Opportunistic Infections Among Hematopoietic Stem Cell Transplant Recipients

- Guidelines for Preventing
- Worldwide Network for Blood and Marrow Transplantation, Global Survey 2013 data
- Global Observatory on Donation and Transplantation, http://www.transplant-observatory.org/

126,670 SOT worldwide in 2015, 5.4% increase vs 2014:
70,000 HSCT worldwide in 2011, 22% increase vs 2010, and 80% increase vs 2000 in Europe.

15% of transplant patients suffer from a chronic viral infection
10% of transplant patients suffer from organ rejection episodes.

Post-transplant infection timeline:
- Month 1
- Month 2
- Month 3
- Month 4
- Month 5
- Month 6

SOT
- CMV
- EBV
- HSV/CMV
- Pneumocystosis
- Toxoplasma
- Aspergillus
- Parvovirus
- JCV

HSCT
- CMV
- EBV
- HHV-6
- HHV-7
- Enterovirus
- WNV
- BKV
- JCV
- Parvovirus
- Adenovirus

Product Name | Quantity | Reference
--- | --- | ---
CMV ELITe MGB® Kit | 100 | RTS015PLD
EBV ELITe MGB® Kit | 100 | RTS020PLD
HHV-6 ELITe MGB® Kit | 100 | RTS036PLD
HHV-7 ELITe MGB® Kit | 100 | RTS037PLD
Enterovirus ELITe MGB® Kit | 100 | RTS100PLD
WNV ELITe MGB® Kit | 100 | RTS109PLD
BKV ELITe MGB® Kit | 100 | RTS175PLD
JCV ELITe MGB® Kit | 100 | RTS176PLD
Parvovirus ELITe MGB® Kit | 100 | RTS177PLD

ELITechGroup delivers unparalleled solutions for transplant pathogen monitoring based on the ELITE MGB® line, a real-time PCR assay menu, unique both by its breadth and its performance. In combination with ELITE inGenius, the first sample-to-result solution dedicated to transplant pathogen monitoring, laboratories gain significant benefits in terms of quality of results, efficiency, productivity, and costs.

- Workload reduction
- Workflow simplification
- Result accuracy and standardization
- Cost reduction
- Adaptability to testing needs
- High performance assays, and proven technology

Additionally, CE-IVD validated with conventional PCR systems and compatible with most of extraction, and thermal cyclers available on market, the ELITE MGB® line offers laboratories a unique configuration adapted to every laboratory workflow and throughput needs.

ELITE InGenius: Sample-to-Result Solution Dedicated to Transplant Pathogen Monitoring
Comparison of CMV analytical sensitivity

<table>
<thead>
<tr>
<th>Assay</th>
<th>Minimum LOQ (IU/mL)</th>
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<tbody>
<tr>
<td>Abbott Artus CMV RGQ MDx kit</td>
<td>69 IU/mL</td>
</tr>
<tr>
<td>Qiagen AltoStar® CMV PCR Kit</td>
<td>713 IU/mL</td>
</tr>
<tr>
<td>Diasorin Sentosa SA CMV PCR</td>
<td>99 IU/mL</td>
</tr>
<tr>
<td>Vela diagnostics Simplexa™</td>
<td>215 IU/mL</td>
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</tbody>
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CMV ELITe MGB® line offers the broadest CE-IVD menu for transplant pathogen monitoring

Highest performance enabling laboratories to achieve excellence

- Superior clinical performance demonstrated by extensive validation studies performed with every parameter in combination with each matrix
- Highest analytical sensitivity: comparison to other CE-IVD solutions: CMV LoD = 17 IU/mL, EBV = 14 IU/mL, BKV = 44 IU/mL obtained with ELITe InGenius SP 1000 extraction cartridge
- Standardized results, available on demand in International Units or copies
- Storage of controls and standard curves up to 2 months
- Proven technologies demonstrated by a Mean Time Before Failure higher than 13 months

Complete menu consolidation for today and tomorrow

- Unlimited menu capability in combination with other ELITe InGenius multiplex assays for respiratory, healthcare associated infections, gastro-intestinal, and meningitis testing, or laboratory developed tests within the same run
- Compatible with open instruments: all PCR reagents can be used on both sample-to-result and conventional PCR systems

Superior clinical performance demonstrated by extensive validation studies performed with each matrix in combination with each matrix

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