

Improving Outcomes with the Power of Insight

NICUtrition[®] is a real-time, clinical decision support tool designed to address the challenges clinicians face around feeding and nutrition management in the NICU, improving quality of care and health outcomes. It comprises three offerings of data-driven features, depending on an organization's need. NICUtrition "Initial Insights" provides both a retrospective review and ongoing monitoring of feedings, growth, milestones and comorbidities.

NICUtrition "Fortified Analytics", incorporates a hospital's enteral feeding protocol to project feeds and deliver a clear interpretation of guideline suggestions. It includes statistics of outcomes and associated protocol compliance to help identify opportunities for improvements. Finally, NICUtrition[®] BeST Practices, the "Bedside Support Tool", allows for documentation directly into the application to improve data capture and decrease time waste.

KEY BENEFITS

- Sets baseline and enables internal review of retrospective data, correlating outcomes with historical feeding practices and protocol
- Improves efficiency, team collaboration and rounding
- Provides real-time analysis of feeding metrics and milestones including growth charts and z scores
- Helps to standardize practice and adhere to feeding guidelines for more consistent delivery of care across the care team

INITIAL INSIGHTS

Audit and Monitor Reporting & Analytics

Initial Insights provides a historical view as well as real-time ongoing analytics of individualized or departmental feeding data and outcomes. It includes configurable data extraction for QI/QC reporting and research initiatives.

id	Birth GA (weeks)	Birth Weight (g)	Birth Weight Percentile	Birth Weight Category	Current Weight (g)	Current Weight Percentile	Co-Morbidities	First Enteral Feed (days)	RTBW (days)	First Fortification (days)	Avg. Growth Vel. (g/kg/day)	LOS (days)
10030	25 1/7	590	11%	AGA	915	1%	Yes	1	9	9	11.92	92
10031	25 0/7	1000	97%	LGA	802	11%	Yes	1	8	4	17.57	94
10032	23 2/7	450	3%	SGA	1631	10%	Yes	2	10	5	20.02	73
20001	25 1/7	585	10%	AGA	904	1%	Yes	1	8	9	11.7	92
20007	25 1/7	590	11%	AGA	805	1%	Yes	1	9	9	11.51	92
20002	25 1/7	695	24%	AGA	1099	21%	Yes	1	8	7	18.29	122
20004	25 6/7	708	10%	AGA	1489	2%	Yes	1	8	7	13.27	97
40004	23 2/7	450	3%	SGA	2200	11%	Yes	2	10	8	20.02	120
10001	31 0/7	1255	14%	AGA	1397	4%	Yes	1	6	3	10.61	57
10001	34 0/7	2033	34%	AGA	2211	18%	Yes	1	7	4	7.42	52
Summary:								1.2	8.3	6.5	14.2	89.1

FORTIFIED ANALYTICS

Protocol Compliance

Fortified Analytics overlays a hospital's own enteral feeding protocol to evaluate adherence and improve standardization. Users can view growth metrics for each patient and across the unit and show an average for a definable group of patients.

NICUtrition Analytics / Reporting Bob Forest

Analytics panel

- Dashboard
- Reporting
- Benchmarking
- Protocols
- Variance Stats

PATIENT **CLINICIAN**

Filters Export 13 columns

Id	Birth GA (weeks)	Protocol Compliance	Birth Weight (g)	Birth Weight Percentile	Birth Weight Category	Current Weight (g)	Current Weight Percentile	Co Morbidities	First Enteral Feed (days)	RTBW (days)	First Fortification (days)	Avg. Growth Vel. (g/kg/day)	LOS (days)
80008	25 1/7	88%	695	24%	AGA	1099	21%	No	0	7	6	18.29	65
80002	26 4/7	89%	842	29%	AGA	1094	31%	No	0	7	6	17.67	130
20002	25 0/7	70%	654	15%	AGA	802	11%	No	0	7	3	17.57	37
80003	27 3/7	67%	865	34%	AGA	1002	7%	No	0	10	6	16.91	122
80005	25 4/7	86%	795	41%	AGA	1500	43%	No	0	8	6	15.57	101
80004	27 3/7	69%	865	34%	AGA	1003	19%	No	0	7	6	15.48	112
60001	28 6/7	44%	975	15%	AGA	1109	5%	No	2	7	4	14.48	132
70001	28 6/7	74%	975	15%	AGA	1111	6%	No	0	7	6	14.03	140
90001	28 0/7	69%	975	33%	AGA	1092	13%	No	0	7	6	12.99	135
80007	24 4/7	86%	660	20%	AGA	1006	11%	No	0	7	3	12.83	87
Summary:		74%							0.15	7.31	5.46	15.17	102.08

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Projected Feeds

Fortified Analytics delivers a clear interpretation of the upcoming feeding schedule based on a hospital's own guidelines. The patient's feeding schedule is presented in the main part of the screen, while growth history is presented in the left panel.

NICUtrition John Doe

PATIENT 128 MRN 64 Room Number 3 Bed Number 803 g Dosage Weight

ID 10031 BG GA at birth (weeks) 26 0/7 Post menstrual age (weeks) 27 2/7 Birth weight (g) 735 (AGA) Day of life 9 Measurement Weight 803 g

GROWTH

Dosage Weight History 803 g Weight History 824 g Z-Score -0.59 Δ Z-Score from birth -0.15 Growth Velocity (g/kg/day) 28.4 cm Length History 28.4 cm Z-Score -2.69 Δ Z-Score from birth 0.17 Head Circ. History 22.6 cm Z-Score -1.24 Δ Z-Score from birth 0.55

DOCTOR'S ORDER

Schedule NPO Create Doctor Order

PROTOCOL GUIDANCE

Protocol version: NICU B v1.0 Keep current enteral volume

FEEDING GUIDANCE **NUTRITION** **METRICS** **CLINICAL CONCERNS** **GROWTH CHARTS** **ROUNDING REPORT**

Columns 11 columns Filter All

Edit	Date&Time	Completed Status	Protocol Status	Concerns Alert	EN Feed Vol mL/feed	EN Type mL	Fortifier Type Cal/oz	Cal Density Cal/oz	EN Delivered Vol mL/day	PN Rate mL/kg/day	EN Rate mL/kg/day	Oral Rate mL/kg/day	Total Rate mL/kg/day
	06/08/2020 08:00 PM	✓	Followed	No	11.0	DBM: 11	MCT: 2	24.0	55.0	119	56	0	175
Summary:			5/5		55.0								
Tuesday, 06/09/2020													
	06/09/2020 01:00 AM	✓	Followed	No	11.0	DBM: 11.3	MCT: 2	24.0	11.0	119	56	0	175
	06/09/2020 06:00 AM	✓	Followed	No	11.0	DBM: 11.3	MCT: 2	24.0	22.0	119	56	0	175
	06/09/2020 11:00 AM	✓	Followed	No	11.0	DBM: 11.3	MCT: 2	24.0	33.0	119	56	0	175
	06/09/2020 04:00 PM	○	Suggested	No	11.3	DBM: 11.3	MCT: 2	24.0	44.3	119	56	0	175
	06/09/2020 09:00 PM	○	Suggested	No	11.3	DBM: 11.3	MCT: 2	24.0	55.5	119	56	0	175
Summary:			3/5		55.5								
Wednesday, 06/10/2020													
	06/10/2020 02:00 AM	○	Suggested	No	11.3	DBM: 11.3	MCT: 2	24.0	11.3	119	56	0	175
	06/10/2020 07:00 AM	○	Suggested	No	11.3	DBM: 11.3	MCT: 2	24.0	22.5	119	56	0	175
	06/10/2020 12:00 PM	○	Suggested	No	11.3	DBM: 11.3	MCT: 2	24.0	33.8	119	56	0	175
	06/10/2020 05:00 PM	○	Suggested	No	11.3	DBM: 11.3	MCT: 2	24.0	45.0	119	56	0	175
	06/10/2020 10:00 PM	○	Suggested	No	11.3	DBM: 11.3	MCT: 2	24.0	56.3	119	56	0	175

For more information or to schedule a demonstration, email: sales@astartemedical.com