

## Disclosure slide

Conflict of interests	None
Relevant relationship with companies	None

## eTriage/eDiagnostics

Drs. S.Sakotic, psychologist  
Groningen, January 24, 2014



iLentis; innovation of care by using smart technology



## Mental Health Care to and from 2014

General Practitioner (GP) = Gatekeeper

Before 2014:

GPs refer patients to mental health care (primary or secondary) based on their judgement. Research shows that 40% of diagnoses are not recognized by GPs.

From 2014:

GPs refer patients to mental health care (General/Basic or Specialized) adding eTriage/eDiagnostics instruments to support their decision. Result is improvement in matched care.



## Introducing eTriage Lentis

## 1. What is eTriage?

## 2. Why use eTriage?

## 3. How does eTriage work?

Substantive explanation and demoslides



## What is eTriage?

- Webapplication for screening and diagnostics *prior* to referral developed by Telepsy with GPs, mental health care professionals and University Maastricht (also validation)
- Adaptive software; smart questionnaires which determine the sequel based on patient responses:
  - DS-1-5 (based on DSM-IV).
  - Additional specialized questionnaires
  - E-mail notifications for risk of suicide & psychosis
  - Review of the software generated profile by special trained health care professionals. End product = report with preliminary diagnoses and echelon advice.
- For now available only for adult patients (>16 year). For children it is in development.



## Why eTriage?

Goals:


- Matched Care: as soon as possible in the right place for treatment by the most appropriate professional.
- Improving the "front" door: early identification, triage, diagnosis, health allocation
- Efficiency: Increase efficiency by preventing mismatch and better-informed counselor and patient
- Accessibility: transparent and objective guidance and consultation
- Empowerment: increased self-awareness contributes to joint decisions on diagnosis and treatment

The diagram illustrates the eTriage process flow, starting with a GP referring a patient to the system. The process follows these steps:

- GP refers to TP
- Step 1: Patient receives an email
- Step 2: Patient answers questions
- Step 3: TP psychologist reads profile
- Step 4: Telephone consultation
- Optional step: add specialized questionnaire
- Step 5: Report GP
- Step 6: Appointment patient and GP

Icons on the left side of the flowchart represent different stages: an email icon for Step 1, a question mark for Step 2, glasses for Step 3, a telephone for Step 4, a document for Step 5, and a calendar for Step 6.

[illegible]




Uw bestrijdings  
 (BRIJG)

Vraag bezocht  
 Geen

### Uw persoonlijke gegevens


Controleer hieronder uw persoonlijke gegevens en of dat aan wijzigen nodig.

Voornaam

Voornaam  

Tussenvoegsels


Achternaam

Geboortedatum  


Geboortedatum  (00-mm-yyyy)


Adres


Postnummer

Postcode  

Staat

Land  Nederland 

Telnummer  


Telnummer (alt)  

E-mailadres

Profiel

Telnummer lokale


10775 | 10776 | 10777 | 10778 | 10779 | 10780 | 10781 | 10782 | 10783 | 10784 | 10785 | 10786 | 10787 | 10788 | 10789 | 10790 | 10791 | 10792 | 10793 | 10794 | 10795 | 10796 | 10797 | 10798 | 10799 | 10800 | 10801 | 10802 | 10803 | 10804 | 10805 | 10806 | 10807 | 10808 | 10809 | 10810 | 10811 | 10812 | 10813 | 10814 | 10815 | 10816 | 10817 | 10818 | 10819 | 10820 | 10821 | 10822 | 10823 | 10824 | 10825 | 10826 | 10827 | 10828 | 10829 | 10830 | 10831 | 10832 | 10833 | 10834 | 10835 | 10836 | 10837 | 10838 | 10839 | 10840 | 10841 | 10842 | 10843 | 10844 | 10845 | 10846 | 10847 | 10848 | 10849 | 10850 | 10851 | 10852 | 10853 | 10854 | 10855 | 10856 | 10857 | 10858 | 10859 | 10860 | 10861 | 10862 | 10863 | 10864 | 10865 | 10866 | 10867 | 10868 | 10869 | 10870 | 10871 | 10872 | 10873 | 10874 | 10875 | 10876 | 10877 | 10878 | 10879 | 10880 | 10881 | 10882 | 10883 | 10884 | 10885 | 10886 | 10887 | 10888 | 10889 | 10890 | 10891 | 10892 | 10893 | 10894 | 10895 | 10896 | 10897 | 10898 | 10899 | 10900 | 10901 | 10902 | 10903 | 10904 | 10905 | 10906 | 10907 | 10908 | 10909 | 10910 | 10911 | 10912 | 10913 | 10914 | 10915 | 10916 | 10917 | 10918 | 10919 | 10920 | 10921 | 10922 | 10923 | 10924 | 10925 | 10926 | 10927 | 10928 | 10929 | 10930 | 10931 | 10932 | 10933 | 10934 | 10935 | 10936 | 10937 | 10938 | 10939 | 10940 | 10941 | 10942 | 10943 | 10944 | 10945 | 10946 | 10947 | 10948 | 10949 | 10950 | 10951 | 10952 | 10953 | 10954 | 10955 | 10956 | 10957 | 10958 | 10959 | 10960 | 10961 | 10962 | 10963 | 10964 | 10965 | 10966 | 10967 | 10968 | 10969 | 10970 | 10971 | 10972 | 10973 | 10974 | 10975 | 10976 | 10977 | 10978 | 10979 | 10980 | 10981 | 10982 | 10983 | 10984 | 10985 | 10986 | 10987 | 10988 | 10989 | 10990 | 10991 | 10992 | 10993 | 10994 | 10995 | 10996 | 10997 | 10998 | 10999 | 11000 | 11001 | 11002 | 11003 | 11004 | 11005 | 11006 | 11007 | 11008 | 11009 | 11010 | 11011 | 11012 | 11013 | 11014 | 11015 | 11016 | 11017 | 11018 | 11019 | 11020 | 11021 | 11022 | 11023 | 11024 | 11025 | 11026 | 11027 | 11028 | 11029 | 11030 | 11031 | 11032 | 11033 | 11034 | 11035 | 11036 | 11037 | 11038 | 11039 | 11040 | 11041 | 11042 | 11043 | 11044 | 11045 | 11046 | 11047 | 11048 | 11049 | 11050 | 11051 | 11052 | 11053 | 11054 | 11055 | 11056 | 11057 | 11058 | 11059 | 11060 | 11061 | 11062 | 11063 | 11064 | 11065 | 11066 | 11067 | 11068 | 11069 | 11070 | 11071 | 11072 | 11073 | 11074 | 11075 | 11076 | 11077 | 11078 | 11079 | 11080 | 11081 | 11082 | 11083 | 11084 | 11085 | 11086 | 11087 | 11088 | 11089 | 11090 | 11091 | 11092 | 11093 | 11094 | 11095 | 11096 | 11097 | 11098 | 11099 | 11100 | 11101 | 11102 | 11103 | 11104 | 11105 | 11106 | 11107 | 11108 | 11109 | 11110 | 11111 | 11112 | 11113 | 11114 | 11115 | 11116 | 11117 | 11118 | 11119 | 11120 | 11121 | 11122 | 11123 | 11124 | 11125 | 11126 | 11127 | 11128 | 11129 | 11130 | 11131 | 11132 | 11133 | 11134 | 11135 | 11136 | 11137 | 11138 | 11139 | 11140 | 11141 | 11142 | 11143 | 11144 | 11145 | 11146 | 11147 | 11148 | 11149 | 11150 | 11151 | 11152 | 11153 | 11154 | 11155 | 11156 | 11157 | 11158 | 11159 | 11160 | 11161 | 11162 | 11163 | 11164 | 11165 | 11166 | 11167 | 11168 | 11169 | 11170 | 11171 | 11172 | 11173 | 11174 | 11175 | 11176 | 11177 | 11178 | 11179 | 11180 | 11181 | 11182 | 11183 | 11184 | 11185 | 11186 | 11187 | 11188 | 11189 | 11190 | 11191 | 11192 | 11193 | 11194 | 11195 | 11196 | 11197 | 11198 | 11199 | 11200 | 11201 | 11202 | 11203 | 11204 | 11205 | 11206 | 11207 | 11208 | 11209 | 11210 | 11211 | 11212 | 11213 | 11214 | 11215 | 11216 | 11217 | 11218 | 11219 | 11220 | 11221 | 11222 | 11223 | 11224 | 11225 | 11226 | 11227 | 11228 | 11229 | 11230 | 11231 | 11232 | 11233 | 11234 | 11235 | 11236 | 11237 | 11238 | 11239 | 11240 | 11241 | 11242 | 11243 | 11244 | 11245 | 11246 | 11247 | 11248 | 11249 | 11250 | 11251 | 11252 | 11253 | 11254 | 11255 | 11256 | 11257 | 11258 | 11259 | 11260 | 11261 | 11262 | 11263 | 11264 | 11265 | 11266 | 11267 | 11268 | 11269 | 11270 | 11271 | 11272 | 11273 | 11274 |




U bent ingelogd als  
 Yvonne  
 29-06-2019, 14:33

### Hoeveel last heeft u van uw psychische problemen?

- ☐ 1-100% van afgenomen functioneren en/of 1 en meer problemen (Geen problemen)
- ☐ 1-10% van geestfunctioneren en/of 1 en/of 2 symptomen (Lichte symptomen, af en toe lastig, niet goed te beheersen)
- ☐ 71-80% het 2de symptomen en/of 1 en/of meer beperkingen in functioneren
- ☐ 61-70% het 3de symptomen en/of 1 en/of 2 beperkingen in mijn functioneren (Bepaalde last)
- ☐ 51-60% het 4de symptomen en/of 1 en/of 3 beperkingen in mijn functioneren (Bepaalde last, beperkt sociale leven)
- ☐ 41-50% het 5de symptomen en/of 1 en/of 4 beperkingen in mijn functioneren (Bepaalde last, beperkt sociale leven)
- ☐ 31-40% het 6de symptomen en/of 1 en/of 5 beperkingen in functioneren op 1 of 2 plaatsen


15%

[LIFE1919 - Wat is LIFE1919](#) |
 [WET-EN-GEZONDHEID](#) |
 [WET-EN-GEZONDHEID](#) |
 [WET-EN-GEZONDHEID](#)



U heeft ingeloopt als:  
Uitloggen

Vrijg bezock  
20-09-2023, 14:19

## Klaar

U heeft de tests succesvol afgerond.

De expertisefunctie worden de tests afgerond door een van onze psychologen met expertise in de diagnostiek.

Binnen enkele dagen neemt deze psycholoog telefonisch contact met u op om het resultaat te bespreken en staat nog enkele verduidelijgende vragen aan u te stellen.

Log uit

UvA Amsterdam UMC | 020 691 9000 | 020 691 9001 | 020 691 9002 | [Hulp en ondersteuning](#)

[illegible]

**In behandeling - Demo, S. - 01-01-1950 - #12345**

Verwijzen (patiënt)

Verwijzen

Multitaskingspatroon Demo  
Dr. A.B.C. Voorjaar  
Verwijzingsjaar 1  
1234 AB Stad

VERTOUWELIJK

**Uitslag eTriage** **Kliniek** **Physis, kliniek**  
12345 Maastricht, 21-06-2013

**Patent**  
Naam: Drs. S. Demo  
Geboortedatum: 01-01-1950  
Path: 1

**Verwijzing**  
In overleg overleg bevestigd zorgaanbieder

**Verwijzing voor**

<input type="checkbox"/> Niet van toepassing	<input type="checkbox"/> Overmatig
<input type="checkbox"/> Angststoornis	<input type="checkbox"/> Overmatige angst
<input type="checkbox"/> Somatoforme stoornis	<input type="checkbox"/> Eetstoornis
<input type="checkbox"/> Slaapstoornis	<input type="checkbox"/> Angststoornis
<input type="checkbox"/> Secundaire generalisatiestoornis	<input type="checkbox"/> Overmatige angst
<input type="checkbox"/> Aan rode ogen gekleefde stoornis	<input type="checkbox"/> Overmatige angst
<input type="checkbox"/> Overmatige angst	<input type="checkbox"/> Overmatige angst
<input type="checkbox"/> Angst	<input type="checkbox"/> Overmatige angst
<input type="checkbox"/> Overmatige angst	<input type="checkbox"/> Overmatige angst

**Verwijzing voor**

☐ Psychische problemen

Opties: Toestemming opties: Toestemming om 02.03.14

## Results pilot at Lentis

- First results promising. Better matching by using eTriage
- Guidance based on referral letter VS guidance based on eTriage, in appr. 30 % different outcomes by using eTriage (N=63):
  - 13 % would refer to the "primary", while eTriage indicated "secondary"
  - 17,5 % would refer to the "secondary", while eTriage indicated "primary"
- Interviewers / therapists and patients are predominantly positive
- In appr. 85% preliminary diagnosis is acquired by therapists
- Results pilot eTriage confirmed by larger research done by University Maastricht
  - <http://www.reuters.com/article/2013/10/10/us-online-system-idUSBRE99914H20131010/#>
  - <http://fampra.oxfordjournals.org/content/early/2013/09/02/fampra.cmt046.abstract?aid=3ce13468-a952-4c4d-a748-3b1967337834>

**Questions?**

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