

Tenecteplase

Restricted for use under **Stroke Department in Radiology and ED** in accordance with **CUH Acute Stroke Pathway** available on www.emed.ie

Indication Acute Ischaemic Stroke

| Form | Tenecteplase (Metalyse®) 25mg (Each 25mg vial contains 5,000 units tenecteplase) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-------------|-------------|-----------|-------------|-----------|-----------|----|----|-----|----|----|-----|----|------|-----|----|------|-----|----|----|-----|----|----|-----|----|------|-----|----|------|-----|----|----|-----|----|----|-----|----|------|-----|----|------|-----|----|----|-----|----|----|-----|----|------|-----|----|------|-----|----|----|-----|----|----|-----|----|------|-----|----|------|-----|----|----|-----|----|----|-----|----|------|-----|----|------|-----|----|----|-----|----|----|-----|----|------|-----|----|------|-----|----|----|-----|-----|----|-----|----|------|-----|--|--|--|
| Reconstitution | <ul style="list-style-type: none"> Add 5ml volume of sterile water for injection to the vial containing the powder for injection. Keep syringe attached and agitate the mixture by gently swirling, inverting or rolling the vial. Do NOT shake the vial. Ensure powder is dissolved, only use clear solution with no particles. The reconstituted solution contains 5mg tenecteplase per mL. Using weight based table, only withdraw dose to be administered into syringe. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compatibility & Stability | Sodium Chloride 0.9% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dose | <p>0.25 mg / kg IV bolus over 5 seconds (Maximum dose 25 mg)</p> <p>Calculate the total weight based dose of tenecteplase using table below.</p> <table border="1"> <thead> <tr> <th>Weight (kg)</th> <th>Dose (mg)</th> <th>Dose (mL)</th> <th>Weight (Kg)</th> <th>Dose (mg)</th> <th>Dose (mL)</th> </tr> </thead> <tbody> <tr><td>40</td><td>10</td><td>2.0</td><td>72</td><td>18</td><td>3.6</td></tr> <tr><td>42</td><td>10.5</td><td>2.1</td><td>74</td><td>18.5</td><td>3.7</td></tr> <tr><td>44</td><td>11</td><td>2.2</td><td>76</td><td>19</td><td>3.8</td></tr> <tr><td>46</td><td>11.5</td><td>2.3</td><td>78</td><td>19.5</td><td>3.9</td></tr> <tr><td>48</td><td>12</td><td>2.4</td><td>80</td><td>20</td><td>4.0</td></tr> <tr><td>50</td><td>12.5</td><td>2.5</td><td>82</td><td>20.5</td><td>4.1</td></tr> <tr><td>52</td><td>13</td><td>2.6</td><td>84</td><td>21</td><td>4.2</td></tr> <tr><td>54</td><td>13.5</td><td>2.7</td><td>86</td><td>21.5</td><td>4.3</td></tr> <tr><td>56</td><td>14</td><td>2.8</td><td>88</td><td>22</td><td>4.4</td></tr> <tr><td>58</td><td>14.5</td><td>2.9</td><td>90</td><td>22.5</td><td>4.5</td></tr> <tr><td>60</td><td>15</td><td>3.0</td><td>92</td><td>23</td><td>4.6</td></tr> <tr><td>62</td><td>15.5</td><td>3.1</td><td>94</td><td>23.5</td><td>4.7</td></tr> <tr><td>64</td><td>16</td><td>3.2</td><td>96</td><td>24</td><td>4.8</td></tr> <tr><td>66</td><td>16.5</td><td>3.3</td><td>98</td><td>24.5</td><td>4.9</td></tr> <tr><td>68</td><td>17</td><td>3.4</td><td>100</td><td>25</td><td>5.0</td></tr> <tr><td>70</td><td>17.5</td><td>3.5</td><td></td><td></td><td></td></tr> </tbody> </table> | Weight (kg) | Dose (mg) | Dose (mL) | Weight (Kg) | Dose (mg) | Dose (mL) | 40 | 10 | 2.0 | 72 | 18 | 3.6 | 42 | 10.5 | 2.1 | 74 | 18.5 | 3.7 | 44 | 11 | 2.2 | 76 | 19 | 3.8 | 46 | 11.5 | 2.3 | 78 | 19.5 | 3.9 | 48 | 12 | 2.4 | 80 | 20 | 4.0 | 50 | 12.5 | 2.5 | 82 | 20.5 | 4.1 | 52 | 13 | 2.6 | 84 | 21 | 4.2 | 54 | 13.5 | 2.7 | 86 | 21.5 | 4.3 | 56 | 14 | 2.8 | 88 | 22 | 4.4 | 58 | 14.5 | 2.9 | 90 | 22.5 | 4.5 | 60 | 15 | 3.0 | 92 | 23 | 4.6 | 62 | 15.5 | 3.1 | 94 | 23.5 | 4.7 | 64 | 16 | 3.2 | 96 | 24 | 4.8 | 66 | 16.5 | 3.3 | 98 | 24.5 | 4.9 | 68 | 17 | 3.4 | 100 | 25 | 5.0 | 70 | 17.5 | 3.5 | | | |
| Weight (kg) | Dose (mg) | Dose (mL) | Weight (Kg) | Dose (mg) | Dose (mL) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 10 | 2.0 | 72 | 18 | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | 10.5 | 2.1 | 74 | 18.5 | 3.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 11 | 2.2 | 76 | 19 | 3.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | 11.5 | 2.3 | 78 | 19.5 | 3.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 12 | 2.4 | 80 | 20 | 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 12.5 | 2.5 | 82 | 20.5 | 4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | 13 | 2.6 | 84 | 21 | 4.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | 13.5 | 2.7 | 86 | 21.5 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | 14 | 2.8 | 88 | 22 | 4.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | 14.5 | 2.9 | 90 | 22.5 | 4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 15 | 3.0 | 92 | 23 | 4.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 15.5 | 3.1 | 94 | 23.5 | 4.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64 | 16 | 3.2 | 96 | 24 | 4.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | 16.5 | 3.3 | 98 | 24.5 | 4.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | 17 | 3.4 | 100 | 25 | 5.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 17.5 | 3.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Administration | <p>Give the total dose as an IV bolus injection over 5 seconds. Flush prior to, and following administration with 10ml sterile sodium chloride 0.9%. NOT compatible with IV lines containing glucose.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

This information has been summarised to act as a guide for those administering IV medication. The monograph should be used in conjunction with the drug data sheet and BNF for information on dose, adverse effects, cautions and contra-indications. Further information is available from Pharmacy on 22146 or 22542

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| Monitoring | Document vital signs and neurological assessments every 15 minutes for 1 hours, then every 30 minutes for the next 6 hours, then hourly for the next 16 hours. Document any changes in neurological condition (develops severe headache, acute hypertension and/or bradycardia, nausea or vomiting, or decrease in level of consciousness) and inform Stroke immediately |
| Documentation | The total tenecteplase dose given must be documented in the patient's prescription kardex and the time of administration must be recorded. |
| Additional Information | To be stored at room temperature. Will be available in Radiology Department (Tenecteplase box, kept at back of main CT), Emergency Department and on Ward 3B (Acute Stroke Unit). |

Information provided relates to Metalyse® manufactured by Boehringer Ingelheim.

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