**KNOW YOUR GS1 BARCODES AND WHAT IS IN THEM!**
Key to Patient Safety and Supply Chain Efficiency

**WHAT'S IN A BARCODE?**

<table>
<thead>
<tr>
<th>GTIN with Expiration Date, Lot/Batch &amp; Serial Number encoded in a GS1-128 Barcode*</th>
<th>Example of GS1 DataMatrix For DSCSA or UDI</th>
<th>Examples of GS1-128 Barcodes for UDI</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTIN - Global Trade Item Number</td>
<td>(01) Global Trade Item Number</td>
<td>GTIN with Expiration Date &amp; Lot/Batch Number encoded in a GS1-128 Barcode*</td>
</tr>
<tr>
<td>Expiration Date</td>
<td>(17) Expiration Date YYMMDD</td>
<td>GTIN with Lot/Batch Number encoded in a GS1-128 Barcode</td>
</tr>
<tr>
<td>Lot / Batch Number</td>
<td>(21) Production Date YYMMDD</td>
<td>*For FDA UDI Compliance</td>
</tr>
<tr>
<td>Serial Number</td>
<td>(21) Global Trade Item Number</td>
<td>*GTIN can be encoded on the top GS1-128 or the lower GS1-128</td>
</tr>
</tbody>
</table>

*GS1 strongly recommends GS1 DataMatrix for Healthcare use

**GS1 DATA CARRIERS**

<table>
<thead>
<tr>
<th>GTIN - 12 (U.P.C.)</th>
<th>ITF - 14</th>
<th>GS1 DataBar® Stacked</th>
<th>GS1 DataBar Limited with Composite Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPC in RFID Tag*</td>
<td>GTIN - 12 (U.P.C.)</td>
<td>GS1 DataBar® Stacked</td>
<td>GS1 DataBar Limited with Composite Component</td>
</tr>
<tr>
<td>North American Retail</td>
<td>GS1 DataBar® Stacked</td>
<td>GS1 DataBar Limited with Composite Component</td>
<td></td>
</tr>
<tr>
<td>Shipping Containers (especially corrugated)</td>
<td>GS1 DataBar Limited with Composite Component</td>
<td>GTIN with Lot/Batch Number encoded in a GS1-128 Barcode</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES & TOOLS**

Human Readable Interpretation Application Identifier

(01) Global Trade Item Number
(17) Expiration Date YYMMDD
(11) Production Date YYMMDD

*Same data can be encoded in either GS1-128 or GS1 DataMatrix

*Store data in separate fields in database to allow Data Query

**GS1 BARCODE TIPS**

1. Parentheses are not encoded
2. Spaces are not encoded
3. Minimum Grade C except ITF-14(D)

**Contact**

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Disclaimer
This document is intended to demonstrate the use of GS1 Standards for Unique Device Identification. It does not provide any guidance or advice regarding regulatory compliance. Please consult your internal regulatory staff for compliance questions.

*Barcodes not to scale

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