge after charging for >12 hours. The pump is replaced, and the returned pump is tested and sent for repair. (Battery/charging event) • Example 2: The infusion bag is full, and the user followed programming instructions correctly. A patient reports that the pump screen is showing the infusion is complete, but the infusion bag is full. (Over/under infusion event)

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BACKGROUND

The Standard Definitions for Patient Outcome Data Elements are presented by the National Home Infusion Foundation (NHIF) to home and specialty infusion providers for use when collecting data related to patient events as part of ongoing quality improvement activities. These definitions were developed by a volunteer-based committee comprised of individual provider and business-firm members committed to the utilization of quality data to advance the infusion industry. Standardized definitions will allow providers to engage in industry-wide benchmarking and research activities, generating the necessary data for demonstrating the quality and value associated with administering infused medications in the home and alternate site setting. Providers are encouraged to adopt the NHIF Patient Outcome Definitions to become eligible for participation in future industry-wide quality data initiatives.

IMPLEMENTATION CONSIDERATIONS

Providers may use additional, more detailed reasons than those proposed in the above *"Pump Event"* definition. The NHIF data elements are designed to consolidate data into broader categories to facilitate comparisons across different providers. Providers may wish to use more specific reasons at an organizational level; however, the more detailed data would be mapped to the broader category for national reporting purposes.

NHIF recognizes that individual providers use a variety of software systems and processes to collect data and understands that differences exist with regard to the clinical terminology used today. NHIF knows that some adaptation may need to occur to achieve standardization with these outcome data elements; however, the committee made every effort to develop data definitions that are broad enough to accommodate variations in software and data collection processes between providers.

REPORTING DATA

The National Home Infusion Foundation (NHIF) is administering industry-wide benchmarking programs that utilize the Patient Outcome Data Elements proposed by NHIF. Providers that have adopted the standard NHIF definitions will be able to participate in benchmarking initiatives. Participation in benchmarking is highly encouraged as a means of evaluating one's performance compared to industry norms and standards. Benchmarking is a well-established method of improving quality, demonstrating value, and identifying best practices.

QUESTIONS/ COMMENTS

Questions or comments regarding the Standard Definitions for Patient Outcome Data Elements should be directed to NHIFdata@nhia.org.

For additional information about the NHIF Benchmarking Initiatives, please visit the NHIF website at http://bit.ly/nhif-benchmarking-initiatives.