

Consolidated Financial Highlights for FY2018

(From April 1, 2018 to March 31, 2019)

1. Consolidated Financial Results for FY2018
2. Forecast for FY2019
3. Progress of Mid-term Business Plan,
TRANSFORM 2020

NIHON KOHDEN CORPORATION

(Ticker Code: 6849)

May 15, 2019

Fighting Disease with Electronics



NIHON KOHDEN

Consolidated Financial Results 1 for FY2018

1) Consolidated Financial Results for FY2018

| | FY2017 Actual | FY2018 | | |
|--|------------------|-----------------|------------------------|------------------------------|
| | | Forecast | Actual | YoY (%) Margin change (p) |
| Sales | 174,249 | 180,000 | 178,799 | 2.6 |
| Domestic Sales | 128,144 | 130,700 | 130,223 | 1.6 |
| Overseas Sales | 46,105 | 49,300 | 48,575 | 5.4 |
| Gross Profit (Gross Profit Margin) | 82,759 47.5% | 86,800 48.2% | 85,987 48.1% | 3.9 0.6 |
| Operating Income (Operating Income Margin) | 14,517 8.3% | 15,000 8.3% | 15,044 8.4% | 3.6 0.1 |
| Ordinary Income | 14,501 | 15,000 | 15,867 | 9.4 |
| Income Attributable to Owners of Parent | 9,154 | 10,300 | 11,191 | 22.3 |
| Average exchange rate | FY2017 | FY2018 | FY2018 | |
| 1 US Dollar | 111.0 yen | 105 yen | 110.8 yen | |
| 1 EURO | 130.0 yen | 130 yen | 128.5 yen | |

(Amounts of less than ¥1 million are rounded down)

+6% on a local currency basis

In-house Sales ratio: FY2017 64.0% → FY2018 64.8%

Foreign exchange gains/losses:
FY2017 ¥733 mil losses → FY2018 ¥85 mil gains

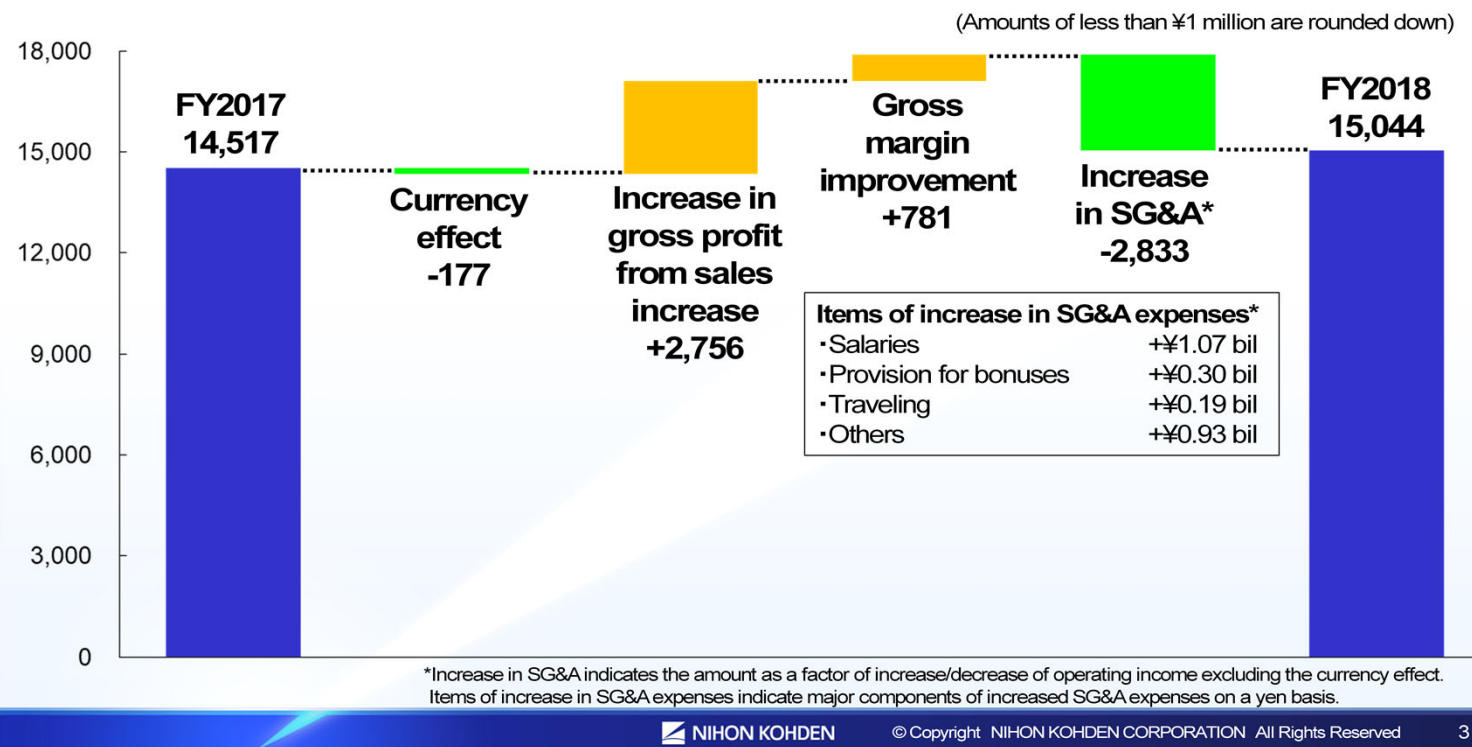
[Extraordinary losses] Provision for loss on litigation*: FY2018 ¥285 mil

FY2017: Increase of income taxes due to the tax reform in the U.S.

* Provision for loss on litigation in accordance with the progress of the arbitration of labor issue involving Nihon Kohden America

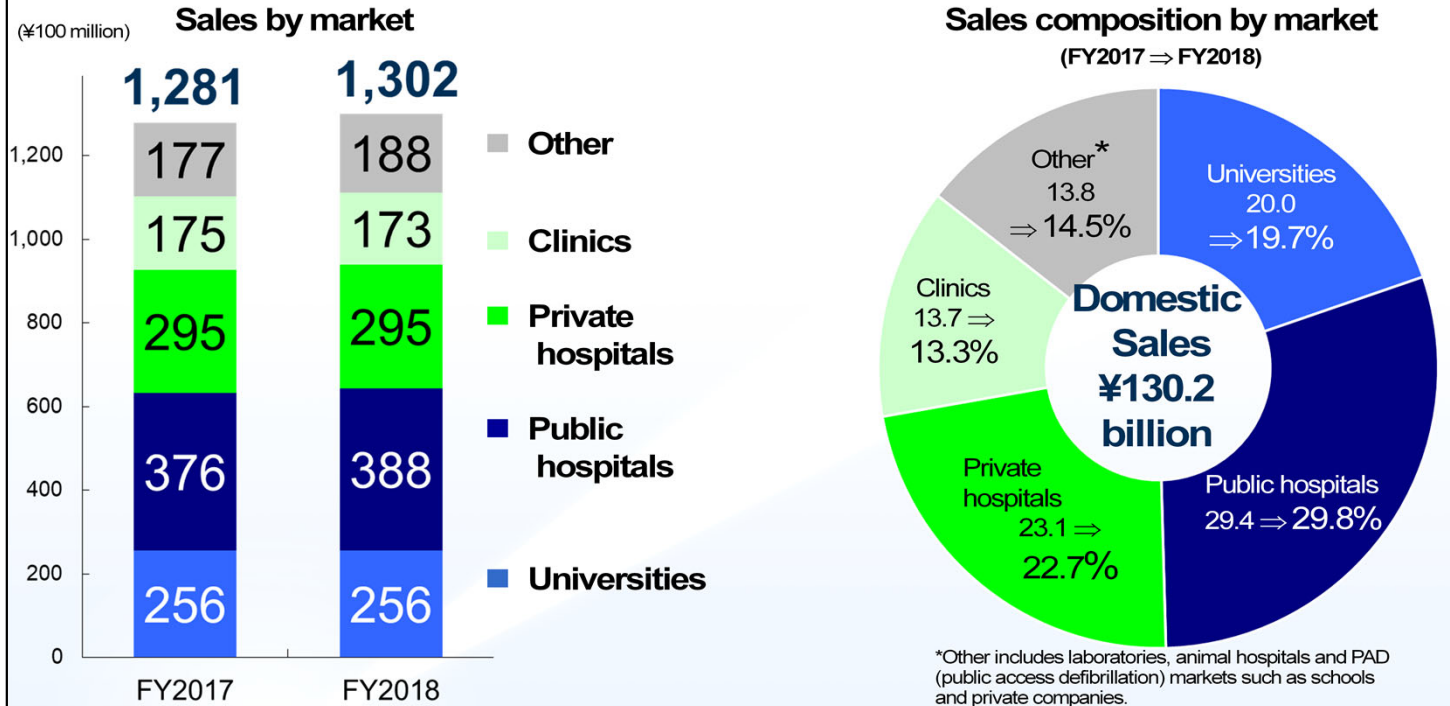
- Overall sales increased 2.6% to ¥178.7 billion. Domestic sales increased 1.6% to ¥130.2 billion. Overseas sales increased 5.4% to ¥48.5 billion, a 6% increase on a local currency basis.
- Overall sales fell short of the forecast by ¥1.2 billion, as both domestic and overseas sales were lower than the forecast.
- Gross profit margin increased by 60 basis points to 48.1%, as the Company focused on improving its profitability.
- Operating income was in line with the forecast, a 3.6% increase to ¥15.0 billion. This was due to sales increases, gross profitability improvement and lower SG&A expenses than expected.
- Income attributable to owners of parent increased 22.3% to ¥11.1 billion due to decrease of tax expenses, offsetting extraordinary losses.

2) Breakdown of Operating Income



- FY2018 operating income increased to ¥15.0 billion from ¥14.5 billion in FY2017.
- Currency effect had a negative impact of ¥0.1 billion.
- Increase in gross profit from sales increase was ¥2.7 billion.
- Gross margin improvement had a positive impact of ¥0.7 billion, as the Company focused on selling in-house products both in Japan and internationally in addition to cost reduction in its Tomioka factory and Shanghai factory.
- Increases in SG&A had a negative impact of ¥2.8 billion mainly due to the increase of personnel expenses.

3) Domestic Sales



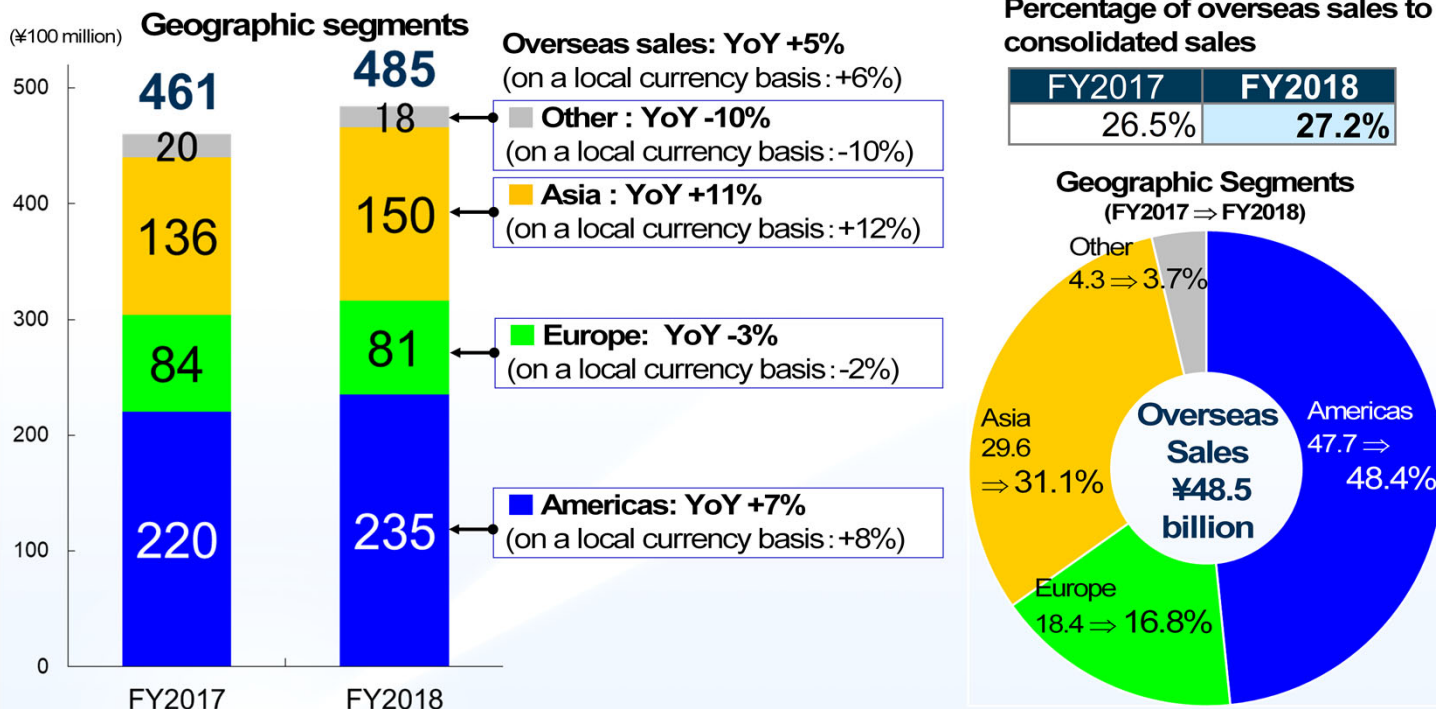
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- Domestic sales increased by ¥2.1 billion to ¥130.2 billion.
- Sales of AEDs in the PAD market increased favorably. Sales in the public hospital market also increased, reflecting stable replacement demand for IT systems. Sales in the university and private hospital market remained flat, while sales in the clinic market decreased as sales of locally purchased products decreased in accordance with the Company's initiative to expand in-house products sales.
- Domestic sales fell short of the forecast due to restraining sales of locally purchased products. However, sales increased as the Company enhanced sales activities which match each market. Consumables and services also contributed to the sales increase.

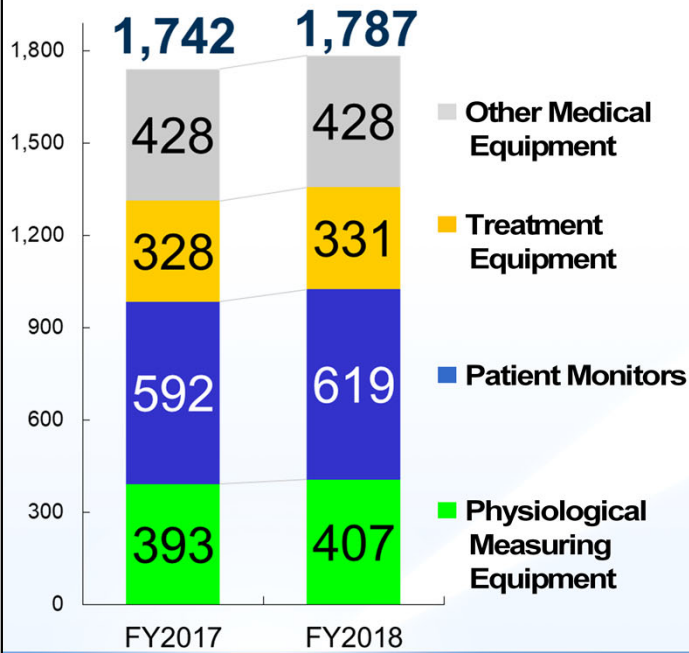
4) Overseas Sales



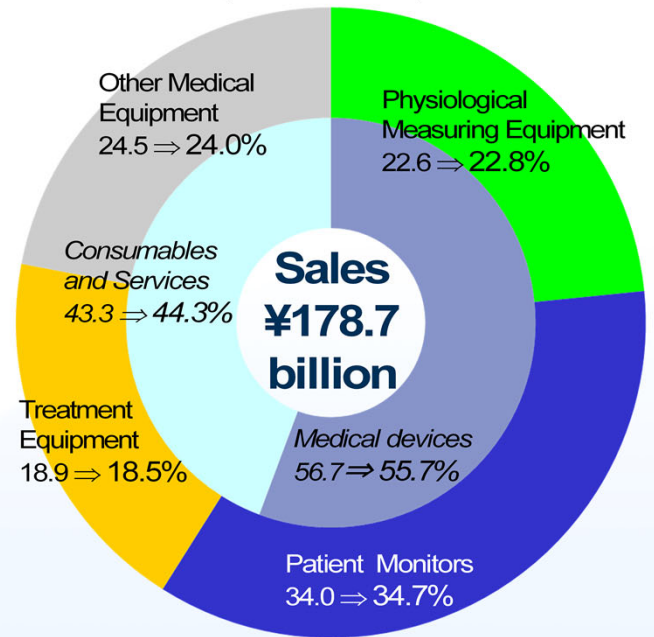
- Overseas sales increased by ¥2.4 billion to ¥48.5 billion.
- Sales in the Americas increased by ¥1.5 billion to ¥23.5 billion, a 8% increase on a local currency basis. Sales in the U.S increased favorably, supported by strong sales of EEGs and Patient Monitors. Sales in Latin America decreased due to weak sales in Chile and Colombia, offsetting strong sales in Brazil and Mexico.
- Sales in Europe decreased by ¥0.3 billion to ¥8.1 billion, a 2% decline on a local currency basis. Sales in Russia and Turkey decreased, although sales in France and U.K. increased.
- Sales in Asia increased by ¥1.4 billion to ¥15.0 billion, a 12% increase on a local currency basis. Sales in China and Thailand increased favorably. Sales recovery in India and large orders in Qatar also contributed to the sales increase.
- Sales in Other markets decreased due to weak performance in Africa such as Ethiopia.
- Overseas sales fell short of the forecast as sales in Europe and Africa decreased, but overall international sales increased favorably.

5) Sales by Product Category

(¥100 million)



Sales composition by product category
(FY2017 ⇒ FY2018)



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- Sales by product category are shown above. Sales increased in all product categories.
- The sales ratio of Consumables and Services increased to 44.3% as a result of strengthening this business both in Japan and internationally.

5.1) Physiological Measuring Equipment

| | FY2017 | FY2018 | YoY (%) | (Sales, millions of yen) |
|--|---------------|---------------|------------|--|
| Electroencephalographs | 7,292 | 7,648 | 4.9 | |
| Electrocardiographs | 6,982 | 6,766 | -3.1 | |
| Polygraphs for Cath Lab | 13,172 | 14,468 | 9.8 | |
| Other Physiological Measuring Equipment* | 11,874 | 11,888 | 0.1 | |
| Physiological Measuring Equipment | 39,323 | 40,773 | 3.7 | |
| Domestic Sales | 31,445 | 32,112 | 2.1 | ← Sales of Polygraphs for Cath Lab and diagnostic information systems increased favorably. Sales of EEGs and ECGs decreased. |
| Overseas Sales | 7,878 | 8,661 | 9.9 | ← Sales of EEG showed strong growth, especially in the U.S. Sales of ECGs decreased. |

*Other Physiological Measuring Equipment includes diagnostic information systems and products of other companies.



Electro-encephalograph
EEG-1290



EMG/EP measuring system
MEB-9400



Electrocardiographs
ECG-2400



Holter ECG monitor
RAC-5000



Polygraphs for Cath Lab
RMC-5000



Medical and long-term care network system
LAV-1000

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- Sales of Physiological Measuring Equipment increased 3.7% to ¥40.7 billion.
- Domestic sales increased 2.1% to ¥32.1 billion. Sales of polygraphs for cath lab showed strong growth. Sales of diagnostic information systems also increased favorably, thanks to replacement demand. Sales of EEGs and ECGs decreased.
- Overseas sales increased 9.9% to ¥8.6 billion. Sales of EEGs increased favorably, especially in the Americas, as the Company reorganized the sales structure there. Sales of ECGs decreased.

5.2) Patient Monitors

| | FY2017 | FY2018 | YoY (%) | (Sales, millions of yen) |
|-------------------------|--------|---------------|---------|--------------------------|
| Patient Monitors | 59,229 | 61,978 | 4.6 | |
| Domestic Sales | 36,857 | 37,641 | 2.1 | |
| Overseas Sales | 22,372 | 24,337 | 8.8 | |

Replacement demand for clinical information systems increased favorably. Sales of consumables such as sensors also contributed to increased sales.

Sales in the Americas and Asia showed strong growth. Sales in Europe remained flat. Sales in Other decreased.



Bedside monitor
CSM-1901

NEW!



CSM-1501



CSM-1502



CSM-1701



CSM-1702

Bedside monitor
CSM-1500/1700



Transmitter
ZS-640P



SpO₂ probes



cap-ONE biteblock



ECG Electrodes

Consumables

*iNIBP is our original algorithm which allows quick and painless NIBP measurement during cuff inflation.

- Sales of Patient Monitors increased 4.6% to ¥61.9 billion.
- Domestic sales increased 2.1% to ¥37.6 billion. Sales of clinical information systems increased favorably supported by replacement demand. Sales of consumables such as sensors also contributed to increased sales.
- Overseas sales increased 8.8% to ¥24.3 billion. Sales in the U.S. showed strong growth as we received orders from the U.S. leading hospitals. Sales in Asia also showed strong growth, driven by China, India and Qatar.

5.3) Treatment Equipment

| | FY2017 | FY2018 | YoY (%) | (Sales, millions of yen) |
|---|---------------|----------------|-------------|---|
| Defibrillators (for Hospital and Ambulance) | 6,285 | 6,163 | -1.9 | Domestic: Sales remained flat. International: Sales decreased in reaction to the strong performance in FY2017. |
| AEDs (Automated External Defibrillator) | 14,867 | 15,388 | 3.5 | |
| Pacemakers / ICDs | 3,189 | 3,019 | -5.3 | Domestic: Sales increased favorably due to increase of additional installations and replacement demand. International: Sales increased in Europe and Asia. |
| Ventilators | 2,432 | 2,660 | 9.4 | |
| Other Treatment Equipment | 6,117 | 5,916 | -3.3 | |
| Treatment Equipment | 32,892 | 33,149 | 0.8 | |
| Domestic Sales | 22,288 | 22,299 | 0.0 | |
| Overseas Sales | 10,603 | 10,849 | 2.3 | |
| (Ref.) AED Unit Sales | 92,000 | 101,900 | 10.8 | Reached the hundred thousand units mark |
| Domestic Unit Sales | 45,200 | 49,700 | 10.0 | |



- Sales of Treatment Equipment increased 0.8% to ¥33.1 billion. Domestic sales remained flat at ¥22.2 billion. Overseas sales increased 2.3% to ¥10.8 billion.
- Sales of defibrillators decreased 1.9% to ¥6.1 billion in reaction to strong overseas sales in FY2017. Domestic sales remained flat.
- Sales of AEDs increased 3.5% to ¥15.3 billion. AED unit sales were 101,900 units, reaching the hundred thousand units mark. In Japan, sales increased favorably due to increase of additional installations and replacement demand. Internationally, sales of Nihon Kohden AEDs increased in Europe and Asia.

5.4) Other Medical Equipment

| | FY2017 | FY2018 | YoY (%) | Comparable YoY (%) | (Sales, millions of yen) |
|--|--------|--------|---------|--------------------|--|
| Hematology Analyzers | 11,224 | 9,666 | -13.9 | 6.2 | <p>← Domestic: Sales increased favorably on a comparable basis, supported by a new product launch. International: Sales increased in Latin America and Asia.</p> |
| Imaging Systems, Medical equipment for research and others * | 31,589 | 33,231 | 5.1 | -1.9 | |
| Other Medical Equipment | 42,804 | 42,898 | 0.2 | | |
| Domestic Sales | 37,552 | 38,169 | 1.6 | | |
| Overseas Sales | 5,251 | 4,728 | -10.0 | | ← Sales of locally purchased products decreased. |

*Includes consumables, installation and maintenance services which are not part of other categories. Effective FY2018, bundled deals of third-party hematology analyzers and imaging systems are reclassified into Imaging Systems, Medical equipment for study and others; these were previously classified as Hematology Analyzers.

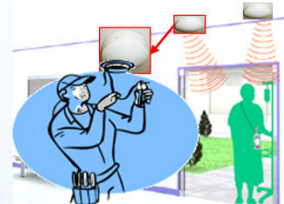


Automated hematology analyzer
MEK-9100

NEW!



Automated hematology analyzer and clinical chemistry analyzer
MEK-1303



Installation and maintenance services

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- Sales of Other Medical Equipment increased 0.2% to ¥42.8 billion.
- Domestic sales increased 1.6% to ¥38.1 billion. The release of a new model of hematology analyzer contributed to increased sales. Sales of installation and maintenance services for medical devices also increased favorably.
- Overseas sales decreased 10% to ¥4.7 billion. Sales of locally purchased products decreased, while sales of hematology analyzers increased in Latin America and Asia.
- Effective FY2018, bundled deals of third-party hematology analyzers and imaging systems have been reclassified into Imaging Systems, Medical Equipment for study and others; these were previously classified as Hematology Analyzers. Excluding this impact, sales of hematology analyzers increased.

(Ref.) FY2018 Regional Sales by Product Category / YoY

(Amounts of less than ¥0.1 billion are rounded down)

| | Overall Sales | Domestic Sales | Overseas Sales | | | | |
|-----------------------------------|--------------------|--------------------|-------------------|-------------------|------------------|--------------------|-------------------|
| | | | Total | Americas | Europe | Asia | Other |
| Physiological Measuring Equipment | 40.7 (+4%) | 32.1 (+2%) | 8.6 (+10%) | 3.7 (+29%) | 1.2 (-19%) | 3.4 (+7%) | 0.2 (+1%) |
| Patient Monitors | 61.9 (+5%) | 37.6 (+2%) | 24.3 (+9%) | 15.3 (+9%) | 3.1 (-1%) | 5.1 (+21%) | 0.6 (-16%) |
| Treatment Equipment | 33.1 (+1%) | 22.2 (+0%) | 10.8 (+2%) | 4.0 (-5%) | 2.9 (+7%) | 3.1 (+12%) | 0.6 (-10%) |
| Other Medical Equipment | 42.8 (+0%) | 38.1 (+2%) | 4.7 (-10%) | 0.3 (-52%) | 0.8 (-15%) | 3.2 (+1%) | 0.2 (-3%) |
| Total | 178.7 (+3%) | 130.2 (+2%) | 48.5 (+5%) | 23.5 (+7%) | 8.1 (-3%) | 15.0 (+11%) | 1.8 (-10%) |

6) Financial Condition

(Amounts of less than ¥1 million are rounded down)

| | FY2017 | FY2018 | Change | | FY2017 | FY2018 | Change |
|-----------------------------|------------|-------------------|--------|---|---------|----------------|--------|
| Current Assets | 120,687 | 132,211 | 11,524 | Current Liabilities | 44,601 | 48,346 | 3,744 |
| Inventories | 23,098 | 28,599 | 5,500 | Interest-bearing Debt | 488 | 406 | -81 |
| Property, Plant & Equipment | 20,324 | 19,945 | -379 | Non-current Liabilities | 3,953 | 5,282 | 1,329 |
| Intangible Assets | 5,079 | 4,563 | -516 | Net Assets | 109,355 | 116,087 | 6,732 |
| Investments & Other Assets | 11,818 | 12,997 | 1,178 | | | | |
| Total Assets | 157,910 | 169,717 | 11,807 | Total Liabilities & Net Assets | 157,910 | 169,717 | 11,807 |
| | | | | | | | |
| Inventory Turnover | 3.0 months | 3.7 months | | Equity Ratio | 69.3% | 68.4% | |

[Reason for the increase of inventories]

- Merchandise and finished goods increased by ¥4,810 million
 - Products: Ensuring of stable supply and awaiting shipment
 - Consumables: Guaranteeing supply in line with BCP
- Raw materials and supplies increased by ¥627 million
 - Procurement of electronic components in advance

- Total assets increased by ¥11.8 billion to ¥169.7 billion.
- Inventories of merchandise and finished goods increased because of products reserved to ensure stable supply and procurement of electronic components in advance. Inventory turnover was 3.7 months.

7) Cash Flows

| | FY2017 | FY2018 | Change |
|---|--------|---------------|--------|
| I . Cash flows from operating activities | 10,843 | 9,819 | -1,024 |
| II . Cash flows from investing activities | -3,346 | -3,258 | 88 |
| Free cash flows | 7,497 | 6,561 | -935 |
| III . Cash flows from financing activities | -4,628 | -3,074 | 1,553 |
| Effect of exchange rate change on cash and cash equivalents | -144 | -74 | 69 |
| Net increase (decrease) in cash and cash equivalents | 2,724 | 3,412 | 687 |
| Cash and cash equivalents at end of period | 31,285 | 34,697 | 3,412 |
| ROE | 8.6% | 9.9% | |

(Amounts of less than ¥1 million are rounded down)

| | FY2017 | FY2018 | Change |
|---|--------|--------|--------|
| Income before income taxes | 13,954 | 15,519 | +1,565 |
| Decrease (increase) in inventories | -496 | -5,602 | -5,105 |
| Purchase of property, plant and equipment | -2,901 | -2,794 | +106 |

- Cash and cash equivalents at end of the period increased by ¥3.4 billion to ¥34.6 billion.
- ROE was 9.9%.

8) Capital Investments and R&D Costs

(Amounts of less than ¥1 million are rounded down)

| | FY2017 Actual | FY2018 | | | Change | FY2019 Plan |
|---------------------|------------------|--|--|--------|--------|----------------|
| | | Original Forecast announced May 10, 2018 | Revised Forecast announced Nov 2, 2018 | Actual | | |
| Capital Investments | 3,430 | 4,000 | 3,900 | 3,049 | -381 | 4,700 |
| Depreciation | 3,338 | 3,900 | 3,800 | 3,542 | 203 | 3,900 |
| R&D costs | 7,226 | 8,500 | 8,000 | 7,243 | 17 | 7,600 |

●FY2018 capital investments:

Molds for new products, measuring equipment and jigs, products for demonstration, and production equipment

●FY2019 capital investments plan:

Molds for new products, measuring equipment and jigs, products for demonstration, production equipment, reagent factory in Dubai (¥0.2 bil), and Eastern Japan Logistics Center (¥0.4 bil)

→ As the Center is a leasing logistics facility, investments is only for distribution equipment)

Eastern Japan Logistics Center

Construction: Completion in Jun 2019
Transfer: Start in Aug and completion in 2019



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- Capital investments and depreciation were ¥3.0 billion and ¥3.5 billion, respectively. The reason for the difference from the forecast was the carryover of investments in renovation of buildings and the restraining investment in products for demonstration.
- R&D costs were ¥7.2 billion, which fell far short of the forecast. This was because more development resources were allocated for upgrading recently launched products and adding new functions.
- In FY2019, capital investments will increase by ¥1.7 billion to ¥4.7 billion, depreciation will increase by ¥0.4 billion to ¥3.9 billion, and R&D costs will increase by ¥0.4 billion to ¥7.6 billion. The Company will establish a reagent factory in Dubai. The Eastern Japan Logistics Center will start operation in 2019.

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Forecast for FY2019

1) Business Environment

Japan

Japanese Government 2025 future vision of medical /long-term care services

- Differentiate medical institution functions and strengthen collaboration
- Promote integrated community care systems

- At end of FY2018, each prefecture set up policies about role sharing between hospitals and the number of hospital beds converted to long-term care at a coordination conference
- Hereafter, substitution or reorganization of public hospitals will be discussed
- Funds for securing comprehensive medical and long-term care in the communities: FY2019 ¥103.4 bil for medical care

Medical service fee will rise by 0.41% accompanying the consumption tax increase in Oct 2019

- Reorganization of medical institution functions will proceed.
- The impact of a rush in demand and the corresponding reactions in accordance with the consumption tax increase should be monitored carefully.

International

U.S. and Europe

- Improve the quality and efficiency of medical care
- Expand IDNs*¹ in the U.S.
- Expand GPOs*² in Europe

Emerging Markets

- Political instability and weakness of currencies in some regions
- Healthcare infrastructure is developing together with economic growth

Overall demand for medical equipment will remain steady

*1 IDN: Integrated Delivery Network *2 GPO: Group Purchasing Organization

- In Japan, the government is working on healthcare system reform under its 2025 future vision of medical/long-term care services. Reorganization of medical institution functions will proceed. The impact of a rush in demand and the corresponding reactions in accordance with the consumption tax increase should be monitored carefully.
- Internationally, IDNs are continuing to expand in the U.S. In Europe, group purchasing is expanding, especially by GPOs. In emerging countries, healthcare infrastructure is developing together with economic growth, while there is political instability in some regions. We expect that overall demand for medical equipment in overseas markets will remain steady.

2) Forecast for FY2019

| | FY2018 Actual | FY2019 Forecast | YoY (%) |
|--|------------------|--------------------|---------|
| Sales | 178,799 | 186,000 | 4.0 |
| Domestic Sales | 130,223 | 133,000 | 2.1 |
| Overseas Sales | 48,575 | 53,000 | 9.1 |
| Gross Profit (Gross Profit Margin) | 85,987 48.1% | 90,200 48.5% | 4.9 |
| Operating Income (Operating Income Margin) | 15,044 8.4% | 16,000 8.6% | 6.4 |
| Ordinary Income | 15,867 | 16,000 | 0.8 |
| Income Attributable to Owners of Parent | 11,191 | 11,000 | -1.7 |
| Percentage of Overseas Sales | 27.2% | 28.5% | |

(Amounts of less than ¥1 million are rounded down)

← +12% on a local currency basis

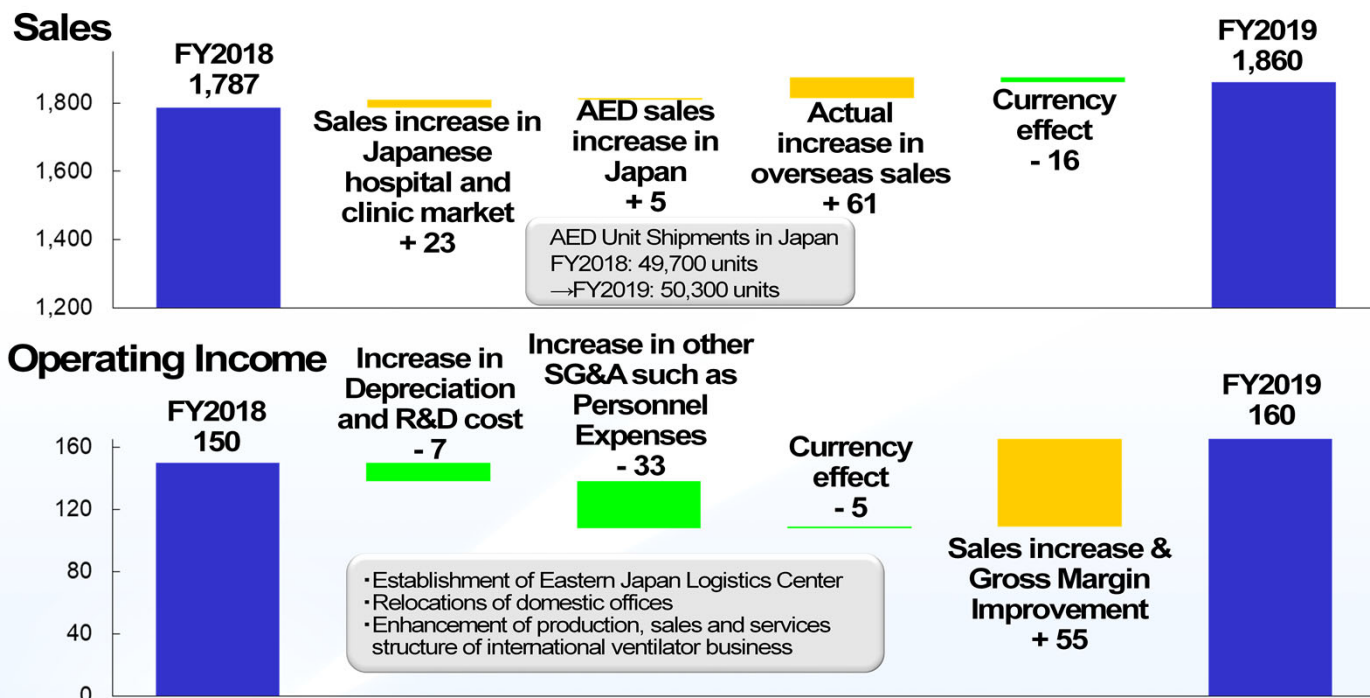
Breakdown of overseas sales by region

| | FY2018 Actual | FY2019 Forecast | YoY (%) |
|-----------------|------------------|--------------------|---------|
| Americas | 23,508 | 25,500 | 8.5 |
| Europe | 8,167 | 8,900 | 9.0 |
| Asia | 15,096 | 16,000 | 6.0 |
| Other | 1,802 | 2,600 | 44.2 |
| Total | 48,575 | 53,000 | 9.1 |

- Under these market circumstances, the Company forecasts its overall sales, domestic sales and overseas sales for FY2019 to be: 4% growth to ¥186.0 billion, 2.1% growth to ¥133.0 billion, and 9.1% growth to ¥53.0 billion, respectively. Growth in overseas sales is expected to be 12% on a local currency basis.
- The Company expects to continue favorable performance in the U.S. and Asia, and aims at sales recovery in Latin America, Europe and Africa.
- Gross profit margin is expected to improve to 48.5%, mainly due to the launch of new products.
- Operating income is expected to grow by 6.4% to ¥16.0 billion. The forecasts for ordinary income and income attributable to owners of parent are shown above.

3) Analysis of FY2019 Forecast

(¥100 million)



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- As for sales in Japan, sales in the hospital and clinic markets, and AED sales are expected to increase by ¥2.3 billion and ¥0.5 billion, respectively. The forecast for AED unit sales is 50,300 units.
- As for overseas sales, the actual increase in overseas sales will be ¥6.1 billion. Negative currency effect will be ¥1.6 billion.
- As for operating income, depreciation and R&D costs will increase by ¥0.7 billion. Other SG&A such as Personnel Expenses will increase by ¥3.3 billion, as the Company plans the establishment of the Eastern Japan Logistics Center, relocations of domestic offices, and start up of its ventilator business. Currency effects will have a negative impact of ¥0.5 billion. The positive impact of the sales increase and gross margin improvement will be ¥5.5 billion.

(Ref.) Consolidated Forecast FY2019 by Product Category/ Effect of Exchange Rates

(Amounts of less than ¥1 million are rounded down)

| | FY2018 Actual | FY2019 Forecast | Composition | YoY (%) |
|-----------------------------------|------------------|--------------------|--------------|------------|
| | | | ratio (%) | |
| Physiological Measuring Equipment | 40,773 | 41,700 | 22.4 | 2.3 |
| Patient Monitors | 61,978 | 66,150 | 35.6 | 6.7 |
| Treatment Equipment | 33,149 | 34,250 | 18.4 | 3.3 |
| Other Medical Equipment | 42,898 | 43,900 | 23.6 | 2.3 |
| Total | 178,799 | 186,000 | 100.0 | 4.0 |

(Reference)

| | | | | |
|---------------------------------|--------|--------|------|-----|
| Consumables and Services | 79,226 | 83,000 | 44.6 | 4.8 |
|---------------------------------|--------|--------|------|-----|

Average Exchange Rate

| | FY2018 Actual | FY2019 Forecast |
|-------------|------------------|--------------------|
| 1 US Dollar | 110.8 yen | 108 yen |
| 1 EURO | 128.5 yen | 125 yen |

Annual Estimates of Exchange Rate Fluctuations

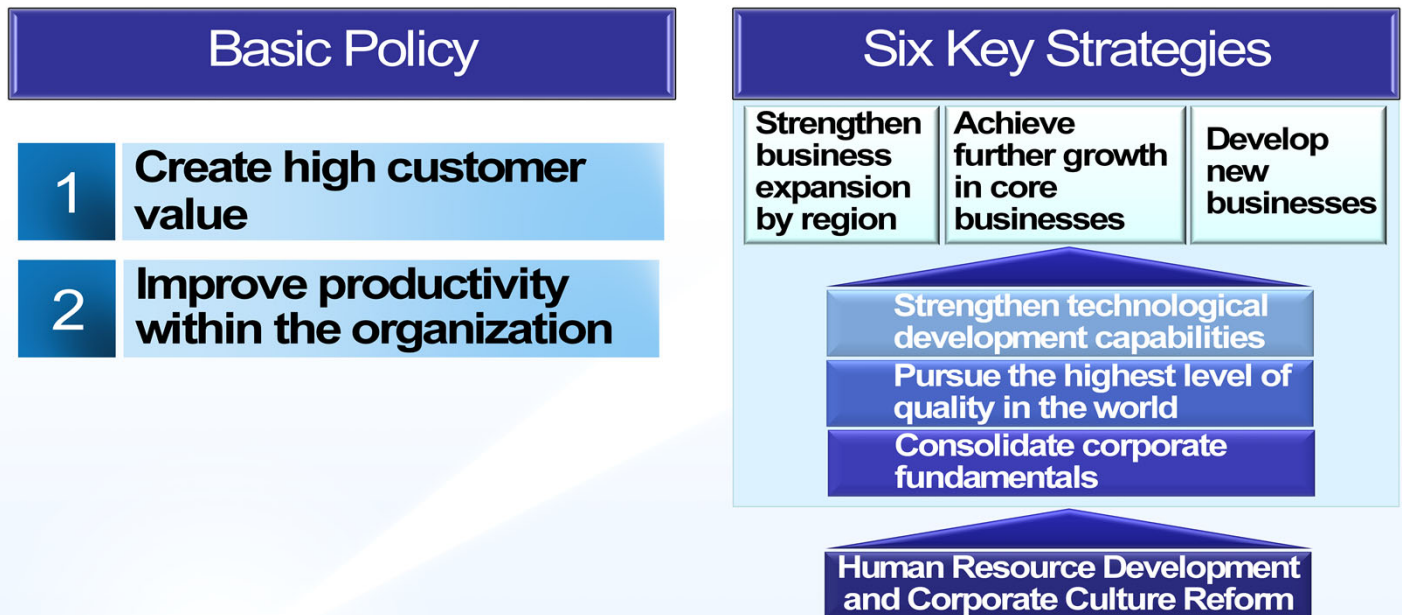
| | Sales | Operating Income |
|-------------|--------------|---------------------|
| 1 US Dollar | 0.32 bil yen | 0.11 bil yen |
| 1 EURO | 0.05 bil yen | 0.02 bil yen |

- As for sales forecasts by product category, we aim at increasing sales in all product categories. We will also enhance our Consumables and Services Business both in Japan and internationally.
- The forecast for FY2019 is based on an exchange rate of 108 yen to the U.S. dollar and 125 yen to the euro.

Progress of Mid-term Business Plan, 3 TRANSFORM 2020

Mid-term Business Plan, TRANSFORM 2020

Transform operations to achieve a highly profitable structure








- The Company implemented its three-year mid-term business plan, TRANSFORM 2020, with the aim of achieving the transformation to a highly profitable structure by executing the six key strategies under the two basic policies.

Review of 2 years of TRANSFORM 2020

1 Create high customer value

Launch in-house products with high customer value

| | | | | | | | |
|--|---|--|---|--|--|--|---|
| Diagnostic Equipment Business | | | | Patient Monitoring Business | | Treatment Equipment Business | |
|  |  |  |  |  | |  |  |
| Electro-encephalograph EEG-1290 | Holter ECG monitor RAC-5000 | Ultrasound probe TUP-C035J | Automated hematology analyzer and clinical chemistry analyzer MEK-1303 + HbA1c | Mid-end bedside monitors CSM-1500/1700 series | | AED for home use color display AED-3101 | AED with home use color display AED-3150 |
| IT Solutions Business | | PrimePartner  | | Consumables and Services Business | | MD Linkage  | |

Expand sales of consumables and services

| | | |
|-------------|--------|---------|
| Sales ratio | FY2016 | FY2018 |
| | 42.8% | → 44.3% |

*CSM-1500/1700 were launched in Japan and internationally. Others were launched only in Japan.

- During the period under the review, the first two years of TRANSFORM 2020, the Company has launched several in-house products with high customer value.
- The Company has also started to provide the Company's first IT solutions which use cloud servers and charge users a monthly fee. MD Linkage, a medical device remote monitoring system, which provides a value-added service by utilizing IoT, was also introduced.
- The sales ratio of Consumables and Services increased to 44.3% as a result of strengthening this business both in Japan and internationally.

Review of 2 years of TRANSFORM 2020

2 Improve productivity within the organization

R&D and Production

- Cost reduction at R&D stage
 - Standardizing parts

- Improve production efficiency at Tomioka Production Center



Production output per employee

Increase 5% or more annually after starting operation of Tomioka Production Center in Apr 2015

The Entire Group

- Establish a global ERP system
 - Introduce ERP into subsidiaries in the Middle East and Korea, following the U.S., Europe and China



- Simplify administrative work between headquarters and domestic sales branches

- To improve productivity within the organization, we have focused on cost reduction at the R&D stage by standardizing parts and sharing design resources at the Advanced Technology Center into which R&D departments were consolidated.
- At the Tomioka Production Center, the production output per employee has increased 5% or more annually since operations began by improving production efficiency.
- As an entire group, we have introduced ERP systems into subsidiaries in the Middle East and Korea, following the U.S., Europe and China in order to establish a global supply chain system.
- We have also promoted reform of operating processes by utilizing ICT such as shared services for administrative procedures between headquarters and domestic sales branches.

Forecast for the last year of TRANSFORM 2020

[Difference b/w target and forecast]

| ¥ billion | FY2019 Target | 3 year CAGR | FY2019 Forecast | 3 year CAGR |
|---|---------------|-------------|-----------------|-------------|
| Sales | 190.0 | 4.5% | 186.0 | 3.8% |
| Domestic Sales | 135.0 | 2.7% | 133.0 | 2.2% |
| Overseas Sales | 55.0 | 9.8% | 53.0 | 8.5% |
| Consumables and Services Sales Ratio | 45.0% | | 44.6% | |
| Operating Income (Operating Income Margin) | 20.0 (10.5%) | 13.8% | 16.0 (8.6%) | 5.6% |
| ROE | 12.0% | | — | |

| | FY2019 Target | FY2019 Forecast | |
|-----------------|---------------|-----------------|--|
| Americas | 27.3 | 25.5 | Delay of new product launches adversely affects strong sales growth in U.S. and emerging markets |
| Europe | 8.2 | 8.9 | |
| Asia | 16.5 | 16.0 | |
| Other | 3.0 | 2.6 | |

| Operating income margin | |
|--|--|
| While achieving some success in improving profitability, delay of new product launches and investments such as the Eastern Japan Logistics Center have adverse effects | |

¥110 to the U.S. dollar, ¥115 to the euro ¥108 to the U.S. dollar, ¥125 to the euro

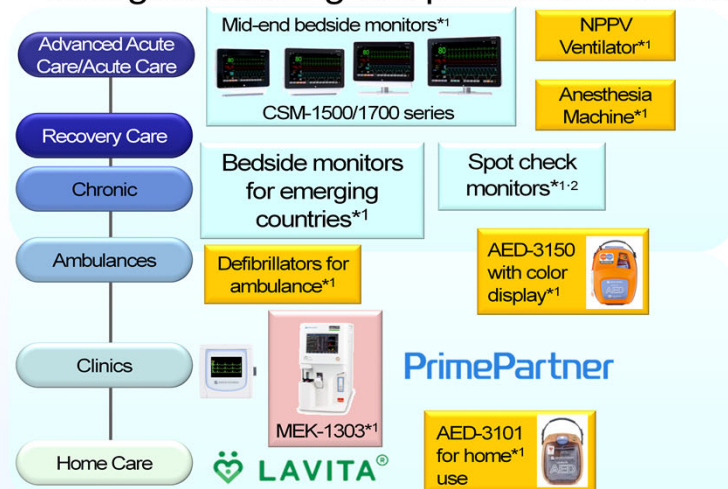
- The difference between the target and the forecast is shown above. Sales have increased both in Japan and internationally, but CAGR of overall sales is expected to be 3.8%, lower than the target of 4.5%.
- In Japan, we have captured replacement demand in the acute care hospital market and the allocation of sales resources into the Tokyo metropolitan area has also produced results. However, sales growth in the small and mid-sized hospital and clinic markets in rural areas remains challenging, as demand for medical care is decreasing. There is also a negative impact of discontinuation of some products, this was not anticipated when we set up the plan.
- Internationally, maintaining strong sales growth in the U.S. and emerging markets remains challenging. This is because new product launches were delayed and it takes time to build a global supply chain to support global expansion.
- The consumables and services sales ratio is increasing and expected to be 44.6%, which is close to the target of 45%.
- Operating income ratio is expected to be 8.6%, lower than the target of 10.5%. This is because the delay of new product launches causes longer payback period and the upfront investments for enhancing the base for growth beyond 2020 such as through reorganization of the logistics structure. Measures to improve profitability and gross margin, such as product mix improvement and cost reduction, have started to produce results steadily and we will keep on working to improve profitability.

Strengthen Business Expansion by Region

Japan

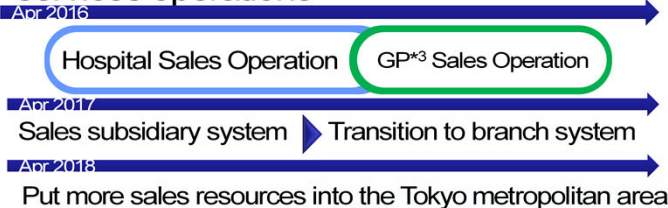
Establish the business foundation for future growth to meet medical needs in an aging society

✓ Strengthen business expansion by market through introducing new products and services



*1 CSM-1500/1700, MEK-1303, AED-3150 and AED-3101 were already launched. Others will be launched in FY2019.

✓ Enhance and reorganize sales and services operations



Promote customer value

Strengthen marketing and service capabilities which contribute to improving:

Medical safety **Patient outcomes** **Operating efficiency**

Preventive Maintenance Contract



Medical Device Remote Monitoring System



*2 It will be launched only as a continuous monitor in Japan

*3 GP: General Practitioner

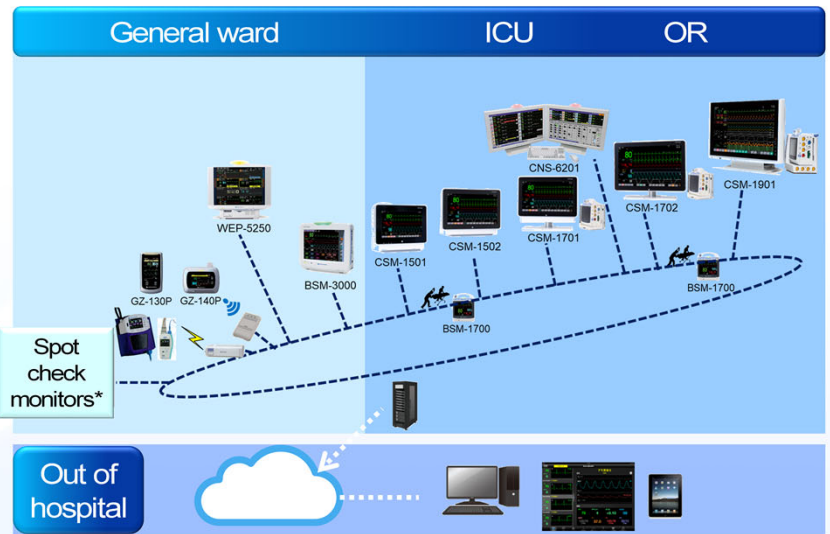
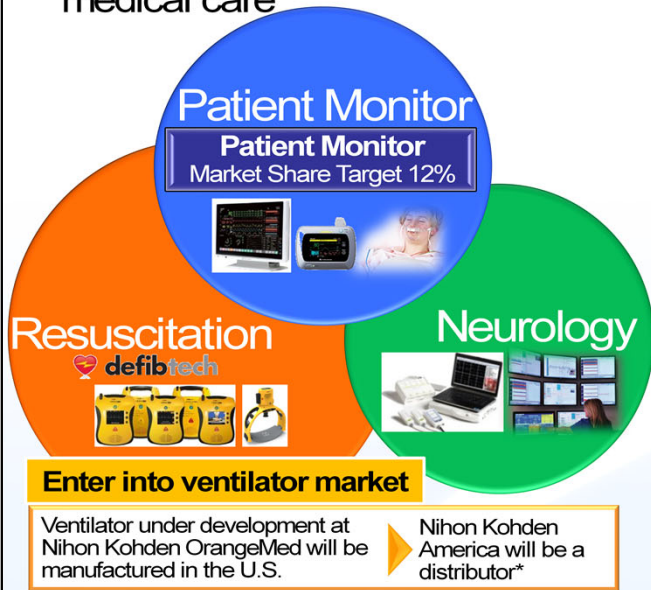
- In Japan, the Company strengthens business expansion by market through expanding its product line-up to cover the total care cycle including acute care, recovery care, chronic care and home care, to meet medical needs in an aging society.
- In addition to the enhancement of our sales structure, we also promote customer value. We strengthen our marketing capabilities and expand value-added services which contribute to improving medical safety, patient outcomes and operating efficiency.

U.S.

Strengthen our business structure in the U.S. which is the world's largest market and a center of leading-edge medical care

✓ Provide solutions that contribute to improving quality and efficiency of medical care

✓ Enable the centralized management of data of all patients in hospital by introducing spot check monitors



* Ventilator will be launched in the U.S. in FY2020.
CSM-1500/1700 and spot check monitors will be launched in FY2019.

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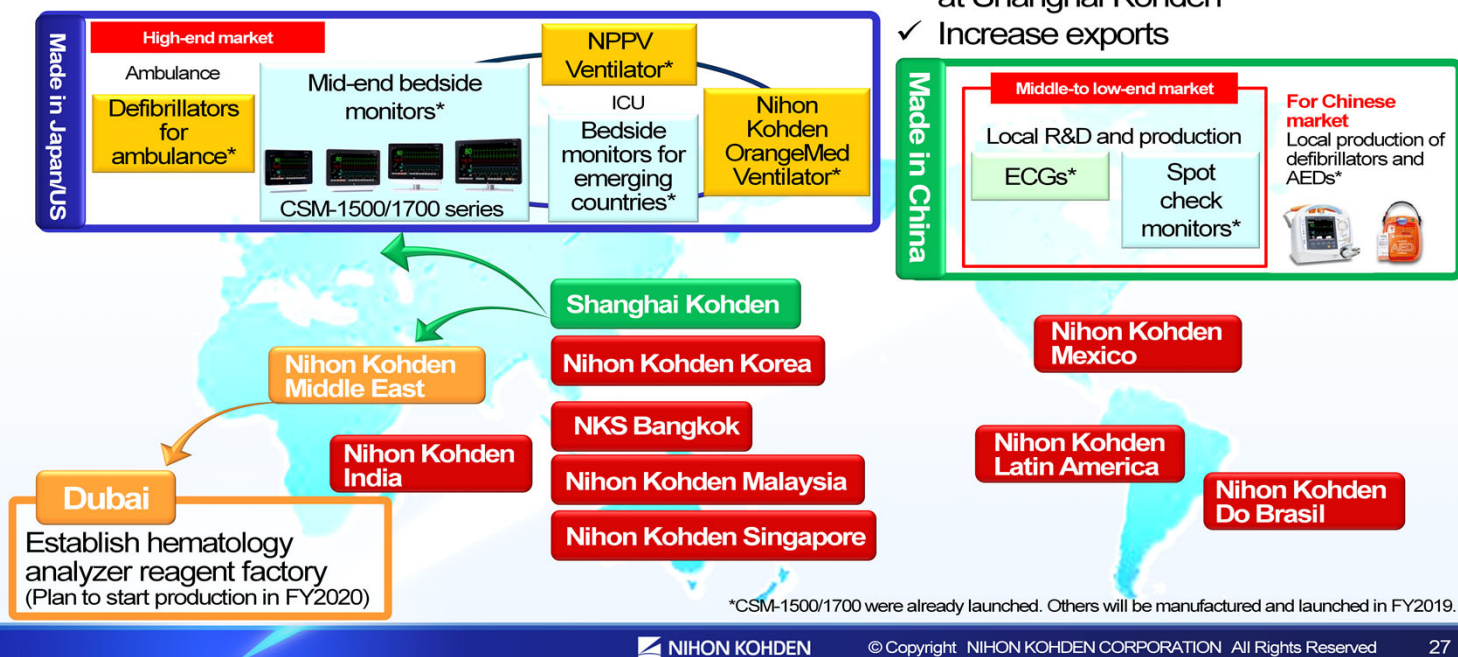
- In the U.S., sales of patient monitors increased favorably as a result of the enhancement of our local sales and R&D structure.
- Our brand awareness is increasing as our patient monitoring systems have been introduced in the U.S. at leading hospitals. We estimate our current market share is around 9%.
- In FY2019, we will introduce our first spot check monitors as well as mid-end bedside monitors. By introducing spot check monitors, we aim at providing comprehensive patient monitoring solutions which enables the centralized management of all patients' data in the hospital. The launch will be in the 2nd half of FY2019 as it takes time to receive regulatory approval.
- In Treatment Equipment Business, we will expand our product line-up. The ventilator under development at Nihon Kohden OrangeMed will be launched in FY2020.

Emerging Markets

Conduct strategic business expansion to meet medical needs in high growth emerging markets

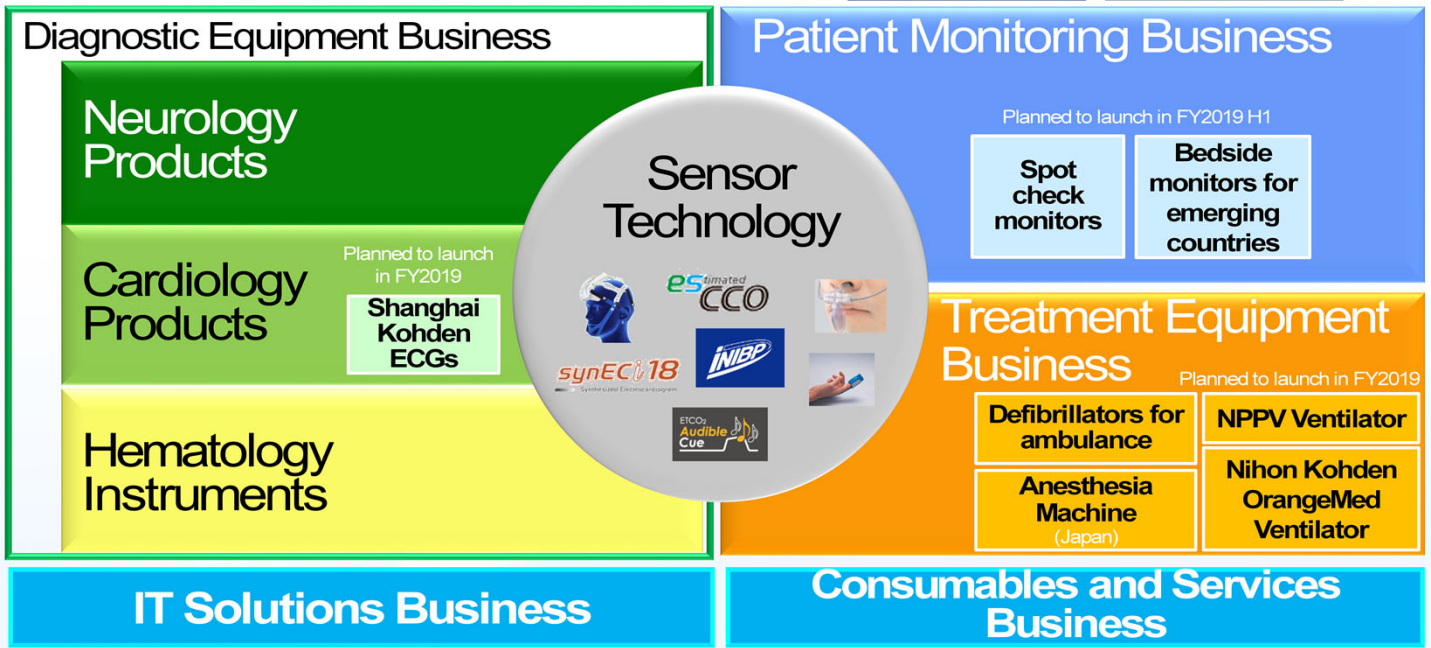
✓ Enhance solution proposals by introducing new products

✓ Expand product line-up manufactured at Shanghai Kohden
 ✓ Increase exports



- In emerging markets, we offer high-value-added products developed and manufactured in Japan and the U.S. to the high end market, where the same level of medical care as in developed countries is required.
- In FY2019, we will enhance our solution proposals by introducing defibrillators for ambulances and bedside monitors for emerging countries as well as two models of ventilators.
- To the middle to low-end market, we offer high-cost-competitive products developed and manufactured in Shanghai. In FY2019, we plan to launch ECGs and spot check monitors developed in Shanghai.
- We will also start local production of defibrillators and AEDs for the Chinese market where our business has been growing favorably.
- We will establish a reagent factory in Dubai for stable supply of genuine reagents, as the installation of hematology analyzers has been increasing in the Middle East and Africa.

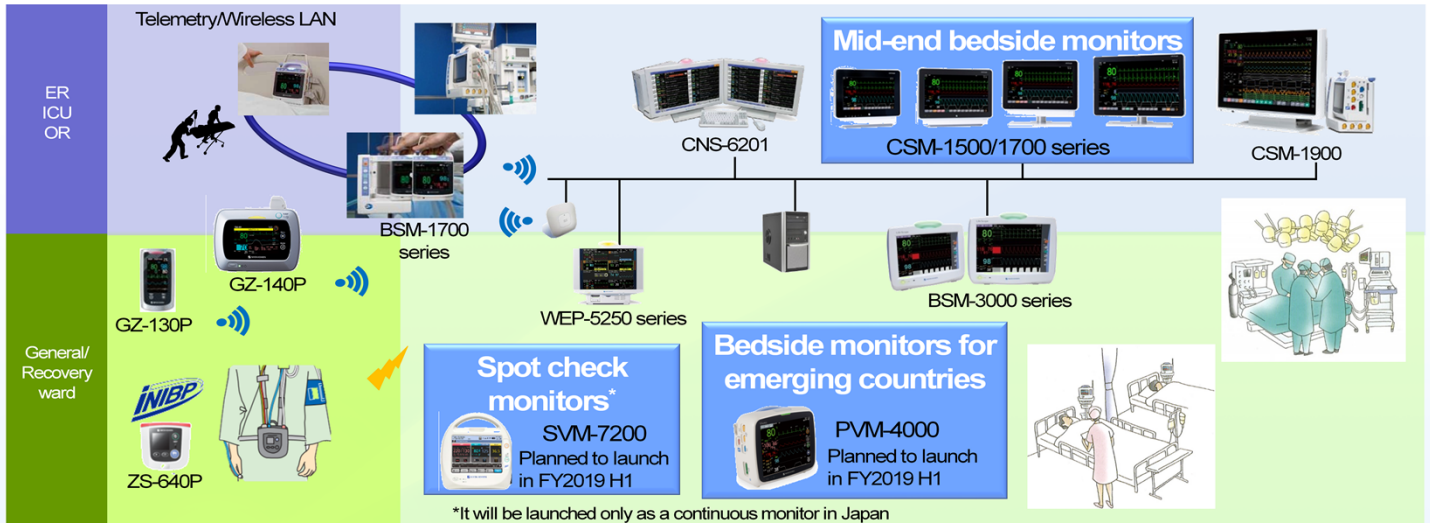
Achieve Further Growth in Core Businesses



- These new products will be launched in FY2019.

- ✓ Provide monitoring solutions that contribute to improving the quality and efficiency of medical care and patient safety

Expand product line-up and enhance network systems



- In our Patient Monitoring Business, we will expand our product line-up to cover all areas from acute care to recovery care. We will also strengthen our competitiveness by enhancing network systems.
- New products such as bedside monitors for emerging countries and spot check monitors developed at Shanghai Kohden will be launched.

Launch new models with high competitiveness

Bedside monitors for emerging countries

Planned to launch in FY2019 H1



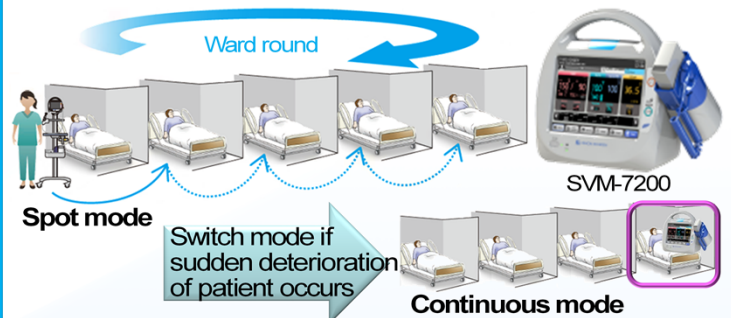
PVM-4000

- Compact monitor with **guide function**
- Enables measuring IBP and CO₂ simultaneously by **two MULTI sockets**
- Wide use in hospitals from general ward to OR/ICU
- Plan to **connect with NPPV ventilator (NKV-330)**

* NPPV (noninvasive positive pressure ventilation) is artificial respiratory management which doesn't require intratracheal intubation or tracheotomy

Spot check monitors

Planned to launch in FY2019 H1



SVM-7200

- Affordable monitors which can measure SpO₂, NIBP and temperature (option)
- **Spot check and Continuous switching function**
- Early Warning Score function

*It will be launched only as a continuous monitor in Japan

- Bedside monitors for emerging countries have a guide function for medical staff who are not familiar with using patient monitors. As these monitors can measure IBP and CO₂ simultaneously, they can be used widely in the hospital from general wards to OR/ICU. Furthermore, we plan to connect them to our in-house NPPV ventilator which enables us to provide new customer value.
- Our first spot check monitors are expected to contribute to sales especially in the U.S market. In the U.S., each patient's NIBP and temperature are measured with a spot check monitor by medical staff making ward rounds. The measured data is sent to the IT systems in the hospital and is centrally managed.
- Our spot check monitors are highly versatile so that they can switch to continuous mode for use as a regular patient monitor if sudden deterioration of the patient condition occurs.

✓ Establish a leadership position in the defibrillator and AED markets

| | |
|--|--|
| <p>Home and public facilities</p>  <p>AED-3101 for home use</p> <p>AED-3150 with color display</p> <p>Remove blue liner from pads and apply pads to patient.</p> <p>Japanese/ English bilingual</p> | <p>Ambulance</p> <p>Add high value with our unique technologies</p> <p>Defibrillators for ambulance</p> <p>Planned to launch in FY2019</p> <p>INIBP</p> <p>synECG¹⁸ Synthesized Electrocardiogram</p> <p>Help manage ETCO₂ during manual ventilation by providing sounds</p> |
|--|--|

✓ Create a new ventilator and anesthesia machine

Planned to launch in FY2019

| | | |
|---|--|--|
| <p>NPPV^{*2} Ventilator</p> <ul style="list-style-type: none"> • Under development at Advanced Technology Center • Target market is general ward | <p>Nihon Kohden OrangeMed Ventilator</p> <ul style="list-style-type: none"> • Under development at Nihon Kohden Orange Med, the U.S. R&D office • It will be manufactured in the U.S. | <p>Anesthesia Machine (Japan)</p> <p>Under development with Acoma</p> |
|---|--|--|

*1 Measurement method to derive right-side and posterior waveforms from the standard 12-lead ECG

*2 NPPV (noninvasive positive pressure ventilation) is artificial respiratory management which doesn't require intratracheal intubation or tracheotomy

- In Treatment Equipment Business, we have launched AEDs with a color display in addition to an AED for home use. They have a Japanese/English bilingual function as the number of foreign tourists coming to Japan is increasing.
- As for defibrillators for ambulance, we aim at creating high customer value by adding our unique technologies such as iNIBP.
- The ventilator and anesthesia machine business is at the stage of introducing two models of ventilators that are our first in-house ventilators, and an anesthesia machine under joint-development with Acoma.

Issues in medical practice

NPPV is better as tracheal intubation has higher infection risk

Patient safety is a concern as general NPPV ventilators don't have enough monitoring functionality

Masks designed by U.S. and European makers don't fit Japanese. Skin problems tend to occur by compressing the face

**Solutions****NPPV Ventilator utilizing our monitoring technologies**

NKV-330

Planned to launch in FY2019



Patient Monitors



Private exhibition at the Japanese Society of Intensive Care Medicine in Mar 2019

"Made in Japan" ventilator attracted many customers

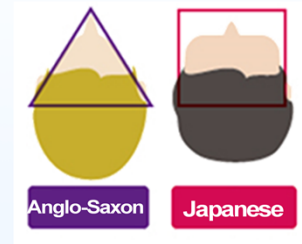
- The first launch will be an NPPV ventilator developed and manufactured in Japan.
- NPPV (non-invasive positive pressure ventilation) is artificial respiratory management using a mask which doesn't require intratracheal intubation and is used mainly for patients in general wards. The NPPV market is expected to grow in the future.
- Our NPPV ventilator is developed by utilizing our base technology of patient monitors, aiming at solving issues in medical practice and realizing safer and more efficient respiratory management.
- We had a private exhibition at the Japanese Society of Intensive Care Medicine in March 2019. Many customers have high expectations for this "Made in Japan" ventilator.

[Medical safety]**Provide safe respiratory care****MULTI socket**

- Enables **monitoring SpO₂ and CO₂ during NPPV** by applying Nihon Kohden's unique technologies
- Contributes to **improving safety**

**[Patient outcomes]****Improve QOL of patients**

- Design original masks which fit the skeletal structure of Japanese faces
- Improve patient comfort, and reduce air leaks and risk of skin problems by improving the fit with the face



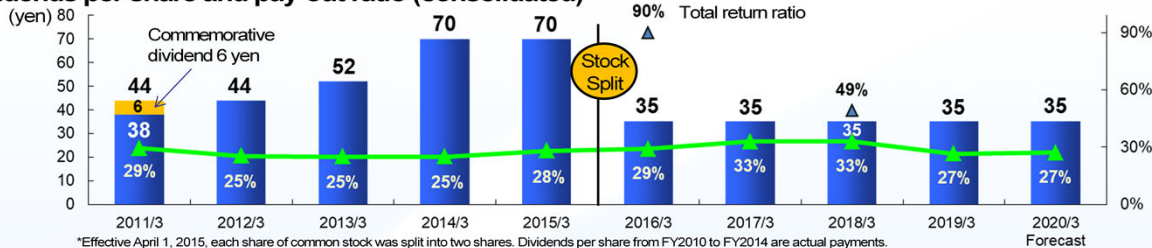
- The function that enables SpO₂ and CO₂ monitoring during NPPV by applying our unique technologies has received high evaluations. Only our NPPV ventilator can provide this function which enables safer respiratory care.
- We also designed original masks which fit the skeletal structure of Japanese faces. This results in improving patient comfort by reducing not only air leaks but also the risk of skin problems.
- This product will be launched in Japan and certain international markets in the 1st half of FY2019. We anticipate the successful market penetration of this product in the future.

Basic Policy on Distribution of Profits and Dividends

| | | | | |
|------------------------|--|---------------------|------------------|----------------------------|
| Investments for Growth | Continue investments necessary for future business expansion | | | |
| | R&D investments | Capital investments | M&A and alliance | Human resource development |

| | |
|--------------------|---|
| Shareholder Return | ✓ Maintain stable and continuous dividend payments |
| | ✓ A target consolidated dividend payout ratio of 30% or more |
| | ✓ Cash dividends are the basis of shareholder return, and share buybacks are considered in a flexible manner. |

Dividends per share and pay-out ratio (consolidated)



*Effective April 1, 2015, each share of common stock was split into two shares. Dividends per share from FY2010 to FY2014 are actual payments.

Repurchase and cancellation of treasury stock

Mar 2, 2018
Repurchase
500k shares



May 21, 2018
Cancel
1,000k shares



Number of treasury stock: 3,570k shares
(stockholding ratio: 4.0%)

- Our basic policy on distribution of profits and dividends is to maintain stable and continuous dividend payments while retaining necessary reserves for future business expansion such as R&D investments, capital investments, M&A and Alliance, and development of human resources. The target consolidated pay-out ratio is 30% or more.
- Cash dividends are the basis of shareholder return, and share buybacks are considered in a flexible manner.
- Full-year dividends for FY2019 will be 35 yen, and the payout ratio will be 27%.

Disclaimer:

The contents of this document are based on the Company's best judgments at the time it was prepared and do not constitute a guarantee or promise that the Company will achieve its numerical targets or implement the measures described therein.