# WEEKLY EPIDEMIOLOGICAL REPORT A publication of the Epidemiology Unit Ministry of Health <br> 231, de Saram Place, Colombo 01000, Sri Lanka <br> Tele: + 9411 2695112, Fax: +94 11 2696583, E mail: epidunit@sltnet.|k Epidemiologist: +94 11 2681548, E mail: chepid@sitnet.lk Web: http://www.epid.gov.lk 

Vol. 42 No. 07
$07^{\text {th }}-13^{\text {th }}$ February 2015

## Dyslexia

## What is Dyslexia?

Dyslexia is a common learning difficulty that mainly affects the way people read and spell words. The World Federation of Neurology defines dyslexia as "a disorder manifested by difficulty in learning to read despite conventional instruction, adequate intelligence and sociocultural opportunity".

## Signs and symptoms

Dyslexia is a spectrum disorder, with symptoms ranging from mild to severe. People with dyslexia have particular difficulty with:

- phonological awareness
- verbal memory
- rapid serial naming
- verbal processing speed

These terms are explained in more detail below.


## Phonological awareness

Phonological awareness is thought to be a key skill in early reading and spelling development. It is the ability to identify how words are made up of smaller units of sound, known as phonemes. Changes in the sounds that make up words can lead to changes in their meaning.

For example, a child with a good level of phonological awareness would understand that if you change the letter " p " in the word "pat" to " s ", the word becomes "sat".

## Verbal memory

Verbal memory is the ability to remember a sequence of verbal information for a short period of time.

For example, the ability to remember a short list such as "red, blue, green", or a set of simple instructions, such as "Put on your gloves and your hat, find the lead for the dog and then go to the park."

## Rapid serial naming

This is the ability to name a series of colors, objects or numbers as fast as possible.

## Verbal processing speed

Verbal processing speed is the time it takes to process and recognize familiar verbal information, such as letters and digits.

For example, someone with a good verbal processing speed has the ability to quickly write down unfamiliar words when they are spelled out, or write down telephone numbers they are told.

## Dyslexia and intelligence

Dyslexia only affects some skills and abilities, and is not linked to a person's general level of intelligence.

Children of all intellectual abilities, from low to high intelligence, can be affected by dyslexia.

Similarly, the difficulty a child with dyslexia has with reading and spelling is not determined by their intelligence, but by how severe their dyslexia is. Children with average intelligence and mild dyslexia are likely to be more skilled at reading and writing than children with high intelligence and more severe dyslexia.

## Epidemiology

The prevalence of dyslexia is unknown; with estimations varying greatly between $1 \%$ to $33 \%$ of the population It is often estimated that the

| Contents | Page |
| :--- | :---: | :---: |
| 1. Leading Article - Dyslexia | 1 |
| 2. Summary of selected notifiable diseases reported $-\left(31^{t t}-06^{\text {th }}\right.$ February 2015) | 3 |
| 3. Surveillance of vaccine preventable diseases $\mathcal{E} A F P-\left(31^{t t}-06^{h h}\right.$ February 2015) | 4 |

prevalence of dyslexia is around 5-10 percent of a given population although there have been no studies to indicate an accurate percentage. Internationally, there are differing definitions of dyslexia, but despite the significant differences between the writing systems, Italian, German and English speaking populations suffer similarly from dyslexia. Dyslexia is not limited to difficulty in converting letters into sounds, but Chinese dyslexics have difficulty in extracting shapes of Chinese characters into meanings.

## What causes Dyslexia

The exact cause of dyslexia is unknown, but it's seen more commonly in families. Six genes have been identified that may be responsible for the condition, four of which affect the way the brain is formed during early life. Specialist brain scans (functional magnetic resonance imaging (MRI) scans) also show there is reduced function of one area towards the back of the brain, called the occipito-temporal cortex.

|  |  | Rarely | Occasionally | Otten | Most of the time | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Do you confuse visually similar words such as cat and cot? | 3 | 6 | 9 | 12 |  |
| 2 | Do you lose your place or miss out lines when reading? | 2 | 4 | 6 | 8 |  |
| 3 | Do you confuse the names of objects, for example table for chair? | 1 | 2 | 3 | 4 |  |
| 4 | Do you have trouble telling leff from right? | 1 | 2 | 3 | 4 |  |
| 5 | Is map reading of finding your way to a strange place confusing? | 1 | 2 | 3 | 4 |  |
| 6 | Do you re-eread paragraphs to understand them? | 1 | 2 | 3 | 4 |  |
| 7 | Do you get contised when given several instuctions at once? | 1 | 2 | 3 | 4 |  |
| 8 | Do you make mistakes when taking down telephone messages? | 1 | 2 | 3 | 4 |  |
| 9 | Do you find itdifificult to fo find the right word to say? | 1 | 2 | 3 | 4 |  |
| 10 | How oten do you think of creative solutions to problems? | 1 | 2 | 3 | 4 |  |
|  |  | Easy | Challenging | Difficult | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { Very } \\ \text { Difficiult } \end{array} \end{array}$ | Total |
| 11 | How easy do you find it to sound out words such as e-le-phant? | 3 | 6 | 9 | 12 |  |
| 12 | When witing, do you find it difficult to organise thoughts on paper? | 2 | 4 | 6 | 8 |  |
| 13 | Did you leam your multiplication tables easily? | 2 | 4 | 6 | 8 |  |
| 14 | How easy do you find it to recite the alphabet? | 1 | 2 | 3 | 4 |  |
| 15 | How hard do you find it to read aloud? | 1 | 2 | 3 | 4 |  |

Score less than 45 - probably non-dyslexic.
Research results: no individual who was diagnosed as dyslexic through a full assessment was found to have scored less than 45 and therefore it is unlikely that if you score under 45 you will be dyslexic.

## Score 45 to 60 - showing signs consistent with mild dyslexia.

Research results: most of those who were in this category showed signs of being at least moderately dyslexic. However, a number of persons not previously diagnosed as dyslexic (though they could just be unrecognised and undiagnosed) fell into this category.

Score Greater than 60 - signs consistent with moderate or severe dyslexia.
-Dyslexia Test-

## Associated Conditions

Dysgraphia
ADHD
Auditory processing disorder
Developmental coordination disorder

## Treatment

Although dyslexia is a lifelong problem, a range of educational programmes and interventions are often effective in improving reading and writing skills in many children with the condition. Research has shown that the earlier appropriate interventions are adopted, the better.
Most children respond well to educational interventions and go on to make progress with reading and writing, although some children continue to find reading and writing difficult and will require more intensive support and long-term assistance to help them learn strategies for managing their difficulties.

Children with dyslexia face challenges on a day-to-day basis, but even children who have severe dyslexia can go on to lead full and productive lives.

## Sources

http://www.nhs.uk/conditions/dyslexia/Pages/Introduction.aspx http://www.bdadyslexia.org.uk/screening

Compiled by Dr.C U D Gunasekara of the Epidemiology Unit

Table 1：Selected notifiable diseases reported by Medical Officers of Health

|  | ${ }^{0}$ | $\bigcirc$ | ก | $\stackrel{\sim}{N}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{-1}{m}$ | ค | $\bigcirc$ | 0 | 0 | $\infty$ | ヘ | 운 | ヘ | O | $\pm$ | 0 | $\stackrel{\text { N }}{ }$ | $\wedge$ | $\stackrel{\sim}{N}$ | － | $\pm$ | N | の | $\bigcirc$ | ！ | － | へ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\stackrel{*}{*}$ | む | F | N | N | 9 | $\boldsymbol{\infty}$ | 8 | O | O | N | ヘ | － | ヘ | 8 | $\infty$ | － | ¢ | ू | N | \％ | $\stackrel{\circ}{\infty}$ | － | न＇ | む | ก | ベ | ¢ |
|  | ¢ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\neg$ | $\neg$ | $\bigcirc$ | 0 | $\stackrel{\sim}{m}$ | 악 | $\bigcirc$ | 0 | $\bigcirc$ | 0 | $\neg$ | － | $\bigcirc$ | $\bigcirc$ | $\stackrel{\sim}{7}$ | $\bigcirc$ | N | $\wedge$ | $\bigcirc$ | ค | m | $\bigcirc$ | $\bigcirc$ | ＋ |
|  | ＜ | $\bigcirc$ | 0 | － | － | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | $\stackrel{\sim}{\sim}$ | m | $\bigcirc$ | 0 | － | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | m | $\bigcirc$ | ＋ | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | － | $\bigcirc$ | N |
|  | ¢ | m | m | n | $\sim$ | $\rightarrow$ | $\sigma$ | 7 | $\sim$ | $\wedge$ | $\rightarrow$ | － | － | $\bigcirc$ | $\rightarrow$ | $\sim$ | m | 0 | m | $\sim$ | เ | $\infty$ | $\infty$ | $\cdots$ | ＋ | $\wedge$ | $\bigcirc$ | ¢ |
|  | ＜ | $\bigcirc$ | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | － | $\bigcirc$ | $\bigcirc$ | $\rightarrow$ | 0 | － | 0 | － | 0 | 0 | $\bigcirc$ | $\bigcirc$ | － | － | 0 | － | 0 | － | $\bigcirc$ | － | $\rightarrow$ | $\bigcirc$ | n |
|  | ■ | $\stackrel{m}{ }$ | $\overrightarrow{7}$ | N | ® | $\rightarrow$ | 入 | ¢ | N | ¢ | $\stackrel{\square}{\square}$ | $\bigcirc$ | $\bigcirc$ | N | $\bigcirc$ | ＋ | ～ | ＋ | พิ | $\bigcirc$ | $\stackrel{\sim}{\sim}$ | 今 | 今 | $\stackrel{\square}{\square}$ | ＋ | $\stackrel{\sim}{\sim}$ | ～ | \％ |
|  | ＜ | $\bigcirc$ | $\bigcirc$ | N | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | N | $\sim$ | m | $\rightarrow$ | 0 | $\bigcirc$ | $\rightarrow$ | 0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\sim$ | $\sim$ | $\neg$ | ＋ | $\sim$ | ค | $\bigcirc$ | m | － | N |
|  | ■ | $\rightarrow$ | $\bigcirc$ | $\rightarrow$ | － | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | － | － | － | $\bigcirc$ | － | 0 | $\bigcirc$ | $\bigcirc$ | 0 | $\bigcirc$ | 0 | － | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | － | $\bigcirc$ | N |
|  | ＜ | $\bigcirc$ | $\bigcirc$ | $\neg$ | － | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ | 0 | － | － | － | 0 | $\bigcirc$ | $\bigcirc$ | 0 | $\bigcirc$ | 0 | 0 | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\cdots$ |
|  | ¢ | $\infty$ | 9 | ค | \％ | $\rightarrow$ | － | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | m | 0 | $\bigcirc$ | 0 | $\bigcirc$ | － | $\bigcirc$ | $\bigcirc$ | $\wedge$ | $\neg$ | m | － | $\stackrel{\infty}{\sim}$ | ค | น | $\stackrel{\infty}{\sim}$ | $\bigcirc$ | $\stackrel{N}{N}$ |
|  | ＜ | $\rightarrow$ | $\sim$ | $\bigcirc$ | $\wedge$ | $\bigcirc$ | $\bigcirc$ | 0 | $\bigcirc$ | 0 | 0 | 0 | 0 | 0 | 0 | － | $\bigcirc$ | － | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ | ค | $\rightarrow$ | $\stackrel{\sim}{\sim}$ | － | $\bigcirc$ | $\underline{m}$ |
|  | ■ | $\rightarrow$ | N | $\bigcirc$ | $\pm$ | $\rightarrow$ | $m$ | $\infty$ | ＊ | $\bigcirc$ | $\stackrel{\sim}{\sim}$ | m | $\bigcirc$ | $\infty$ | $\rightarrow$ | $\bigcirc$ | 0 | $\rightarrow$ | $\infty$ | m | m | $\bigcirc$ | $\sigma$ | 7 | $\sim$ | N | $\bigcirc$ | \％ |
|  | ＜ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\sim$ | $\bigcirc$ | $\neg$ | $\sim$ | － | $\sim$ | N | 0 | $\neg$ | $\rightarrow$ | 0 | － | 0 | － | $\neg$ | $\rightarrow$ | － | $\bigcirc$ | $\bigcirc$ | － | $\sim$ | － | $\bigcirc$ | O |
|  | ■ | ヘ | ～N | \＆ | N | $\underset{\sim}{\sim}$ | ค | ¢ | $\stackrel{\square}{\square}$ | N | $\bigcirc$ | 0 | ค | $\infty$ | $\sim$ | $\rightarrow$ | $\cdots$ | ＋ | กู | $\sigma$ | ¢ | N | $\bigcirc$ | N | $\overrightarrow{7}$ | ¢ | － | \％ |
|  | ＜ | n | $\neg$ | m | $\sim$ | － | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | in | $\rightarrow$ | $\bigcirc$ | m | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\infty$ | $\bigcirc$ | F | $\rightarrow$ | m | $\bigcirc$ | m | $\sim$ | $\bigcirc$ | $\underset{\sim}{7}$ |
| $\begin{aligned} & \text { 응 } \\ & \text { 응 } \\ & \hline \text { 응 } \end{aligned}$ | ¢ | 안 | $\sim$ | ＋ | － | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 9 | m | $\stackrel{\sim}{\sim}$ | $\cdots$ | $\sim$ | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | N | $\bigcirc$ | 0 | m | $\bigcirc$ | $\bigcirc$ | $\neg$ | $\rightarrow$ | $\bigcirc$ | ■ | $\stackrel{\text {－}}{\square}$ |
|  | ＜ | $\sim$ | $\bigcirc$ | $\rightarrow$ | $\bigcirc$ | － | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ | － | － | － | $\rightarrow$ | $\bigcirc$ | － | － | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | － | $\bigcirc$ | $\bigcirc$ | － | $\bigcirc$ | － | $\bigcirc$ | ＊ |
|  | ■ | N | m | $\bigcirc$ | N | $\cdots$ | m | $\rightarrow$ | m | $\sim$ | 8 | $\sim$ | m | ค | $\rightarrow$ | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | $\sim$ | $\bigcirc$ | $\bigcirc$ | m | $\rightarrow$ | m | $\bigcirc$ | $\stackrel{\sim}{\sim}$ | $\bigcirc$ | － |
|  | ＜ | $\bigcirc$ | $\bigcirc$ | － | N | － | － | $\cdots$ | $\bigcirc$ | － | $\bigcirc$ | 0 | － | 0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | N | $\bigcirc$ | $\bigcirc$ | N | $\bigcirc$ | $\bigcirc$ | $\pm$ |
|  | m | 7 | $\sim$ | 7 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 0 | m | $\bigcirc$ | $\bigcirc$ | N | $\bigcirc$ | $\cdots$ | $\bigcirc$ | $\bigcirc$ | $\rightarrow$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | m | $\sim$ | $\bigcirc$ | $\stackrel{-}{-1}$ |
|  | ＜ | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ | － | $\bigcirc$ | 0 | － | 0 | 0 | － | 0 | 0 | － | $\bigcirc$ | $\bigcirc$ | － | $\bigcirc$ | － | － | 0 | $\bigcirc$ | － | $\bigcirc$ | － | $\bigcirc$ | 0 |
|  | ■ | ¢ | $\infty$ | $\underset{\sim}{\sim}$ | ฝ | $\bigcirc$ | $\vec{m}$ | $\stackrel{\sim}{7}$ | ก | の | O | $\bigcirc$ | $\cdots$ | ＊ | ค | 사 | $\stackrel{m}{\sim}$ | m | N | $\sigma$ | 7 | へ | N | N | $\stackrel{\circ}{\circ}$ | 아 | $\stackrel{\text { N }}{ }$ | ¢ |
|  | ＜ | m | $\bigcirc$ | 7 | $\bigcirc$ | $\rightarrow$ | $\sim$ | $\bigcirc$ | $\bigcirc$ | $\cdots$ | $\stackrel{ \pm}{7}$ | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ | m | 7 | $\cdots$ | ค | $\bigcirc$ | $\sim$ | $\bigcirc$ | m | ค | N | $\rightarrow$ | ค | in |
|  | ■ | O్N | 이 | $\stackrel{m}{\mathrm{~m}}$ | $\stackrel{\sim}{\sim}$ | $\underset{\sim}{n}$ | \％ | ¢ | in | 万゙ | ¢ | 今 | $\stackrel{\circ}{\circ}$ | ¢ | $\stackrel{\sim}{0}$ | N／ | 안 | $\stackrel{\sim}{\sim}$ | $\underset{\sim}{\mathcal{F}}$ | $\stackrel{\bigcirc}{\circ}$ | $\underset{\sim}{\sim}$ | ก | $\stackrel{i}{\lambda}$ | 옹 | $\stackrel{\circ}{\square}$ | $\underset{7}{\sim}$ | $\underset{\sim}{7}$ | ¢ |
|  | ＜ | －${ }_{\sim}^{\text {® }}$ | ন | ¢ | $\stackrel{\sim}{\sim}$ | 악 | $\bigcirc$ | $\underset{\sim}{\square}$ | $\checkmark$ | 윽 | กn | $\cdots$ | $\bullet$ | $\bigcirc$ | $\rightarrow$ | $\stackrel{\rightharpoonup}{\text { r }}$ | $\bigcirc$ | $\cdots$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | 7 | $\bigcirc$ | $\stackrel{\sim}{\sim}$ | $\wedge$ | $\stackrel{\sim}{\sim}$ | $\infty$ | ล | N |
|  |  | － |  |  |  | $\begin{aligned} & \frac{0}{100} \\ & \sum_{i n}^{01} \end{aligned}$ |  | $\frac{\stackrel{\otimes}{\bar{K}}}{\substack{2}}$ |  |  |  | $\begin{aligned} & \text { 듬 } \\ & \text { 읓 } \\ & \text { 을 } \end{aligned}$ |  |  |  |  |  |  |  |  | 莵 |  | 䓂 |  | W | － | － | S |

Table 2: Vaccine-Preventable Diseases \& AFP

| Disease | No. of Cases by Province |  |  |  |  |  |  |  |  | Number of cases during current week in 2015 | Number of cases during same week in 2014 | Total number of cases to date in 2015 | Total number of cases to date in 2014 | Difference between the number of cases to date in 2014\& 2015 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | w | c | s | N | E | NW | NC | U | Sab |  |  |  |  |  |
| AFP* | 00 | 00 | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 00 | 07 | 08 | -12.5\% |
| Diphtheria | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | \% |
| Mumps | 01 | 00 | 00 | 01 | 01 | 00 | 01 | 00 | 00 | 04 | 17 | 43 | 117 | -63.3\% |
| Measles | 04 | 03 | 03 | 00 | 02 | 03 | 03 | 02 | 00 | 20 | 66 | 157 | 541 | -71.1\% |
| Rubella | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 02 | 01 | +100\% |
| CRS** | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | \% |
| Tetanus | 00 | 00 | 00 | 00 | 00 | 01 | 00 | 00 | 00 | 01 | 00 | 02 | 02 | \% |
| Neonatal Tetanus | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | \% |
| Japanese Encephalitis | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 02 | 02 | 11 | 82.1\% |
| Whooping Cough | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 09 | 07 | +28.5\% |
| Tuberculosis | 27 | 28 | 09 | 05 | 05 | 00 | 00 | 09 | 18 | 101 | 260 | 1082 | 1380 | -22.1\% |

## Key to Table 1 \& 2

Provinces: W: Western, C: Central, S: Southern, N: North, E: East, NC: North Central, NW: North Western, U: Uva, Sab: Sabaragamuwa.
RDHS Divisions: CB: Colombo, GM: Gampaha, KL: Kalutara, KD: Kandy, ML: Matale, NE: Nuwara Eliya, GL: Galle, HB: Hambantota, MT: Matara, JF: Jaffna, KN: Killinochchi, MN: Mannar, VA: Vavuniya, MU: Mullaitivu, BT: Batticaloa, AM: Ampara, TR: Trincomalee, KM: Kalmunai, KR: Kurunegala, PU: Puttalam, AP: Anuradhapura, PO: Polonnaruwa, BD: Badulla, MO: Moneragala, RP: Ratnapura, KG: Kegalle.
Data Sources:
Weekly Return of Communicable Diseases: Diphtheria, Measles, Tetanus, Neonatal Tetanus, Whooping Cough, Chickenpox, Meningitis, Mumps., Rubella, CRS,
Special Surveillance: AFP* (Acute Flaccid Paralysis ), Japanese Encephalitis
CRS** $=$ Congenital Rubella Syndrome
AFP and all clinically confirmed Vaccine Preventable Diseases except Tuberculosis and Mumps should be investigated by the MOH

## Dengue Prevention and Control Health Messages

## Look for plants such as bamboo, bohemia, rampe and banana in your surroundings and maintain them

## PRINTING OF THIS PUBLICATION IS FUNDED BY THE WORLD HEALTH ORGANIZATION (WHO).

Comments and contributions for publication in the WER Sri Lanka are welcome. However, the editor reserves the right to accept or reject items for publication. All correspondence should be mailed to The Editor, WER Sri Lanka, Epidemiological Unit, P.O. Box 1567, Colombo or sent by E-mail to chepid@sltnet.Ik. Prior approval should be obtained from the Epidemiology Unit before publishing data in this publication

ON STATE SERVICE

